

# ANNEX 16

Stresses due to seismic actions  
in ULS combination

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]
1	0.47	1.65	17.16	18.79	6.48	6.89	23.32	18.40	10.80	93.15	14.11	6.89	25.44	27.86	17.43
2	0.47	0.55	17.16	20.98	8.74	8.25	14.10	14.67	11.52	99.58	25.19	8.57	14.43	24.47	12.17
3	0.47	-0.55	17.16	20.98	8.74	8.25	14.10	14.67	11.52	99.58	25.19	8.57	14.43	24.47	12.18
4	0.47	-1.65	17.16	18.79	6.49	6.89	23.31	18.40	10.80	93.15	14.12	6.89	25.44	27.86	17.44
5	1.40	1.65	17.16	17.95	23.77	8.59	23.38	18.73	8.90	85.59	27.67	8.52	27.22	38.38	18.22
6	1.41	0.55	17.16	19.92	11.47	8.22	14.79	14.51	1.99	89.88	28.23	8.57	15.32	34.77	5.02
7	1.41	-0.55	17.16	19.92	11.49	8.22	14.79	14.51	1.99	89.88	28.23	8.57	15.31	34.77	5.02
8	1.40	-1.65	17.16	17.96	23.79	8.59	23.38	18.73	8.89	85.59	27.68	8.52	27.21	38.38	18.21
9	2.33	1.65	17.16	16.33	41.90	10.25	22.77	20.35	24.52	71.40	45.02	9.94	27.98	51.43	30.95
10	2.34	0.55	17.16	17.50	15.92	7.98	15.01	14.47	14.36	71.88	32.66	8.70	15.65	47.32	15.38
11	2.34	-0.55	17.16	17.50	15.95	7.98	15.01	14.47	14.36	71.88	32.67	8.69	15.65	47.32	15.37
12	2.33	-1.65	17.16	16.34	41.92	10.25	22.76	20.35	24.51	71.40	45.04	9.94	27.97	51.43	30.94
13	3.26	1.65	17.16	14.17	54.05	10.32	19.44	25.56	43.69	48.67	57.63	9.55	25.48	69.15	49.06
14	3.28	0.55	17.16	13.22	18.67	7.25	11.17	15.65	29.70	43.86	37.35	9.23	12.01	63.80	30.38
15	3.28	-0.55	17.16	13.23	18.69	7.25	11.17	15.65	29.70	43.87	37.36	9.23	12.00	63.80	30.38
16	3.26	-1.65	17.16	14.17	54.07	10.32	19.44	25.55	43.67	48.67	57.66	9.55	25.47	69.15	49.05
17	4.19	1.65	17.16	14.84	50.44	8.16	5.70	38.02	74.62	18.58	56.61	5.47	15.30	94.05	78.76
18	4.22	0.55	17.16	8.74	16.55	7.42	7.32	20.81	59.78	7.60	40.73	8.77	8.23	85.17	60.21
19	4.22	-0.55	17.16	8.74	16.58	7.42	7.33	20.80	59.77	7.60	40.74	8.77	8.23	85.17	60.21
20	4.19	-1.65	17.16	14.84	50.47	8.16	5.70	38.00	74.61	18.58	56.63	5.47	15.29	94.04	78.74
21	5.13	1.65	17.16	23.34	23.09	15.19	47.32	58.98	182.82	41.64	35.31	46.22	47.87	121.93	185.31
22	5.15	0.55	17.16	14.28	8.32	14.38	64.48	33.04	177.28	48.48	33.27	49.72	64.50	106.48	177.54
23	5.15	-0.55	17.16	14.28	8.34	14.39	64.48	33.03	177.28	48.48	33.27	49.72	64.50	106.48	177.53
24	5.13	-1.65	17.16	23.34	23.12	15.20	47.32	58.95	182.80	41.64	35.33	46.22	47.86	121.92	185.28
25	6.06	1.65	17.16	31.15	13.23	23.53	75.35	67.64	317.17	83.82	15.60	92.29	76.42	205.86	318.99
26	6.09	0.55	17.16	24.26	9.63	20.32	73.80	38.17	317.55	79.53	11.02	100.99	73.93	201.30	317.75
27	6.09	-0.55	17.16	24.25	9.62	20.33	73.80	38.13	317.54	79.53	11.01	100.99	73.92	201.29	317.74
28	6.06	-1.65	17.16	31.13	13.21	23.55	75.35	67.59	317.14	83.81	15.57	92.30	76.42	205.84	318.96
29	6.99	1.65	17.16	132.14	47.71	9.80	380.38	37.22	215.73	336.53	42.70	83.19	382.01	187.51	216.60
30	7.03	0.55	17.16	94.39	31.73	9.42	381.57	20.65	215.04	326.24	22.43	88.12	381.76	189.99	215.14
31	7.03	-0.55	17.16	94.33	31.72	9.43	381.56	20.62	215.03	326.22	22.42	88.12	381.75	189.99	215.13
32	6.99	-1.65	17.16	132.01	47.68	9.81	380.36	37.17	215.71	336.48	42.66	83.19	381.99	187.50	216.59
33	7.92	1.65	17.16	103.99	49.51	14.71	254.49	25.12	66.63	244.12	74.67	39.84	255.23	126.37	66.84
34	7.96	0.55	17.16	79.29	40.30	14.07	256.62	16.89	66.52	235.76	68.09	40.74	256.70	127.47	66.55
35	7.96	-0.55	17.16	79.25	40.29	14.07	256.62	16.88	66.52	235.75	68.07	40.74	256.70	127.47	66.55
36	7.92	-1.65	17.16	103.90	49.47	14.71	254.49	25.10	66.62	244.08	74.63	39.84	255.23	126.36	66.83
37	8.85	1.65	17.16	82.00	52.27	14.13	185.92	17.79	26.99	168.17	101.05	27.63	186.33	91.21	27.33
38	8.90	0.55	17.16	66.04	46.13	13.83	188.57	13.75	27.19	161.00	98.78	27.99	188.61	91.91	27.23
39	8.90	-0.55	17.16	66.02	46.12	13.82	188.57	13.74	27.19	160.98	98.77	27.99	188.62	91.91	27.23
40	8.85	-1.65	17.16	81.93	52.23	14.13	185.93	17.78	26.99	168.14	101.02	27.62	186.34	91.21	27.33
41	9.78	1.65	17.16	64.84	54.50	13.57	140.69	13.39	12.27	107.87	116.45	22.45	140.92	68.51	13.27
42	9.84	0.55	17.16	54.86	50.69	13.44	143.24	11.44	12.38	101.48	116.52	22.68	143.27	68.99	12.50
43	9.84	-0.55	17.16	54.84	50.68	13.44	143.24	11.44	12.38	101.47	116.51	22.68	143.27	68.99	12.50
44	9.78	-1.65	17.16	64.80	54.47	13.56	140.70	13.39	12.27	107.85	116.43	22.45	140.93	68.51	13.27
45	10.72	1.65	17.16	51.13	56.34	13.36	107.45	10.32	6.05	61.81	123.28	21.05	107.55	51.18	8.46
46	10.77	0.55	17.16	45.05	54.33	13.30	109.56	9.34	5.92	55.74	124.73	21.28	109.57	51.42	6.25
47	10.77	-0.55	17.16	45.03	54.32	13.30	109.57	9.34	5.92	55.73	124.73	21.28	109.58	51.42	6.25
48	10.72	-1.65	17.16	51.10	56.32	13.36	107.46	10.32	6.05	61.79	123.26	21.05	107.57	51.18	8.46
49	11.65	1.65	17.16	39.48	57.85	13.32	81.00	7.74	3.82	29.81	123.22	21.18	81.00	35.53	7.64
50	11.71	0.55	17.16	35.83	57.11	13.29	82.56	7.19	3.39	23.51	125.40	21.43	82.56	35.48	4.06
51	11.71	-0.55	17.16	35.83	57.11	13.29	82.56	7.19	3.39	23.50	125.40	21.43	82.56	35.48	4.06
52	11.65	-1.65	17.16	39.46	57.84	13.32	81.02	7.74	3.83	29.79	123.20	21.18	81.01	35.53	7.64
53	12.58	1.65	17.16	28.74	58.93	13.25	58.33	5.43	3.91	14.39	117.25	21.27	58.27	20.26	8.04
54	12.65	0.55	17.16	26.54	59.05	13.22	59.33	5.08	3.33	9.02	119.70	21.53	59.32	19.88	4.09
55	12.65	-0.55	17.16	26.54	59.05	13.22	59.33	5.08	3.33	9.01	119.70	21.54	59.32	19.88	4.09
56	12.58	-1.65	17.16	28.73	58.92	13.25	58.35	5.43	3.91	14.37	117.24	21.27	58.28	20.26	8.04
57	13.51	1.65	17.16	18.04	59.44	12.89	37.39	3.71	6.04	12.21	106.18	19.21	37.36	6.40	9.26
58	13.59	0.55	17.16	16.68	60.10	12.85	37.78	3.50	5.53	10.73	108.67	19.41	37.77	5.78	6.02
59	13.59	-0.55	17.16	16.68	60.10	12.85	37.78	3.50	5.53	10.72	108.67	19.41	37.78	5.78	6.02
60	13.51	-1.65	17.16	18.03	59.44	12.89	37.40	3.71	6.04	12.21	106.17	19.21	37.37	6.40	9.26
61	14.44	1.65	17.16	6.87	59.29	11.84	16.71	3.15	11.96	6.69	91.74	12.22	17.08	5.96	13.42
62	14.52	0.55	17.16	5.99	60.30	11.77	16.09	3.00	11.59	5.92	93.86	12.16	16.13	6.46	11.77
63	14.52	-0.55	17.16	5.99	60.30	11.77	16.09	3.00	11.60	5.92	93.86	12.16	16.14	6.46	11.78
64	14.44	-1.65	17.16	6.87	59.30	11.84	16.72	3.15	11.96	6.69	91.74	12.22	17.09	5.96	13.42
65	0.48	1.65	15.47	25.04	9.76	19.77	18.37	49.55	34.85	129.67	31.70	21.66	19.38	66.89	39.18
66	0.48	0.55	15.47	25.57	9.19	21.34	14.15	42.97	35.73	132.16	31.52	24.39	14.31	62.22	36.27
67	0.48	-0.55	15.47	25.57	9.19	21.34	14.15	42.97	35.74	132.16	31.52	24.39	14.31	62.22	36.28
68	0.48	-1.65	15.47	25.04	9.75	19.76	18.36	49.55	34.86	129.67	31.69	21.65	19.37	66.88	39.19
69	1.44	1.65	15.47	25.59	10.41	21.83	19.47	49.58	13.17	130.09	33.46	22.59	20.85	85.63	24.69
70	1.44	0.55	15.47	26.06	9.91	21.41	15.77	42.53	13.25	132.07	33.15	23.81	15.98	81.70	15.10
71	1.44	-0.55	15.47	26.06	9.91	21.41	15.76	42.53	13.25	132.07	33.15	23.81	15.98	81.70	15.11
72	1.44	-1.65	15.47	25.59	10.42	21.83	19.46	49.58	13.18	130.09	33.45	22.59	20.84	85.63	24.70
73	2.40	1.65	15.47	26.42	11.98	23.84	21.77	50.48	14.27	130.44	35.54	23.28	23.58	105.41	28.42
74	2.41	0.55	15.47	26.70	11.33	21.40	18.83	41.99	10.47	131.71	34.99	22.92	19.09	101.35	13.47
75	2.41	-0.55	15.47	26.70	11.34	21.40	18.83	41.99							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
99	8.19	-0.55	15.47	41.22	36.84	38.33	134.72	37.42	63.27	157.45	75.95	99.40	134.79	196.20	63.42
100	8.15	-1.65	15.47	49.88	41.77	39.76	132.28	42.12	62.68	159.29	78.68	97.05	132.93	193.61	63.99
101	9.10	1.65	15.47	48.36	45.31	40.47	119.33	37.59	34.52	151.71	88.44	83.00	119.70	180.71	36.62
102	9.15	0.55	15.47	40.67	41.64	39.62	121.84	34.18	34.90	150.53	87.28	84.39	121.89	183.01	35.15
103	9.15	-0.55	15.47	40.66	41.63	39.62	121.85	34.18	34.91	150.53	87.27	84.39	121.89	183.01	35.15
104	9.10	-1.65	15.47	48.33	45.28	40.47	119.34	37.58	34.53	151.69	88.41	83.00	119.71	180.71	36.62
105	10.06	1.65	15.47	42.92	47.83	40.50	99.03	32.74	17.70	128.61	93.79	77.55	99.25	158.32	22.07
106	10.11	0.55	15.47	37.02	45.58	40.05	101.28	30.56	17.64	127.67	93.88	78.74	101.31	160.05	18.20
107	10.11	-0.55	15.47	37.01	45.57	40.05	101.28	30.56	17.64	127.66	93.87	78.74	101.31	160.05	18.20
108	10.06	-1.65	15.47	42.89	47.81	40.50	99.04	32.73	17.70	128.60	93.76	77.55	99.26	158.32	22.07
109	11.02	1.65	15.47	35.86	50.05	40.74	78.76	27.78	9.56	99.66	94.73	77.57	78.88	131.98	17.42
110	11.08	0.55	15.47	31.67	48.96	40.48	80.55	26.40	8.82	98.72	95.62	78.80	80.56	133.02	10.10
111	11.08	-0.55	15.47	31.66	48.95	40.48	80.55	26.40	8.82	98.72	95.61	78.80	80.56	133.02	10.11
112	11.02	-1.65	15.47	35.83	50.03	40.74	78.77	27.78	9.56	99.65	94.72	77.57	78.89	131.98	17.42
113	11.98	1.65	15.47	28.32	52.15	40.93	60.00	22.77	7.17	70.14	91.87	79.18	60.04	103.15	17.25
114	12.04	0.55	15.47	25.49	51.87	40.76	61.27	21.82	5.75	69.13	93.15	80.47	61.27	103.45	7.83
115	12.04	-0.55	15.47	25.48	51.87	40.76	61.27	21.82	5.75	69.13	93.15	80.47	61.28	103.45	7.83
116	11.98	-1.65	15.47	28.30	52.14	40.93	60.01	22.77	7.17	70.13	91.86	79.18	60.05	103.15	17.26
117	12.94	1.65	15.47	20.78	54.14	40.59	42.82	17.82	8.42	43.17	85.93	77.89	42.75	72.98	18.28
118	13.00	0.55	15.47	18.94	54.38	40.43	43.56	17.10	6.91	42.09	87.33	79.13	43.55	72.54	8.83
119	13.00	-0.55	15.47	18.94	54.37	40.43	43.56	17.10	6.91	42.09	87.33	79.13	43.55	72.55	8.83
120	12.94	-1.65	15.47	20.77	54.13	40.59	42.83	17.82	8.42	43.17	85.93	77.89	42.76	72.99	18.28
121	13.90	1.65	15.47	13.34	56.03	39.02	27.08	13.29	13.06	20.88	77.85	67.85	26.84	43.37	20.63
122	13.97	0.55	15.47	12.19	56.54	38.82	27.27	12.66	11.87	19.86	79.28	68.73	27.24	42.30	13.04
123	13.97	-0.55	15.47	12.19	56.54	38.82	27.27	12.66	11.87	19.86	79.28	68.73	27.24	42.30	13.04
124	13.90	-1.65	15.47	13.33	56.03	39.02	27.09	13.29	13.06	20.88	77.84	67.85	26.85	43.37	20.63
125	14.85	1.65	15.47	5.91	57.84	35.56	13.39	9.67	21.43	6.39	69.09	43.36	12.81	16.74	26.18
126	14.93	0.55	15.47	5.17	58.54	35.26	12.78	9.13	20.50	5.68	70.25	43.32	12.72	15.36	21.12
127	14.93	-0.55	15.47	5.17	58.54	35.26	12.79	9.13	20.50	5.68	70.25	43.32	12.72	15.36	21.12
128	14.85	-1.65	15.47	5.91	57.84	35.56	13.40	9.67	21.43	6.39	69.09	43.36	12.81	16.74	26.18
129	0.49	1.65	13.78	35.03	16.18	33.39	15.37	75.35	62.85	182.01	48.06	44.27	16.69	90.05	64.37
130	0.49	0.55	13.78	34.98	15.09	33.14	15.01	71.15	63.18	183.33	46.69	44.06	15.18	87.68	63.38
131	0.49	-0.55	13.78	34.98	15.09	33.14	15.01	71.15	63.18	183.33	46.69	44.06	15.17	87.68	63.38
132	0.49	-1.65	13.78	35.03	16.17	33.39	15.36	75.35	62.85	182.01	48.05	44.26	16.68	90.05	64.38
133	1.48	1.65	13.78	36.64	17.02	34.38	17.00	74.75	43.42	188.37	50.92	42.18	18.57	109.67	46.20
134	1.48	0.55	13.78	36.77	15.75	33.55	16.85	70.49	42.93	189.88	49.29	41.78	17.04	108.25	43.30
135	1.48	-0.55	13.78	36.77	15.75	33.55	16.84	70.49	42.93	189.88	49.29	41.78	17.04	108.25	43.30
136	1.48	-1.65	13.78	36.64	17.00	34.37	17.00	74.75	43.42	188.37	50.91	42.18	18.56	109.66	46.21
137	2.46	1.65	13.78	38.84	18.65	35.89	20.81	74.14	24.27	195.34	54.00	39.02	22.62	128.94	30.10
138	2.47	0.55	13.78	39.06	17.15	34.61	20.98	69.69	23.06	197.07	52.04	38.32	21.20	127.97	23.92
139	2.47	-0.55	13.78	39.06	17.15	34.61	20.97	69.69	23.06	197.07	52.04	38.31	21.20	127.97	23.92
140	2.46	-1.65	13.78	38.84	18.63	35.89	20.80	74.14	24.27	195.34	53.98	39.02	22.61	128.93	30.10
141	3.45	1.65	13.78	41.80	21.11	37.84	27.72	73.48	6.68	202.39	57.45	35.32	29.73	146.31	20.46
142	3.46	0.55	13.78	41.93	19.29	36.42	28.29	68.93	4.38	204.24	55.17	33.96	28.54	145.41	8.18
143	3.46	-0.55	13.78	41.92	19.29	36.42	28.29	68.93	4.39	204.24	55.16	33.96	28.54	145.41	8.19
144	3.45	-1.65	13.78	41.79	21.09	37.83	27.72	73.48	6.68	202.39	57.43	35.32	29.72	146.31	20.47
145	4.43	1.65	13.78	45.22	24.36	40.81	39.31	72.48	9.73	206.96	61.58	37.35	41.36	162.13	22.01
146	4.45	0.55	13.78	44.90	22.25	39.43	40.41	68.38	10.58	208.49	59.22	35.58	40.66	161.47	12.69
147	4.45	-0.55	13.78	44.90	22.24	39.43	40.41	68.38	10.58	208.49	59.22	35.58	40.66	161.47	12.70
148	4.43	-1.65	13.78	45.21	24.33	40.80	39.30	72.48	9.73	206.96	61.56	37.34	41.35	162.13	22.02
149	5.42	1.65	13.78	46.57	28.05	45.12	50.82	71.00	18.39	205.61	66.45	52.80	52.75	179.41	26.52
150	5.44	0.55	13.78	45.59	25.72	43.64	52.16	67.71	19.36	206.55	64.38	51.97	52.40	179.50	20.48
151	5.44	-0.55	13.78	45.59	25.71	43.64	52.16	67.71	19.36	206.55	64.38	51.97	52.39	179.50	20.49
152	5.42	-1.65	13.78	46.56	28.02	45.12	50.82	71.00	18.39	205.61	66.43	52.79	52.75	179.41	26.53
153	6.40	1.65	13.78	45.58	31.72	50.01	59.86	68.45	23.51	201.32	71.63	73.55	61.55	201.51	29.67
154	6.43	0.55	13.78	44.07	29.33	48.54	61.57	65.63	24.24	202.00	70.06	74.16	61.77	202.53	25.03
155	6.43	-0.55	13.78	44.07	29.32	48.54	61.57	65.63	24.24	202.00	70.05	74.16	61.77	202.53	25.03
156	6.40	-1.65	13.78	45.56	31.68	50.00	59.86	68.45	23.51	201.31	71.61	73.55	61.55	201.51	29.68
157	7.39	1.65	13.78	45.43	35.77	55.04	71.99	64.83	20.72	200.06	76.14	93.24	73.34	219.39	26.87
158	7.42	0.55	13.78	43.10	33.38	53.72	73.69	62.61	21.25	200.45	75.02	94.93	73.84	221.50	22.03
159	7.42	-0.55	13.78	43.09	33.37	53.72	73.69	62.61	21.25	200.45	75.01	94.93	73.84	221.50	22.03
160	7.39	-1.65	13.78	45.41	35.74	55.04	71.99	64.83	20.73	200.06	76.11	93.24	73.34	219.39	26.88
161	8.37	1.65	13.78	41.87	39.15	59.73	71.24	60.60	14.49	189.11	80.14	109.75	72.29	231.87	22.30
162	8.41	0.55	13.78	39.62	37.15	58.61	73.09	58.83	14.67	189.81	79.61	111.95	73.21	234.82	15.75
163	8.41	-0.55	13.78	39.62	37.15	58.61	73.09	58.83	14.67	189.81	79.60	111.95	73.21	234.82	15.75
164	8.37	-1.65	13.78	41.86	39.13	59.72	71.25	60.60	14.50	189.10	80.12	109.75	72.30	231.87	22.31
165	9.36	1.65	13.78	39.01	42.44	63.57	69.53	55.85	8.73	178.62	81.54	123.25	70.37	235.58	19.83
166	9.40	0.55	13.78	36.78	40.97	62.71	71.32	54.36	8.05	179.63	81.48	125.58	71.42	238.70	10.03
167	9.40	-0.55	13.78	36.77	40.96	62.71	71.32	54.36	8.05	179.63	81.47	125.58	71.42	238.71	10.04
168	9.36	-1.65	13.78	38.99	42.42	63.57	69.54	55.85	8.74	178.62	81.52	123.26	70.38	235.58	19.83
169	10.34	1.65	13.78	35.20	45.47	66.47	62.26	50.72	5.23	159.31	81.15	135.32	62.98	225.73	19.93
170	10.39	0.55	13.78	33.21	44.60	65.87	63.80	49.53	2.33	160.22	81.53	137.79	63.88	228.44	6.88
171	10.39	-0.55	13.78	33.20	44.60	65.87	63.80	49.53	2.33	160.22	81.53	137.79	63.88	228.45	6.88
172	10.34	-1.65	13.78	35.18	45.45	66.									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
197	1.52	1.65	12.09	46.58	21.05	49.36	14.76	100.27	75.39	243.48	60.88	67.36	17.50	127.14	76.48
198	1.52	0.55	12.09	46.82	20.54	47.87	15.04	98.15	75.38	245.31	60.68	65.62	15.37	126.92	75.51
199	1.52	-0.55	12.09	46.82	20.54	47.87	15.04	98.15	75.38	245.31	60.68	65.62	15.37	126.92	75.51
200	1.52	-1.65	12.09	46.58	21.04	49.36	14.75	100.27	75.39	243.48	60.88	67.36	17.48	127.14	76.48
201	2.53	1.65	12.09	49.08	22.41	51.48	17.74	98.92	60.79	254.77	64.21	62.27	20.77	148.81	62.41
202	2.54	0.55	12.09	49.45	21.75	49.92	18.18	96.90	60.51	256.86	63.91	60.34	18.54	149.15	60.70
203	2.54	-0.55	12.09	49.45	21.75	49.92	18.18	96.90	60.51	256.86	63.91	60.34	18.54	149.15	60.70
204	2.53	-1.65	12.09	49.08	22.40	51.47	17.73	98.92	60.79	254.77	64.20	62.27	20.76	148.81	62.42
205	3.54	1.65	12.09	51.46	24.40	54.74	22.42	97.21	47.89	264.73	67.54	56.61	25.55	171.33	50.25
206	3.56	0.55	12.09	51.86	23.59	53.17	23.04	95.36	47.40	266.98	67.18	54.48	23.41	172.18	47.68
207	3.56	-0.55	12.09	51.86	23.59	53.17	23.04	95.36	47.40	266.98	67.18	54.48	23.40	172.18	47.69
208	3.54	-1.65	12.09	51.46	24.38	54.73	22.41	97.21	47.89	264.73	67.53	56.61	25.54	171.33	50.26
209	4.55	1.65	12.09	53.11	26.89	58.98	27.94	95.03	37.27	272.33	70.78	54.17	31.05	195.26	40.61
210	4.57	0.55	12.09	53.43	25.96	57.43	28.71	93.40	36.62	274.66	70.41	52.18	29.08	196.68	37.03
211	4.57	-0.55	12.09	53.43	25.96	57.42	28.71	93.40	36.62	274.66	70.41	52.17	29.07	196.68	37.03
212	4.55	-1.65	12.09	53.11	26.87	58.97	27.94	95.03	37.27	272.33	70.77	54.16	31.03	195.26	40.62
213	5.56	1.65	12.09	53.84	29.76	63.89	33.87	92.16	29.38	277.34	73.71	59.80	36.85	220.85	33.88
214	5.59	0.55	12.09	54.02	28.75	62.40	34.83	90.75	28.59	279.73	73.37	58.65	35.17	222.88	29.15
215	5.59	-0.55	12.09	54.02	28.75	62.40	34.83	90.75	28.59	279.72	73.37	58.65	35.17	222.88	29.15
216	5.56	-1.65	12.09	53.83	29.74	63.89	33.87	92.17	29.37	277.34	73.70	59.80	36.84	220.85	33.88
217	6.57	1.65	12.09	53.67	32.92	69.31	39.61	88.63	24.90	279.60	75.91	74.79	42.39	246.55	30.48
218	6.60	0.55	12.09	53.66	31.91	67.90	40.67	87.43	24.02	281.99	75.66	74.80	41.00	249.23	24.75
219	6.60	-0.55	12.09	53.66	31.90	67.90	40.67	87.43	24.02	281.99	75.66	74.80	40.99	249.23	24.75
220	6.57	-1.65	12.09	53.66	32.90	69.30	39.60	88.63	24.89	279.60	75.90	74.78	42.38	246.56	30.49
221	7.59	1.65	12.09	52.12	36.13	74.98	42.46	84.46	22.74	277.04	77.07	96.41	45.09	271.12	29.32
222	7.62	0.55	12.09	51.99	35.25	73.71	43.62	83.42	21.86	279.49	76.96	97.47	43.92	274.38	22.73
223	7.62	-0.55	12.09	51.99	35.24	73.71	43.62	83.42	21.86	279.49	76.96	97.47	43.92	274.38	22.73
224	7.59	-1.65	12.09	52.11	36.11	74.98	42.46	84.46	22.73	277.04	77.06	96.41	45.09	271.13	29.33
225	8.60	1.65	12.09	49.92	39.49	80.74	44.15	79.81	22.29	270.23	76.59	122.55	46.66	291.04	29.79
226	8.64	0.55	12.09	49.66	38.81	79.66	45.28	78.92	21.45	272.66	76.61	124.47	45.57	294.70	22.45
227	8.64	-0.55	12.09	49.65	38.81	79.66	45.28	78.92	21.45	272.66	76.61	124.47	45.57	294.70	22.45
228	8.60	-1.65	12.09	49.91	39.47	80.74	44.16	79.82	22.28	270.23	76.58	122.55	46.66	291.05	29.79
229	9.61	1.65	12.09	46.33	42.87	86.50	42.53	74.90	22.47	254.67	74.53	152.65	45.01	303.08	31.01
230	9.65	0.55	12.09	46.02	42.46	85.63	43.55	74.14	21.70	256.95	74.66	155.32	43.84	306.89	22.85
231	9.65	-0.55	12.09	46.02	42.46	85.63	43.56	74.15	21.70	256.95	74.66	155.32	43.84	306.90	22.85
232	9.61	-1.65	12.09	46.33	42.86	86.50	42.53	74.91	22.47	254.68	74.52	152.65	45.01	303.09	31.01
233	10.62	1.65	12.09	41.51	46.35	92.11	38.96	69.64	21.92	229.95	70.67	186.21	41.53	304.71	31.95
234	10.67	0.55	12.09	41.16	46.19	91.44	39.82	69.00	21.17	231.86	70.88	189.61	40.11	308.36	22.55
235	10.67	-0.55	12.09	41.15	46.18	91.44	39.82	69.00	21.17	231.86	70.87	189.61	40.11	308.36	22.55
236	10.62	-1.65	12.09	41.50	46.34	92.11	38.97	69.65	21.92	229.95	70.66	186.21	41.53	304.71	31.95
237	11.63	1.65	12.09	35.30	49.89	97.17	33.76	63.77	20.00	194.92	65.37	220.55	36.50	292.68	32.21
238	11.69	0.55	12.09	34.91	49.93	96.67	34.38	63.22	19.18	196.18	65.65	224.67	34.69	295.84	20.97
239	11.69	-0.55	12.09	34.91	49.93	96.67	34.38	63.22	19.18	196.18	65.65	224.67	34.69	295.84	20.97
240	11.63	-1.65	12.09	35.30	49.89	97.17	33.77	63.78	20.00	194.92	65.37	220.56	36.50	292.69	32.21
241	12.64	1.65	12.09	27.95	53.49	100.93	27.57	56.89	16.34	151.60	59.05	250.09	30.50	264.77	31.70
242	12.70	0.55	12.09	27.51	53.67	100.53	27.90	56.38	15.21	151.99	59.41	254.78	28.24	267.10	17.74
243	12.70	-0.55	12.09	27.51	53.67	100.53	27.90	56.38	15.21	151.99	59.41	254.79	28.24	267.10	17.74
244	12.64	-1.65	12.09	27.94	53.49	100.94	27.58	56.89	16.33	151.60	59.05	250.10	30.50	264.78	31.70
245	13.65	1.65	12.09	20.15	57.18	102.34	20.96	48.67	11.28	105.35	52.11	266.54	23.95	220.35	30.83
246	13.72	0.55	12.09	19.68	57.43	101.94	20.96	48.15	9.18	104.86	52.58	271.40	21.32	221.52	13.34
247	13.72	-0.55	12.09	19.68	57.43	101.94	20.97	48.15	9.18	104.86	52.58	271.41	21.32	221.52	13.33
248	13.65	-1.65	12.09	20.15	57.18	102.35	20.97	48.67	11.27	105.35	52.11	266.55	23.95	220.36	30.82
249	14.67	1.65	12.09	12.50	60.93	100.14	14.38	38.86	7.81	60.38	45.43	259.53	17.23	159.14	30.56
250	14.73	0.55	12.09	12.02	61.17	99.62	13.97	38.30	2.70	59.30	46.08	263.82	14.34	158.93	10.36
251	14.73	-0.55	12.09	12.02	61.17	99.62	13.97	38.30	2.69	59.30	46.08	263.82	14.34	158.94	10.34
252	14.67	-1.65	12.09	12.50	60.93	100.14	14.39	38.86	7.80	60.39	45.43	259.54	17.22	159.14	30.54
253	15.68	1.65	12.09	7.27	64.73	93.57	8.35	27.80	12.78	28.40	39.62	221.72	10.59	86.42	31.87
254	15.75	0.55	12.09	6.90	65.05	92.80	7.23	27.22	9.67	27.24	40.16	224.53	7.55	84.91	13.83
255	15.75	-0.55	12.09	6.90	65.05	92.80	7.23	27.22	9.66	27.24	40.16	224.53	7.55	84.91	13.82
256	15.68	-1.65	12.09	7.27	64.73	93.57	8.35	27.80	12.77	28.40	39.62	221.74	10.59	86.42	31.86
257	0.52	1.65	10.41	52.27	23.42	63.50	11.03	127.31	117.40	276.19	62.88	98.80	14.67	115.69	117.82
258	0.52	0.55	10.41	52.38	23.36	61.77	11.18	126.27	117.83	278.09	63.11	97.03	11.64	115.61	117.88
259	0.52	-0.55	10.41	52.38	23.36	61.77	11.18	126.27	117.83	278.09	63.11	97.03	11.64	115.61	117.88
260	0.52	-1.65	10.41	52.27	23.42	63.50	11.03	127.32	117.40	276.19	62.87	98.80	14.65	115.69	117.82
261	1.56	1.65	10.41	55.37	23.93	64.53	11.50	125.86	105.17	294.15	66.32	95.76	16.02	138.36	105.75
262	1.56	0.55	10.41	55.68	23.80	62.73	11.65	124.88	105.43	296.37	66.55	93.85	12.24	138.81	105.50
263	1.56	-0.55	10.41	55.68	23.80	62.73	11.65	124.88	105.43	296.37	66.55	93.85	12.24	138.81	105.50
264	1.56	-1.65	10.41	55.37	23.93	64.53	11.50	125.86	105.17	294.15	66.31	95.77	16.00	138.36	105.75
265	2.59	1.65	10.41	58.55	25.05	67.05	13.09	123.76	93.65	312.37	69.55	90.40	18.21	163.01	94.45
266	2.61	0.55	10.41	59.00	24.84	65.26	13.29	122.84	93.77	314.91	69.76	88.29	13.96	163.98	93.85
267	2.61	-0.55	10.41	59.00	24.84	65.25	13.29	122.84	93.77	314.91	69.76	88.29	13.95	163.98	93.86
268	2.59	-1.65	10.41	58.55	25.04	67.05	13.09	123.76	93.65	312.36	69.54	90.40	18.19	163.01	94.46
269	3.63	1.65	10.41	61.56	26.72	70.85	15.56	120.99	83.25	330.34	72.39	83.32	2		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
295	9.90	-0.55	10.41	64.84	45.39	107.37	27.11	93.13	49.02	382.27	64.78	170.52	27.85	383.86	49.60
296	9.86	-1.65	10.41	64.50	45.30	108.35	26.73	93.56	49.36	378.60	65.06	168.09	32.87	379.45	54.32
297	10.90	1.65	10.41	59.75	49.39	116.64	25.17	88.73	45.02	356.12	57.97	222.97	31.81	399.76	51.38
298	10.95	0.55	10.41	60.00	49.59	115.84	25.40	88.39	44.62	359.35	57.63	226.58	26.22	404.30	45.38
299	10.95	-0.55	10.41	60.00	49.59	115.84	25.40	88.39	44.62	359.35	57.63	226.58	26.21	404.30	45.38
300	10.90	-1.65	10.41	59.75	49.39	116.64	25.17	88.74	45.02	356.12	57.97	222.97	31.80	399.76	51.38
301	11.94	1.65	10.41	52.25	53.61	125.28	22.70	83.54	39.49	315.84	50.37	287.35	30.12	405.75	47.94
302	11.99	0.55	10.41	52.37	53.87	124.66	22.73	83.28	38.98	318.30	50.10	292.24	23.68	410.18	40.03
303	11.99	-0.55	10.41	52.37	53.87	124.66	22.73	83.28	38.98	318.30	50.10	292.25	23.67	410.18	40.02
304	11.94	-1.65	10.41	52.25	53.61	125.29	22.71	83.54	39.49	315.84	50.37	287.36	30.10	405.76	47.94
305	12.97	1.65	10.41	41.84	57.82	133.36	19.51	76.88	32.46	256.02	44.03	353.97	27.99	388.38	44.33
306	13.03	0.55	10.41	41.79	58.09	132.87	19.26	76.65	31.75	257.33	43.98	360.21	20.40	392.29	33.32
307	13.03	-0.55	10.41	41.79	58.10	132.87	19.26	76.65	31.75	257.33	43.98	360.21	20.39	392.30	33.32
308	12.97	-1.65	10.41	41.84	57.82	133.36	19.52	76.88	32.46	256.02	44.03	353.99	27.97	388.39	44.32
309	14.01	1.65	10.41	29.44	61.91	138.62	15.71	67.31	23.92	181.27	40.67	405.91	25.22	337.39	41.52
310	14.07	0.55	10.41	29.17	62.13	138.20	15.09	67.03	22.84	181.11	40.86	413.25	16.48	340.12	25.54
311	14.07	-0.55	10.41	29.17	62.13	138.20	15.09	67.04	22.84	181.11	40.87	413.25	16.47	340.12	25.53
312	14.01	-1.65	10.41	29.44	61.92	138.63	15.72	67.32	23.92	181.27	40.68	405.93	25.20	337.39	41.51
313	15.05	1.65	10.41	18.60	66.11	138.82	11.42	54.75	14.55	112.42	41.10	424.74	20.89	255.27	40.06
314	15.12	0.55	10.41	18.20	66.18	138.29	10.30	54.34	12.45	110.99	41.15	432.24	11.89	256.04	17.75
315	15.12	-0.55	10.41	18.20	66.18	138.30	10.30	54.34	12.44	110.99	41.15	432.25	11.88	256.04	17.73
316	15.05	-1.65	10.41	18.60	66.12	138.83	11.42	54.75	14.54	112.42	41.10	424.75	20.87	255.27	40.04
317	16.09	1.65	10.41	9.09	69.91	131.70	6.94	39.27	8.71	42.07	43.98	387.09	16.20	143.59	40.56
318	16.16	0.55	10.41	8.74	69.95	130.87	4.81	38.71	2.94	40.41	43.62	393.30	6.86	142.27	13.79
319	16.16	-0.55	10.41	8.74	69.96	130.87	4.82	38.71	2.91	40.41	43.62	393.31	6.85	142.28	13.76
320	16.09	-1.65	10.41	9.08	69.92	131.71	6.95	39.27	8.69	42.07	43.98	387.11	16.19	143.59	40.53
321	0.53	1.65	8.72	58.89	25.66	78.14	8.49	153.23	142.20	312.71	64.36	128.59	13.91	117.12	142.43
322	0.53	0.55	8.72	59.07	25.69	76.18	8.23	152.78	142.72	314.88	64.64	126.86	9.03	117.42	142.75
323	0.53	-0.55	8.72	59.07	25.69	76.18	8.23	152.78	142.72	314.87	64.63	126.86	9.02	117.42	142.75
324	0.53	-1.65	8.72	58.89	25.66	78.14	8.48	153.23	142.20	312.70	64.35	128.59	13.90	117.12	142.44
325	1.60	1.65	8.72	63.10	26.06	79.15	8.33	151.32	132.25	338.25	67.84	126.59	15.21	140.36	132.58
326	1.60	0.55	8.72	63.45	26.07	77.14	7.98	150.90	132.65	340.82	68.13	124.75	9.06	141.08	132.69
327	1.60	-0.55	8.72	63.45	26.07	77.14	7.98	150.90	132.65	340.82	68.13	124.75	9.05	141.08	132.69
328	1.60	-1.65	8.72	63.11	26.06	79.15	8.33	151.32	132.25	338.25	67.83	126.59	15.19	140.36	132.58
329	2.66	1.65	8.72	67.56	27.05	81.91	8.91	148.45	122.72	365.56	70.90	122.04	16.97	166.12	123.17
330	2.67	0.55	8.72	68.04	27.03	79.92	8.53	148.05	123.01	368.56	71.18	120.05	9.82	167.27	123.06
331	2.67	-0.55	8.72	68.04	27.03	79.92	8.53	148.05	123.01	368.56	71.18	120.05	9.80	167.27	123.06
332	2.66	-1.65	8.72	67.56	27.04	81.90	8.90	148.45	122.73	365.56	70.89	122.05	16.95	166.12	123.17
333	3.73	1.65	8.72	72.15	28.61	86.09	10.06	144.61	113.87	394.54	73.28	115.01	19.02	194.85	114.48
334	3.74	0.55	8.72	72.74	28.58	84.18	9.70	144.23	114.06	397.99	73.52	112.82	11.12	196.43	114.13
335	3.74	-0.55	8.72	72.74	28.58	84.18	9.70	144.23	114.06	397.99	73.52	112.82	11.10	196.43	114.13
336	3.73	-1.65	8.72	72.15	28.60	86.09	10.05	144.61	113.88	394.54	73.27	115.01	19.00	194.85	114.49
337	4.79	1.65	8.72	76.76	30.73	91.36	11.58	139.86	105.87	424.94	74.64	105.94	21.20	226.94	106.69
338	4.81	0.55	8.72	77.43	30.70	89.55	11.26	139.49	105.98	428.85	74.80	103.56	12.74	229.00	106.07
339	4.81	-0.55	8.72	77.43	30.70	89.55	11.26	139.49	105.98	428.85	74.80	103.56	12.73	229.00	106.07
340	4.79	-1.65	8.72	76.76	30.72	91.36	11.58	139.86	105.87	424.94	74.64	105.94	21.18	226.94	106.70
341	5.85	1.65	8.72	81.28	33.38	97.41	13.23	134.29	98.76	456.22	74.57	96.18	23.32	262.76	99.86
342	5.88	0.55	8.72	81.99	33.39	95.72	12.96	133.93	98.80	460.56	74.59	93.67	14.46	265.31	98.92
343	5.88	-0.55	8.72	81.99	33.39	95.72	12.95	133.93	98.80	460.56	74.59	93.66	14.45	265.31	98.92
344	5.85	-1.65	8.72	81.28	33.37	97.40	13.22	134.29	98.76	456.22	74.57	96.18	23.29	262.77	99.86
345	6.92	1.65	8.72	85.56	36.55	104.04	14.79	128.13	92.45	487.42	72.63	89.12	25.19	302.48	93.90
346	6.95	0.55	8.72	86.30	36.64	102.48	14.55	127.76	92.43	492.15	72.44	86.76	16.06	305.52	92.60
347	6.95	-0.55	8.72	86.30	36.64	102.48	14.55	127.76	92.44	492.15	72.43	86.76	16.05	305.53	92.60
348	6.92	-1.65	8.72	85.56	36.55	104.03	14.79	128.13	92.45	487.42	72.63	89.12	25.16	302.48	93.91
349	7.98	1.65	8.72	89.34	40.25	111.20	16.02	121.72	86.69	516.76	68.39	91.83	26.62	346.07	88.57
350	8.02	0.55	8.72	90.08	40.42	109.78	15.79	121.36	86.62	521.77	67.93	90.27	17.30	349.61	86.83
351	8.02	-0.55	8.72	90.08	40.42	109.78	15.79	121.36	86.62	521.78	67.93	90.27	17.29	349.62	86.83
352	7.98	-1.65	8.72	89.34	40.24	111.20	16.02	121.73	86.69	516.76	68.39	91.82	26.59	346.08	88.57
353	9.05	1.65	8.72	92.22	44.45	119.02	16.88	115.59	81.08	541.56	61.68	113.15	27.58	393.17	83.48
354	9.09	0.55	8.72	92.96	44.73	117.74	16.65	115.25	80.95	546.71	60.96	113.02	18.15	397.17	81.22
355	9.09	-0.55	8.72	92.96	44.73	117.74	16.65	115.25	80.95	546.71	60.96	113.02	18.13	397.17	81.22
356	9.05	-1.65	8.72	92.22	44.45	119.02	16.89	115.59	81.09	541.56	61.68	113.15	27.55	393.18	83.48
357	10.11	1.65	8.72	93.54	49.15	127.75	17.33	110.31	75.14	557.49	53.10	157.70	28.08	442.71	78.16
358	10.15	0.55	8.72	94.23	49.52	126.61	17.07	110.02	74.92	562.59	52.28	159.11	18.56	447.11	75.26
359	10.15	-0.55	8.72	94.23	49.52	126.61	17.07	110.02	74.92	562.59	52.28	159.11	18.55	447.11	75.26
360	10.11	-1.65	8.72	93.54	49.15	127.75	17.33	110.31	75.15	557.49	53.10	157.70	28.05	442.71	78.17
361	11.18	1.65	8.72	92.28	54.28	137.85	17.46	106.36	68.31	558.34	45.21	226.69	28.38	492.12	72.15
362	11.22	0.55	8.72	92.91	54.71	136.86	17.13	106.17	67.95	563.17	44.80	229.61	18.65	496.85	68.38
363	11.22	-0.55	8.72	92.91	54.71	136.86	17.13	106.18	67.95	563.17	44.80	229.61	18.63	496.86	68.38
364	11.18	-1.65	8.72	92.28	54.28	137.86	17.47	106.37	68.32	558.35	45.21	226.70	28.35	492.12	72.15
365	12.24	1.65	8.72	86.98	59.68	149.87	17.30	103.70	60.04	534.90	43.94	321.75	28.86	535.46	65.12
366	12.29	0.55	8.72	87.51	60.10	149.04	16.84	103.64	59.47	539.18	44.60	326.31	18.48	540.47	60.06
367	12.29	-0.55	8.72	87.51	60.11										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
393	2.73	1.65	7.03	75.11	28.40	96.61	5.92	173.39	148.90	407.19	68.68	154.60	16.97	155.84	149.13
394	2.74	0.55	7.03	75.62	28.43	94.46	4.55	173.28	149.33	410.50	68.88	152.80	7.00	156.86	149.36
395	2.74	-0.55	7.03	75.62	28.43	94.46	4.55	173.28	149.33	410.50	68.88	152.80	7.00	156.86	149.36
396	2.73	-1.65	7.03	75.11	28.39	96.60	5.92	173.39	148.91	407.19	68.68	154.60	16.95	155.84	149.14
397	3.82	1.65	7.03	81.66	29.96	101.37	6.30	168.58	141.10	448.05	70.71	148.84	18.89	182.80	141.42
398	3.83	0.55	7.03	82.29	30.01	99.32	4.81	168.45	141.45	451.92	70.83	146.91	7.67	184.15	141.48
399	3.83	-0.55	7.03	82.29	30.01	99.32	4.81	168.45	141.45	451.92	70.83	146.91	7.65	184.16	141.49
400	3.82	-1.65	7.03	81.66	29.96	101.36	6.30	168.58	141.10	448.05	70.70	148.84	18.87	182.80	141.43
401	4.91	1.65	7.03	88.79	32.17	107.34	6.92	162.55	133.74	493.37	71.40	140.31	20.80	213.44	134.19
402	4.93	0.55	7.03	89.52	32.25	105.42	5.42	162.40	134.01	497.81	71.37	138.22	8.51	215.14	134.06
403	4.93	-0.55	7.03	89.52	32.25	105.42	5.42	162.40	134.02	497.81	71.36	138.22	8.49	215.14	134.07
404	4.91	-1.65	7.03	88.79	32.16	107.33	6.92	162.55	133.75	493.37	71.40	140.31	20.77	213.44	134.20
405	6.00	1.65	7.03	96.51	35.03	114.11	7.71	155.42	126.83	543.35	70.25	129.08	22.54	248.49	127.46
406	6.02	0.55	7.03	97.33	35.18	112.34	6.25	155.23	127.04	548.33	69.96	126.78	9.43	250.57	127.11
407	6.02	-0.55	7.03	97.33	35.18	112.34	6.25	155.23	127.04	548.33	69.95	126.78	9.40	250.57	127.11
408	6.00	-1.65	7.03	96.51	35.03	114.10	7.71	155.43	126.84	543.35	70.24	129.08	22.51	248.50	127.47
409	7.09	1.65	7.03	104.83	38.59	121.38	8.59	147.41	120.29	597.87	66.67	115.92	23.93	288.87	121.12
410	7.12	0.55	7.03	105.71	38.83	119.75	7.21	147.17	120.42	603.34	66.04	113.41	10.34	291.33	120.51
411	7.12	-0.55	7.03	105.71	38.83	119.75	7.21	147.18	120.43	603.34	66.04	113.41	10.31	291.33	120.52
412	7.09	-1.65	7.03	104.83	38.58	121.37	8.59	147.41	120.29	597.87	66.66	115.92	23.90	288.88	121.14
413	8.18	1.65	7.03	113.69	42.89	128.98	9.53	138.89	113.90	656.45	60.28	103.84	24.81	335.67	115.00
414	8.21	0.55	7.03	114.60	43.25	127.49	8.27	138.61	113.96	662.26	59.29	101.28	11.20	338.50	114.08
415	8.21	-0.55	7.03	114.60	43.25	127.49	8.28	138.62	113.96	662.26	59.29	101.28	11.18	338.51	114.08
416	8.18	-1.65	7.03	113.69	42.89	128.97	9.54	138.89	113.90	656.45	60.28	103.83	24.77	335.68	115.01
417	9.27	1.65	7.03	122.90	48.00	136.91	10.58	130.50	107.35	717.83	51.66	101.64	25.08	390.31	108.76
418	9.31	0.55	7.03	123.83	48.47	135.55	9.50	130.20	107.31	723.81	50.57	99.69	12.07	393.47	107.46
419	9.31	-0.55	7.03	123.84	48.47	135.55	9.51	130.20	107.31	723.81	50.57	99.69	12.04	393.47	107.47
420	9.27	-1.65	7.03	122.90	48.00	136.91	10.59	130.51	107.36	717.83	51.65	101.64	25.04	390.32	108.77
421	10.36	1.65	7.03	132.09	53.98	145.43	11.89	123.25	100.22	779.63	44.86	124.65	24.83	454.53	101.96
422	10.41	0.55	7.03	133.02	54.54	144.18	11.06	122.96	100.02	785.59	44.70	124.30	13.13	457.97	100.21
423	10.41	-0.55	7.03	133.02	54.54	144.18	11.06	122.96	100.03	785.59	44.70	124.30	13.10	457.97	100.22
424	10.36	-1.65	7.03	132.09	53.98	145.43	11.90	123.26	100.23	779.63	44.86	124.65	24.79	454.53	101.97
425	11.45	1.65	7.03	140.48	60.83	155.14	13.69	118.62	91.90	837.45	50.96	183.74	24.54	530.36	94.00
426	11.50	0.55	7.03	141.40	61.41	153.99	13.14	118.40	91.49	843.23	52.91	185.29	14.69	534.04	91.72
427	11.50	-0.55	7.03	141.40	61.42	153.99	13.15	118.40	91.49	843.23	52.91	185.29	14.66	534.04	91.72
428	11.45	-1.65	7.03	140.48	60.83	155.14	13.70	118.62	91.92	837.45	50.96	183.74	24.50	530.37	94.01
429	12.55	1.65	7.03	146.56	68.45	167.26	16.21	118.43	81.61	882.94	76.82	284.73	25.10	619.62	84.15
430	12.60	0.55	7.03	147.47	68.96	166.22	15.91	118.37	80.88	888.47	80.14	288.18	17.06	623.54	81.16
431	12.60	-0.55	7.03	147.47	68.96	166.23	15.92	118.37	80.88	888.47	80.14	288.18	17.04	623.54	81.16
432	12.55	-1.65	7.03	146.56	68.46	167.26	16.22	118.44	81.62	882.94	76.82	284.74	25.06	619.63	84.16
433	13.64	1.65	7.03	147.32	76.53	184.09	19.41	124.03	68.22	899.17	117.19	440.66	27.59	721.41	71.65
434	13.69	0.55	7.03	148.23	76.83	183.22	19.22	124.24	67.10	904.41	120.78	446.23	20.22	725.68	67.48
435	13.69	-0.55	7.03	148.23	76.84	183.22	19.23	124.24	67.10	904.42	120.78	446.23	20.20	725.69	67.48
436	13.64	-1.65	7.03	147.31	76.54	184.10	19.42	124.04	68.23	899.18	117.19	440.68	27.55	721.42	71.66
437	14.73	1.65	7.03	136.44	84.36	209.53	22.48	133.81	50.32	848.81	164.96	677.77	32.75	822.25	56.71
438	14.79	0.55	7.03	137.30	84.33	208.97	22.04	134.39	48.79	853.43	168.36	686.26	23.30	827.12	49.52
439	14.79	-0.55	7.03	137.30	84.33	208.97	22.04	134.39	48.79	853.43	168.36	686.27	23.28	827.12	49.52
440	14.73	-1.65	7.03	136.44	84.37	209.54	22.49	133.81	50.33	848.82	164.95	677.80	32.71	822.26	56.70
441	15.82	1.65	7.03	100.43	90.51	249.49	22.54	136.61	27.07	643.27	209.98	1039.54	41.38	853.53	47.39
442	15.88	0.55	7.03	100.85	89.90	249.55	21.01	137.41	25.30	645.67	212.82	1053.22	23.82	858.60	28.29
443	15.88	-0.55	7.03	100.85	89.90	249.56	21.02	137.41	25.31	645.68	212.82	1053.23	23.79	858.61	28.27
444	15.82	-1.65	7.03	100.43	90.52	249.50	22.55	136.61	27.07	643.28	209.97	1039.58	41.34	853.54	47.34
445	16.91	1.65	7.03	11.43	84.22	253.05	12.77	78.27	5.81	43.04	164.11	1141.93	54.82	423.20	84.06
446	16.98	0.55	7.03	11.08	82.66	253.12	7.43	77.96	3.18	41.67	163.05	1161.62	19.28	424.70	28.35
447	16.98	-0.55	7.03	11.07	82.66	253.12	7.44	77.96	3.15	41.67	163.05	1161.63	19.25	424.71	28.27
448	16.91	-1.65	7.03	11.42	84.23	253.07	12.79	78.27	5.77	43.03	164.10	1141.97	54.79	423.20	83.98
449	0.56	1.65	5.34	65.97	27.56	107.05	4.88	205.67	187.32	345.41	56.79	186.09	13.62	97.51	187.36
450	0.56	0.55	5.34	66.18	27.53	104.70	3.31	205.77	188.02	347.72	56.90	184.52	5.40	97.82	188.03
451	0.56	-0.55	5.34	66.18	27.53	104.70	3.30	205.77	188.02	347.72	56.89	184.52	5.39	97.82	188.03
452	0.56	-1.65	5.34	65.97	27.56	107.05	4.88	205.67	187.33	345.40	56.79	186.10	13.61	97.51	187.36
453	1.68	1.65	5.34	72.41	27.91	108.35	4.49	203.16	180.13	384.04	60.23	186.41	15.36	114.47	180.19
454	1.68	0.55	5.34	72.79	27.89	105.98	2.23	203.26	180.75	386.86	60.33	184.81	5.41	114.98	180.76
455	1.68	-0.55	5.34	72.79	27.89	105.97	2.23	203.26	180.75	386.85	60.33	184.81	5.40	114.98	180.76
456	1.68	-1.65	5.34	72.41	27.91	108.34	4.49	203.16	180.13	384.03	60.22	186.42	15.35	114.47	180.19
457	2.79	1.65	5.34	79.76	28.88	112.10	4.54	199.11	172.97	428.38	63.05	184.55	17.33	133.22	173.06
458	2.80	0.55	5.34	80.28	28.88	109.80	1.74	199.19	173.52	431.77	63.10	182.88	5.87	133.92	173.53
459	2.80	-0.55	5.34	80.28	28.88	109.80	1.75	199.19	173.52	431.77	63.09	182.89	5.85	133.92	173.53
460	2.79	-1.65	5.34	79.76	28.87	112.09	4.55	199.11	172.98	428.37	63.05	184.56	17.31	133.22	173.07
461	3.91	1.65	5.34	88.11	30.51	117.82	4.79	193.52	165.95	479.31	64.87	180.24	19.35	154.21	166.08
462	3.93	0.55	5.34	88.77	30.56	115.65	1.66	193.57	166.42	483.32	64.79	178.49	6.49	155.11	166.44
463	3.93	-0.55	5.34	88.77	30.56	115.65	1.67	193.57	166.43	483.31	64.78	178.49	6.46	155.11	166.44
464	3.91	-1.65	5.34	88.12	30.51	117.81	4.80	193.52	165.96	479.31	64.86				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
491	11.78	-0.55	5.34	195.43	68.52	172.40	11.67	122.82	116.24	1129.14	83.24	127.73	12.41	446.81	116.40
492	11.73	-1.65	5.34	194.44	67.93	173.57	11.86	123.20	116.59	1123.85	79.18	127.97	18.25	444.89	118.00
493	12.85	1.65	5.34	221.71	78.59	182.50	17.81	117.25	105.97	1282.96	129.99	196.12	19.45	536.60	107.79
494	12.90	0.55	5.34	222.74	79.03	181.40	18.50	116.91	105.30	1287.63	134.81	198.61	18.61	538.33	105.50
495	12.90	-0.55	5.34	222.74	79.03	181.40	18.50	116.91	105.31	1287.63	134.81	198.62	18.60	538.33	105.51
496	12.85	-1.65	5.34	221.71	78.60	182.51	17.82	117.25	105.98	1282.96	129.99	196.12	19.41	536.61	107.80
497	13.97	1.65	5.34	254.41	90.88	194.26	27.28	120.87	91.67	1474.93	201.35	323.96	26.90	664.83	94.06
498	14.02	0.55	5.34	255.55	91.08	193.22	28.63	120.68	90.56	1478.40	206.71	328.81	28.57	665.71	90.81
499	14.02	-0.55	5.34	255.55	91.08	193.22	28.63	120.68	90.57	1478.40	206.70	328.81	28.57	665.72	90.81
500	13.97	-1.65	5.34	254.41	90.88	194.27	27.28	120.88	91.69	1474.93	201.35	323.97	26.89	664.85	94.07
501	15.09	1.65	5.34	293.40	104.92	213.99	41.16	142.24	70.32	1712.49	296.26	547.27	40.84	860.01	73.64
502	15.14	0.55	5.34	294.90	104.88	212.99	42.88	142.31	68.65	1713.79	303.59	553.14	42.92	858.45	68.94
503	15.14	-0.55	5.34	294.90	104.89	213.00	42.88	142.32	68.66	1713.80	303.59	553.14	42.92	858.45	68.94
504	15.09	-1.65	5.34	293.40	104.93	214.00	41.16	142.24	70.33	1712.50	296.26	547.30	40.83	860.02	73.64
505	16.20	1.65	5.34	337.08	121.67	256.19	59.89	191.55	33.73	2007.02	427.13	976.65	60.19	1189.44	41.29
506	16.26	0.55	5.34	339.32	121.21	255.47	61.29	192.42	31.63	2006.31	440.17	980.80	61.57	1184.12	32.08
507	16.26	-0.55	5.34	339.32	121.21	255.47	61.30	192.42	31.63	2006.31	440.16	980.82	61.58	1184.12	32.07
508	16.20	-1.65	5.34	337.08	121.67	256.21	59.89	191.55	33.74	2007.04	427.12	976.69	60.19	1189.45	41.25
509	17.32	1.65	5.34	361.98	151.53	438.28	79.45	281.25	42.07	2243.10	684.28	2445.37	78.93	1785.44	59.98
510	17.39	0.55	5.34	363.67	150.24	440.15	78.51	282.93	42.29	2236.35	711.48	2446.71	78.56	1773.17	43.01
511	17.39	-0.55	5.34	363.66	150.24	440.16	78.51	282.94	42.29	2236.36	711.48	2446.73	78.56	1773.18	42.98
512	17.32	-1.65	5.34	361.98	151.53	438.30	79.46	281.25	42.06	2243.12	684.27	2445.44	78.92	1785.47	59.87
513	-14.44	1.65	17.16	9.69	54.45	13.49	26.32	6.81	40.80	13.08	32.87	15.41	25.85	7.84	41.00
514	-14.52	0.55	17.16	7.09	54.80	13.48	25.24	4.89	40.90	11.36	33.31	15.45	25.19	5.96	40.93
515	-14.52	-0.55	17.16	7.09	54.80	13.48	25.24	4.89	40.90	11.36	33.30	15.45	25.18	5.96	40.93
516	-14.44	-1.65	17.16	9.69	54.43	13.49	26.30	6.81	40.79	13.07	32.87	15.41	25.84	7.84	41.00
517	-13.51	1.65	17.16	23.46	54.41	13.23	47.03	7.52	35.08	38.26	38.42	14.83	46.86	13.13	35.15
518	-13.59	0.55	17.16	19.42	55.02	13.22	46.85	5.71	35.27	35.77	39.50	14.86	46.83	12.00	35.28
519	-13.59	-0.55	17.16	19.42	55.01	13.22	46.84	5.71	35.27	35.77	39.50	14.86	46.82	12.00	35.28
520	-13.51	-1.65	17.16	23.46	54.41	13.23	47.02	7.51	35.07	38.26	38.42	14.83	46.84	13.13	35.15
521	-12.58	1.65	17.16	37.14	54.03	12.97	67.85	8.44	33.57	68.38	41.95	13.90	67.78	18.45	33.59
522	-12.65	0.55	17.16	31.05	54.72	12.96	68.37	6.51	33.82	65.11	43.07	13.90	68.36	17.61	33.82
523	-12.65	-0.55	17.16	31.06	54.72	12.96	68.37	6.51	33.82	65.11	43.07	13.90	68.36	17.61	33.82
524	-12.58	-1.65	17.16	37.15	54.02	12.97	67.84	8.44	33.57	68.38	41.96	13.90	67.77	18.45	33.59
525	-11.65	1.65	17.16	51.00	53.13	12.77	90.92	9.94	34.65	103.25	43.12	13.53	90.90	23.70	34.64
526	-11.71	0.55	17.16	41.95	53.68	12.75	92.17	7.74	35.00	99.06	43.99	13.52	92.17	22.92	35.00
527	-11.71	-0.55	17.16	41.95	53.68	12.75	92.16	7.74	35.00	99.06	43.99	13.52	92.16	22.92	35.00
528	-11.65	-1.65	17.16	51.01	53.14	12.77	90.90	9.94	34.65	103.26	43.13	13.53	90.88	23.70	34.63
529	-10.72	1.65	17.16	65.86	51.72	12.72	118.72	12.09	38.47	143.45	41.94	13.92	118.71	29.99	38.44
530	-10.77	0.55	17.16	52.42	51.79	12.69	120.75	9.24	38.97	137.96	42.11	13.90	120.75	29.10	38.97
531	-10.77	-0.55	17.16	52.43	51.79	12.69	120.75	9.24	38.97	137.96	42.12	13.90	120.75	29.10	38.97
532	-10.72	-1.65	17.16	65.89	51.73	12.72	118.70	12.10	38.46	143.46	41.96	13.92	118.69	29.99	38.44
533	-9.78	1.65	17.16	82.98	49.86	12.94	154.74	15.18	46.65	190.37	38.33	15.77	154.75	39.39	46.62
534	-9.84	0.55	17.16	63.08	48.99	12.84	157.51	10.88	47.32	182.95	37.02	15.74	157.51	38.17	47.32
535	-9.84	-0.55	17.16	63.10	49.00	12.84	157.50	10.88	47.32	182.95	37.03	15.74	157.51	38.18	47.32
536	-9.78	-1.65	17.16	83.02	49.88	12.94	154.72	15.19	46.65	190.39	38.36	15.77	154.73	39.39	46.62
537	-8.85	1.65	17.16	103.94	47.64	13.60	204.98	20.06	64.24	246.41	32.48	21.14	204.98	55.63	64.21
538	-8.90	0.55	17.16	74.79	45.17	13.31	208.20	12.78	64.99	236.20	28.30	21.10	208.20	53.84	64.98
539	-8.90	-0.55	17.16	74.82	45.18	13.31	208.19	12.79	64.99	236.21	28.31	21.10	208.19	53.84	64.98
540	-8.85	-1.65	17.16	104.00	47.67	13.61	204.97	20.07	64.23	246.43	32.52	21.14	204.97	55.64	64.21
541	-7.92	1.65	17.16	130.48	45.21	14.36	282.28	28.42	109.63	314.69	28.83	32.74	282.30	85.15	109.60
542	-7.96	0.55	17.16	88.49	40.02	13.75	285.47	15.58	110.11	300.70	19.83	32.94	285.47	82.61	110.11
543	-7.96	-0.55	17.16	88.53	40.03	13.75	285.47	15.60	110.11	300.72	19.84	32.94	285.47	82.61	110.11
544	-7.92	-1.65	17.16	130.57	45.25	14.36	282.28	28.45	109.63	314.73	28.88	32.75	282.29	85.16	109.60
545	-6.99	1.65	17.16	164.48	45.59	11.27	424.98	41.74	277.32	397.81	48.07	70.65	425.11	139.56	277.41
546	-7.03	0.55	17.16	104.66	32.71	9.24	428.07	19.54	277.58	378.61	38.90	72.83	428.09	136.71	277.58
547	-7.03	-0.55	17.16	104.72	32.72	9.23	428.07	19.58	277.58	378.63	38.90	72.83	428.09	136.71	277.59
548	-6.99	-1.65	17.16	164.59	45.61	11.25	425.00	41.80	277.34	397.87	48.08	70.65	425.12	139.58	277.42
549	-6.06	1.65	17.16	38.74	13.10	31.04	81.44	78.34	390.44	100.65	9.86	65.53	81.56	161.36	390.78
550	-6.09	0.55	17.16	26.10	10.80	16.15	80.01	35.88	392.68	95.45	7.64	64.82	80.02	146.64	392.72
551	-6.09	-0.55	17.16	26.12	10.80	16.11	80.01	35.91	392.69	95.45	7.65	64.81	80.02	146.65	392.72
552	-6.06	-1.65	17.16	38.77	13.12	30.98	81.44	78.39	390.47	100.66	9.88	65.51	81.56	161.38	390.80
553	-5.13	1.65	17.16	20.81	30.50	21.32	59.69	70.23	237.72	20.90	32.21	28.46	59.68	96.69	238.27
554	-5.15	0.55	17.16	10.68	11.09	13.73	79.98	32.20	233.18	10.54	17.97	24.96	79.98	70.23	233.23
555	-5.15	-0.55	17.16	10.68	11.07	13.72	79.99	32.21	233.18	10.54	17.95	24.96	79.98	70.23	233.24
556	-5.13	-1.65	17.16	20.81	30.47	21.29	59.70	70.25	237.74	20.89	32.18	28.44	59.68	96.70	238.29
557	-4.19	1.65	17.16	12.44	64.25	7.59	1.60	44.10	114.83	41.86	65.25	11.84	4.04	61.47	115.72
558	-4.22	0.55	17.16	9.69	20.91	7.65	13.38	20.02	99.64	37.46	28.35	14.92	13.39	45.01	99.71
559	-4.22	-0.55	17.16	9.68	20.88	7.65	13.39	20.02	99.64	37.46	28.33	14.91	13.39	45.02	99.72
560	-4.19	-1.65	17.16	12.43	64.23	7.59	1.60	44.11	114.85	41.86	65.23	11.84	4.04	61.48	115.73
561	-3.26	1.65	17.16	14.06	70.08	8.52	17.71	28.53	80.59	67.02	70.73	10.07	18.07	34.82	81.67
562	-3.28	0.55	17.16	14.67	23.75	7.54	8.48	15.10	66.66	66.95	29.91	12.06	8.48	23.64	66.77
563	-3.28	-0.55	17.16	14.											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
589	-11.98	1.65	15.47	36.20	48.22	39.02	78.29	25.89	93.49	93.77	32.85	42.91	78.25	52.89	93.48
590	-12.04	0.55	15.47	28.36	48.55	38.96	79.43	21.65	94.22	91.52	33.35	42.98	79.43	51.21	94.22
591	-12.04	-0.55	15.47	28.37	48.55	38.96	79.43	21.65	94.22	91.52	33.35	42.98	79.42	51.21	94.22
592	-11.98	-1.65	15.47	36.22	48.22	39.02	78.28	25.89	93.48	93.78	32.86	42.91	78.24	52.89	93.47
593	-11.02	1.65	15.47	44.47	46.39	38.38	96.68	30.03	99.08	119.51	34.68	42.98	96.67	61.73	99.04
594	-11.08	0.55	15.47	34.08	46.31	38.27	98.42	25.32	100.07	116.77	34.61	43.02	98.42	60.09	100.07
595	-11.08	-0.55	15.47	34.09	46.31	38.27	98.42	25.32	100.07	116.77	34.62	43.02	98.41	60.09	100.06
596	-11.02	-1.65	15.47	44.49	46.40	38.38	96.67	30.04	99.07	119.52	34.70	42.97	96.65	61.73	99.03
597	-10.06	1.65	15.47	52.11	44.40	38.10	116.85	34.56	110.90	143.06	35.02	46.11	116.85	70.96	110.85
598	-10.11	0.55	15.47	38.74	43.61	37.86	119.14	28.90	112.20	139.66	33.93	46.15	119.14	69.15	112.19
599	-10.11	-0.55	15.47	38.75	43.62	37.86	119.13	28.90	112.20	139.67	33.94	46.15	119.13	69.15	112.19
600	-10.06	-1.65	15.47	52.14	44.42	38.09	116.84	34.57	110.89	143.07	35.04	46.11	116.83	70.96	110.84
601	-9.10	1.65	15.47	57.83	42.10	38.22	137.06	39.19	131.77	160.12	33.76	54.38	137.06	79.47	131.73
602	-9.15	0.55	15.47	41.55	40.31	37.67	139.69	32.21	133.34	155.95	31.19	54.50	139.69	77.32	133.34
603	-9.15	-0.55	15.47	41.57	40.32	37.67	139.69	32.22	133.34	155.96	31.20	54.50	139.69	77.32	133.34
604	-9.10	-1.65	15.47	57.87	42.12	38.23	137.04	39.20	131.76	160.14	33.79	54.38	137.05	79.48	131.72
605	-8.15	1.65	15.47	58.86	38.90	37.75	148.90	43.29	164.41	162.12	30.96	69.58	148.93	81.47	164.39
606	-8.19	0.55	15.47	41.02	36.16	36.82	151.51	35.45	166.09	157.18	26.82	70.27	151.51	78.81	166.09
607	-8.19	-0.55	15.47	41.04	36.17	36.82	151.50	35.45	166.09	157.18	26.83	70.27	151.51	78.81	166.09
608	-8.15	-1.65	15.47	58.90	38.93	37.75	148.89	43.31	164.41	162.14	31.00	69.58	148.92	81.48	164.39
609	-7.19	1.65	15.47	50.85	32.59	32.79	114.50	47.10	184.10	132.97	28.78	69.49	114.57	56.34	184.16
610	-7.22	0.55	15.47	35.50	30.54	32.21	116.26	40.42	185.51	127.31	25.66	70.97	116.26	51.35	185.52
611	-7.22	-0.55	15.47	35.51	30.55	32.21	116.25	40.42	185.51	127.31	25.67	70.98	116.26	51.35	185.52
612	-7.19	-1.65	15.47	50.87	32.62	32.79	114.49	47.11	184.10	132.98	28.81	69.49	114.56	56.35	184.16
613	-6.23	1.65	15.47	64.20	27.50	27.16	119.06	51.31	190.09	164.09	22.93	44.54	119.20	35.51	190.33
614	-6.26	0.55	15.47	44.81	26.32	26.21	118.81	43.73	190.02	155.91	20.90	44.76	118.83	22.26	190.05
615	-6.26	-0.55	15.47	44.82	26.33	26.21	118.81	43.73	190.02	155.91	20.91	44.76	118.83	22.26	190.05
616	-6.23	-1.65	15.47	64.23	27.52	27.15	119.06	51.32	190.10	164.11	22.95	44.53	119.20	35.52	190.33
617	-5.27	1.65	15.47	52.48	20.47	25.47	75.85	58.84	197.26	154.88	20.88	18.80	75.99	49.12	197.77
618	-5.30	0.55	15.47	39.29	20.26	23.67	75.87	42.84	195.71	150.43	20.16	15.74	75.89	26.76	195.76
619	-5.30	-0.55	15.47	39.30	20.26	23.66	75.87	42.85	195.71	150.43	20.16	15.73	75.89	26.76	195.77
620	-5.27	-1.65	15.47	52.51	20.48	25.46	75.84	58.85	197.26	154.89	20.88	18.79	75.98	49.13	197.78
621	-4.31	1.65	15.47	33.73	16.77	21.88	35.09	60.89	171.70	134.31	22.54	20.47	35.12	50.96	172.51
622	-4.33	0.55	15.47	28.97	16.11	22.03	33.35	42.84	169.85	133.82	21.77	23.10	33.35	26.34	169.94
623	-4.33	-0.55	15.47	28.98	16.10	22.03	33.35	42.85	169.85	133.82	21.77	23.10	33.35	26.34	169.94
624	-4.31	-1.65	15.47	33.75	16.76	21.88	35.09	60.90	171.71	134.32	22.54	20.47	35.12	50.97	172.52
625	-3.35	1.65	15.47	26.62	16.04	21.24	25.57	56.64	135.07	125.76	25.50	24.76	25.58	41.57	136.09
626	-3.37	0.55	15.47	25.01	13.96	21.87	23.40	42.50	133.64	126.69	24.22	28.38	23.40	18.57	133.76
627	-3.37	-0.55	15.47	25.01	13.95	21.87	23.40	42.51	133.64	126.69	24.21	28.38	23.40	18.57	133.76
628	-3.35	-1.65	15.47	26.63	16.02	21.24	25.57	56.65	135.09	125.77	25.49	24.76	25.57	41.57	136.10
629	-2.40	1.65	15.47	24.70	14.60	20.50	21.59	52.95	105.91	124.62	27.30	24.19	21.73	33.99	107.07
630	-2.41	0.55	15.47	24.15	12.05	21.84	18.76	42.63	105.73	126.30	26.10	27.58	18.78	14.09	105.87
631	-2.41	-0.55	15.47	24.15	12.04	21.84	18.76	42.63	105.74	126.30	26.09	27.58	18.78	14.09	105.88
632	-2.40	-1.65	15.47	24.71	14.58	20.50	21.59	52.95	105.92	124.62	27.29	24.19	21.73	34.00	107.08
633	-1.44	1.65	15.47	24.45	12.39	19.25	19.34	50.95	80.71	126.31	28.66	22.62	19.71	37.55	82.16
634	-1.44	0.55	15.47	24.44	10.41	21.63	15.68	42.96	81.43	128.60	27.98	26.20	15.74	26.16	81.61
635	-1.44	-0.55	15.47	24.45	10.40	21.63	15.68	42.96	81.43	128.60	27.97	26.20	15.73	26.16	81.61
636	-1.44	-1.65	15.47	24.45	12.37	19.26	19.34	50.95	80.72	126.31	28.65	22.62	19.71	37.55	82.17
637	-0.48	1.65	15.47	24.66	10.50	18.78	18.33	49.99	57.36	128.37	30.11	21.58	18.99	50.18	59.56
638	-0.48	0.55	15.47	25.02	9.37	21.41	14.11	43.13	58.36	130.96	29.82	25.13	14.22	43.55	58.62
639	-0.48	-0.55	15.47	25.02	9.36	21.41	14.11	43.13	58.36	130.96	29.82	25.13	14.22	43.55	58.63
640	-0.48	-1.65	15.47	24.66	10.49	18.78	18.32	50.00	57.37	128.37	30.10	21.58	18.99	50.18	59.57
641	-15.27	1.65	13.78	11.85	55.02	71.38	41.79	26.66	151.56	20.42	17.32	99.54	41.66	39.00	151.76
642	-15.34	0.55	13.78	7.61	55.49	71.29	41.59	21.15	152.16	18.06	17.49	100.12	41.58	35.06	152.19
643	-15.34	-0.55	13.78	7.61	55.49	71.29	41.59	21.15	152.16	18.05	17.49	100.12	41.58	35.05	152.18
644	-15.27	-1.65	13.78	11.85	55.01	71.38	41.78	26.66	151.55	20.42	17.32	99.54	41.65	38.99	151.75
645	-14.28	1.65	13.78	17.48	52.45	69.70	47.55	30.82	143.11	41.77	20.23	87.65	47.44	49.55	143.23
646	-14.35	0.55	13.78	13.16	52.85	69.65	47.72	26.03	143.88	40.14	20.56	88.09	47.71	46.61	143.89
647	-14.35	-0.55	13.78	13.16	52.85	69.64	47.72	26.03	143.88	40.14	20.56	88.09	47.71	46.60	143.89
648	-14.28	-1.65	13.78	17.49	52.44	69.69	47.54	30.82	143.10	41.77	20.23	87.64	47.43	49.55	143.22
649	-13.30	1.65	13.78	22.96	49.92	68.24	55.35	35.54	138.25	62.94	23.76	79.15	55.27	58.07	138.31
650	-13.36	0.55	13.78	18.08	50.28	68.19	55.85	31.28	139.01	61.56	24.11	79.48	55.84	55.74	139.02
651	-13.36	-0.55	13.78	18.08	50.28	68.19	55.85	31.28	139.01	61.56	24.11	79.48	55.84	55.73	139.02
652	-13.30	-1.65	13.78	22.96	49.92	68.23	55.34	35.54	138.24	62.94	23.77	79.14	55.26	58.07	138.29
653	-12.31	1.65	13.78	27.89	47.47	66.51	64.33	40.66	137.03	82.91	27.23	73.27	64.27	64.83	137.04
654	-12.37	0.55	13.78	22.14	47.71	66.45	65.19	36.67	137.92	81.64	27.48	73.52	65.18	62.86	137.92
655	-12.37	-0.55	13.78	22.14	47.71	66.45	65.18	36.67	137.92	81.64	27.49	73.52	65.18	62.86	137.92
656	-12.31	-1.65	13.78	27.90	47.47	66.51	64.31	40.66	137.02	82.91	27.24	73.26	64.25	64.83	137.02
657	-11.33	1.65	13.78	32.17	45.05	64.58	73.59	46.02	139.54	100.68	30.23	69.79	73.55	69.61	139.51
658	-11.38	0.55	13.78	25.36	45.07	64.49	74.83	42.13	140.65	99.40	30.23	70.02	74.83	67.83	140.65
659	-11.38	-0.55	13.78	25.36	45.08	64.48	74.83	42.13	140.65	99.40	30.23	70.02	74.82	67.83	140.64
660	-11.33	-1.65	13.78	32.18	45.06	64.58	73.58	46.02	139.52	100.68	30.24	69.79	73.54	69.61	139.50
661	-10.34	1.65	13.78	35.54	42.60	62.54	81.91	51.46	145.70	114.9					



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
687	-4.45	-0.55	13.78	34.90	22.49	40.53	44.56	71.01	161.35	161.93	34.48	38.56	44.55	16.12	161.39
688	-4.43	-1.65	13.78	40.07	23.42	40.87	43.21	76.11	158.62	162.13	35.98	38.87	43.20	31.00	158.93
689	-3.45	1.65	13.78	36.44	20.42	37.77	29.84	76.77	142.55	165.27	37.69	42.65	29.94	35.92	142.98
690	-3.46	0.55	13.78	33.40	19.60	37.68	30.62	71.27	145.37	165.82	36.32	42.90	30.62	23.00	145.43
691	-3.46	-0.55	13.78	33.40	19.60	37.68	30.61	71.27	145.37	165.82	36.32	42.90	30.62	23.00	145.43
692	-3.45	-1.65	13.78	36.46	20.43	37.77	29.84	76.77	142.55	165.27	37.70	42.65	29.94	35.92	142.98
693	-2.46	1.65	13.78	34.26	18.20	35.47	21.94	76.66	122.71	167.78	39.97	45.33	22.29	43.19	123.24
694	-2.47	0.55	13.78	32.59	17.43	35.69	22.25	71.49	125.22	168.65	38.77	45.75	22.29	33.80	125.28
695	-2.47	-0.55	13.78	32.60	17.44	35.69	22.25	71.49	125.22	168.65	38.77	45.75	22.28	33.80	125.29
696	-2.46	-1.65	13.78	34.27	18.21	35.47	21.93	76.66	122.71	167.78	39.97	45.33	22.28	43.19	123.24
697	-1.48	1.65	13.78	33.61	16.78	33.91	17.56	76.31	102.44	171.46	42.55	46.01	18.25	55.33	103.12
698	-1.48	0.55	13.78	32.75	15.95	34.25	17.48	71.62	104.41	172.48	41.41	46.26	17.56	49.17	104.50
699	-1.48	-0.55	13.78	32.75	15.95	34.25	17.48	71.62	104.41	172.48	41.41	46.26	17.56	49.17	104.50
700	-1.48	-1.65	13.78	33.62	16.78	33.91	17.55	76.31	102.44	171.46	42.55	46.01	18.25	55.33	103.12
701	-0.49	1.65	13.78	33.98	16.10	33.20	15.54	75.88	82.48	176.32	45.28	45.53	16.57	71.49	83.44
702	-0.49	0.55	13.78	33.61	15.16	33.38	15.21	71.53	83.69	177.48	44.08	45.54	15.33	67.60	83.81
703	-0.49	-0.55	13.78	33.62	15.16	33.38	15.20	71.53	83.70	177.48	44.08	45.54	15.33	67.60	83.82
704	-0.49	-1.65	13.78	33.99	16.10	33.20	15.53	75.88	82.49	176.32	45.27	45.53	16.56	71.49	83.44
705	-15.68	1.65	12.09	13.11	57.63	103.82	47.12	35.65	183.76	23.29	18.71	148.07	47.05	50.62	183.90
706	-15.75	0.55	12.09	8.80	57.99	103.75	47.15	30.39	184.54	20.86	18.80	149.15	47.14	46.85	184.56
707	-15.75	-0.55	12.09	8.80	57.99	103.74	47.15	30.39	184.54	20.86	18.80	149.14	47.14	46.85	184.55
708	-15.68	-1.65	12.09	13.11	57.62	103.80	47.11	35.64	183.75	23.29	18.71	148.06	47.05	50.61	183.89
709	-14.67	1.65	12.09	16.89	54.55	101.11	48.42	42.24	176.60	42.97	19.56	128.45	48.33	59.40	176.70
710	-14.73	0.55	12.09	12.78	54.83	101.07	48.68	37.89	177.55	41.41	19.65	129.25	48.67	56.46	177.56
711	-14.73	-0.55	12.09	12.78	54.83	101.06	48.68	37.89	177.54	41.41	19.66	129.25	48.67	56.46	177.55
712	-14.67	-1.65	12.09	16.89	54.55	101.10	48.41	42.24	176.59	42.96	19.57	128.44	48.33	59.39	176.68
713	-13.65	1.65	12.09	20.77	51.53	98.41	51.13	49.27	171.75	61.80	21.76	113.34	51.04	66.12	171.80
714	-13.72	0.55	12.09	16.69	51.78	98.36	51.56	45.58	172.64	60.66	21.83	113.94	51.55	63.76	172.64
715	-13.72	-0.55	12.09	16.69	51.78	98.36	51.55	45.58	172.63	60.66	21.84	113.94	51.54	63.76	172.64
716	-13.65	-1.65	12.09	20.78	51.53	98.40	51.12	49.26	171.74	61.80	21.76	113.33	51.04	66.11	171.79
717	-12.64	1.65	12.09	24.25	48.63	95.36	54.60	56.25	169.07	79.21	24.63	101.84	54.52	70.25	169.08
718	-12.70	0.55	12.09	20.00	48.80	95.30	55.23	53.00	170.02	78.34	24.67	102.28	55.22	68.27	170.02
719	-12.70	-0.55	12.09	20.00	48.80	95.29	55.23	53.00	170.01	78.34	24.67	102.27	55.22	68.26	170.01
720	-12.64	-1.65	12.09	24.26	48.63	95.35	54.59	56.24	169.06	79.21	24.64	101.83	54.51	70.24	169.07
721	-11.63	1.65	12.09	27.20	45.82	91.92	58.11	63.11	168.54	94.80	27.69	93.12	58.04	71.42	168.53
722	-11.69	0.55	12.09	22.69	45.88	91.83	58.95	60.18	169.62	94.09	27.66	93.45	58.94	69.64	169.62
723	-11.69	-0.55	12.09	22.69	45.88	91.83	58.94	60.17	169.62	94.09	27.66	93.45	58.93	69.64	169.62
724	-11.63	-1.65	12.09	27.21	45.82	91.91	58.10	63.10	168.53	94.79	27.70	93.12	58.03	71.41	168.52
725	-10.62	1.65	12.09	29.64	43.07	88.15	60.79	69.83	169.84	108.32	30.63	86.31	60.73	69.09	169.82
726	-10.67	0.55	12.09	24.87	42.99	88.02	61.81	67.15	171.09	107.69	30.48	86.57	61.81	67.32	171.09
727	-10.67	-0.55	12.09	24.88	42.99	88.02	61.81	67.15	171.09	107.69	30.48	86.56	61.80	67.32	171.08
728	-10.62	-1.65	12.09	29.65	43.08	88.14	60.78	69.82	169.82	108.32	30.64	86.30	60.72	69.08	169.80
729	-9.61	1.65	12.09	31.73	40.34	84.08	61.80	76.35	172.20	120.09	33.29	80.31	61.75	62.77	172.19
730	-9.65	0.55	12.09	26.78	40.11	83.91	62.96	73.90	173.63	119.47	33.01	80.49	62.95	60.75	173.64
731	-9.65	-0.55	12.09	26.79	40.11	83.91	62.95	73.90	173.63	119.47	33.01	80.49	62.95	60.75	173.63
732	-9.61	-1.65	12.09	31.74	40.35	84.08	61.79	76.35	172.19	120.09	33.30	80.30	61.74	62.77	172.17
733	-8.60	1.65	12.09	33.72	37.62	79.73	60.79	82.53	174.81	131.43	35.51	74.43	60.74	53.15	174.80
734	-8.64	0.55	12.09	28.72	37.25	79.50	62.02	80.26	176.39	130.81	35.11	74.48	62.01	50.47	176.39
735	-8.64	-0.55	12.09	28.72	37.25	79.50	62.01	80.26	176.39	130.81	35.11	74.48	62.01	50.47	176.39
736	-8.60	-1.65	12.09	33.73	37.63	79.72	60.78	82.52	174.79	131.42	35.52	74.43	60.73	53.15	174.79
737	-7.59	1.65	12.09	35.20	34.81	75.06	56.24	88.18	176.04	141.50	37.54	68.36	56.19	40.95	176.05
738	-7.62	0.55	12.09	30.49	34.37	74.76	57.47	86.08	177.74	140.99	37.07	68.18	57.46	36.95	177.74
739	-7.62	-0.55	12.09	30.50	34.37	74.76	57.46	86.08	177.74	140.99	37.08	68.18	57.46	36.95	177.74
740	-7.59	-1.65	12.09	35.22	34.82	75.06	56.23	88.18	176.02	141.49	37.55	68.36	56.19	40.94	176.04
741	-6.57	1.65	12.09	37.12	32.04	70.16	50.70	92.99	174.77	153.89	39.23	63.07	50.66	29.59	174.82
742	-6.60	0.55	12.09	32.72	31.59	69.78	51.82	90.97	176.52	153.53	38.75	62.55	51.82	23.07	176.52
743	-6.60	-0.55	12.09	32.72	31.59	69.78	51.82	90.97	176.51	153.53	38.75	62.55	51.81	23.07	176.52
744	-6.57	-1.65	12.09	37.13	32.06	70.16	50.69	92.99	174.76	153.88	39.24	63.07	50.65	29.59	174.80
745	-5.56	1.65	12.09	38.23	29.23	65.25	42.30	96.75	170.52	165.45	41.07	60.49	42.28	24.90	170.61
746	-5.59	0.55	12.09	34.52	28.84	64.74	43.32	94.68	172.22	165.41	40.65	59.61	43.32	15.62	172.23
747	-5.59	-0.55	12.09	34.53	28.85	64.74	43.32	94.68	172.22	165.41	40.65	59.61	43.31	15.61	172.23
748	-5.56	-1.65	12.09	38.24	29.24	65.25	42.30	96.75	170.51	165.44	41.08	60.49	42.28	24.89	170.60
749	-4.55	1.65	12.09	39.17	26.62	60.57	34.08	99.43	162.29	177.76	43.05	61.61	34.12	29.72	162.43
750	-4.57	0.55	12.09	36.21	26.32	59.90	34.92	97.30	163.87	178.06	42.73	60.50	34.92	22.07	163.89
751	-4.57	-0.55	12.09	36.22	26.33	59.90	34.92	97.30	163.87	178.06	42.73	60.50	34.92	22.07	163.89
752	-4.55	-1.65	12.09	39.19	26.63	60.57	34.08	99.43	162.28	177.76	43.06	61.61	34.12	29.71	162.42
753	-3.54	1.65	12.09	39.80	24.30	56.33	26.69	101.07	151.09	189.37	45.43	65.29	26.88	40.26	151.29
754	-3.56	0.55	12.09	37.64	24.07	55.51	27.40	98.82	152.52	189.99	45.20	64.08	27.42	34.74	152.55
755	-3.56	-0.55	12.09	37.64	24.07	55.51	27.39	98.82	152.52	189.99	45.20	64.08	27.42	34.74	152.55
756	-3.54	-1.65	12.09	39.80	24.31	56.33	26.69	101.07	151.08	189.37	45.43	65.29	26.88	40.26	151.29
757	-2.53	1.65	12.09	40.23	22.41	52.79	20.48	101.91	137.56	199.97	48.16	69.06	20.98	53.41	137.84
758	-2.54	0.55	12.09	38.84	22.21	51.85	20.99	99.59	138.82	200.87	48.01	67.79	21.05	49.38	138.85
759	-2.54	-0.55	12.09	38.85	22.21	51.85	20.99	99.59	138.82	200.8					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
785	-11.94	1.65	10.41	26.08	47.36	120.80	49.33	80.61	191.57	96.52	26.45	115.10	49.23	73.83	191.57
786	-11.99	0.55	10.41	22.89	47.41	120.68	49.91	78.32	192.61	96.04	26.32	115.42	49.90	72.15	192.61
787	-11.99	-0.55	10.41	22.89	47.41	120.67	49.91	78.32	192.61	96.03	26.33	115.42	49.90	72.15	192.61
788	-11.94	-1.65	10.41	26.09	47.36	120.79	49.32	80.59	191.56	96.51	26.46	115.09	49.23	73.82	191.56
789	-10.90	1.65	10.41	28.47	44.46	115.30	49.13	88.63	190.34	111.03	29.18	104.13	49.03	69.59	190.33
790	-10.95	0.55	10.41	25.34	44.43	115.13	49.81	86.62	191.48	110.70	29.04	104.24	49.80	67.92	191.47
791	-10.95	-0.55	10.41	25.34	44.43	115.13	49.81	86.62	191.47	110.70	29.04	104.24	49.80	67.92	191.47
792	-10.90	-1.65	10.41	28.48	44.46	115.29	49.12	88.62	190.33	111.02	29.19	104.13	49.03	69.58	190.32
793	-9.86	1.65	10.41	30.64	41.65	109.54	48.14	96.22	189.65	124.66	32.03	95.60	48.05	62.28	189.63
794	-9.90	0.55	10.41	27.58	41.56	109.32	48.89	94.44	190.87	124.44	31.87	95.50	48.88	60.43	190.87
795	-9.90	-0.55	10.41	27.59	41.56	109.32	48.89	94.44	190.87	124.44	31.87	95.50	48.88	60.43	190.87
796	-9.86	-1.65	10.41	30.65	41.66	109.54	48.13	96.21	189.63	124.65	32.04	95.60	48.04	62.27	189.62
797	-8.82	1.65	10.41	32.66	38.93	103.60	45.94	103.28	188.86	137.73	34.89	89.08	45.85	52.27	188.86
798	-8.86	0.55	10.41	29.74	38.78	103.31	46.73	101.71	190.17	137.61	34.72	88.74	46.72	49.97	190.17
799	-8.86	-0.55	10.41	29.74	38.79	103.31	46.72	101.71	190.17	137.61	34.72	88.74	46.72	49.97	190.17
800	-8.82	-1.65	10.41	32.67	38.93	103.59	45.93	103.28	188.85	137.72	34.89	89.07	45.85	52.26	188.84
801	-7.78	1.65	10.41	34.71	36.29	97.52	42.62	109.68	187.37	151.18	37.65	84.57	42.55	40.78	187.38
802	-7.82	0.55	10.41	31.98	36.12	97.15	43.40	108.29	188.73	151.17	37.50	83.96	43.39	37.61	188.73
803	-7.82	-0.55	10.41	31.98	36.12	97.15	43.40	108.29	188.72	151.17	37.50	83.96	43.39	37.60	188.72
804	-7.78	-1.65	10.41	34.72	36.30	97.52	42.61	109.68	187.36	151.17	37.66	84.57	42.54	40.77	187.37
805	-6.75	1.65	10.41	36.67	33.74	91.40	37.93	115.26	184.52	164.85	40.42	82.44	37.88	30.17	184.54
806	-6.78	0.55	10.41	34.23	33.56	90.91	38.66	114.00	185.87	165.00	40.30	81.54	38.66	25.47	185.87
807	-6.78	-0.55	10.41	34.23	33.57	90.91	38.66	114.00	185.86	165.00	40.30	81.54	38.66	25.47	185.87
808	-6.75	-1.65	10.41	36.68	33.74	91.40	37.92	115.26	184.51	164.84	40.42	82.44	37.87	30.16	184.53
809	-5.71	1.65	10.41	38.70	31.32	85.35	32.67	119.88	179.77	179.52	43.18	82.96	32.68	25.40	179.82
810	-5.73	0.55	10.41	36.60	31.17	84.71	33.34	118.71	181.06	179.86	43.11	81.83	33.34	19.44	181.06
811	-5.73	-0.55	10.41	36.60	31.17	84.72	33.34	118.70	181.06	179.85	43.11	81.83	33.34	19.44	181.06
812	-5.71	-1.65	10.41	38.71	31.32	85.35	32.66	119.87	179.76	179.51	43.18	82.97	32.67	25.40	179.81
813	-4.67	1.65	10.41	40.65	29.06	79.54	27.03	123.43	173.02	194.60	46.08	85.90	27.15	30.88	173.10
814	-4.69	0.55	10.41	38.95	28.96	78.73	27.62	122.30	174.21	195.17	46.08	84.60	27.63	26.20	174.22
815	-4.69	-0.55	10.41	38.95	28.97	78.73	27.62	122.30	174.21	195.17	46.08	84.60	27.63	26.20	174.22
816	-4.67	-1.65	10.41	40.66	29.07	79.54	27.02	123.43	173.01	194.59	46.08	85.90	27.15	30.87	173.09
817	-3.63	1.65	10.41	42.61	27.07	74.22	21.72	125.95	164.24	210.15	49.14	90.21	22.10	43.19	164.35
818	-3.65	0.55	10.41	41.33	27.02	73.20	22.22	124.84	165.31	210.96	49.21	88.80	22.26	40.10	165.32
819	-3.65	-0.55	10.41	41.33	27.02	73.20	22.22	124.84	165.31	210.96	49.21	88.80	22.26	40.10	165.32
820	-3.63	-1.65	10.41	42.61	27.08	74.22	21.71	125.95	164.23	210.14	49.14	90.21	22.09	43.19	164.34
821	-2.59	1.65	10.41	44.65	25.42	69.67	17.26	127.50	153.80	225.98	52.40	94.60	18.10	58.55	153.96
822	-2.61	0.55	10.41	43.79	25.41	68.43	17.66	126.40	154.74	227.05	52.53	93.11	17.75	56.50	154.75
823	-2.61	-0.55	10.41	43.79	25.42	68.43	17.66	126.40	154.74	227.05	52.53	93.11	17.75	56.50	154.75
824	-2.59	-1.65	10.41	44.65	25.43	69.67	17.25	127.50	153.80	225.98	52.40	94.61	18.09	58.54	153.96
825	-1.56	1.65	10.41	46.87	24.21	66.19	13.89	128.19	142.20	242.14	55.83	97.92	15.48	75.81	142.41
826	-1.56	0.55	10.41	46.40	24.22	64.75	14.18	127.09	142.97	243.46	56.00	96.36	14.37	74.53	143.00
827	-1.56	-0.55	10.41	46.40	24.22	64.75	14.18	127.09	142.97	243.46	56.00	96.36	14.37	74.52	143.00
828	-1.56	-1.65	10.41	46.88	24.22	66.19	13.89	128.19	142.19	242.13	55.82	97.93	15.47	75.81	142.41
829	-0.52	1.65	10.41	49.41	23.52	64.07	11.81	128.10	129.90	258.82	59.35	99.45	14.39	94.85	130.20
830	-0.52	0.55	10.41	49.26	23.52	62.46	12.01	127.02	130.51	260.42	59.56	97.80	12.32	94.20	130.54
831	-0.52	-0.55	10.41	49.26	23.52	62.46	12.00	127.02	130.51	260.42	59.56	97.80	12.32	94.20	130.54
832	-0.52	-1.65	10.41	49.41	23.53	64.07	11.80	128.10	129.90	258.82	59.34	99.45	14.38	94.85	130.20
833	-16.50	1.65	8.72	16.41	62.42	178.68	54.62	55.53	224.90	28.95	27.49	240.39	54.64	72.52	224.97
834	-16.57	0.55	8.72	12.83	62.52	178.61	54.88	51.60	225.81	26.70	27.37	242.28	54.88	69.66	225.82
835	-16.57	-0.55	8.72	12.83	62.51	178.59	54.88	51.59	225.81	26.70	27.37	242.27	54.88	69.66	225.81
836	-16.50	-1.65	8.72	16.41	62.41	178.62	54.61	55.52	224.89	28.94	27.48	240.35	54.63	72.51	224.95
837	-15.43	1.65	8.72	18.62	58.84	172.15	51.30	66.41	220.54	48.21	25.67	207.57	51.27	77.79	220.58
838	-15.50	0.55	8.72	15.36	58.89	172.07	51.65	63.22	221.64	46.81	25.52	208.98	51.65	75.42	221.65
839	-15.50	-0.55	8.72	15.36	58.89	172.05	51.65	63.21	221.64	46.81	25.52	208.98	51.65	75.42	221.65
840	-15.43	-1.65	8.72	18.62	58.83	172.10	51.29	66.40	220.53	48.20	25.67	207.53	51.27	77.77	220.57
841	-14.37	1.65	8.72	21.34	55.38	165.44	48.79	77.40	216.84	67.00	24.89	179.13	48.72	80.67	216.86
842	-14.43	0.55	8.72	18.43	55.43	165.33	49.13	74.79	217.84	66.07	24.71	180.11	49.12	78.72	217.84
843	-14.43	-0.55	8.72	18.43	55.43	165.31	49.13	74.78	217.84	66.07	24.71	180.10	49.12	78.71	217.84
844	-14.37	-1.65	8.72	21.34	55.37	165.40	48.78	77.39	216.84	66.98	24.89	179.10	48.72	80.64	216.85
845	-13.31	1.65	8.72	24.15	52.10	158.48	46.74	87.93	213.61	84.68	25.15	155.38	46.64	80.78	213.61
846	-13.36	0.55	8.72	21.52	52.13	158.33	47.11	85.75	214.59	84.08	24.94	155.97	47.10	79.12	214.59
847	-13.36	-0.55	8.72	21.52	52.13	158.32	47.11	85.74	214.59	84.07	24.95	155.96	47.10	79.11	214.59
848	-13.31	-1.65	8.72	24.15	52.10	158.46	46.73	87.91	213.60	84.66	25.16	155.36	46.64	80.76	213.60
849	-12.24	1.65	8.72	26.83	48.98	151.27	44.88	97.86	210.88	101.15	26.33	136.42	44.76	77.98	210.87
850	-12.29	0.55	8.72	24.41	48.97	151.08	45.30	96.00	211.89	100.78	26.11	136.65	45.29	76.46	211.89
851	-12.29	-0.55	8.72	24.41	48.97	151.07	45.30	96.00	211.89	100.77	26.11	136.64	45.29	76.45	211.89
852	-12.24	-1.65	8.72	26.83	48.97	151.25	44.87	97.84	210.87	101.13	26.34	136.41	44.76	77.96	210.86
853	-11.18	1.65	8.72	29.29	45.99	143.84	42.93	107.17	208.57	116.57	28.22	122.09	42.80	72.33	208.55
854	-11.22	0.55	8.72	27.04	45.96	143.59	43.40	105.58	209.62	116.37	28.00	121.99	43.39	70.83	209.62
855	-11.22	-0.55	8.72	27.04	45.96	143.59	43.40	105.58	209.62	116.36	28.00	121.99	43.39	70.82	209.62
856	-11.18	-1.65	8.72	29.30	45.99	143.83	42.92	107.16	208.56	116.55	28.22	122.08	42.80	72.31	208.54
857	-10.11	1.65													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
883	-3.74	-0.55	8.72	44.64	29.15	90.57	18.07	150.21	180.82	227.58	49.55	114.90	18.14	41.92	180.82
884	-3.73	-1.65	8.72	45.44	29.16	91.76	17.80	150.80	179.82	226.64	49.45	116.37	18.46	43.90	179.82
885	-2.66	1.65	8.72	48.30	27.63	86.11	14.23	152.98	171.40	246.04	53.11	121.52	15.57	59.31	171.48
886	-2.67	0.55	8.72	47.77	27.65	84.69	14.38	152.44	172.29	247.23	53.26	120.00	14.54	58.13	172.30
887	-2.67	-0.55	8.72	47.77	27.65	84.69	14.38	152.44	172.29	247.23	53.26	120.00	14.54	58.13	172.30
888	-2.66	-1.65	8.72	48.30	27.64	86.12	14.22	152.98	171.40	246.03	53.11	121.52	15.56	59.31	171.48
889	-1.60	1.65	8.72	51.48	26.50	81.76	11.41	154.08	162.11	266.74	56.87	125.67	13.83	76.79	162.23
890	-1.60	0.55	8.72	51.21	26.53	80.11	11.44	153.58	162.88	268.22	57.07	124.10	11.74	76.19	162.89
891	-1.60	-0.55	8.72	51.21	26.53	80.11	11.44	153.58	162.88	268.22	57.07	124.10	11.74	76.19	162.89
892	-1.60	-1.65	8.72	51.48	26.50	81.76	11.41	154.08	162.11	266.73	56.86	125.67	13.83	76.79	162.23
893	-0.53	1.65	8.72	55.00	25.82	79.02	9.49	154.15	152.26	288.90	60.65	128.18	13.35	96.02	152.43
894	-0.53	0.55	8.72	54.97	25.86	77.19	9.37	153.68	152.91	290.71	60.90	126.54	9.89	95.90	152.93
895	-0.53	-0.55	8.72	54.97	25.86	77.19	9.37	153.68	152.91	290.71	60.90	126.54	9.88	95.90	152.93
896	-0.53	-1.65	8.72	55.01	25.82	79.02	9.48	154.16	152.26	288.90	60.65	128.18	13.34	96.02	152.43
897	-16.91	1.65	7.03	18.53	64.11	220.73	57.57	66.55	239.17	31.91	32.98	285.74	57.62	83.93	239.22
898	-16.98	0.55	7.03	15.40	64.08	220.62	57.88	63.22	240.05	29.80	32.84	287.90	57.88	81.55	240.06
899	-16.98	-0.55	7.03	15.40	64.08	220.59	57.88	63.22	240.05	29.80	32.83	287.88	57.88	81.54	240.05
900	-16.91	-1.65	7.03	18.53	64.10	220.64	57.56	66.53	239.15	31.90	32.96	285.67	57.62	83.91	239.20
901	-15.82	1.65	7.03	20.62	60.39	211.52	53.29	79.12	235.97	51.80	30.59	245.97	53.30	88.44	235.99
902	-15.88	0.55	7.03	17.81	60.33	211.38	53.66	76.39	237.07	50.48	30.42	247.58	53.66	86.46	237.07
903	-15.88	-0.55	7.03	17.81	60.32	211.36	53.66	76.39	237.07	50.47	30.42	247.56	53.66	86.45	237.07
904	-15.82	-1.65	7.03	20.62	60.38	211.45	53.29	79.09	235.95	51.78	30.58	245.91	53.30	88.41	235.97
905	-14.73	1.65	7.03	23.23	56.83	202.14	49.62	91.54	233.06	71.35	28.81	210.48	49.57	89.87	233.06
906	-14.79	0.55	7.03	20.77	56.79	201.95	49.94	89.31	234.06	70.50	28.61	211.54	49.94	88.21	234.06
907	-14.79	-0.55	7.03	20.77	56.79	201.93	49.94	89.30	234.06	70.49	28.61	211.52	49.94	88.20	234.06
908	-14.73	-1.65	7.03	23.24	56.82	202.09	49.61	91.52	233.06	71.33	28.81	210.44	49.57	89.83	233.05
909	-13.64	1.65	7.03	25.98	53.48	192.67	46.29	103.41	230.22	89.66	27.75	180.46	46.19	88.11	230.21
910	-13.69	0.55	7.03	23.81	53.43	192.43	46.60	101.55	231.20	89.13	27.51	181.00	46.59	86.67	231.20
911	-13.69	-0.55	7.03	23.81	53.43	192.42	46.60	101.54	231.20	89.12	27.51	180.99	46.59	86.66	231.20
912	-13.64	-1.65	7.03	25.98	53.47	192.64	46.29	103.38	230.22	89.63	27.75	180.44	46.20	88.07	230.20
913	-12.55	1.65	7.03	28.62	50.30	183.16	43.16	114.61	227.52	106.59	27.48	156.72	43.02	83.41	227.49
914	-12.60	0.55	7.03	26.67	50.24	182.87	43.48	113.04	228.50	106.29	27.21	156.78	43.46	82.05	228.50
915	-12.60	-0.55	7.03	26.67	50.24	182.87	43.48	113.04	228.50	106.28	27.21	156.78	43.46	82.05	228.50
916	-12.55	-1.65	7.03	28.62	50.30	183.14	43.15	114.58	227.52	106.56	27.49	156.71	43.03	83.38	227.49
917	-11.45	1.65	7.03	31.05	47.28	173.61	40.07	125.13	224.93	122.29	28.03	139.55	39.91	76.13	224.90
918	-11.50	0.55	7.03	29.29	47.20	173.27	40.40	123.82	225.94	122.17	27.74	139.21	40.39	74.78	225.93
919	-11.50	-0.55	7.03	29.29	47.20	173.27	40.40	123.81	225.93	122.15	27.74	139.21	40.39	74.77	225.93
920	-11.45	-1.65	7.03	31.05	47.28	173.60	40.07	125.11	224.92	122.26	28.03	139.55	39.92	76.10	224.89
921	-10.36	1.65	7.03	33.28	44.40	164.03	36.90	134.99	222.34	137.15	29.33	128.75	36.74	66.78	222.30
922	-10.41	0.55	7.03	31.67	44.31	163.62	37.24	133.89	223.37	137.16	29.04	128.06	37.22	65.32	223.37
923	-10.41	-0.55	7.03	31.67	44.31	163.62	37.24	133.88	223.37	137.15	29.04	128.06	37.22	65.32	223.37
924	-10.36	-1.65	7.03	33.28	44.40	164.02	36.90	134.97	222.33	137.12	29.33	128.75	36.74	66.76	222.30
925	-9.27	1.65	7.03	35.37	41.67	154.42	33.56	144.14	219.57	151.64	31.26	123.56	33.40	56.05	219.54
926	-9.31	0.55	7.03	33.91	41.56	153.93	33.89	143.23	220.64	151.78	31.01	122.60	33.87	54.36	220.63
927	-9.31	-0.55	7.03	33.91	41.56	153.93	33.88	143.22	220.63	151.77	31.01	122.60	33.87	54.36	220.63
928	-9.27	-1.65	7.03	35.37	41.67	154.42	33.55	144.12	219.57	151.62	31.27	123.57	33.40	56.03	219.53
929	-8.18	1.65	7.03	37.44	39.08	144.83	29.99	152.48	216.42	166.32	33.72	122.88	29.88	44.94	216.40
930	-8.21	0.55	7.03	36.13	38.97	144.23	30.30	151.75	217.50	166.57	33.50	121.72	30.29	42.88	217.50
931	-8.21	-0.55	7.03	36.13	38.97	144.23	30.30	151.74	217.50	166.56	33.50	121.72	30.29	42.88	217.50
932	-8.18	-1.65	7.03	37.44	39.08	144.84	29.99	152.47	216.42	166.30	33.71	122.89	29.88	44.93	216.39
933	-7.09	1.65	7.03	39.58	36.64	135.35	26.23	159.92	212.68	181.66	36.57	125.51	26.20	35.25	212.67
934	-7.12	0.55	7.03	38.44	36.54	134.60	26.50	159.33	213.77	182.04	36.41	124.21	26.50	32.70	213.76
935	-7.12	-0.55	7.03	38.44	36.54	134.61	26.50	159.33	213.76	182.04	36.41	124.21	26.50	32.70	213.76
936	-7.09	-1.65	7.03	39.58	36.65	135.35	26.23	159.91	212.68	181.64	36.57	125.52	26.20	35.23	212.66
937	-6.00	1.65	7.03	41.90	34.39	126.11	22.39	166.32	208.18	198.11	39.74	130.31	22.52	30.32	208.17
938	-6.02	0.55	7.03	40.94	34.30	125.19	22.60	165.86	209.24	198.66	39.64	128.92	22.61	27.54	209.24
939	-6.02	-0.55	7.03	40.94	34.31	125.19	22.59	165.86	209.24	198.65	39.64	128.92	22.61	27.53	209.24
940	-6.00	-1.65	7.03	41.90	34.40	126.12	22.38	166.31	208.17	198.10	39.74	130.32	22.51	30.30	208.17
941	-4.91	1.65	7.03	44.49	32.35	117.33	18.59	171.59	202.82	216.02	43.18	136.29	19.02	33.49	202.82
942	-4.93	0.55	7.03	43.71	32.28	116.20	18.73	171.23	203.84	216.75	43.14	134.84	18.78	31.28	203.84
943	-4.93	-0.55	7.03	43.71	32.28	116.21	18.72	171.23	203.84	216.74	43.14	134.85	18.77	31.28	203.84
944	-4.91	-1.65	7.03	44.49	32.35	117.34	18.58	171.58	202.82	216.00	43.18	136.30	19.02	33.48	202.82
945	-3.82	1.65	7.03	47.41	30.56	109.30	15.04	175.65	196.59	235.67	46.83	142.60	16.02	43.56	196.61
946	-3.83	0.55	7.03	46.84	30.52	107.95	15.07	175.37	197.55	236.63	46.86	141.12	15.18	42.18	197.55
947	-3.83	-0.55	7.03	46.84	30.52	107.95	15.07	175.37	197.55	236.63	46.86	141.13	15.18	42.18	197.55
948	-3.82	-1.65	7.03	47.41	30.56	109.31	15.03	175.64	196.59	235.66	46.83	142.61	16.01	43.56	196.60
949	-2.73	1.65	7.03	50.74	29.07	102.41	11.90	178.45	189.56	257.35	50.65	148.52	13.83	57.41	189.60
950	-2.74	0.55	7.03	50.37	29.06	100.81	11.80	178.24	190.45	258.57	50.74	147.02	12.04	56.65	190.45
951	-2.74	-0.55	7.03	50.37	29.06	100.81	11.80	178.23	190.45	258.57	50.74	147.02	12.03	56.65	190.45
952	-2.73	-1.65	7.03	50.74	29.08	102.42	11.89	178.45	189.56	257.34	50.64	148.53	13.82	57.40	189.59
953	-1.64	1.65	7.03	54.54	27.96	97.06	9.36	179.99	181.89	281.33	54.56	153.44	12.72	73.40	181.94
954	-1.64	0.55	7.03	54.38	27.96	95.23	9.06	179.82	182.69	282.87	54.71	151.91	9.52	73.10	182.70
955</															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
981	-11.73	1.65	5.34	33.30	48.06	204.45	39.36	142.28	239.70	127.17	29.18	155.94	39.19	79.44	239.65
982	-11.78	0.55	5.34	31.81	47.92	204.01	39.61	141.15	240.66	127.08	28.86	155.31	39.59	78.18	240.66
983	-11.78	-0.55	5.34	31.81	47.92	204.01	39.61	141.15	240.66	127.06	28.86	155.31	39.59	78.18	240.66
984	-11.73	-1.65	5.34	33.29	48.06	204.44	39.36	142.26	239.69	127.12	29.18	155.94	39.19	79.41	239.64
985	-10.62	1.65	5.34	35.12	45.13	192.93	35.52	153.33	237.17	140.83	28.86	145.20	35.33	68.53	237.12
986	-10.66	0.55	5.34	33.77	44.98	192.42	35.75	152.41	238.16	140.86	28.51	144.22	35.73	67.16	238.16
987	-10.66	-0.55	5.34	33.77	44.99	192.42	35.75	152.41	238.16	140.85	28.51	144.22	35.73	67.15	238.16
988	-10.62	-1.65	5.34	35.12	45.14	192.93	35.52	153.31	237.16	140.79	28.86	145.21	35.34	68.51	237.11
989	-9.50	1.65	5.34	36.81	42.35	181.46	31.69	163.72	234.44	154.00	29.36	141.54	31.52	57.09	234.40
990	-9.53	0.55	5.34	35.58	42.19	180.87	31.89	162.99	235.46	154.13	29.02	140.31	31.87	55.54	235.46
991	-9.53	-0.55	5.34	35.58	42.20	180.87	31.89	162.99	235.46	154.11	29.02	140.32	31.87	55.53	235.46
992	-9.50	-1.65	5.34	36.81	42.35	181.47	31.68	163.70	234.44	153.96	29.36	141.55	31.52	57.07	234.39
993	-8.38	1.65	5.34	38.49	39.71	170.02	27.84	173.30	231.39	167.34	30.66	142.97	27.73	46.18	231.35
994	-8.41	0.55	5.34	37.39	39.56	169.30	28.02	172.75	232.43	167.57	30.34	141.60	28.01	44.38	232.42
995	-8.41	-0.55	5.34	37.39	39.56	169.31	28.02	172.75	232.42	167.56	30.34	141.60	28.01	44.37	232.42
996	-8.38	-1.65	5.34	38.49	39.72	170.03	27.84	173.29	231.38	167.31	30.66	142.98	27.73	46.16	231.35
997	-7.26	1.65	5.34	40.30	37.24	158.67	24.01	181.92	227.88	181.50	32.65	147.61	24.01	37.40	227.85
998	-7.29	0.55	5.34	39.34	37.10	157.80	24.14	181.53	228.92	181.85	32.38	146.16	24.15	35.36	228.92
999	-7.29	-0.55	5.34	39.34	37.10	157.80	24.14	181.53	228.92	181.84	32.38	146.17	24.14	35.36	228.91
1000	-7.26	-1.65	5.34	40.30	37.25	158.68	24.01	181.92	227.87	181.47	32.64	147.62	24.01	37.38	227.84
1001	-6.15	1.65	5.34	42.39	34.96	147.57	20.24	189.43	223.79	197.03	35.22	154.00	20.45	33.24	223.77
1002	-6.17	0.55	5.34	41.57	34.83	146.51	20.31	189.16	224.83	197.52	35.01	152.51	20.34	31.21	224.83
1003	-6.17	-0.55	5.34	41.58	34.84	146.52	20.31	189.16	224.83	197.52	35.01	152.51	20.34	31.21	224.82
1004	-6.15	-1.65	5.34	42.39	34.97	147.59	20.23	189.42	223.79	197.01	35.21	154.01	20.45	33.22	223.77
1005	-5.03	1.65	5.34	44.85	32.90	137.01	16.62	195.68	219.08	214.44	38.25	161.07	17.21	35.62	219.07
1006	-5.05	0.55	5.34	44.20	32.79	135.72	16.61	195.53	220.09	215.11	38.11	159.57	16.67	34.06	220.09
1007	-5.05	-0.55	5.34	44.20	32.79	135.73	16.60	195.53	220.09	215.10	38.11	159.57	16.67	34.05	220.09
1008	-5.03	-1.65	5.34	44.86	32.91	137.02	16.61	195.68	219.07	214.42	38.25	161.08	17.21	35.61	219.06
1009	-3.91	1.65	5.34	47.81	31.10	127.33	13.25	200.60	213.72	234.16	41.65	168.09	14.53	43.56	213.71
1010	-3.93	0.55	5.34	47.33	31.01	125.80	13.12	200.53	214.69	235.05	41.57	166.58	13.28	42.57	214.69
1011	-3.93	-0.55	5.34	47.33	31.01	125.80	13.12	200.53	214.69	235.05	41.57	166.58	13.27	42.57	214.69
1012	-3.91	-1.65	5.34	47.81	31.11	127.34	13.24	200.59	213.72	234.15	41.64	168.10	14.53	43.54	213.71
1013	-2.79	1.65	5.34	51.33	29.61	119.01	10.27	204.09	207.76	256.64	45.32	174.50	12.71	54.72	207.76
1014	-2.80	0.55	5.34	51.02	29.53	117.22	9.97	204.09	208.67	257.80	45.30	172.98	10.28	54.21	208.67
1015	-2.80	-0.55	5.34	51.02	29.53	117.22	9.96	204.09	208.67	257.80	45.30	172.98	10.28	54.20	208.67
1016	-2.79	-1.65	5.34	51.33	29.61	119.02	10.26	204.09	207.76	256.63	45.31	174.51	12.70	54.72	207.76
1017	-1.68	1.65	5.34	55.48	28.47	112.57	7.80	206.12	201.28	282.33	49.15	179.86	11.99	67.71	201.29
1018	-1.68	0.55	5.34	55.36	28.42	110.53	7.23	206.17	202.13	283.81	49.19	178.33	7.85	67.54	202.13
1019	-1.68	-0.55	5.34	55.36	28.42	110.53	7.23	206.17	202.13	283.81	49.18	178.33	7.85	67.53	202.13
1020	-1.68	-1.65	5.34	55.49	28.48	112.57	7.78	206.12	201.28	282.32	49.14	179.87	11.98	67.71	201.30
1021	-0.56	1.65	5.34	60.35	27.77	108.47	5.97	206.65	194.42	311.73	53.03	183.82	12.39	81.99	194.45
1022	-0.56	0.55	5.34	60.40	27.73	106.23	4.99	206.74	195.20	313.59	53.11	182.27	6.18	82.08	195.20
1023	-0.56	-0.55	5.34	60.40	27.73	106.24	4.99	206.74	195.20	313.59	53.10	182.28	6.18	82.08	195.20
1024	-0.56	-1.65	5.34	60.35	27.77	108.48	5.96	206.65	194.43	311.72	53.02	183.83	12.38	81.99	194.45
1025	0.46	2.50	17.16	14.83	5.37	6.00	41.74	34.00	12.26	82.40	7.33	8.12	45.41	42.10	28.08
1026	1.39	2.50	17.16	14.44	37.47	10.16	41.00	34.38	18.55	77.86	37.69	12.40	48.57	52.32	34.52
1027	2.31	2.50	17.16	14.13	67.72	13.82	39.33	36.53	38.81	69.25	67.75	16.13	50.75	65.69	51.83
1028	3.24	2.50	17.16	12.25	91.93	15.69	35.04	43.00	64.10	54.56	91.93	17.60	48.96	83.99	76.07
1029	4.16	2.50	17.16	11.44	93.83	12.21	25.56	59.40	99.04	30.93	94.14	12.42	39.37	111.85	109.51
1030	5.09	2.50	17.16	16.52	43.06	14.63	18.44	87.30	192.97	19.76	46.74	43.37	25.53	146.44	199.25
1031	6.01	2.50	17.16	40.36	19.18	28.22	76.87	96.21	316.79	90.43	22.88	80.97	79.11	213.35	320.95
1032	6.94	2.50	17.16	174.47	66.30	10.39	378.09	53.28	216.65	352.01	64.04	76.55	381.72	184.83	218.66
1033	7.86	2.50	17.16	132.72	61.88	15.61	250.70	33.89	66.60	256.16	84.82	38.58	252.32	125.10	67.08
1034	8.79	2.50	17.16	100.99	60.90	14.58	181.52	22.42	26.67	177.97	105.22	27.08	182.41	90.31	27.41
1035	9.71	2.50	17.16	77.03	59.96	13.76	136.60	15.76	12.15	116.25	117.10	22.08	137.10	67.85	14.24
1036	10.64	2.50	17.16	58.72	59.32	13.45	104.16	11.57	6.30	69.35	121.85	20.68	104.38	50.84	10.76
1037	11.56	2.50	17.16	44.16	59.04	13.38	78.61	8.47	4.42	36.88	120.69	20.77	78.61	35.60	10.73
1038	12.49	2.50	17.16	31.63	58.89	13.31	56.78	5.90	4.65	19.73	114.32	20.84	56.63	20.77	11.40
1039	13.41	2.50	17.16	19.87	58.64	12.97	36.69	4.03	6.74	14.19	103.34	18.87	36.60	7.26	12.39
1040	14.34	2.50	17.16	8.06	58.12	11.96	17.35	3.40	12.39	7.62	88.59	12.34	18.13	5.33	15.29
1041	0.46	3.10	17.16	8.58	8.02	14.24	68.94	76.99	17.61	68.02	27.33	22.66	73.78	84.47	44.02
1042	1.38	3.10	17.16	10.34	48.96	14.35	67.53	76.66	28.83	66.95	55.65	26.90	78.55	94.53	54.27
1043	2.29	3.10	17.16	14.02	88.56	14.62	65.48	77.49	52.20	64.93	92.11	32.47	83.45	108.12	74.73
1044	3.21	3.10	17.16	17.47	121.75	14.90	60.88	80.90	82.27	61.46	123.56	38.20	84.53	125.36	103.49
1045	4.13	3.10	17.16	18.92	138.22	13.91	49.59	91.11	123.56	54.49	138.64	40.59	75.20	149.09	143.46
1046	5.05	3.10	17.16	17.05	66.31	12.84	22.23	110.15	203.61	38.39	66.87	53.35	41.39	178.77	214.82
1047	5.97	3.10	17.16	48.18	25.70	31.93	76.91	118.10	316.59	96.88	30.82	70.56	79.85	221.22	322.89
1048	6.88	3.10	17.16	209.05	82.00	10.98	375.57	65.55	217.73	367.56	81.68	70.41	380.94	182.52	220.83
1049	7.80	3.10	17.16	155.55	73.45	16.50	246.56	40.72	66.42	267.01	94.80	37.38	248.94	123.88	67.15
1050	8.72	3.10	17.16	116.39	68.83	15.07	176.93	25.99	26.10	186.84	109.24	26.60	178.23	89.27	27.17
1051	9.64	3.10	17.16	86.58	64.87	13.97	132.36	17.60	11.90	123.18	117.43	21.72	133.08	67.04	14.87
1052	10.55	3.10	17.16	64.75	61.85	13.56	101.00	12.59	6.46	75.46	119.95	20.33	101.33	50.41	12.35
1053															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
1079	6.14	3.10	15.47	76.60	41.82	30.18	107.67	63.79	86.83	174.23	68.19	69.33	112.66	151.58	93.48
1080	7.08	3.10	15.47	59.40	47.77	38.33	98.00	57.47	77.79	142.18	79.38	89.89	100.99	171.09	82.33
1081	8.03	3.10	15.47	68.47	54.79	43.27	124.54	52.75	60.07	163.85	86.72	90.71	126.56	186.34	64.43
1082	8.97	3.10	15.47	64.55	54.81	42.59	111.58	45.30	32.98	154.32	91.82	79.13	112.77	174.14	39.72
1083	9.92	3.10	15.47	55.47	53.60	41.66	92.39	37.84	17.73	130.66	93.46	74.30	93.11	153.39	29.85
1084	10.86	3.10	15.47	44.96	52.84	41.41	73.59	31.17	11.37	101.78	92.16	74.29	74.00	129.00	28.90
1085	11.81	3.10	15.47	34.63	52.78	41.40	56.37	25.18	10.17	72.56	88.16	75.75	56.50	102.26	30.39
1086	12.75	3.10	15.47	25.01	53.37	41.02	40.67	19.76	11.68	45.81	81.90	74.59	40.43	74.14	31.84
1087	13.70	3.10	15.47	16.12	54.44	39.57	26.45	15.04	15.99	23.51	74.10	65.49	25.63	46.31	33.31
1088	14.64	3.10	15.47	7.88	56.05	36.40	14.70	11.31	23.66	8.44	65.07	43.57	12.91	20.93	36.21
1089	0.49	2.50	13.78	35.17	17.57	34.39	15.22	81.60	62.53	180.27	49.47	45.79	18.01	93.87	65.46
1090	1.47	2.50	13.78	36.49	18.57	35.61	16.63	80.94	44.02	186.35	52.63	43.63	19.93	111.97	49.16
1091	2.45	2.50	13.78	38.61	20.40	37.30	20.11	80.35	25.65	193.00	56.10	40.47	23.91	130.35	35.52
1092	3.42	2.50	13.78	41.73	23.19	39.24	26.62	79.57	8.85	199.85	60.00	37.04	30.82	147.38	28.04
1093	4.40	2.50	13.78	45.77	26.80	42.13	37.65	77.91	8.52	204.79	64.31	38.77	41.89	162.66	28.56
1094	5.38	2.50	13.78	48.04	31.07	46.77	49.04	75.19	16.78	204.19	69.03	53.02	53.02	178.67	31.72
1095	6.36	2.50	13.78	47.53	35.05	51.85	57.33	72.14	22.27	200.03	73.76	72.44	60.91	199.73	34.43
1096	7.34	2.50	13.78	48.55	39.05	56.77	69.50	67.80	19.90	199.41	77.68	90.93	72.44	216.41	32.18
1097	8.31	2.50	13.78	44.82	41.87	61.20	68.58	62.97	14.24	188.05	80.90	106.76	70.91	227.78	29.02
1098	9.29	2.50	13.78	41.88	44.45	64.73	66.96	57.86	9.67	177.18	81.66	120.09	68.86	231.29	28.36
1099	10.27	2.50	13.78	37.75	46.66	67.30	60.04	52.34	7.71	158.02	80.67	131.97	61.68	222.02	29.83
1100	11.25	2.50	13.78	32.26	48.89	69.32	50.41	46.42	8.40	131.08	77.68	144.29	51.90	202.24	32.25
1101	12.23	2.50	13.78	25.90	51.31	70.60	39.91	40.12	8.91	99.33	72.84	154.11	41.26	173.75	34.20
1102	13.21	2.50	13.78	19.21	53.94	70.46	29.53	33.43	9.94	66.46	66.60	155.72	30.61	137.86	35.44
1103	14.18	2.50	13.78	12.67	56.82	68.07	19.90	26.37	13.92	37.46	59.33	142.40	20.37	96.11	36.61
1104	15.16	2.50	13.78	6.56	59.89	62.77	11.78	18.93	21.38	15.30	51.35	109.30	11.00	49.06	38.82
1105	0.49	3.10	13.78	35.14	17.92	35.60	15.94	88.03	62.14	178.63	48.53	47.89	20.08	98.27	66.46
1106	1.46	3.10	13.78	36.17	18.83	36.71	17.18	87.13	43.82	184.51	51.69	45.36	22.26	114.84	51.20
1107	2.43	3.10	13.78	38.29	20.51	38.43	20.44	86.30	25.47	190.98	55.17	42.02	26.37	132.22	39.06
1108	3.40	3.10	13.78	41.73	23.24	40.37	26.66	85.21	9.15	197.69	59.13	38.67	33.22	148.76	33.25
1109	4.37	3.10	13.78	46.43	26.73	43.10	36.92	82.87	9.50	203.07	63.51	39.65	43.54	163.34	34.10
1110	5.34	3.10	13.78	49.98	32.36	47.92	48.44	78.87	16.49	203.85	69.33	52.36	54.32	177.59	36.03
1111	6.31	3.10	13.78	49.10	37.80	53.24	54.96	75.22	21.16	198.24	75.21	70.64	60.10	197.17	37.80
1112	7.29	3.10	13.78	51.18	41.81	58.21	67.04	70.33	19.14	198.48	78.72	88.44	71.34	213.09	36.12
1113	8.26	3.10	13.78	47.19	44.14	62.41	65.99	64.98	14.11	186.74	81.28	103.63	69.47	223.48	33.94
1114	9.23	3.10	13.78	44.19	46.13	65.73	64.54	59.58	10.58	175.58	81.48	116.84	67.43	226.88	34.33
1115	10.20	3.10	13.78	39.80	47.67	68.02	57.96	53.76	9.48	156.61	80.00	128.56	60.48	218.22	36.54
1116	11.17	3.10	13.78	33.95	49.29	69.84	48.81	47.58	10.30	130.24	76.67	140.59	51.09	199.44	39.46
1117	12.14	3.10	13.78	27.24	51.25	71.01	38.83	41.12	10.96	99.22	71.66	150.18	40.89	172.17	41.81
1118	13.11	3.10	13.78	20.26	53.57	70.86	28.98	34.36	12.18	67.05	65.39	151.92	30.63	137.60	43.28
1119	14.09	3.10	13.78	13.53	56.22	68.59	19.93	27.30	16.03	38.57	58.25	139.44	20.66	97.18	44.35
1120	15.06	3.10	13.78	7.34	59.27	63.55	12.50	19.85	23.11	16.66	50.33	108.16	11.33	51.53	45.84
1121	0.50	2.50	12.09	44.27	20.71	50.34	13.20	104.45	90.36	229.86	57.50	72.89	17.96	107.81	92.02
1122	1.51	2.50	12.09	46.23	21.58	51.39	14.34	103.32	75.22	241.01	60.89	69.77	20.10	127.69	77.63
1123	2.51	2.50	12.09	48.56	23.15	53.56	17.14	101.79	60.90	251.95	64.31	64.89	23.55	148.54	64.44
1124	3.52	2.50	12.09	50.91	25.33	56.82	21.59	99.82	48.20	261.70	67.69	59.47	28.29	170.29	53.28
1125	4.52	2.50	12.09	52.70	28.01	61.05	26.93	97.31	37.79	269.21	70.96	56.87	33.64	193.39	44.81
1126	5.53	2.50	12.09	53.62	31.02	65.88	32.59	94.15	30.18	274.12	73.95	61.42	39.10	218.14	39.32
1127	6.53	2.50	12.09	53.70	34.22	71.17	38.18	90.29	25.98	276.33	76.14	74.82	44.30	242.87	36.96
1128	7.54	2.50	12.09	52.29	37.30	76.69	40.87	85.88	23.90	273.62	77.17	95.02	46.72	266.63	36.65
1129	8.54	2.50	12.09	50.26	40.39	82.21	42.59	81.05	23.41	266.85	76.55	119.97	48.20	286.02	37.85
1130	9.55	2.50	12.09	46.75	43.44	87.70	41.10	75.95	23.53	251.51	74.36	149.02	46.68	297.85	39.87
1131	10.55	2.50	12.09	41.97	46.58	93.05	37.77	70.54	22.94	227.30	70.41	181.57	43.50	299.69	41.85
1132	11.56	2.50	12.09	35.82	49.84	97.89	32.90	64.55	21.12	193.16	65.03	214.93	38.94	288.35	43.45
1133	12.56	2.50	12.09	28.52	53.25	101.51	27.10	57.60	17.83	151.00	58.61	243.67	33.43	261.59	44.49
1134	13.57	2.50	12.09	20.77	56.82	102.91	20.95	49.40	13.74	105.93	51.54	259.90	27.24	218.74	45.07
1135	14.57	2.50	12.09	13.17	60.53	100.86	14.91	39.66	11.79	61.92	44.79	253.66	20.57	159.42	45.59
1136	15.58	2.50	12.09	7.81	64.48	94.63	9.64	28.64	16.17	30.27	38.60	218.08	13.54	88.63	45.95
1137	0.50	3.10	12.09	44.25	21.06	52.21	12.44	107.44	89.86	227.75	57.57	75.27	19.29	109.23	92.31
1138	1.50	3.10	12.09	45.88	22.15	53.27	13.52	106.17	75.08	238.53	61.08	72.25	21.72	128.13	78.61
1139	2.50	3.10	12.09	48.05	23.99	55.42	16.16	104.44	61.13	249.12	64.64	67.53	25.27	148.10	66.22
1140	3.49	3.10	12.09	50.37	26.40	58.66	20.41	102.19	48.67	258.64	68.09	62.21	29.96	169.01	55.90
1141	4.49	3.10	12.09	52.28	29.31	62.92	25.69	99.36	38.49	266.03	71.35	59.40	35.31	191.25	48.36
1142	5.49	3.10	12.09	53.28	32.24	67.67	31.13	95.95	30.93	270.66	74.09	62.96	40.65	215.27	43.66
1143	6.49	3.10	12.09	53.68	35.27	72.83	36.83	91.80	26.81	273.09	76.00	74.79	45.90	239.12	41.93
1144	7.49	3.10	12.09	52.34	38.24	78.18	39.38	87.16	24.86	270.10	76.97	93.54	48.11	261.99	42.22
1145	8.49	3.10	12.09	50.49	41.13	83.53	41.14	82.17	24.34	263.39	76.24	117.35	49.56	280.90	43.97
1146	9.48	3.10	12.09	47.03	43.90	88.78	39.77	76.91	24.42	248.28	73.97	145.33	48.15	292.53	46.56
1147	10.48	3.10	12.09	42.31	46.75	93.89	36.67	71.36	23.82	224.60	69.96	176.86	45.25	294.59	49.23
1148	11.48	3.10	12.09	36.22	49.77	98.54	32.12	65.27	22.09	191.35	64.53	209.23	41.05	283.93	51.63
1149	12.48	3.10	12.09	28.99	53.00	102.04	26.70	58.29	19.11	150.35	58.04	237.21	35.90	258.32	53.53
1150	13.48	3.10	12.09	21.32	56.47	103.44	20.97	50.11	15.72	106.43	50.87	253.25	29.91	217.06	54.81
1151	14.47	3.10	12.09	13.78	60.06	101.56	15.43	40.45							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
1177	8.71	3.10	10.41	65.81	41.53	103.80	26.02	99.87	53.86	376.02	70.85	121.85	43.73	339.43	66.51
1178	9.74	3.10	10.41	63.48	45.08	111.00	25.85	94.72	50.20	368.24	65.64	161.43	44.29	367.05	65.88
1179	10.76	3.10	10.41	58.98	48.88	118.81	24.68	89.66	46.00	346.97	58.78	212.91	44.14	386.96	65.49
1180	11.79	3.10	10.41	51.84	52.90	126.99	22.76	84.26	40.77	308.81	51.09	273.72	43.58	393.28	65.33
1181	12.81	3.10	10.41	41.92	57.06	134.67	20.29	77.51	34.28	252.17	44.21	336.66	42.61	377.36	65.90
1182	13.84	3.10	10.41	30.11	61.26	139.79	17.38	68.11	26.71	181.46	40.16	385.74	40.53	329.72	67.94
1183	14.86	3.10	10.41	19.69	65.64	140.27	14.06	55.93	19.38	116.17	40.61	404.24	35.32	252.98	70.41
1184	15.89	3.10	10.41	10.15	70.07	133.95	10.73	40.91	16.41	47.75	45.50	370.59	28.56	147.72	72.10
1185	0.53	2.50	8.72	58.68	25.61	80.85	8.91	153.87	141.45	309.74	63.98	131.00	18.73	116.75	141.99
1186	1.59	2.50	8.72	62.64	26.04	81.93	8.89	151.92	131.67	334.73	67.44	129.16	21.00	139.40	132.41
1187	2.65	2.50	8.72	66.90	27.06	84.66	9.50	149.01	122.29	361.44	70.51	124.82	23.63	164.58	123.31
1188	3.70	2.50	8.72	71.34	28.64	88.75	10.63	145.15	113.58	389.79	72.94	118.04	26.46	192.69	114.97
1189	4.76	2.50	8.72	75.85	30.75	93.88	12.09	140.38	105.69	419.54	74.42	109.24	29.33	224.13	107.57
1190	5.82	2.50	8.72	80.29	33.36	99.76	13.69	134.81	98.68	450.19	74.55	99.66	32.05	259.26	101.19
1191	6.88	2.50	8.72	84.53	36.45	106.22	15.21	128.64	92.46	480.83	72.89	92.41	34.45	298.26	95.76
1192	7.94	2.50	8.72	88.29	40.02	113.20	16.44	122.23	86.76	509.74	69.02	94.07	36.32	341.16	91.05
1193	9.00	2.50	8.72	91.19	44.08	120.82	17.32	116.07	81.24	534.31	62.70	113.45	37.62	387.59	86.71
1194	10.05	2.50	8.72	92.55	48.65	129.36	17.82	110.71	75.42	550.29	54.30	155.82	38.39	436.54	82.31
1195	11.11	2.50	8.72	91.38	53.68	139.26	18.05	106.63	68.78	551.52	45.96	222.68	38.97	485.45	77.45
1196	12.17	2.50	8.72	86.23	59.08	151.04	18.07	103.78	60.77	528.86	43.22	315.43	39.97	528.39	72.04
1197	13.23	2.50	8.72	75.16	64.55	164.97	17.85	100.82	50.91	469.64	51.51	434.14	42.16	552.35	66.91
1198	14.29	2.50	8.72	56.28	69.59	179.75	17.03	94.11	38.99	359.23	66.63	568.00	45.94	530.18	65.17
1199	15.34	2.50	8.72	30.22	73.21	186.90	14.94	76.98	25.58	195.08	76.09	651.48	48.97	411.29	73.27
1200	16.40	2.50	8.72	20.61	77.93	180.55	11.10	55.16	13.32	122.77	93.92	630.90	38.16	244.36	83.42
1201	0.53	3.10	8.72	58.45	25.55	83.40	9.32	154.45	140.71	306.75	63.55	133.34	22.19	116.30	141.54
1202	1.58	3.10	8.72	62.18	26.01	84.53	9.40	152.47	131.09	331.18	66.98	131.66	25.11	138.39	132.24
1203	2.63	3.10	8.72	66.24	27.06	87.23	10.05	149.53	121.87	357.28	70.04	127.51	28.34	162.97	123.43
1204	3.68	3.10	8.72	70.53	28.65	91.24	11.15	145.64	113.28	384.97	72.50	120.96	31.75	190.47	115.41
1205	4.73	3.10	8.72	74.92	30.76	96.24	12.58	140.86	105.51	414.06	74.05	112.40	35.18	221.24	108.38
1206	5.79	3.10	8.72	79.28	33.33	101.97	14.14	135.29	98.58	444.03	74.34	102.98	38.44	255.67	102.42
1207	6.84	3.10	8.72	83.46	36.34	108.26	15.65	129.13	92.44	474.07	72.93	95.56	41.35	293.92	97.48
1208	7.89	3.10	8.72	87.19	39.80	115.08	16.88	122.72	86.81	502.48	69.40	96.24	43.69	336.06	93.36
1209	8.94	3.10	8.72	90.10	43.73	122.52	17.80	116.52	81.35	526.77	63.46	113.73	45.40	381.77	89.71
1210	9.99	3.10	8.72	91.50	48.17	130.88	18.37	111.09	75.64	542.75	55.32	153.89	46.51	430.05	86.15
1211	11.05	3.10	8.72	90.42	53.12	140.59	18.70	106.88	69.17	544.35	46.71	218.54	47.38	478.39	82.32
1212	12.10	3.10	8.72	85.43	58.49	152.16	18.88	103.85	61.41	522.50	42.74	308.91	48.72	520.89	78.24
1213	13.15	3.10	8.72	74.63	64.04	165.83	18.91	100.71	51.89	464.73	49.68	424.73	51.49	544.66	75.00
1214	14.20	3.10	8.72	56.18	69.31	180.30	18.53	93.94	40.37	356.81	64.75	554.85	56.20	523.00	76.08
1215	15.25	3.10	8.72	30.80	73.27	187.36	17.05	77.17	27.39	196.87	75.60	635.11	60.13	407.18	88.05
1216	16.31	3.10	8.72	21.35	78.59	181.48	13.29	55.93	15.97	127.06	96.72	614.95	46.83	246.21	100.54
1217	0.54	2.50	7.03	63.45	27.06	95.45	7.49	179.42	164.54	334.34	62.00	160.67	19.61	109.97	164.80
1218	1.63	2.50	7.03	68.64	27.41	96.55	7.30	177.11	156.32	366.65	65.47	160.10	22.20	130.97	156.69
1219	2.71	2.50	7.03	74.42	28.36	99.60	7.53	173.56	148.29	402.64	68.43	157.12	25.04	154.45	148.82
1220	3.80	2.50	7.03	80.79	29.90	104.23	8.03	168.76	140.60	442.71	70.56	151.54	28.00	180.94	141.35
1221	4.88	2.50	7.03	87.77	32.05	110.02	8.71	162.77	133.34	487.21	71.47	143.24	30.90	211.08	134.39
1222	5.97	2.50	7.03	95.37	34.83	116.60	9.52	155.69	126.53	536.38	70.64	132.29	33.54	245.61	127.97
1223	7.05	2.50	7.03	103.59	38.26	123.67	10.37	147.73	120.08	590.19	67.53	119.41	35.69	285.44	122.02
1224	8.14	2.50	7.03	112.38	42.41	131.08	11.25	139.27	113.79	648.22	61.67	107.39	37.06	331.70	116.36
1225	9.22	2.50	7.03	121.57	47.36	138.85	12.16	130.91	107.38	709.30	53.29	104.42	37.44	385.83	110.68
1226	10.31	2.50	7.03	130.77	53.20	147.21	13.24	123.65	100.45	771.09	45.47	125.28	36.80	449.62	104.53
1227	11.39	2.50	7.03	139.19	60.00	156.77	14.71	118.92	92.44	829.12	48.56	181.70	35.59	525.08	97.34
1228	12.48	2.50	7.03	145.29	67.72	168.73	16.89	118.52	82.56	874.95	72.20	280.00	35.03	613.93	88.47
1229	13.56	2.50	7.03	146.06	76.08	185.33	19.89	123.75	69.72	891.54	112.26	432.85	37.19	715.11	77.56
1230	14.65	2.50	7.03	135.28	84.37	210.34	23.18	133.02	52.44	841.83	160.74	665.57	44.58	814.81	66.32
1231	15.73	2.50	7.03	99.92	91.17	249.39	24.39	135.50	29.62	639.58	206.76	1019.28	59.92	845.37	67.37
1232	16.82	2.50	7.03	12.06	86.55	253.00	17.78	78.73	8.54	46.56	167.39	1114.49	82.20	421.83	125.25
1233	0.54	3.10	7.03	63.18	27.02	98.26	8.44	179.57	163.68	331.14	61.66	162.88	23.75	109.41	164.09
1234	1.62	3.10	7.03	68.15	27.37	99.41	8.45	177.25	155.59	362.77	65.10	162.41	27.06	129.98	156.17
1235	2.70	3.10	7.03	73.72	28.31	102.40	8.82	173.70	147.68	398.02	68.07	159.56	30.64	153.02	148.50
1236	3.78	3.10	7.03	79.91	29.83	106.92	9.41	168.93	140.10	437.27	70.28	154.15	34.34	179.04	141.26
1237	4.85	3.10	7.03	86.73	31.94	112.55	10.16	162.97	132.95	480.91	71.35	146.07	38.00	208.66	134.56
1238	5.93	3.10	7.03	94.19	34.64	118.95	11.01	155.95	126.23	529.20	70.82	135.38	41.40	242.63	128.44
1239	7.01	3.10	7.03	102.30	37.96	125.85	11.89	148.05	119.85	582.19	68.14	122.75	44.26	281.87	122.86
1240	8.09	3.10	7.03	111.01	41.97	133.09	12.77	139.64	113.66	639.55	62.80	110.81	46.24	327.53	117.65
1241	9.17	3.10	7.03	120.15	46.76	140.70	13.64	131.32	107.38	700.20	54.79	107.11	47.02	381.07	112.51
1242	10.25	3.10	7.03	129.34	52.45	148.93	14.60	124.04	100.62	761.88	46.34	125.94	46.48	444.31	107.01
1243	11.33	3.10	7.03	137.79	59.17	158.36	15.85	119.21	92.88	820.11	46.68	179.67	44.97	519.30	100.57
1244	12.41	3.10	7.03	143.94	66.94	170.17	17.75	118.58	83.41	866.29	67.76	275.19	43.83	607.65	92.61
1245	13.49	3.10	7.03	144.79	75.54	186.55	20.54	123.45	71.11	883.26	107.38	424.74	45.71	708.06	83.02
1246	14.56	3.10	7.03	134.16	84.28	211.13	23.92	132.24	54.47	834.18	157.11	652.69	54.42	806.38	74.47
1247	15.64	3.10	7.03	99.36	91.68	249.23	25.98	134.32	32.18	634.70	205.01	997.10	74.55	835.40	82.01
1248	16.72	3.10	7.03	12.89	88.53	252.96	2								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
1275	11.61	3.10	5.34	191.47	66.12	176.88	13.59	124.24	117.41	1107.18	68.21	129.34	34.88	438.90	122.45
1276	12.72	3.10	5.34	218.60	77.30	185.61	17.19	118.14	107.64	1267.16	116.91	189.82	27.77	530.53	114.11
1277	13.82	3.10	5.34	250.89	90.52	197.13	24.52	121.17	94.48	1459.24	189.95	309.69	26.57	658.65	103.28
1278	14.93	3.10	5.34	289.07	105.58	216.41	36.87	141.41	74.58	1696.43	287.54	524.90	36.20	854.06	89.08
1279	16.03	3.10	5.34	331.19	122.99	257.38	54.87	188.63	39.86	1988.10	416.66	945.60	54.61	1182.03	77.10
1280	17.14	3.10	5.34	357.18	153.71	431.51	76.16	276.11	34.12	2233.53	659.09	2375.11	92.48	1776.11	135.83
1281	-14.34	2.50	17.16	12.74	54.15	13.53	27.54	8.95	40.35	15.43	32.18	15.39	26.54	10.05	40.80
1282	-13.41	2.50	17.16	28.42	53.66	13.26	47.14	9.59	34.86	41.65	37.30	14.79	46.75	14.62	35.03
1283	-12.49	2.50	17.16	44.52	53.15	13.00	66.98	10.63	33.27	72.78	40.62	13.88	66.82	19.59	33.30
1284	-11.56	2.50	17.16	61.72	52.49	12.81	88.96	12.44	34.19	108.89	42.10	13.53	88.90	24.76	34.16
1285	-10.64	2.50	17.16	81.32	51.79	12.78	115.50	15.27	37.79	150.85	41.98	13.93	115.50	31.20	37.72
1286	-9.71	2.50	17.16	105.25	51.41	13.10	150.29	19.78	45.69	200.49	40.59	15.82	150.30	41.06	45.62
1287	-8.79	2.50	17.16	135.68	51.71	14.04	199.66	27.43	63.07	260.49	38.71	21.18	199.67	58.17	63.01
1288	-7.86	2.50	17.16	175.17	53.11	15.24	276.89	40.68	108.69	334.41	40.07	32.48	276.92	88.94	108.62
1289	-6.94	2.50	17.16	226.32	61.42	13.36	419.98	61.86	276.88	425.23	60.90	67.69	420.26	144.29	277.08
1290	-6.01	2.50	17.16	53.35	17.65	44.23	82.72	115.53	387.51	108.65	14.72	67.22	82.98	181.35	388.30
1291	-5.09	2.50	17.16	12.00	55.04	25.70	25.53	106.16	246.49	20.49	55.18	31.36	26.33	129.61	248.01
1292	-4.16	2.50	17.16	10.08	116.12	7.76	24.17	70.02	139.34	49.07	116.08	4.62	27.15	85.46	142.02
1293	-3.24	2.50	17.16	16.65	116.36	10.04	35.16	49.01	99.96	67.16	116.38	8.36	37.35	55.25	102.96
1294	-2.31	2.50	17.16	19.32	91.72	8.10	39.91	40.07	72.04	77.22	91.83	7.15	40.64	39.62	75.38
1295	-1.39	2.50	17.16	18.49	60.74	4.49	41.51	36.31	48.98	82.21	60.97	4.47	41.48	33.74	53.55
1296	-0.46	2.50	17.16	16.39	27.94	2.67	41.93	34.61	28.53	83.77	28.45	4.54	42.84	35.31	36.49
1297	-14.22	3.10	17.16	15.43	53.75	13.57	28.80	10.79	40.13	17.63	31.68	15.33	27.38	12.02	40.79
1298	-13.31	3.10	17.16	32.52	52.77	13.28	47.38	11.20	34.67	44.68	35.98	14.75	46.79	15.91	34.92
1299	-12.39	3.10	17.16	50.43	52.19	13.02	66.25	12.34	32.95	76.63	39.05	13.87	66.01	20.59	33.00
1300	-11.47	3.10	17.16	70.10	51.75	12.84	87.15	14.38	33.72	113.74	40.88	13.54	87.07	25.67	33.67
1301	-10.55	3.10	17.16	93.14	51.77	12.84	112.41	17.69	37.08	157.11	41.81	13.95	112.40	32.21	36.98
1302	-9.64	3.10	17.16	122.03	53.01	13.26	145.65	23.18	44.63	209.01	42.79	15.86	145.66	42.42	44.53
1303	-8.72	3.10	17.16	160.17	56.01	14.51	194.16	32.88	61.69	273.12	44.73	21.27	194.16	60.37	61.59
1304	-7.80	3.10	17.16	209.16	61.41	16.12	271.14	49.92	107.62	352.00	50.59	32.24	271.17	92.53	107.51
1305	-6.88	3.10	17.16	274.73	75.12	14.46	414.76	77.18	276.61	451.29	72.98	64.86	415.17	149.13	276.93
1306	-5.97	3.10	17.16	64.86	23.19	52.53	82.42	143.13	384.84	116.33	20.78	68.24	82.74	199.47	386.06
1307	-5.05	3.10	17.16	26.82	82.19	27.69	20.54	132.13	255.05	55.73	82.12	39.09	27.59	160.89	258.07
1308	-4.13	3.10	17.16	28.32	166.63	11.17	51.94	105.89	162.09	64.66	167.06	18.44	60.54	124.44	168.11
1309	-3.21	3.10	17.16	26.25	150.96	11.03	64.11	91.02	115.06	67.23	152.23	17.56	69.80	99.82	121.41
1310	-2.29	3.10	17.16	21.89	116.77	12.23	68.30	84.26	81.40	67.96	119.04	17.09	70.40	86.07	88.75
1311	-1.38	3.10	17.16	16.74	76.04	13.36	69.40	80.58	54.43	68.32	79.97	17.94	69.47	79.45	64.59
1312	-0.46	3.10	17.16	11.51	34.16	14.00	69.60	78.28	31.50	68.39	42.64	19.78	70.53	79.08	48.25
1313	-14.75	2.50	15.47	14.32	52.66	41.56	34.46	22.89	105.24	20.08	20.83	52.20	33.90	29.72	105.83
1314	-13.80	2.50	15.47	24.26	50.86	40.59	46.69	24.63	96.17	44.54	24.78	48.24	46.38	38.41	96.47
1315	-12.85	2.50	15.47	34.49	49.19	39.86	60.85	27.26	92.02	70.39	28.71	44.77	60.68	46.79	92.12
1316	-11.89	2.50	15.47	45.07	47.71	39.10	76.58	30.97	92.43	96.88	32.14	42.82	76.48	55.20	92.40
1317	-10.94	2.50	15.47	55.96	46.48	38.52	94.08	35.68	97.60	123.27	34.80	42.90	94.04	63.99	97.51
1318	-9.99	2.50	15.47	66.58	45.55	38.42	113.40	41.25	108.90	147.70	36.61	46.03	113.38	73.43	108.79
1319	-9.04	2.50	15.47	75.17	44.76	38.96	133.03	47.33	129.26	165.86	37.44	54.18	133.03	82.43	129.16
1320	-8.09	2.50	15.47	77.61	43.08	39.00	144.90	52.53	161.57	168.91	36.77	68.64	144.95	85.18	161.52
1321	-7.14	2.50	15.47	67.15	36.22	33.60	111.60	55.39	181.50	140.63	33.77	67.48	111.73	62.87	181.61
1322	-6.18	2.50	15.47	85.95	30.39	28.19	118.53	61.00	189.26	175.88	27.20	44.48	118.81	49.30	189.77
1323	-5.23	2.50	15.47	66.54	22.82	26.99	72.77	76.62	196.95	160.20	24.55	21.70	73.01	70.29	198.08
1324	-4.28	2.50	15.47	40.83	17.53	21.53	35.35	80.06	169.95	135.05	24.81	16.81	35.36	73.05	171.67
1325	-3.33	2.50	15.47	29.83	14.78	19.81	26.71	74.02	132.91	124.90	26.23	19.43	26.80	62.96	135.00
1326	-2.38	2.50	15.47	26.14	13.96	17.79	23.32	68.28	103.18	122.62	28.34	19.00	23.71	54.51	105.52
1327	-1.43	2.50	15.47	24.84	12.92	15.74	21.91	64.80	78.02	123.39	30.28	17.72	22.68	54.54	80.92
1328	-0.48	2.50	15.47	24.34	12.03	15.76	21.50	62.98	55.42	125.00	32.27	17.54	22.66	62.86	59.75
1329	-14.64	3.10	15.47	17.54	52.07	41.67	35.09	27.37	104.55	22.63	20.60	51.92	34.27	33.85	105.43
1330	-13.70	3.10	15.47	28.26	50.10	40.65	46.67	28.62	95.58	46.75	24.01	48.01	46.20	41.35	96.03
1331	-12.75	3.10	15.47	39.72	48.48	39.91	60.09	31.19	91.26	72.72	27.74	44.63	59.82	49.14	91.40
1332	-11.81	3.10	15.47	51.84	47.24	39.17	75.01	35.05	91.40	99.52	31.42	42.72	74.86	57.21	91.35
1333	-10.86	3.10	15.47	64.59	46.57	38.65	91.63	40.16	96.18	126.38	34.83	42.81	91.56	65.88	96.03
1334	-9.92	3.10	15.47	77.31	46.62	38.70	110.06	46.47	106.96	151.51	37.96	45.89	110.04	75.41	106.78
1335	-8.97	3.10	15.47	87.92	47.31	39.58	128.92	53.59	126.72	170.58	40.74	53.86	128.92	84.74	126.56
1336	-8.03	3.10	15.47	91.72	47.19	40.09	140.69	59.77	158.59	174.83	42.05	67.62	140.76	88.24	158.50
1337	-7.08	3.10	15.47	79.14	40.24	34.38	108.20	62.18	178.57	147.02	38.88	65.43	108.36	68.26	178.72
1338	-6.14	3.10	15.47	102.64	34.42	29.16	116.57	68.66	187.25	186.54	32.55	44.75	116.90	59.28	187.94
1339	-5.20	3.10	15.47	72.87	31.23	29.80	63.54	88.35	191.50	158.83	35.05	25.90	63.62	82.92	192.83
1340	-4.25	3.10	15.47	46.19	28.66	23.35	30.75	91.24	160.41	134.72	37.43	18.77	31.00	84.49	162.22
1341	-3.31	3.10	15.47	33.63	18.96	19.46	21.11	85.87	125.52	124.46	33.51	18.43	22.14	75.90	127.69
1342	-2.36	3.10	15.47	28.40	15.87	17.06	17.53	80.41	97.52	121.24	33.80	18.60	19.17	68.83	99.99
1343	-1.42	3.10	15.47	26.09	15.17	15.80	16.41	76.92	73.97	121.27	35.84	18.62	18.32	68.33	77.02
1344	-0.47	3.10	15.47	24.87	15.19	16.49	16.51	75.03	53.21	122.49	38.57	19.07	18.36	74.44	57.66
1345	-15.16	2.50	13.78	16.28	54.46	71.51	41.77	33.18	149.94	23.60	16.99	98.77	41.48	44.18	150.38
1346	-14.18	2.50	13.78	22.39	51.88	69.77	47.27	36.73	142.13	44.10	19.83	87.04	47.02	53.55	142.40
1347	-13.21	2.50													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
1373	-3.40	3.10	13.78	45.09	20.78	40.31	28.59	90.33	138.38	164.40	38.30	45.66	28.86	58.50	139.61
1374	-2.43	3.10	13.78	39.71	18.93	37.62	21.43	90.25	119.01	166.03	40.36	48.00	22.46	63.38	120.59
1375	-1.46	3.10	13.78	36.62	17.94	36.01	17.67	89.58	99.32	169.10	42.83	49.24	19.76	71.57	101.36
1376	-0.49	3.10	13.78	35.23	17.62	35.38	16.09	88.86	80.41	173.43	45.58	49.25	19.25	83.52	83.22
1377	-15.58	2.50	12.09	17.71	57.23	103.90	46.77	42.23	181.76	26.56	18.59	146.62	46.62	55.72	182.06
1378	-14.57	2.50	12.09	21.57	54.14	101.18	48.05	47.90	175.37	45.17	19.47	127.34	47.86	63.44	175.58
1379	-13.57	2.50	12.09	25.55	51.19	98.47	50.53	54.15	170.53	63.41	21.67	112.53	50.33	69.38	170.64
1380	-12.56	2.50	12.09	29.29	48.40	95.44	53.70	60.60	167.72	80.46	24.59	101.25	53.52	73.02	167.76
1381	-11.56	2.50	12.09	32.57	45.74	92.04	56.91	67.08	167.00	95.83	27.75	92.68	56.75	73.93	166.98
1382	-10.55	2.50	12.09	35.33	43.18	88.32	59.34	73.48	168.05	109.24	30.85	85.96	59.20	71.57	168.01
1383	-9.55	2.50	12.09	37.66	40.66	84.32	60.18	79.71	170.17	120.99	33.68	80.07	60.06	65.58	170.13
1384	-8.54	2.50	12.09	39.76	38.12	80.04	59.10	85.64	172.57	132.32	36.05	74.39	58.98	56.78	172.56
1385	-7.54	2.50	12.09	40.98	35.40	75.48	54.56	91.08	173.67	142.22	38.14	68.66	54.45	46.03	173.70
1386	-6.53	2.50	12.09	42.68	32.62	70.73	49.22	95.78	172.44	154.48	39.79	63.86	49.12	36.94	172.54
1387	-5.53	2.50	12.09	43.03	29.68	66.00	40.96	99.63	168.45	165.61	41.48	61.77	40.90	34.08	168.65
1388	-4.52	2.50	12.09	43.19	26.92	61.53	33.00	102.40	160.49	177.48	43.27	63.18	33.07	38.08	160.82
1389	-3.52	2.50	12.09	42.80	24.48	57.55	25.77	104.22	149.47	188.61	45.52	67.04	26.18	47.12	149.93
1390	-2.51	2.50	12.09	42.24	22.54	54.23	19.77	105.18	136.12	198.81	48.17	70.90	20.89	58.82	136.75
1391	-1.51	2.50	12.09	42.19	21.21	51.81	15.77	105.45	121.27	208.76	51.09	73.39	17.97	72.90	122.12
1392	-0.50	2.50	12.09	42.89	20.59	50.49	13.65	105.18	105.84	219.06	54.21	74.08	17.16	89.36	107.00
1393	-15.47	3.10	12.09	21.55	56.78	103.97	46.59	48.13	180.40	29.67	18.49	145.09	46.36	60.58	180.85
1394	-14.47	3.10	12.09	25.24	53.68	101.24	47.76	52.73	174.23	47.17	19.37	126.22	47.47	67.04	174.54
1395	-13.48	3.10	12.09	29.33	50.84	98.53	49.97	58.41	169.32	64.87	21.56	111.71	49.67	72.30	169.49
1396	-12.48	3.10	12.09	33.28	48.15	95.53	52.87	64.45	166.41	81.57	24.51	100.64	52.59	75.49	166.47
1397	-11.48	3.10	12.09	36.83	45.63	92.16	55.80	70.61	165.52	96.71	27.76	92.23	55.55	76.13	165.49
1398	-10.48	3.10	12.09	39.84	43.24	88.49	57.98	76.74	166.36	110.01	30.97	85.62	57.76	73.73	166.29
1399	-9.48	3.10	12.09	42.36	40.90	84.56	58.65	82.71	168.27	121.74	33.93	79.86	58.45	67.99	168.21
1400	-8.49	3.10	12.09	44.59	38.50	80.36	57.51	88.44	170.51	133.05	36.40	74.38	57.32	59.87	170.48
1401	-7.49	3.10	12.09	45.61	35.85	75.92	52.98	93.68	171.51	142.78	38.53	69.01	52.80	50.20	171.56
1402	-6.49	3.10	12.09	47.27	33.05	71.34	47.81	98.33	170.38	155.02	40.12	64.74	47.65	42.66	170.54
1403	-5.49	3.10	12.09	46.91	30.17	66.81	39.39	102.24	166.43	165.52	41.89	63.15	39.30	40.77	166.74
1404	-4.49	3.10	12.09	46.62	27.41	62.58	31.66	105.05	158.48	177.13	43.71	64.89	31.80	44.42	158.96
1405	-3.49	3.10	12.09	45.44	24.80	58.90	24.46	107.06	147.69	187.81	45.85	69.00	25.14	52.72	148.37
1406	-2.50	3.10	12.09	44.09	22.75	55.82	18.67	108.18	134.57	197.63	48.37	73.01	20.42	63.48	135.51
1407	-1.50	3.10	12.09	43.30	21.38	53.55	14.85	108.52	120.08	207.28	51.18	75.60	18.19	76.52	121.35
1408	-0.50	3.10	12.09	43.35	20.81	52.31	12.86	108.24	105.01	217.28	54.25	76.37	18.01	91.87	106.75
1409	-15.99	2.50	10.41	19.09	60.01	139.60	50.69	51.27	204.93	29.28	22.71	192.82	50.65	66.17	205.13
1410	-14.96	2.50	10.41	21.67	56.58	135.32	49.22	59.16	200.05	47.31	21.95	166.98	49.09	72.05	200.20
1411	-13.93	2.50	10.41	24.56	53.33	130.87	48.60	67.49	195.68	65.06	22.56	145.61	48.42	76.00	195.76
1412	-12.89	2.50	10.41	27.43	50.25	126.10	48.50	75.77	192.34	81.77	24.25	128.34	48.29	77.52	192.38
1413	-11.86	2.50	10.41	30.07	47.31	120.98	48.51	83.77	190.09	97.23	26.65	114.68	48.28	76.22	190.08
1414	-10.83	2.50	10.41	32.43	44.50	115.53	48.17	91.43	188.73	111.53	29.40	104.01	47.95	71.95	188.71
1415	-9.80	2.50	10.41	34.55	41.78	109.85	47.08	98.69	187.90	125.00	32.27	95.77	46.87	64.87	187.87
1416	-8.77	2.50	10.41	36.43	39.13	104.00	44.84	105.48	187.01	137.92	35.13	89.57	44.64	55.43	187.00
1417	-7.74	2.50	10.41	38.29	36.54	98.05	41.54	111.65	185.48	151.22	37.88	85.45	41.37	44.97	185.49
1418	-6.71	2.50	10.41	39.91	33.98	92.09	36.90	117.05	182.64	164.67	40.59	83.70	36.77	35.86	182.68
1419	-5.67	2.50	10.41	41.54	31.53	86.25	31.73	121.53	177.94	179.07	43.30	84.57	31.73	32.06	178.04
1420	-4.64	2.50	10.41	42.99	29.22	80.71	26.18	125.03	171.29	193.83	46.13	87.75	26.46	36.56	171.46
1421	-3.61	2.50	10.41	44.41	27.15	75.68	21.01	127.52	162.68	209.05	49.11	92.22	21.85	47.28	162.93
1422	-2.58	2.50	10.41	45.89	25.45	71.43	16.69	129.07	152.46	224.54	52.28	96.73	18.54	61.39	152.82
1423	-1.55	2.50	10.41	47.59	24.21	68.23	13.47	129.74	141.09	240.33	55.63	100.16	16.87	77.67	141.59
1424	-0.52	2.50	10.41	49.66	23.54	66.33	11.52	129.63	129.04	256.64	59.10	101.80	16.82	95.84	129.73
1425	-15.89	3.10	10.41	22.89	59.75	139.65	50.31	56.88	203.42	32.37	22.77	190.66	50.24	70.66	203.73
1426	-14.86	3.10	10.41	25.12	56.28	135.38	48.87	63.60	198.77	49.21	22.04	165.38	48.68	75.43	198.99
1427	-13.84	3.10	10.41	27.90	53.11	130.95	48.11	71.28	194.36	66.38	22.68	144.47	47.84	78.76	194.49
1428	-12.81	3.10	10.41	30.72	50.10	126.22	47.87	79.05	190.99	82.68	24.39	127.60	47.54	79.87	191.03
1429	-11.79	3.10	10.41	33.35	47.24	121.15	47.72	86.66	188.65	97.85	26.79	114.27	47.38	78.34	188.64
1430	-10.76	3.10	10.41	35.71	44.50	115.77	47.26	93.99	187.18	111.95	29.56	103.89	46.91	74.04	187.14
1431	-9.74	3.10	10.41	37.79	41.87	110.16	46.07	100.98	186.24	125.27	32.44	95.96	45.74	67.16	186.19
1432	-8.71	3.10	10.41	39.59	39.28	104.41	43.79	107.51	185.25	138.05	35.29	90.10	43.47	58.18	185.23
1433	-7.69	3.10	10.41	41.32	36.72	98.58	40.51	113.47	183.68	151.21	38.01	86.36	40.23	48.53	183.70
1434	-6.66	3.10	10.41	42.66	34.16	92.78	35.89	118.69	180.85	164.42	40.68	84.99	35.69	40.43	180.92
1435	-5.64	3.10	10.41	44.01	31.65	87.15	30.86	123.06	176.22	178.60	43.30	86.19	30.85	37.20	176.38
1436	-4.61	3.10	10.41	45.03	29.26	81.86	25.41	126.50	169.73	193.03	46.02	89.62	25.81	41.15	169.99
1437	-3.59	3.10	10.41	46.02	27.14	77.11	20.39	128.97	161.29	207.94	48.90	94.22	21.63	50.78	161.68
1438	-2.56	3.10	10.41	47.02	25.38	73.14	16.20	130.51	151.26	223.09	51.98	98.84	18.93	63.91	151.82
1439	-1.54	3.10	10.41	48.23	24.14	70.19	13.12	131.18	140.08	238.53	55.27	102.37	18.02	79.32	140.85
1440	-0.51	3.10	10.41	49.87	23.49	68.48	11.31	131.05	128.22	254.46	58.70	104.13	18.74	96.70	129.27
1441	-16.40	2.50	8.72	20.61	62.42	178.73	53.93	60.85	222.59	32.02	27.68	237.80	53.97	76.54	222.74
1442	-15.34	2.50	8.72	22.58	58.76	172.26	50.84	70.81	219.09	50.19	25.90	205.62	50.79	81.11	219.18
1443	-14.29	2.50	8.72	24.96	55.31	165.59	48.33	81.01	215.45	68.31	25.16	177.79	48.18	83.40	215.50
1444	-13.23	2.50	8.72	27.50	52.07	158.69	46.22	90.97	212.21	85.55	25.46	154.59	46.00		



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
1471	-1.58	3.10	8.72	52.26	26.38	86.24	11.46	155.46	159.95	262.67	56.29	130.03	18.25	78.44	160.37
1472	-0.53	3.10	8.72	55.14	25.68	83.97	9.95	155.45	150.44	283.94	59.94	132.71	19.79	96.39	151.04
1473	-16.82	2.50	7.03	22.36	64.29	220.84	56.81	71.13	236.86	34.81	33.17	282.78	56.94	87.32	236.98
1474	-15.73	2.50	7.03	24.17	60.46	211.72	52.82	82.91	234.52	53.66	30.84	243.78	52.83	91.25	234.57
1475	-14.65	2.50	7.03	26.41	56.90	202.41	49.19	94.66	231.67	72.56	29.11	209.05	49.08	92.20	231.67
1476	-13.56	2.50	7.03	28.84	53.56	193.01	45.86	106.01	228.84	90.42	28.10	179.75	45.64	90.16	228.80
1477	-12.48	2.50	7.03	31.22	50.40	183.57	42.72	116.80	226.12	107.03	27.88	156.66	42.41	85.32	226.06
1478	-11.39	2.50	7.03	33.43	47.40	174.10	39.62	126.98	223.50	122.49	28.45	140.07	39.25	78.05	223.42
1479	-10.31	2.50	7.03	35.47	44.55	164.62	36.45	136.54	220.87	137.16	29.75	129.75	36.06	68.85	220.79
1480	-9.22	2.50	7.03	37.38	41.83	155.14	33.11	145.42	218.06	151.49	31.65	124.93	32.75	58.41	217.99
1481	-8.14	2.50	7.03	39.25	39.24	145.70	29.58	153.53	214.89	166.00	34.04	124.53	29.31	47.75	214.83
1482	-7.05	2.50	7.03	41.18	36.80	136.41	25.88	160.76	211.14	181.15	36.82	127.35	25.79	38.62	211.10
1483	-5.97	2.50	7.03	43.26	34.53	127.41	22.12	166.98	206.67	197.39	39.91	132.26	22.39	33.92	206.65
1484	-4.88	2.50	7.03	45.59	32.46	118.92	18.44	172.11	201.37	215.02	43.26	138.32	19.37	26.43	201.37
1485	-3.80	2.50	7.03	48.23	30.63	111.22	15.03	176.05	195.22	234.37	46.83	144.68	17.12	19.49	195.26
1486	-2.71	2.50	7.03	51.28	29.11	104.66	12.10	178.77	188.30	255.67	50.56	150.64	16.00	13.49	188.37
1487	-1.63	2.50	7.03	54.80	27.96	99.63	9.81	180.24	180.75	279.22	54.40	155.60	16.19	7.86	180.87
1488	-0.54	2.50	7.03	58.84	27.26	96.48	8.28	180.46	172.76	305.33	58.25	159.07	17.51	1.02	172.94
1489	-16.72	3.10	7.03	25.78	64.37	220.96	56.26	75.60	235.36	37.67	33.36	279.79	56.45	90.71	235.52
1490	-15.64	3.10	7.03	27.11	60.47	211.91	52.41	86.38	233.19	55.39	31.05	241.56	52.42	93.80	233.26
1491	-14.56	3.10	7.03	29.09	56.94	202.66	48.77	97.54	230.31	73.69	29.37	207.60	48.60	94.33	230.30
1492	-13.49	3.10	7.03	31.29	53.62	193.33	45.44	108.44	227.48	91.13	28.41	179.03	45.09	92.02	227.42
1493	-12.41	3.10	7.03	33.48	50.48	183.96	42.28	118.85	224.75	107.43	28.23	156.60	41.80	87.05	224.65
1494	-11.33	3.10	7.03	35.52	47.50	174.58	39.17	128.72	222.10	122.66	28.82	140.59	38.60	79.77	222.98
1495	-10.25	3.10	7.03	37.40	44.66	165.20	36.00	138.00	219.43	137.14	30.11	130.74	35.39	70.69	219.31
1496	-9.17	3.10	7.03	39.15	41.95	155.84	32.68	146.63	216.59	151.30	31.98	126.30	32.10	60.50	216.49
1497	-8.09	3.10	7.03	40.86	39.37	146.56	29.19	154.52	213.40	165.65	34.32	126.16	28.74	50.22	213.31
1498	-7.01	3.10	7.03	42.61	36.93	137.46	25.55	161.54	209.65	180.61	37.03	129.16	25.38	41.51	209.59
1499	-5.93	3.10	7.03	44.49	34.64	128.69	21.87	167.60	205.20	196.63	40.04	134.19	22.24	36.95	205.18
1500	-4.85	3.10	7.03	46.58	32.54	120.46	18.30	172.59	199.95	214.01	43.30	140.31	19.65	38.96	199.97
1501	-3.78	3.10	7.03	48.98	30.68	113.05	15.04	176.42	193.89	233.04	46.78	146.72	18.03	47.19	193.95
1502	-2.70	3.10	7.03	51.77	29.13	106.80	12.29	179.05	187.07	253.98	50.42	152.71	17.73	59.45	187.19
1503	-1.62	3.10	7.03	55.03	27.95	102.06	10.24	180.46	179.64	277.10	54.18	157.70	18.77	74.23	179.82
1504	-0.54	3.10	7.03	58.81	27.23	99.15	8.98	180.64	171.77	302.70	57.96	161.21	20.90	90.90	172.05
1505	-17.23	2.50	5.34	24.65	65.46	265.45	59.50	82.23	249.18	38.59	39.60	329.22	59.71	99.07	249.28
1506	-16.12	2.50	5.34	26.61	61.57	253.20	55.15	95.54	247.77	58.64	36.99	281.98	55.23	103.02	247.78
1507	-15.01	2.50	5.34	28.91	57.95	240.79	50.94	108.42	245.58	78.24	34.50	239.07	50.86	102.37	245.53
1508	-13.90	2.50	5.34	31.28	54.56	228.58	46.86	120.77	243.21	96.38	32.35	203.10	46.64	98.03	243.12
1509	-12.78	2.50	5.34	33.45	51.35	216.69	42.90	132.57	240.79	112.67	30.69	175.51	42.57	90.69	240.68
1510	-11.67	2.50	5.34	35.34	48.28	205.08	39.04	143.86	238.32	127.31	29.65	156.86	38.63	81.22	238.20
1511	-10.56	2.50	5.34	36.99	45.36	193.66	35.22	154.62	235.75	140.81	29.36	146.62	34.79	70.46	235.65
1512	-9.45	2.50	5.34	38.51	42.58	182.33	31.42	164.74	233.00	153.83	29.86	143.29	31.02	59.26	232.90
1513	-8.34	2.50	5.34	40.03	39.94	171.06	27.62	174.08	229.92	167.03	31.12	144.91	27.35	48.65	229.84
1514	-7.23	2.50	5.34	41.66	37.46	159.93	23.86	182.49	226.40	181.03	33.04	149.66	23.84	40.15	226.33
1515	-6.11	2.50	5.34	43.54	35.17	149.10	20.18	189.81	222.33	196.37	35.53	156.10	20.62	35.95	222.28
1516	-5.00	2.50	5.34	45.79	33.08	138.84	16.68	195.92	217.65	213.53	38.48	163.20	17.95	37.77	217.61
1517	-3.89	2.50	5.34	48.50	31.25	129.51	13.48	200.71	212.34	232.95	41.79	170.23	16.14	44.94	212.33
1518	-2.78	2.50	5.34	51.78	29.73	121.55	10.73	204.10	206.46	255.06	45.38	176.65	15.50	55.48	206.46
1519	-1.67	2.50	5.34	55.69	28.57	115.44	8.59	206.06	200.07	280.30	49.13	182.02	16.11	67.99	200.10
1520	-0.56	2.50	5.34	60.31	27.84	111.60	7.20	206.55	193.32	309.17	52.95	186.01	17.78	81.90	193.37
1521	-17.14	3.10	5.34	27.77	65.67	265.64	58.91	86.10	247.74	41.25	39.71	325.93	59.23	101.88	247.88
1522	-16.03	3.10	5.34	29.28	61.71	253.51	54.72	98.57	246.48	60.24	37.14	279.65	54.83	105.09	246.49
1523	-14.93	3.10	5.34	31.32	58.12	241.19	50.53	110.96	244.26	79.26	34.71	237.67	50.40	104.12	244.18
1524	-13.82	3.10	5.34	33.45	54.73	229.05	46.48	122.91	241.90	96.99	32.64	202.58	46.14	99.61	241.76
1525	-12.72	3.10	5.34	35.43	51.53	217.23	42.55	134.37	239.46	112.98	31.05	175.78	42.03	92.24	239.30
1526	-11.61	3.10	5.34	37.16	48.47	205.70	38.71	145.36	236.97	127.41	30.07	157.78	38.07	82.82	236.80
1527	-10.50	3.10	5.34	38.67	45.56	194.38	34.92	155.84	234.38	140.76	29.81	148.02	34.24	72.20	234.21
1528	-9.40	3.10	5.34	40.05	42.78	183.17	31.15	165.71	231.59	153.64	30.31	145.00	30.53	61.20	231.44
1529	-8.29	3.10	5.34	41.41	40.14	172.07	27.41	174.82	228.49	166.70	31.53	146.81	26.97	50.84	228.36
1530	-7.19	3.10	5.34	42.89	37.65	161.14	23.71	183.02	224.96	180.54	33.40	151.66	23.64	42.55	224.86
1531	-6.08	3.10	5.34	44.59	35.34	150.57	20.12	190.16	220.90	195.68	35.81	158.15	20.75	38.30	220.83
1532	-4.98	3.10	5.34	46.64	33.24	140.60	16.74	196.12	216.25	212.60	38.68	165.27	18.57	39.66	216.21
1533	-3.87	3.10	5.34	49.14	31.39	131.59	13.70	200.79	211.01	231.72	41.90	172.31	17.45	46.18	210.99
1534	-2.76	3.10	5.34	52.19	29.84	123.96	11.17	204.09	205.19	253.46	45.40	178.73	17.64	56.14	205.20
1535	-1.66	3.10	5.34	55.87	28.65	118.15	9.30	205.99	198.90	278.25	49.08	184.12	19.09	68.20	198.94
1536	-0.55	3.10	5.34	60.25	27.91	114.55	8.22	206.43	192.24	306.59	52.83	188.12	21.55	81.75	192.33
1537	0.45	3.95	17.16	6.47	4.96	19.78	12.06	127.53	7.26	48.83	11.21	25.13	13.24	132.95	42.42
1538	1.36	3.95	17.16	7.18	4.14	14.44	11.25	124.45	34.51	48.84	10.51	25.04	12.86	138.62	56.37
1539	2.26	3.95	17.16	8.21	5.85	9.65	12.42	124.04	71.75	49.92	11.53	28.80	14.98	150.09	86.25
1540	3.16	3.96	17.16	10.83	5.78	9.66	14.26	127.24	111.58	53.41	13.84	37.60	17.62	166.80	122.89
1541	4.07	3.96	17.16	17.41	7.38	11.42	16.53	132.26	157.19	59.64	17.78	46.83	20.13	185.58	166.93
1542	4.97	3.96	17.16	31.53	17.84	16.59	28.95	139.71	219.14	72.63					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
1569	0.43	6.15	17.16	49.86	16.98	7.56	2.87	138.47	10.16	67.23	36.67	16.63	2.86	139.57	39.19
1570	1.28	6.16	17.16	139.81	28.41	8.48	20.33	155.54	30.04	141.74	36.44	15.65	27.76	160.49	63.92
1571	2.13	6.16	17.16	10.16	11.13	13.56	2.17	198.99	79.33	44.59	19.14	15.14	7.20	209.94	107.70
1572	2.99	6.16	17.16	109.00	21.82	11.92	48.68	177.91	89.85	140.69	30.98	11.95	58.94	194.71	109.69
1573	3.84	6.17	17.16	13.55	12.22	14.07	18.01	178.00	128.41	46.16	13.58	15.95	22.55	200.67	146.67
1574	4.69	6.17	17.16	13.75	9.64	32.79	29.75	219.71	235.93	37.79	14.81	33.18	35.53	252.41	257.58
1575	5.54	6.18	17.16	226.07	278.75	46.19	98.06	203.78	285.60	271.59	298.87	46.23	101.74	245.01	303.86
1576	6.40	6.18	17.16	338.65	357.39	23.75	211.78	98.86	169.01	407.02	381.51	27.38	217.57	139.48	177.02
1577	7.25	6.18	17.16	231.73	158.29	17.06	160.21	51.08	49.49	285.07	174.56	23.29	164.50	89.37	51.49
1578	8.10	6.19	17.16	168.68	118.13	15.71	120.57	34.27	19.86	207.17	138.57	20.10	123.83	69.77	23.41
1579	8.96	6.19	17.16	124.85	93.26	14.63	94.32	24.27	10.88	148.70	118.15	18.28	96.70	56.30	18.72
1580	9.81	6.20	17.16	92.27	77.18	14.04	74.56	17.68	8.23	103.11	105.46	17.63	75.90	45.24	19.82
1581	10.66	6.20	17.16	67.32	65.38	13.84	58.42	13.06	7.91	68.29	94.92	17.70	58.56	34.92	21.68
1582	11.51	6.20	17.16	47.43	56.42	13.77	44.36	9.69	8.79	43.00	84.48	17.76	43.34	24.67	23.27
1583	12.37	6.21	17.16	30.74	49.78	13.56	31.74	7.44	11.00	25.73	73.36	16.61	30.09	14.96	24.41
1584	13.22	6.21	17.16	15.89	45.78	12.93	21.47	7.08	15.82	13.49	62.08	13.16	21.26	8.57	25.40
1585	0.41	7.25	17.16	66.26	19.33	10.01	2.60	173.78	7.99	79.17	25.87	18.75	2.60	174.25	42.49
1586	1.23	7.25	17.16	176.46	35.56	15.46	19.86	196.20	36.27	178.19	39.02	28.82	31.88	200.80	74.18
1587	2.05	7.25	17.16	10.40	13.49	15.07	1.38	246.56	84.27	42.77	22.13	31.59	7.90	253.60	119.49
1588	2.87	7.26	17.16	110.30	8.02	13.30	43.38	227.12	98.46	133.36	13.78	21.66	55.40	237.45	124.63
1589	3.69	7.26	17.16	39.50	16.74	35.48	21.99	256.73	157.60	46.33	20.57	43.64	22.13	275.73	181.57
1590	4.51	7.26	17.16	90.45	68.52	59.28	34.12	292.58	266.11	113.72	77.87	68.27	41.15	318.99	293.41
1591	5.33	7.26	17.16	464.17	197.15	21.08	239.44	183.67	212.19	518.23	214.83	21.19	261.58	204.49	231.02
1592	6.14	7.26	17.16	338.56	223.81	18.79	157.85	99.28	98.04	381.65	242.96	19.63	171.64	118.62	106.47
1593	6.96	7.27	17.16	242.91	185.02	16.49	131.03	54.82	47.62	279.83	201.04	18.13	139.92	77.12	53.16
1594	7.78	7.27	17.16	178.65	129.64	15.83	99.91	36.28	21.01	207.78	144.91	17.80	105.88	60.92	27.48
1595	8.60	7.27	17.16	133.09	101.34	14.80	78.51	26.19	11.95	153.06	118.26	16.83	82.61	50.99	21.81
1596	9.42	7.27	17.16	99.09	81.62	14.26	62.89	19.51	9.38	109.80	100.24	16.51	65.25	42.53	22.22
1597	10.24	7.27	17.16	72.73	66.83	14.05	50.20	14.80	9.17	75.52	86.25	16.62	50.71	34.32	23.82
1598	11.06	7.27	17.16	51.60	55.17	13.98	39.19	11.42	10.16	49.09	73.78	16.69	37.85	25.97	25.38
1599	11.88	7.28	17.16	33.94	46.29	13.81	29.51	9.27	12.41	29.52	61.94	15.87	26.83	17.94	26.61
1600	12.70	7.28	17.16	18.49	40.74	13.28	22.15	9.10	17.02	15.23	50.99	13.45	20.21	12.24	27.87
1601	0.47	3.95	15.47	24.13	16.41	20.18	19.29	95.53	34.39	120.79	37.01	25.25	22.58	103.02	44.04
1602	1.40	3.95	15.47	24.47	15.16	20.19	18.84	93.59	15.49	122.23	38.18	21.84	23.09	112.52	36.11
1603	2.33	3.95	15.47	26.55	14.81	22.06	21.18	94.21	12.89	125.06	40.64	20.83	26.87	126.86	40.63
1604	3.26	3.96	15.47	31.91	16.54	22.35	26.45	96.61	35.24	130.59	46.26	20.27	33.34	143.05	55.51
1605	4.19	3.96	15.47	42.85	23.14	22.32	35.50	96.72	60.76	139.72	54.66	22.12	42.80	155.39	76.01
1606	5.12	3.96	15.47	61.85	36.86	24.98	56.99	90.46	87.23	155.34	65.32	33.77	63.92	160.02	98.69
1607	6.05	3.96	15.47	90.82	54.85	31.68	103.17	71.90	83.36	183.11	79.07	62.24	109.30	152.00	91.88
1608	6.98	3.96	15.47	69.04	58.50	40.90	90.19	64.79	73.92	147.03	86.98	81.62	94.17	166.03	80.61
1609	7.91	3.96	15.47	79.20	64.66	45.34	116.11	59.20	57.18	165.40	93.01	84.30	119.03	178.55	63.87
1610	8.84	3.96	15.47	74.35	61.63	43.96	104.44	50.18	31.67	155.17	93.95	75.17	106.26	167.37	41.84
1611	9.78	3.97	15.47	63.09	57.87	42.49	86.51	41.30	17.93	131.30	92.79	71.09	87.65	148.37	34.69
1612	10.71	3.97	15.47	50.63	54.93	41.93	69.19	33.68	12.82	102.81	89.70	71.21	69.86	125.96	35.27
1613	11.64	3.97	15.47	38.73	53.25	41.79	53.37	27.15	12.20	74.11	84.86	72.62	53.58	101.24	37.46
1614	12.57	3.97	15.47	27.88	52.72	41.39	38.98	21.46	13.89	47.72	78.37	71.63	38.59	75.07	39.22
1615	13.50	3.97	15.47	18.09	53.11	40.05	26.07	16.65	18.10	25.42	70.72	63.42	24.75	48.91	40.56
1616	14.43	3.97	15.47	9.28	54.23	37.14	15.88	12.90	25.60	9.84	62.76	43.68	13.09	24.67	43.04
1617	0.45	5.05	15.47	22.74	14.11	20.96	13.89	131.42	33.24	115.61	30.42	33.91	18.84	135.65	50.40
1618	1.36	5.06	15.47	25.28	15.41	17.69	10.65	122.10	12.21	119.59	35.47	26.95	18.28	134.86	43.15
1619	2.27	5.06	15.47	26.77	20.76	20.12	9.93	116.76	18.95	121.04	43.33	22.52	18.74	140.70	49.35
1620	3.18	5.06	15.47	30.41	21.46	21.82	18.13	123.96	48.58	123.61	44.79	20.31	27.19	159.96	70.28
1621	4.09	5.07	15.47	51.09	23.48	23.74	36.05	125.24	77.25	141.40	46.26	20.93	45.43	172.53	94.74
1622	5.00	5.07	15.47	88.33	45.78	28.12	61.34	110.11	92.59	173.67	67.02	28.26	70.00	167.12	106.88
1623	5.91	5.07	15.47	111.15	78.54	32.42	94.77	80.96	73.42	193.33	99.56	46.40	102.49	146.21	84.70
1624	6.82	5.08	15.47	74.56	74.37	40.77	74.59	71.38	64.27	145.81	98.20	65.27	79.56	154.67	74.09
1625	7.73	5.08	15.47	93.59	75.87	47.07	104.22	66.55	52.66	167.78	99.25	73.65	108.61	165.50	63.14
1626	8.64	5.08	15.47	85.80	70.78	45.29	92.59	55.79	29.80	155.12	96.76	68.38	95.42	156.02	44.95
1627	9.54	5.09	15.47	72.03	63.42	43.53	77.06	45.68	18.54	131.28	91.34	65.92	78.93	140.12	40.92
1628	10.45	5.09	15.47	57.48	57.66	42.70	62.14	37.19	14.96	103.75	85.75	66.39	63.29	120.99	42.85
1629	11.36	5.10	15.47	43.86	53.74	42.40	48.53	30.12	14.95	76.09	79.60	67.78	48.91	99.48	45.66
1630	12.27	5.10	15.47	31.62	51.56	42.00	36.18	24.18	16.87	50.41	72.71	67.09	35.56	76.37	47.77
1631	13.18	5.10	15.47	20.77	50.89	40.81	25.30	19.34	21.04	28.27	65.34	60.26	23.18	52.90	49.15
1632	14.09	5.11	15.47	11.25	51.42	38.28	17.23	15.60	28.15	12.05	57.96	43.94	12.99	30.50	51.01
1633	0.44	6.15	15.47	22.30	15.73	23.13	3.94	165.49	29.99	110.24	34.97	42.79	13.72	167.24	58.21
1634	1.32	6.16	15.47	31.99	18.71	20.88	3.61	147.66	9.50	118.84	39.18	38.16	18.87	155.83	52.70
1635	2.20	6.16	15.47	27.13	27.13	23.58	5.30	134.66	22.69	118.71	46.71	33.51	19.15	151.13	58.50
1636	3.09	6.16	15.47	28.89	33.85	26.39	6.13	148.34	54.57	116.76	52.71	31.17	19.18	174.28	81.60
1637	3.97	6.17	15.47	68.99	56.30	26.80	23.60	147.33	83.50	149.03	74.97	28.23	35.54	182.25	105.91
1638	4.85	6.17	15.47	108.81	83.01	30.62	48.31	122.65	93.62	184.47	101.93	29.25	58.88	164.24	112.76
1639	5.73	6.18	15.47	109.89	62.08	36.22	77.87	100.36	82.26	179.87	80.21	38.86	88.67	150.30	98.72
1640	6.61	6.18	15.47	102.78	61.34	42.96	83.23	84.47	68.36	167.09	79.54	52.82	92.18	149.32	82.83
1641	7.49	6.18	15.47	108.32	89.97	46.40	89.								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
1667	2.40	3.95	13.78	37.86	23.35	40.03	17.30	96.17	25.73	187.11	56.99	45.38	25.83	135.18	43.56
1668	3.35	3.96	13.78	41.71	27.00	42.17	23.25	94.13	9.92	193.50	61.26	41.82	32.32	150.04	39.41
1669	4.31	3.96	13.78	47.49	31.65	45.21	33.24	90.75	10.72	199.49	65.80	41.89	42.37	163.34	41.20
1670	5.27	3.96	13.78	52.99	37.06	50.09	45.47	85.30	16.58	202.14	71.14	51.64	54.10	175.44	42.56
1671	6.23	3.96	13.78	51.70	41.45	55.06	50.93	80.28	19.88	195.34	76.24	66.70	58.17	192.24	43.09
1672	7.19	3.96	13.78	54.93	45.88	60.06	62.74	74.21	18.18	195.98	79.65	83.07	69.28	206.19	41.83
1673	8.15	3.96	13.78	50.71	47.44	64.24	61.59	68.19	14.35	184.01	81.16	97.73	67.05	215.33	41.09
1674	9.10	3.96	13.78	47.49	48.68	67.28	60.28	62.36	12.21	172.41	80.72	110.70	64.91	218.61	42.62
1675	10.06	3.97	13.78	42.73	49.20	69.20	54.36	56.12	12.02	153.88	78.48	122.15	58.43	211.10	45.66
1676	11.02	3.97	13.78	36.41	49.88	70.72	46.04	49.59	12.99	128.57	74.63	133.67	49.72	194.15	49.18
1677	11.98	3.97	13.78	29.25	51.08	71.72	36.98	42.91	13.86	98.91	69.37	142.90	40.25	169.13	52.02
1678	12.94	3.97	13.78	21.89	52.88	71.58	28.08	36.08	15.37	68.04	63.07	144.96	30.64	137.00	53.83
1679	13.89	3.97	13.78	14.86	55.19	69.53	20.03	29.03	19.17	40.40	56.04	134.09	21.13	99.03	54.84
1680	14.85	3.97	13.78	8.46	57.86	64.98	13.79	21.59	26.05	18.66	49.07	106.11	12.11	55.64	56.12
1681	0.47	5.05	13.78	35.09	19.76	42.47	9.43	115.78	59.88	171.40	48.46	60.17	20.11	118.78	69.83
1682	1.41	5.06	13.78	34.88	21.91	42.05	10.79	113.63	42.10	176.00	52.05	56.46	23.08	129.13	57.39
1683	2.34	5.06	13.78	37.39	24.63	42.65	13.83	110.84	25.07	181.81	55.89	51.96	27.43	140.63	49.14
1684	3.28	5.06	13.78	42.96	29.94	44.72	19.27	106.19	11.03	188.82	61.76	47.69	33.25	151.03	46.45
1685	4.22	5.07	13.78	50.02	37.56	48.51	27.72	100.51	10.56	194.40	69.16	46.49	41.26	160.79	48.01
1686	5.15	5.07	13.78	54.93	42.56	53.74	38.35	93.78	16.32	195.73	73.53	52.30	51.09	170.77	49.82
1687	6.09	5.07	13.78	55.27	44.09	58.79	45.11	87.86	21.52	191.05	74.64	63.40	56.69	185.00	52.13
1688	7.03	5.08	13.78	61.39	49.78	63.22	57.28	80.50	19.28	192.76	78.97	76.39	67.36	195.82	50.92
1689	7.96	5.08	13.78	55.09	51.84	66.65	54.61	72.88	15.53	179.27	80.62	89.04	63.20	202.71	50.42
1690	8.90	5.08	13.78	51.67	51.96	69.43	53.77	66.42	14.74	167.37	79.16	101.43	61.25	205.83	52.91
1691	9.84	5.09	13.78	46.35	51.24	70.92	48.72	59.61	15.28	149.52	76.04	112.31	55.37	199.98	56.61
1692	10.77	5.09	13.78	39.46	50.62	72.07	41.67	52.67	16.40	125.86	71.50	123.03	47.65	185.82	60.63
1693	11.71	5.09	13.78	31.81	50.75	72.85	34.03	45.77	17.53	98.32	65.93	131.70	39.22	164.24	63.93
1694	12.65	5.10	13.78	24.04	51.74	72.72	26.60	38.90	19.43	69.49	59.65	134.27	30.51	135.90	66.08
1695	13.58	5.10	13.78	16.72	53.51	71.00	20.07	31.93	23.31	43.25	52.93	125.86	21.61	101.79	67.13
1696	14.52	5.10	13.78	10.05	55.79	67.19	15.39	24.52	29.87	21.89	46.42	103.10	13.02	61.91	67.82
1697	0.46	6.15	13.78	35.05	19.75	47.69	6.65	132.81	58.38	166.50	46.83	69.89	21.13	132.35	72.57
1698	1.37	6.16	13.78	33.88	23.43	46.50	7.11	130.03	40.39	170.21	51.13	66.04	23.75	139.44	61.44
1699	2.28	6.16	13.78	37.15	28.17	46.32	8.57	126.07	23.04	175.85	56.20	61.44	27.68	147.32	54.83
1700	3.19	6.16	13.78	45.16	35.18	48.53	14.05	117.67	11.00	184.08	62.91	57.01	33.75	151.61	53.36
1701	4.10	6.17	13.78	51.38	40.80	53.33	21.93	110.05	12.43	187.84	67.87	54.88	40.54	157.38	55.22
1702	5.01	6.17	13.78	56.20	44.98	58.23	31.39	103.20	17.84	188.30	71.21	56.32	48.67	165.96	57.33
1703	5.92	6.17	13.78	61.29	55.61	63.08	38.18	94.48	20.69	188.12	80.70	62.51	53.72	174.35	58.77
1704	6.83	6.18	13.78	62.85	59.53	66.97	45.28	86.75	19.34	184.07	83.74	71.49	59.09	182.86	58.96
1705	7.74	6.18	13.78	58.80	55.02	69.81	47.08	78.30	17.67	173.29	78.42	81.55	59.50	188.75	59.84
1706	8.65	6.18	13.78	55.05	54.94	71.70	46.25	70.91	17.46	161.22	77.02	91.67	57.27	191.27	62.31
1707	9.56	6.19	13.78	49.16	52.99	72.76	42.29	63.48	18.33	144.18	72.97	101.40	52.12	187.04	66.07
1708	10.47	6.19	13.78	41.84	51.16	73.57	36.72	56.21	19.55	122.43	67.81	111.02	45.43	175.92	70.17
1709	11.38	6.20	13.78	33.90	50.23	74.14	30.68	49.18	20.94	97.35	61.99	119.01	38.01	158.21	73.64
1710	12.29	6.20	13.78	25.96	50.38	74.05	24.91	42.34	23.18	70.96	55.79	122.13	30.17	134.22	76.01
1711	13.20	6.20	13.78	18.53	51.47	72.70	20.06	35.52	27.22	46.50	49.40	116.51	21.93	104.62	77.23
1712	14.11	6.21	13.78	11.81	53.30	69.71	16.92	28.33	33.56	25.83	43.50	99.43	13.89	69.33	77.72
1713	0.44	7.25	13.78	35.20	20.15	53.15	11.92	148.71	56.15	161.08	46.64	80.74	24.12	145.22	75.22
1714	1.32	7.25	13.78	32.74	25.84	51.73	11.35	144.98	38.47	164.29	51.51	77.38	26.39	149.08	65.73
1715	2.20	7.25	13.78	37.40	32.90	51.51	9.76	138.97	22.42	169.86	57.81	73.48	29.62	152.36	60.85
1716	3.07	7.26	13.78	47.08	41.25	54.28	9.44	127.03	12.73	178.21	64.87	69.76	33.75	150.65	59.97
1717	3.95	7.26	13.78	50.64	49.46	60.28	13.24	117.53	13.90	179.52	71.77	67.52	37.11	152.09	62.24
1718	4.83	7.26	13.78	55.44	54.51	64.23	20.37	112.56	19.66	179.21	75.89	65.56	42.81	160.43	65.80
1719	5.71	7.26	13.78	67.27	57.84	68.02	32.61	101.33	19.94	184.00	78.26	66.38	53.22	163.18	65.81
1720	6.59	7.26	13.78	62.48	58.95	71.39	34.71	91.96	19.22	174.10	78.50	70.70	53.48	168.41	65.87
1721	7.47	7.26	13.78	60.75	59.61	73.53	38.03	83.99	19.69	165.73	78.06	76.86	54.91	174.11	67.90
1722	8.34	7.27	13.78	56.89	57.29	74.39	37.76	75.79	20.06	153.98	74.50	83.56	52.94	176.06	70.41
1723	9.22	7.27	13.78	50.73	54.28	74.84	35.20	67.81	21.10	138.07	69.64	91.04	48.73	173.26	73.82
1724	10.10	7.27	13.78	43.27	51.39	75.26	31.35	60.26	22.40	118.42	63.93	98.95	43.11	165.06	77.57
1725	10.98	7.27	13.78	35.32	49.50	75.62	27.08	53.17	24.02	96.01	57.90	105.94	36.64	151.29	80.93
1726	11.86	7.27	13.78	27.46	48.84	75.54	23.08	46.43	26.55	72.32	51.82	109.46	29.61	131.93	83.42
1727	12.73	7.27	13.78	20.15	49.30	74.56	19.96	39.83	30.71	49.94	45.78	106.59	22.00	107.29	84.80
1728	13.61	7.28	13.78	13.52	50.43	72.41	18.33	32.88	36.98	30.15	40.32	95.32	14.61	76.89	85.82
1729	0.49	8.35	12.09	44.17	21.32	55.59	11.40	112.56	88.96	223.99	56.91	79.85	21.52	111.73	92.79
1730	1.48	8.35	12.09	45.21	22.60	56.57	12.43	111.07	74.55	234.13	60.33	76.97	24.50	128.88	79.98
1731	2.46	8.35	12.09	47.08	24.63	58.63	14.91	108.94	60.96	244.15	63.86	72.43	28.38	147.19	68.66
1732	3.45	8.35	12.09	49.40	27.37	61.78	18.81	106.16	48.96	253.21	67.47	67.24	33.06	166.50	59.62
1733	4.43	8.36	12.09	51.46	30.51	65.98	23.76	102.76	39.32	260.19	70.85	63.95	38.23	187.12	53.42
1734	5.42	8.36	12.09	52.59	33.67	70.67	28.75	98.88	31.98	264.32	73.56	65.82	43.09	209.60	49.87
1735	6.41	8.36	12.09	53.46	36.80	75.73	34.37	94.33	27.85	266.85	75.30	75.09	48.17	231.95	49.10
1736	7.39	8.36	12.09	52.29	39.56	80.78	36.82	89.38	26.10	263.62	76.07	91.10	50.29	253.39	50.28
1737	8.38	8.36	12.09	50.66	42.24	85.74	38.58	84.08	25.74	256.89	75.31	112.55	51.68	271.30	52.81
1738	9.36	8.36	12.09	47.32	44.58	90.59	37.47	78.56	25.79	242.24	72.90	138.47	50.54	282.57	56.18
1739	10.35	8.36	12.09	42.71	46.99	95.33	34.79	72.80</							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
1765	4.22	6.17	12.09	48.09	34.74	76.21	17.05	112.95	40.48	239.80	68.06	81.11	43.98	172.99	66.55
1766	5.16	6.17	12.09	50.16	38.72	80.60	21.30	107.56	34.57	243.31	70.97	78.89	48.63	189.51	65.93
1767	6.10	6.17	12.09	51.09	40.81	84.89	25.66	102.12	31.41	243.73	71.61	80.53	52.95	207.02	67.35
1768	7.04	6.18	12.09	50.92	42.89	89.01	28.52	96.15	30.01	240.75	71.64	87.45	55.63	223.84	70.24
1769	7.98	6.18	12.09	49.75	45.21	92.86	30.13	90.22	29.64	233.86	71.14	99.93	57.00	238.50	74.29
1770	8.92	6.18	12.09	46.90	46.16	96.49	30.09	84.02	29.48	221.03	68.21	117.57	56.82	248.56	79.08
1771	9.86	6.19	12.09	42.83	47.34	100.01	28.80	77.74	29.00	201.91	64.14	139.38	55.29	252.06	84.13
1772	10.80	6.19	12.09	37.52	48.81	103.29	26.59	71.18	28.05	175.99	58.82	163.05	52.45	246.55	89.02
1773	11.73	6.19	12.09	31.23	50.78	105.96	23.89	64.13	26.95	144.27	52.48	184.85	48.21	230.06	93.22
1774	12.67	6.20	12.09	24.43	53.28	107.44	21.13	56.35	26.62	109.48	45.52	199.92	42.43	201.55	96.03
1775	13.61	6.20	12.09	17.53	56.13	106.91	18.75	47.49	28.34	73.56	39.13	201.78	35.55	159.60	97.29
1776	14.55	6.20	12.09	12.07	59.35	103.76	17.00	37.47	33.09	45.67	33.90	185.71	26.65	107.31	95.81
1777	0.45	7.25	12.09	44.31	20.65	73.02	12.47	135.30	82.87	203.41	51.58	106.31	28.86	123.21	94.68
1778	1.36	7.25	12.09	41.53	23.79	73.85	12.54	132.40	70.34	210.20	55.08	104.64	33.07	131.83	85.94
1779	2.27	7.25	12.09	41.62	27.82	75.83	12.45	127.94	58.90	217.05	58.70	101.42	37.14	140.80	79.20
1780	3.18	7.26	12.09	43.21	32.10	78.87	13.04	123.14	48.99	222.59	62.23	97.15	41.34	151.60	74.91
1781	4.08	7.26	12.09	45.60	36.19	82.26	14.96	117.77	41.45	227.24	65.32	92.41	46.04	164.03	73.13
1782	4.99	7.26	12.09	47.88	40.01	86.44	18.10	111.52	36.62	230.02	67.82	88.83	50.54	176.98	73.48
1783	5.90	7.26	12.09	48.31	43.08	90.35	20.81	105.92	33.37	229.00	69.33	87.44	53.73	191.94	75.46
1784	6.81	7.26	12.09	49.15	45.09	93.76	23.93	99.83	31.90	226.50	69.38	89.54	56.99	206.37	78.79
1785	7.72	7.26	12.09	47.88	45.86	96.90	25.53	93.50	31.60	219.39	67.61	96.37	58.47	218.96	83.04
1786	8.62	7.26	12.09	45.47	46.51	99.89	26.12	87.17	31.30	207.81	64.77	108.33	58.70	228.33	87.93
1787	9.53	7.27	12.09	41.87	47.13	102.73	25.66	80.75	30.83	190.94	60.75	124.65	57.54	232.33	93.11
1788	10.44	7.27	12.09	37.12	48.08	105.43	24.45	74.12	30.18	168.37	55.71	143.62	54.93	228.91	98.13
1789	11.35	7.27	12.09	31.44	49.56	107.74	22.83	67.15	29.69	140.81	49.77	162.19	50.76	216.31	102.48
1790	12.25	7.27	12.09	25.23	51.64	109.24	21.19	59.62	30.15	110.20	43.30	176.51	44.97	193.41	105.44
1791	13.16	7.27	12.09	18.81	54.13	109.25	19.90	51.19	32.49	77.81	37.37	181.26	38.10	158.52	106.74
1792	14.07	7.27	12.09	13.55	56.80	107.28	19.11	41.71	37.50	51.72	32.31	172.60	29.26	113.80	105.61
1793	0.51	3.95	10.41	51.72	23.43	72.11	10.47	132.47	115.05	266.28	61.30	108.21	24.10	116.06	117.37
1794	1.52	3.95	10.41	53.77	24.26	73.31	10.97	130.74	103.60	282.53	64.67	105.84	27.39	135.92	106.77
1795	2.53	3.95	10.41	56.21	25.74	75.78	12.31	128.28	92.81	298.97	67.88	101.31	31.10	157.79	97.09
1796	3.54	3.95	10.41	58.78	27.74	79.36	14.40	125.10	83.05	315.17	70.71	95.13	35.09	181.87	88.78
1797	4.56	3.96	10.41	61.18	30.11	83.77	17.02	121.24	74.61	330.62	72.97	88.50	39.16	208.34	82.17
1798	5.57	3.96	10.41	63.25	32.76	88.81	19.90	116.74	67.78	344.79	74.40	83.79	43.12	236.91	77.55
1799	6.58	3.96	10.41	64.59	35.56	94.27	22.29	111.75	62.36	356.26	74.69	84.73	46.45	267.31	74.76
1800	7.60	3.96	10.41	65.19	38.50	100.12	24.30	106.43	58.04	364.20	73.41	95.58	49.25	298.34	73.57
1801	8.61	3.96	10.41	64.53	41.56	106.40	25.19	101.02	54.37	365.69	70.40	118.90	51.06	328.40	73.57
1802	9.62	3.96	10.41	62.37	44.86	113.21	25.24	95.70	50.77	358.27	65.52	155.10	52.12	355.06	74.32
1803	10.63	3.96	10.41	58.10	48.43	120.61	24.40	90.46	46.70	338.11	58.92	203.22	52.50	374.48	75.52
1804	11.65	3.96	10.41	51.30	52.29	128.39	22.92	84.89	41.74	301.97	51.30	260.56	52.41	381.03	77.15
1805	12.66	3.97	10.41	41.85	56.39	135.74	21.00	78.08	35.71	248.30	44.13	320.11	51.75	366.51	79.61
1806	13.67	3.97	10.41	30.59	60.64	140.75	18.72	68.83	28.94	181.33	39.60	366.84	49.62	322.10	83.38
1807	14.68	3.97	10.41	20.54	65.19	141.51	16.02	57.01	22.95	118.95	40.16	385.50	43.68	250.30	86.68
1808	15.70	3.97	10.41	11.05	69.51	135.94	13.34	42.42	21.34	52.26	45.48	355.69	36.28	150.63	88.91
1809	0.50	5.05	10.41	51.38	23.17	78.08	10.63	135.91	113.15	258.88	59.78	115.23	28.37	116.14	116.91
1810	1.49	5.05	10.41	52.64	24.21	79.37	11.18	133.98	102.22	273.84	63.02	113.30	32.49	133.95	107.28
1811	2.48	5.06	10.41	54.50	25.91	81.80	12.32	131.27	91.93	288.90	66.10	109.32	36.91	153.74	98.69
1812	3.47	5.06	10.41	56.69	28.12	85.22	14.07	127.83	82.64	303.71	68.88	103.68	41.52	175.67	91.57
1813	4.47	5.06	10.41	58.89	30.70	89.41	16.33	123.72	74.64	317.78	71.18	97.33	46.15	199.86	86.27
1814	5.46	5.07	10.41	60.85	33.38	94.14	18.87	119.02	68.10	330.54	72.59	92.02	50.65	226.11	82.97
1815	6.45	5.07	10.41	62.19	35.99	99.24	21.16	113.87	62.77	340.86	72.83	90.71	54.64	254.13	81.53
1816	7.44	5.07	10.41	62.89	38.76	104.64	23.14	108.40	58.61	347.91	71.84	97.30	58.12	282.81	81.83
1817	8.44	5.08	10.41	62.35	41.56	110.38	24.16	102.81	55.04	349.02	69.25	115.15	60.62	310.73	83.46
1818	9.43	5.08	10.41	60.42	44.52	116.62	24.55	97.27	51.49	342.13	64.83	145.63	62.43	335.73	85.98
1819	10.42	5.08	10.41	56.53	47.75	123.38	24.21	91.75	47.61	323.70	58.71	187.98	63.43	354.23	89.12
1820	11.41	5.09	10.41	50.29	51.34	130.53	23.35	85.92	43.05	290.75	51.34	239.53	63.73	361.05	92.78
1821	12.41	5.09	10.41	41.59	55.29	137.36	22.14	79.04	37.74	241.83	43.93	293.64	63.09	348.74	97.15
1822	13.40	5.09	10.41	31.20	59.53	142.18	20.60	70.05	32.17	180.74	38.73	336.91	60.44	309.50	102.20
1823	14.39	5.09	10.41	21.75	64.19	143.40	18.58	58.80	27.91	123.06	39.13	356.33	53.28	245.57	105.45
1824	15.38	5.10	10.41	12.39	68.67	139.01	16.54	44.89	27.66	59.13	45.39	333.59	45.02	154.49	106.21
1825	0.48	6.15	10.41	51.06	22.63	84.85	11.75	139.48	110.66	249.96	57.68	123.61	32.04	115.90	116.22
1826	1.45	6.15	10.41	51.41	23.90	86.24	12.32	137.33	100.38	263.38	60.73	122.18	36.79	131.35	107.72
1827	2.42	6.16	10.41	52.53	25.89	88.63	13.18	134.39	90.67	276.78	63.67	118.78	41.76	148.74	100.33
1828	3.39	6.16	10.41	54.22	28.36	91.87	14.47	130.67	81.94	289.92	66.32	113.72	46.90	168.12	94.49
1829	4.35	6.16	10.41	56.11	31.04	95.82	16.22	126.34	74.44	302.27	68.43	107.70	52.05	189.62	90.52
1830	5.32	6.17	10.41	57.84	33.71	100.19	18.29	121.49	68.25	313.26	69.74	101.94	57.06	213.16	88.53
1831	6.29	6.17	10.41	59.18	36.46	104.88	20.33	116.17	63.20	322.21	70.23	98.62	61.65	238.82	88.41
1832	7.25	6.17	10.41	59.82	39.01	109.76	22.13	110.60	59.12	327.90	69.36	100.93	65.72	264.08	90.02
1833	8.22	6.18	10.41	59.44	41.42	114.92	23.40	104.85	55.56	328.59	66.90	112.47	69.04	289.35	93.01
1834	9.19	6.18	10.41	57.76	44.07	120.47	24.09	99.09	52.11	322.19	63.00	135.64	71.50	312.13	97.03
1835	10.16	6.18	10.41	54.32	46.96	126.49	24.24	93.29	48.43	305.78	57.44	170.45	73.02	329.31	101.78
1836	11.12	6.19	10.41	48.77	50.24	132.88	23.97	87.22	44.31	276.66	50.55	214.52			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
1863	6.76	3.96	8.72	81.41	36.13	111.85	16.50	130.00	92.32	461.22	72.57	101.20	51.25	285.67	100.40
1864	7.80	3.96	8.72	85.05	39.42	118.38	17.77	123.59	86.80	488.54	69.59	100.25	54.47	326.27	97.28
1865	8.84	3.96	8.72	87.92	43.16	125.53	18.78	117.33	81.47	512.09	64.32	114.33	57.03	370.43	94.86
1866	9.88	3.96	8.72	89.37	47.38	133.57	19.49	111.76	75.93	527.89	56.76	150.23	58.91	417.23	92.77
1867	10.92	3.96	8.72	88.46	52.15	142.92	20.00	107.29	69.73	530.06	48.04	210.50	60.42	464.26	90.68
1868	11.96	3.96	8.72	83.78	57.43	154.10	20.44	103.92	62.40	509.75	42.32	296.19	62.31	505.77	88.69
1869	13.00	3.96	8.72	73.51	63.08	167.31	20.85	100.46	53.49	454.84	46.70	406.53	65.68	529.15	88.00
1870	14.04	3.97	8.72	55.89	68.67	181.26	21.03	93.61	42.72	351.77	61.20	529.86	71.21	508.66	92.24
1871	15.08	3.97	8.72	31.73	73.37	188.21	20.29	77.52	30.55	199.76	74.77	604.93	75.74	398.86	107.83
1872	16.12	3.97	8.72	22.52	79.22	183.16	16.75	57.26	20.48	133.28	99.71	586.00	59.99	247.62	122.63
1873	0.51	5.05	8.72	57.51	25.07	94.50	11.56	156.87	137.11	292.68	61.19	144.16	32.56	113.97	139.35
1874	1.53	5.05	8.72	60.12	25.62	95.86	12.03	154.75	128.21	314.40	64.35	143.13	37.36	133.38	131.25
1875	2.55	5.06	8.72	63.23	26.79	98.47	12.80	151.70	119.67	337.50	67.25	139.83	42.47	155.17	123.76
1876	3.57	5.06	8.72	66.72	28.48	102.15	13.85	147.76	111.69	361.91	69.67	134.29	47.78	179.67	117.19
1877	4.59	5.06	8.72	70.46	30.59	106.67	15.13	142.97	104.42	387.49	71.37	126.80	53.19	207.18	111.77
1878	5.61	5.07	8.72	74.30	33.05	111.81	16.57	137.44	97.89	413.86	72.10	118.11	58.54	238.01	107.64
1879	6.63	5.07	8.72	78.07	35.83	117.44	18.05	131.35	92.05	440.37	71.53	110.13	63.65	272.36	104.84
1880	7.65	5.07	8.72	81.49	38.89	123.55	19.41	124.95	86.66	465.66	69.25	107.03	68.31	310.33	103.26
1881	8.67	5.07	8.72	84.25	42.34	130.24	20.61	118.62	81.47	487.69	64.93	116.11	72.37	351.72	102.71
1882	9.69	5.08	8.72	85.72	46.24	137.77	21.57	112.81	76.14	502.83	58.38	144.98	75.69	395.74	102.87
1883	10.71	5.08	8.72	85.02	50.71	146.56	22.39	107.93	70.30	505.63	50.05	197.64	78.45	440.20	103.44
1884	11.73	5.08	8.72	80.83	55.81	157.08	23.16	104.00	63.57	487.72	42.62	275.24	81.21	479.71	104.42
1885	12.75	5.09	8.72	71.44	61.47	169.55	23.97	100.03	55.56	437.55	42.96	376.49	85.10	502.37	106.79
1886	13.77	5.09	8.72	55.20	67.42	182.69	24.70	93.09	46.02	342.54	55.28	489.35	90.88	483.99	113.82
1887	14.79	5.09	8.72	32.97	73.00	189.47	24.55	78.06	35.31	203.33	71.34	557.25	94.96	384.00	131.27
1888	15.81	5.10	8.72	24.36	80.10	185.66	21.11	59.31	27.15	142.97	103.54	542.33	75.53	247.85	143.58
1889	0.50	6.15	8.72	56.98	24.60	102.15	13.53	158.39	134.20	282.23	59.30	152.08	37.32	112.06	137.57
1890	1.49	6.15	8.72	58.78	25.20	103.64	14.17	156.19	125.85	301.95	62.21	151.48	42.97	129.55	130.36
1891	2.49	6.16	8.72	61.16	26.44	106.21	14.99	153.08	117.83	322.80	64.89	148.74	48.94	149.31	123.83
1892	3.49	6.16	8.72	64.01	28.19	109.70	15.99	149.12	110.30	344.71	67.15	143.86	55.16	171.60	118.26
1893	4.48	6.16	8.72	67.20	30.34	113.92	17.18	144.37	103.41	367.56	68.81	137.07	61.58	196.67	113.91
1894	5.48	6.17	8.72	70.55	32.77	118.69	18.55	138.90	97.17	391.04	69.62	128.93	68.07	224.75	110.97
1895	6.47	6.17	8.72	73.88	35.41	123.90	20.01	132.89	91.52	414.54	69.28	120.80	74.49	256.03	109.51
1896	7.47	6.17	8.72	76.96	38.30	129.53	21.47	126.53	86.28	437.01	67.54	115.76	80.66	290.55	109.53
1897	8.47	6.18	8.72	79.45	41.51	135.69	22.85	120.13	81.23	456.64	64.09	119.61	86.38	328.16	110.91
1898	9.46	6.18	8.72	80.83	45.11	142.61	24.09	114.06	76.09	470.38	58.69	139.98	91.46	368.18	113.45
1899	10.46	6.18	8.72	80.31	49.25	150.68	25.22	108.68	70.58	473.40	51.22	182.46	95.81	408.71	116.86
1900	11.45	6.19	8.72	76.69	54.05	160.34	26.29	104.05	64.43	458.17	43.35	249.02	99.64	445.02	120.97
1901	12.45	6.19	8.72	68.39	59.59	171.81	27.35	99.43	57.37	413.99	40.32	338.31	103.69	466.40	126.23
1902	13.44	6.19	8.72	53.86	65.71	183.95	28.32	92.39	49.25	329.20	49.21	438.73	108.70	450.95	134.85
1903	14.44	6.19	8.72	33.95	71.91	190.54	28.46	78.60	40.53	205.37	66.05	500.07	111.34	363.26	151.14
1904	15.44	6.20	8.72	26.42	79.96	188.26	25.10	61.76	34.77	153.74	103.14	493.25	88.34	245.96	156.57
1905	0.48	7.25	8.72	56.57	23.98	110.49	15.98	159.83	130.57	270.14	57.02	161.11	40.95	109.63	135.34
1906	1.45	7.25	8.72	57.48	24.60	112.11	16.72	157.56	122.88	287.61	59.61	160.96	47.22	125.01	129.15
1907	2.42	7.25	8.72	59.03	25.89	114.63	17.55	154.42	115.47	305.92	61.97	158.80	53.82	142.51	123.65
1908	3.38	7.25	8.72	61.11	27.70	117.93	18.48	150.48	108.47	324.98	63.97	154.63	60.71	162.32	119.14
1909	4.35	7.26	8.72	63.59	29.86	121.85	19.56	145.79	102.01	344.68	65.40	148.59	67.88	184.64	115.88
1910	5.32	7.26	8.72	66.30	32.28	126.24	20.82	140.44	96.12	364.76	66.09	141.08	75.25	209.57	114.07
1911	6.28	7.26	8.72	69.04	34.88	131.01	22.22	134.55	90.70	384.65	65.82	133.04	82.69	237.28	113.84
1912	7.25	7.26	8.72	71.60	37.65	136.13	23.70	128.28	85.63	403.56	64.35	126.53	90.12	267.70	115.25
1913	8.22	7.26	8.72	73.66	40.65	141.71	25.20	121.85	80.73	419.94	61.41	125.71	97.30	300.66	118.33
1914	9.18	7.26	8.72	74.80	44.01	147.93	26.66	115.54	75.76	431.40	56.81	137.05	104.00	335.55	122.94
1915	10.15	7.26	8.72	74.35	47.85	155.12	28.04	109.63	70.56	433.97	50.49	167.10	109.93	370.77	128.90
1916	11.12	7.27	8.72	71.31	52.31	163.66	29.31	104.22	64.96	421.38	43.23	219.33	114.81	402.43	135.89
1917	12.08	7.27	8.72	64.30	57.56	173.80	30.42	98.84	58.85	384.39	38.63	293.12	118.59	421.73	143.77
1918	13.05	7.27	8.72	51.85	63.62	184.64	31.27	91.70	52.25	312.24	44.29	378.65	121.47	410.20	153.26
1919	14.02	7.27	8.72	34.62	70.16	191.05	31.31	79.34	45.75	206.12	60.71	434.78	120.79	338.09	166.23
1920	14.98	7.27	8.72	28.25	78.18	190.89	28.24	64.72	42.79	163.16	97.61	442.26	95.52	242.63	163.39
1921	0.53	3.95	7.03	62.69	26.94	103.12	9.97	179.80	162.13	325.26	60.96	166.84	29.35	108.31	162.81
1922	1.60	3.95	7.03	67.25	27.28	104.35	10.23	177.47	154.27	355.65	64.33	166.54	33.64	128.10	155.23
1923	2.67	3.95	7.03	72.44	28.20	107.27	10.78	173.94	146.57	389.47	67.28	163.92	38.24	150.31	147.92
1924	3.73	3.95	7.03	78.28	29.70	111.60	11.51	169.21	139.19	427.14	69.56	158.83	43.03	175.44	141.08
1925	4.80	3.96	7.03	84.77	31.74	116.98	12.38	163.34	132.21	469.04	70.85	151.13	47.85	204.07	134.83
1926	5.87	3.96	7.03	91.93	34.33	123.10	13.34	156.42	125.64	515.51	70.74	140.91	52.48	236.94	129.26
1927	6.94	3.96	7.03	99.77	37.48	129.70	14.33	148.64	119.42	566.69	68.73	128.76	56.63	274.97	124.33
1928	8.00	3.96	7.03	108.26	41.25	136.67	15.31	140.34	113.37	622.42	64.29	116.94	59.90	319.31	119.94
1929	9.07	3.96	7.03	117.24	45.76	144.03	16.23	132.08	107.28	681.80	57.12	112.06	61.86	371.47	115.82
1930	10.14	3.96	7.03	126.36	51.16	152.02	17.15	124.74	100.81	742.81	48.33	127.26	62.18	433.36	111.55
1931	11.20	3.96	7.03	134.84	57.65	161.22	18.22	119.69	93.52	801.09	44.59	175.91	60.98	507.07	106.54
1932	12.27	3.96	7.03	141.13	65.38	172.76	19.78	118.62	84.73	847.96	60.04	265.98	59.46	594.16	100.18
1933	13.34	3.96	7.03	142.23	74.29	188.74	22.22	122.81	73.41	866.01	97.72	409.07	60.72	692.97	92.55
1934	14.41	3.97	7.												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
1961	8.71	6.17	7.03	105.26	43.10	155.72	24.60	134.77	106.22	607.20	61.46	130.38	102.85	333.31	127.30
1962	9.73	6.18	7.03	113.45	47.53	162.92	26.21	127.18	100.41	661.50	54.97	134.74	109.52	387.56	127.90
1963	10.76	6.18	7.03	121.45	52.94	171.27	27.82	121.13	94.15	715.70	46.95	164.91	114.49	452.93	128.98
1964	11.78	6.18	7.03	128.00	59.76	181.75	29.51	118.13	87.10	762.64	43.80	233.15	117.51	531.51	129.66
1965	12.81	6.19	7.03	130.37	68.49	196.21	31.62	119.63	78.63	786.27	62.29	351.05	120.06	622.26	128.98
1966	13.83	6.19	7.03	122.96	79.45	217.69	34.84	124.84	67.40	751.64	109.13	536.67	128.00	710.53	128.65
1967	14.86	6.19	7.03	94.44	92.14	249.46	39.48	124.91	50.98	583.20	175.53	806.07	153.66	731.40	143.95
1968	15.88	6.19	7.03	19.66	100.83	253.62	42.43	82.10	28.19	97.27	199.55	849.86	200.37	390.73	241.35
1969	0.50	7.25	7.03	60.74	26.44	128.73	17.45	180.79	152.39	291.48	56.72	189.68	46.10	101.65	154.94
1970	1.49	7.25	7.03	62.99	26.68	130.30	18.33	178.41	145.86	314.65	59.29	190.27	53.30	116.97	149.31
1971	2.49	7.25	7.03	65.88	27.52	132.96	19.35	175.02	139.42	340.07	61.61	188.89	61.09	134.46	144.08
1972	3.49	7.25	7.03	69.43	28.90	136.56	20.50	170.63	133.18	368.01	63.52	185.41	69.48	154.34	139.47
1973	4.48	7.26	7.03	73.64	30.75	140.90	21.79	165.28	127.20	398.77	64.86	179.75	78.49	176.97	135.71
1974	5.48	7.26	7.03	78.49	33.00	145.80	23.26	159.05	121.47	432.62	65.44	171.92	88.10	202.82	132.99
1975	6.48	7.26	7.03	83.96	35.62	151.13	24.91	152.04	115.96	469.83	65.03	162.20	98.30	232.47	131.52
1976	7.47	7.26	7.03	90.03	38.62	156.84	26.74	144.43	110.57	510.51	63.37	151.54	108.98	266.77	131.52
1977	8.47	7.26	7.03	96.66	42.08	162.95	28.74	136.51	105.17	554.55	60.19	142.63	119.94	306.87	133.17
1978	9.46	7.26	7.03	103.66	46.12	169.66	30.89	128.78	99.59	601.17	55.19	141.86	130.85	354.33	136.55
1979	10.46	7.26	7.03	110.62	50.97	177.40	33.14	122.02	93.66	648.25	48.49	160.73	141.18	411.19	141.56
1980	11.46	7.26	7.03	116.57	57.04	187.01	35.48	117.47	87.16	690.36	42.63	212.68	150.26	479.53	147.66
1981	12.45	7.27	7.03	119.23	65.00	200.09	38.01	116.55	79.74	714.27	49.11	310.21	157.96	559.30	153.73
1982	13.45	7.27	7.03	113.64	75.65	219.45	41.22	119.29	70.64	689.13	84.01	470.16	167.41	639.17	158.81
1983	14.45	7.27	7.03	89.12	89.37	248.07	45.88	118.59	57.95	543.60	147.20	704.75	189.25	660.06	170.71
1984	15.44	7.27	7.03	21.14	102.76	252.00	49.75	81.86	39.35	107.50	195.28	739.35	231.10	355.87	248.03
1985	0.55	3.95	5.34	64.90	27.74	118.77	9.80	205.13	183.60	333.14	56.14	194.31	30.79	95.79	183.84
1986	1.64	3.95	5.34	70.49	28.02	120.16	10.21	202.62	176.81	368.95	59.51	194.84	35.42	111.67	177.17
1987	2.74	3.95	5.34	77.02	28.89	123.60	10.87	198.65	170.04	410.07	62.47	193.27	40.41	129.35	170.59
1988	3.83	3.95	5.34	84.59	30.36	128.73	11.63	193.23	163.40	457.41	64.72	189.38	45.61	149.24	164.21
1989	4.92	3.95	5.34	93.36	32.46	135.07	12.44	186.38	156.93	512.05	65.90	182.93	50.83	171.87	158.13
1990	6.02	3.96	5.34	103.55	35.21	142.19	13.25	178.14	150.64	575.31	65.54	173.65	55.74	197.96	152.39
1991	7.11	3.96	5.34	115.42	38.69	149.70	14.02	168.62	144.49	648.74	63.05	161.39	59.83	228.47	147.01
1992	8.21	3.96	5.34	129.35	43.03	157.30	14.68	158.03	138.35	734.22	57.90	146.39	62.39	264.71	141.93
1993	9.30	3.96	5.34	145.76	48.46	164.82	15.18	146.72	132.09	833.99	50.40	130.43	62.46	308.59	137.01
1994	10.40	3.96	5.34	165.15	55.34	172.28	15.58	135.35	125.43	950.67	45.42	119.99	58.93	362.90	131.97
1995	11.49	3.96	5.34	188.08	64.21	179.91	16.21	125.23	117.98	1087.37	59.09	131.24	51.13	432.01	126.35
1996	12.59	3.96	5.34	215.18	75.60	188.47	18.16	118.95	108.96	1248.10	103.59	184.76	40.14	523.17	119.43
1997	13.68	3.96	5.34	247.16	89.72	199.73	23.39	121.34	96.83	1439.24	178.31	296.39	31.62	650.05	110.40
1998	14.77	3.96	5.34	284.68	106.09	218.39	33.91	140.20	78.31	1671.69	282.88	500.23	35.37	841.42	99.55
1999	15.87	3.97	5.34	326.18	124.26	258.06	50.55	185.67	45.73	1956.09	421.33	904.25	53.59	1160.68	96.59
2000	16.96	3.97	5.34	351.57	153.34	424.77	71.22	270.97	23.58	2194.78	661.17	2266.50	108.65	1734.29	178.40
2001	0.54	5.05	5.34	64.20	27.92	127.04	12.46	204.71	180.74	323.81	55.55	200.51	38.08	94.39	181.15
2002	1.61	5.05	5.34	69.13	28.15	128.49	13.13	202.21	174.24	357.39	58.79	201.19	43.97	109.44	174.87
2003	2.69	5.06	5.34	74.99	28.95	131.77	14.01	198.31	167.78	395.90	61.71	199.86	50.38	126.29	168.70
2004	3.77	5.06	5.34	81.89	30.33	136.55	15.02	193.03	161.42	440.22	64.08	196.28	57.21	145.28	162.78
2005	4.84	5.06	5.34	89.98	32.28	142.44	16.11	186.38	155.22	491.42	65.63	190.26	64.33	166.93	157.22
2006	5.92	5.06	5.34	99.47	34.80	149.07	17.25	178.42	149.19	550.85	65.99	181.57	71.49	191.90	152.10
2007	6.99	5.07	5.34	110.65	37.95	156.09	18.41	169.23	143.28	620.20	64.70	170.08	78.24	221.13	147.49
2008	8.07	5.07	5.34	123.91	41.83	163.26	19.53	158.99	137.43	701.60	61.20	156.03	83.90	255.93	143.42
2009	9.15	5.07	5.34	139.74	46.65	170.42	20.50	148.01	131.49	797.74	55.09	140.87	87.37	298.25	139.83
2010	10.22	5.07	5.34	158.74	52.79	177.57	21.21	136.89	125.29	911.94	47.66	129.71	87.08	351.02	136.50
2011	11.30	5.08	5.34	181.54	60.93	184.95	21.65	126.81	118.53	1048.09	48.80	135.68	81.09	418.78	132.95
2012	12.37	5.08	5.34	208.76	72.04	193.24	22.22	120.20	110.61	1210.37	80.29	178.83	67.99	508.95	128.22
2013	13.45	5.08	5.34	240.81	87.18	204.10	24.49	121.63	100.20	1403.17	152.19	277.56	50.09	634.65	121.03
2014	14.53	5.08	5.34	277.89	106.20	221.90	31.64	138.55	84.07	1632.44	266.85	464.45	39.36	821.84	111.33
2015	15.60	5.09	5.34	318.70	127.03	259.80	46.10	181.20	54.42	1906.65	424.41	843.33	51.74	1128.48	110.21
2016	16.68	5.09	5.34	344.80	154.86	416.60	66.42	264.02	8.59	2138.20	669.25	2106.72	121.08	1670.76	201.89
2017	0.53	6.15	5.34	63.48	28.17	136.63	15.27	204.18	177.18	312.39	54.78	208.10	44.38	92.59	177.85
2018	1.58	6.15	5.34	67.61	28.34	138.15	16.13	201.69	171.05	343.24	57.77	208.97	51.38	106.63	172.04
2019	2.63	6.16	5.34	72.63	29.08	141.27	17.20	197.89	164.95	378.49	60.50	207.90	59.06	122.45	166.38
2020	3.69	6.16	5.34	78.65	30.37	145.70	18.41	192.79	158.93	418.93	62.82	204.70	67.41	140.33	161.01
2021	4.74	6.16	5.34	85.81	32.19	151.13	19.76	186.41	153.06	465.57	64.51	199.18	76.38	160.71	156.07
2022	5.79	6.16	5.34	94.30	34.52	157.26	21.23	178.79	147.33	519.69	65.32	191.16	85.88	184.19	151.69
2023	6.85	6.17	5.34	104.40	37.39	163.79	22.84	170.00	141.72	582.94	64.92	180.52	95.66	211.62	148.00
2024	7.90	6.17	5.34	116.51	40.84	170.51	24.52	160.20	136.15	657.54	62.92	167.49	105.26	244.25	145.12
2025	8.95	6.17	5.34	131.15	45.05	177.31	26.22	149.65	130.54	746.43	58.85	153.23	113.87	283.95	143.14
2026	10.00	6.18	5.34	149.02	50.31	184.17	27.80	138.82	124.75	853.64	52.50	141.63	120.01	333.66	142.01
2027	11.06	6.18	5.34	171.01	57.23	191.31	29.06	128.75	118.58	984.46	46.53	142.87	121.27	398.09	141.35
2028	12.11	6.18	5.34	198.04	66.98	199.33	29.81	121.56	111.68	1145.32	56.53	175.06	113.98	485.21	140.07
2029	13.16	6.18	5.34	230.78	81.57	209.70	30.48	121.64	103.15	1342.50	109.54	258.60	94.67	608.90	135.96
2030	14.22	6.19	5.34	268.98	103.16	226.55	33.73	136.51	90.22	1579.41	222.84	426.32	67.82	794.87	126.73
2031	15.27	6.19	5.34	310.27	129.75	26									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
2059	-4.97	3.96	17.16	44.61	13.44	40.03	28.86	168.40	271.48	83.77	12.52	49.71	28.92	195.87	273.54
2060	-4.07	3.96	17.16	25.02	7.13	37.06	15.48	152.85	203.32	63.61	8.43	43.04	15.48	170.80	205.96
2061	-3.16	3.96	17.16	15.00	11.06	36.54	13.38	142.39	153.94	54.01	12.16	39.05	13.39	151.20	157.62
2062	-2.26	3.95	17.16	9.67	11.70	32.99	11.99	134.48	111.57	49.32	12.89	34.03	12.22	136.70	117.09
2063	-1.36	3.95	17.16	7.44	8.63	27.41	11.24	130.72	72.63	48.11	11.18	28.60	12.03	129.95	81.66
2064	-0.45	3.95	17.16	6.59	6.12	23.22	12.11	129.65	36.90	48.52	11.03	25.82	13.16	129.99	54.00
2065	-13.66	5.11	17.16	25.60	51.06	13.69	34.54	16.86	39.42	26.90	29.81	15.11	31.68	18.63	40.95
2066	-12.78	5.11	17.16	47.78	48.38	13.37	48.62	17.13	33.62	57.31	29.33	14.57	47.30	21.16	34.18
2067	-11.90	5.10	17.16	71.50	47.41	13.11	62.97	18.50	31.44	92.13	31.29	13.81	62.39	24.75	31.50
2068	-11.01	5.10	17.16	98.37	48.22	12.95	78.67	21.09	31.46	132.02	34.83	13.51	78.49	29.25	31.27
2069	-10.13	5.09	17.16	130.65	51.77	13.02	97.26	25.45	33.63	178.72	40.79	13.88	97.21	35.58	33.31
2070	-9.25	5.09	17.16	171.92	60.22	13.58	121.19	32.90	39.04	235.49	51.47	15.52	121.19	45.85	38.72
2071	-8.37	5.09	17.16	228.62	77.36	15.13	155.64	46.45	52.00	308.79	70.70	19.91	155.57	64.31	51.76
2072	-7.49	5.08	17.16	313.53	118.69	16.56	213.68	73.56	90.97	411.91	114.62	27.60	213.40	100.35	90.67
2073	-6.61	5.08	17.16	473.92	159.86	16.90	382.10	134.93	265.89	592.28	156.21	52.45	382.75	178.18	266.54
2074	-5.73	5.07	17.16	107.43	56.44	65.48	72.97	248.79	384.14	144.59	55.68	69.70	73.04	283.91	387.29
2075	-4.85	5.07	17.16	23.29	79.31	56.29	18.42	200.72	259.25	45.58	81.54	56.60	24.07	220.11	261.73
2076	-3.97	5.07	17.16	38.20	97.85	40.03	25.51	164.16	175.83	70.28	101.88	39.73	31.90	175.24	178.00
2077	-3.08	5.06	17.16	73.33	38.60	24.93	6.68	165.22	143.15	100.76	41.88	24.83	8.18	170.93	147.81
2078	-2.20	5.06	17.16	14.45	4.68	23.34	2.11	171.92	110.06	47.61	9.79	22.66	5.07	173.26	118.85
2079	-1.32	5.06	17.16	56.25	22.27	27.84	26.12	150.56	61.40	67.95	34.76	27.96	30.40	149.65	73.43
2080	-0.44	5.05	17.16	16.04	17.80	19.36	35.31	137.61	27.77	46.29	51.79	20.48	35.96	137.33	44.17
2081	-13.22	6.21	17.16	32.59	49.01	13.82	37.95	20.57	38.72	33.74	28.95	14.98	34.59	22.68	40.65
2082	-12.37	6.21	17.16	56.92	45.13	13.46	49.20	20.64	32.88	65.59	25.04	14.45	47.57	24.40	33.58
2083	-11.51	6.20	17.16	83.12	44.00	13.21	60.46	22.04	30.39	101.39	25.89	13.76	59.70	27.36	30.43
2084	-10.66	6.20	17.16	112.71	45.76	13.06	72.56	24.74	29.97	141.79	30.73	13.48	72.26	31.23	29.65
2085	-9.81	6.20	17.16	147.77	51.55	13.14	86.58	29.18	31.48	188.28	39.81	13.77	86.51	36.97	30.98
2086	-8.96	6.19	17.16	191.24	63.51	13.69	104.15	36.31	35.87	243.32	54.72	15.07	104.15	45.72	35.35
2087	-8.10	6.19	17.16	247.34	86.79	14.95	127.96	47.86	46.84	310.69	80.53	18.11	127.91	59.93	46.43
2088	-7.25	6.18	17.16	324.86	128.69	16.63	164.31	67.71	79.48	398.46	124.21	23.65	163.99	84.08	79.03
2089	-6.40	6.18	17.16	450.51	343.45	28.09	209.70	122.23	212.92	532.36	343.53	37.36	208.76	144.62	213.03
2090	-5.54	6.18	17.16	303.08	270.90	64.76	86.36	241.94	337.76	355.58	272.10	66.34	86.39	264.03	341.64
2091	-4.69	6.17	17.16	28.27	8.82	60.10	29.64	261.28	275.19	54.81	6.79	60.35	30.01	276.03	281.53
2092	-3.84	6.17	17.16	26.18	23.71	34.56	19.67	206.98	158.21	56.45	23.56	36.68	19.67	214.39	163.93
2093	-2.99	6.16	17.16	137.62	13.44	16.17	49.92	193.90	119.28	161.49	17.86	17.99	51.63	197.57	126.46
2094	-2.13	6.16	17.16	18.00	6.31	22.03	1.65	215.37	108.47	48.01	12.60	25.05	4.59	216.22	121.65
2095	-1.28	6.16	17.16	130.19	20.09	35.28	19.87	172.61	57.15	134.99	27.46	38.27	34.59	171.66	74.02
2096	-0.43	6.15	17.16	35.48	8.78	20.51	2.02	143.13	21.06	60.16	32.37	25.31	12.22	142.30	41.25
2097	-12.70	7.28	17.16	40.14	46.28	13.97	41.45	24.33	37.97	41.45	28.28	14.86	37.99	26.73	40.15
2098	-11.88	7.28	17.16	66.17	41.43	13.59	49.60	24.27	32.03	74.34	20.74	14.34	47.85	27.76	32.79
2099	-11.06	7.27	17.16	94.11	40.16	13.33	57.61	25.62	29.28	110.51	20.18	13.73	56.79	30.06	29.26
2100	-10.24	7.27	17.16	125.49	43.06	13.19	66.05	28.34	28.47	150.65	26.82	13.46	65.74	33.42	28.01
2101	-9.42	7.27	17.16	162.24	51.12	13.28	75.77	32.80	29.58	196.09	39.10	13.65	75.70	38.32	28.91
2102	-8.60	7.27	17.16	207.01	66.28	13.77	88.15	39.80	33.75	248.82	57.76	14.55	88.17	45.73	33.03
2103	-7.78	7.27	17.16	263.89	92.26	14.94	106.19	50.97	44.93	312.15	86.39	16.54	106.15	57.38	44.25
2104	-6.96	7.27	17.16	340.12	148.60	15.99	134.53	71.82	74.87	392.33	145.48	18.79	134.38	78.58	74.30
2105	-6.14	7.26	17.16	448.60	192.74	18.23	159.64	121.97	129.49	501.80	192.93	21.11	160.42	129.20	129.89
2106	-5.33	7.26	17.16	598.56	169.16	21.53	236.25	215.45	248.55	661.73	168.80	24.75	238.86	226.74	252.80
2107	-4.51	7.26	17.16	126.85	57.42	85.06	32.31	341.73	298.84	149.49	59.31	87.37	32.51	355.43	306.82
2108	-3.69	7.26	17.16	24.57	7.57	59.56	23.88	294.99	182.88	41.37	8.23	63.46	26.69	302.18	190.97
2109	-2.87	7.26	17.16	142.00	17.95	18.37	42.78	249.84	121.02	160.51	18.49	26.12	44.82	252.24	131.82
2110	-2.05	7.25	17.16	21.54	6.76	22.02	1.14	265.88	105.84	48.51	14.26	35.72	4.56	266.26	124.09
2111	-1.23	7.25	17.16	162.87	24.86	40.18	17.04	214.02	56.41	166.46	27.67	46.93	39.38	213.29	78.01
2112	-0.41	7.25	17.16	48.43	6.45	24.26	1.64	179.07	19.94	66.99	17.06	28.91	15.53	177.81	43.63
2113	-14.43	3.97	15.47	22.23	50.81	41.85	36.49	33.78	103.85	26.59	20.44	51.37	35.24	40.00	105.20
2114	-13.50	3.97	15.47	34.35	48.81	40.76	46.73	34.77	94.41	50.48	22.56	47.58	46.00	46.23	95.07
2115	-12.57	3.97	15.47	47.53	47.25	40.01	58.83	37.30	89.86	76.59	25.96	44.33	58.40	53.08	90.06
2116	-11.64	3.97	15.47	61.71	46.41	39.31	72.31	41.33	89.57	103.71	30.05	42.50	72.07	60.51	89.47
2117	-10.71	3.97	15.47	76.84	46.66	38.87	87.33	46.91	93.69	131.10	34.66	42.57	87.21	68.81	93.42
2118	-9.78	3.97	15.47	92.24	48.35	39.10	104.02	54.08	103.54	157.07	39.90	45.46	103.97	78.22	103.22
2119	-8.84	3.96	15.47	105.58	51.30	40.42	121.39	62.48	122.14	177.48	45.49	52.90	121.38	87.82	121.86
2120	-7.91	3.96	15.47	110.27	54.13	41.52	131.72	69.78	152.67	182.70	50.38	65.12	131.78	92.12	152.50
2121	-6.98	3.96	15.47	96.02	47.84	35.82	100.20	71.73	172.20	156.43	47.71	61.73	100.33	75.38	173.37
2122	-6.05	3.96	15.47	126.05	43.81	31.46	111.49	77.88	181.85	201.18	43.32	43.59	111.76	69.71	182.64
2123	-5.12	3.96	15.47	88.25	27.27	39.59	59.28	101.51	183.96	162.94	32.87	37.06	59.34	96.21	185.50
2124	-4.19	3.96	15.47	62.06	18.38	34.55	35.40	108.00	152.89	140.12	29.13	33.03	35.40	101.50	155.05
2125	-3.26	3.96	15.47	45.28	19.60	27.97	25.77	105.88	123.35	127.50	30.48	28.86	26.01	97.24	126.14
2126	-2.33	3.95	15.47	34.91	20.45	24.47	20.69	100.99	96.71	121.22	31.75	27.77	21.69	91.56	100.20
2127	-1.40	3.95	15.47	29.01	18.53	23.85	18.76	97.87	71.85	119.32	32.74	29.17	20.91	90.99	76.15
2128	-0.47	3.95	15.47	25.67	17.10	22.53	19.32	97.02	51.50	119.73	34.93	28.71	22.12	95.94	57.30
2129	-14.09	5.11	15.47	28.72	48.81	42.16	38.17	42.29	101.85	32.52	19.75	50.60	36.37	48.38	103.79
2130	-13.18	5.10	15.47	42.63	46.66	40.96	46.63	43.19	92.56	56.26	20.33	46.89	45.50	53.27	93.51
2131	-12.27	5.1													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
2157	-3.09	6.16	15.47	53.54	19.93	42.04	5.02	161.70	139.45	121.50	30.88	49.83	10.09	154.77	145.18
2158	-2.20	6.16	15.47	50.97	14.95	43.86	4.73	144.29	104.64	122.44	30.29	53.65	10.07	136.68	111.99
2159	-1.32	6.16	15.47	59.20	13.10	49.93	3.74	154.98	78.10	124.47	30.96	61.29	8.72	149.16	89.22
2160	-0.44	6.15	15.47	32.56	13.00	40.29	3.93	168.87	54.02	111.30	31.90	54.65	12.84	166.07	71.52
2161	-13.16	7.28	15.47	43.25	43.30	43.11	41.61	59.88	96.75	46.71	17.91	48.78	39.09	65.74	99.40
2162	-12.31	7.27	15.47	59.27	41.15	41.62	45.99	60.33	87.60	69.56	15.31	45.31	44.21	68.01	88.83
2163	-11.46	7.27	15.47	76.92	40.10	40.75	51.48	62.48	82.12	94.69	16.83	42.70	50.25	71.14	82.33
2164	-10.61	7.27	15.47	96.13	41.39	40.15	57.67	66.57	79.89	121.04	23.25	41.15	56.86	75.37	79.42
2165	-9.76	7.27	15.47	116.89	45.87	39.90	64.55	72.71	81.17	148.05	33.05	40.72	64.06	80.89	80.32
2166	-8.91	7.27	15.47	138.90	54.00	40.28	72.18	81.13	87.10	174.98	45.58	41.57	71.92	87.92	86.14
2167	-8.06	7.27	15.47	161.12	65.89	41.44	79.93	92.25	100.01	200.45	60.95	43.65	79.85	96.82	99.18
2168	-7.21	7.26	15.47	180.04	76.58	42.86	84.23	106.65	122.72	221.03	74.39	45.85	84.34	108.19	122.34
2169	-6.37	7.26	15.47	182.55	86.03	43.17	80.12	123.93	155.54	224.71	85.96	46.08	80.37	122.17	156.22
2170	-5.52	7.26	15.47	140.74	81.74	39.31	42.11	132.29	169.62	181.29	84.70	39.38	41.91	125.73	171.86
2171	-4.67	7.26	15.47	191.95	67.41	37.63	44.72	135.37	164.15	239.10	71.59	38.95	44.85	126.54	168.13
2172	-3.82	7.26	15.47	154.42	44.10	47.01	23.90	177.96	160.61	202.66	51.41	55.92	23.80	171.20	166.57
2173	-2.97	7.26	15.47	71.16	28.63	45.54	5.22	186.77	136.27	130.91	39.32	59.00	9.41	179.89	144.08
2174	-2.12	7.25	15.47	61.37	16.70	49.92	5.34	169.15	103.34	126.57	31.74	64.46	10.17	161.83	113.19
2175	-1.27	7.25	15.47	72.93	12.92	56.83	8.28	183.09	77.48	129.56	32.07	71.55	10.61	176.98	92.28
2176	-0.42	7.25	15.47	38.89	13.59	45.16	11.29	200.57	52.07	109.23	33.74	62.36	16.71	196.68	75.71
2177	-14.85	3.97	13.78	25.16	52.61	71.87	42.47	47.01	147.66	31.10	16.37	96.34	41.77	56.32	148.67
2178	-13.89	3.97	13.78	32.03	50.19	69.99	46.79	49.23	139.43	49.71	18.68	85.23	46.19	62.94	140.03
2179	-12.94	3.97	13.78	39.51	47.99	68.49	52.86	52.69	134.27	69.52	21.97	77.34	52.39	68.92	134.53
2180	-11.98	3.97	13.78	47.09	46.15	66.83	59.93	57.07	132.33	88.81	25.83	71.85	59.58	73.97	132.34
2181	-11.02	3.97	13.78	54.31	44.77	65.05	67.25	62.14	133.74	106.39	29.93	68.48	67.00	77.70	133.58
2182	-10.06	3.97	13.78	60.50	43.81	63.26	73.81	67.49	138.51	120.97	33.92	66.82	73.62	79.25	138.30
2183	-9.10	3.96	13.78	64.85	42.95	61.31	77.70	72.56	146.08	131.36	37.38	65.89	77.55	76.97	145.89
2184	-8.15	3.96	13.78	67.64	41.32	58.55	76.43	77.11	153.76	138.27	39.72	62.77	76.30	69.50	153.68
2185	-7.19	3.96	13.78	72.67	39.32	55.08	75.04	82.37	161.19	150.56	40.68	57.11	74.96	63.52	161.29
2186	-6.23	3.96	13.78	67.22	34.74	51.44	59.56	87.77	164.50	149.79	40.26	49.75	59.44	59.88	164.92
2187	-5.27	3.96	13.78	69.41	30.40	48.27	51.53	92.05	160.84	162.12	38.90	44.76	51.42	59.71	161.70
2188	-4.31	3.96	13.78	61.13	25.63	46.12	36.71	97.59	152.78	163.99	38.54	46.37	36.74	66.99	154.12
2189	-3.35	3.96	13.78	51.54	21.87	43.64	25.04	100.28	136.30	163.70	39.51	50.05	25.71	72.22	138.11
2190	-2.40	3.95	13.78	44.46	19.45	41.40	18.17	100.93	116.96	164.64	41.22	52.88	20.14	77.15	119.30
2191	-1.44	3.95	13.78	39.74	18.23	39.68	14.92	100.91	97.86	167.20	43.18	54.27	18.43	84.41	100.97
2192	-0.48	3.95	13.78	36.53	18.08	38.53	13.63	100.50	79.39	170.94	45.57	54.09	18.62	94.41	83.75
2193	-14.52	5.10	13.78	32.10	50.70	72.27	42.82	57.92	144.44	37.54	15.61	93.89	41.76	66.36	145.88
2194	-13.58	5.10	13.78	39.84	48.47	70.23	46.18	59.81	136.52	55.12	17.55	83.34	45.24	71.44	137.37
2195	-12.65	5.10	13.78	48.22	46.52	68.68	51.03	62.80	131.19	74.03	20.66	75.91	50.26	75.99	131.55
2196	-11.71	5.09	13.78	56.86	45.09	67.07	56.74	66.85	128.79	92.69	24.74	70.73	56.15	79.91	128.77
2197	-10.77	5.09	13.78	65.23	44.36	65.38	62.70	71.70	129.49	109.94	29.45	67.41	62.26	82.86	129.23
2198	-9.84	5.09	13.78	72.57	44.31	63.72	68.02	76.93	133.38	124.57	34.35	65.54	67.68	84.05	133.04
2199	-8.90	5.08	13.78	77.98	44.38	61.95	71.14	81.91	140.08	135.49	38.72	64.15	70.87	82.23	139.78
2200	-7.96	5.08	13.78	81.32	43.63	59.42	69.58	86.22	147.26	143.13	41.92	60.85	69.34	76.52	147.13
2201	-7.03	5.08	13.78	89.58	41.02	56.41	69.98	92.50	156.09	157.81	42.15	56.07	69.82	74.43	156.26
2202	-6.09	5.07	13.78	80.41	35.15	53.35	54.33	98.38	161.06	153.96	40.34	50.90	54.08	73.81	161.72
2203	-5.15	5.07	13.78	80.90	32.85	51.15	44.51	102.40	155.90	163.58	41.60	48.84	44.28	74.03	157.20
2204	-4.22	5.07	13.78	74.50	28.00	50.30	31.16	108.59	147.51	166.56	41.01	52.73	31.21	81.46	149.51
2205	-3.28	5.06	13.78	63.40	22.05	49.56	21.12	113.54	132.94	165.21	39.44	58.18	22.08	88.98	136.67
2206	-2.34	5.06	13.78	52.72	19.09	47.92	14.66	116.64	115.09	163.64	40.11	61.63	17.54	95.85	118.71
2207	-1.41	5.06	13.78	44.34	18.21	45.67	11.00	117.20	96.52	164.65	42.36	62.78	16.75	102.06	101.38
2208	-0.47	5.05	13.78	39.09	18.43	43.67	9.48	116.95	78.01	167.62	45.17	62.31	17.77	109.81	84.80
2209	-14.11	6.21	13.78	39.43	48.40	72.77	43.06	69.18	140.57	44.69	14.69	90.95	41.64	76.86	142.33
2210	-13.20	6.20	13.78	47.62	46.39	70.54	45.36	70.55	132.90	61.10	16.28	81.12	44.06	80.25	133.92
2211	-12.29	6.20	13.78	56.63	44.77	68.94	48.84	73.15	127.42	78.95	19.23	74.24	47.75	83.43	127.82
2212	-11.38	6.20	13.78	66.01	43.79	67.37	53.06	76.86	124.58	96.79	23.52	69.41	52.18	86.20	124.51
2213	-10.47	6.19	13.78	75.22	43.72	65.78	57.48	81.47	124.56	113.53	28.78	66.20	56.79	88.32	124.21
2214	-9.56	6.19	13.78	83.54	44.55	64.25	61.38	86.60	127.55	128.14	34.48	64.15	60.84	89.24	127.11
2215	-8.65	6.18	13.78	90.05	45.64	62.68	63.53	91.75	133.41	139.71	39.80	62.46	63.08	88.26	133.05
2216	-7.74	6.18	13.78	94.06	45.00	60.63	62.17	96.50	140.76	148.22	42.69	59.78	61.77	85.19	140.69
2217	-6.83	6.18	13.78	99.24	48.50	58.02	57.62	102.60	148.02	158.91	49.68	56.00	57.25	84.39	148.39
2218	-5.92	6.17	13.78	97.28	43.94	55.45	47.61	108.08	152.62	163.19	48.19	53.04	47.18	85.21	153.55
2219	-5.01	6.17	13.78	90.91	33.23	53.97	38.33	114.52	151.10	164.46	41.28	53.79	37.83	89.61	152.87
2220	-4.10	6.17	13.78	85.60	28.68	53.83	25.77	119.45	144.42	168.17	40.73	59.14	25.53	94.86	147.23
2221	-3.19	6.16	13.78	76.87	23.69	55.23	15.75	126.05	131.56	168.22	40.19	67.00	16.81	103.79	135.47
2222	-2.28	6.16	13.78	62.23	18.98	54.61	8.76	132.80	114.38	163.17	39.74	71.49	13.43	113.96	119.70
2223	-1.37	6.16	13.78	49.47	17.28	51.87	6.81	134.07	95.19	161.93	41.08	72.38	15.42	119.67	102.36
2224	-0.46	6.15	13.78	42.30	17.91	49.31	6.54	134.10	76.45	163.96	43.62	71.91	17.71	125.85	86.39
2225	-13.61	7.28	13.78	46.68	45.71	73.37	43.18	80.13	136.14	51.97	13.67	87.70	41.43	86.94	138.01
2226	-12.73	7.27	13.78	55.25	44.12	70.95	44.21	81.27	128.51	67.41	15.00	78.70	42.57	89.02	129.57
2227	-11.86	7.27	13.78	64.57	42.81	69.27	46.29	83.50	122.99	84.10	17.88	72.45	44.86	90.90	123.37
2228	-10.98	7.27	13.78	74.32	42.26	67.74	48.93	86.87	119.71	100.91	22.35	68.07	47.72	92.62	119.59
2229	-10.10	7.27	13												



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
2255	-1.48	3.95	12.09	45.24	21.29	56.82	13.60	113.74	118.40	204.72	50.52	79.89	18.68	82.52	120.41
2256	-0.49	3.95	12.09	44.15	20.87	55.69	11.74	113.47	103.69	214.13	53.60	80.83	19.46	96.16	106.44
2257	-14.95	5.10	12.09	33.87	54.34	104.39	46.09	68.63	174.80	40.82	18.04	137.66	45.48	78.29	175.76
2258	-13.99	5.10	12.09	38.15	51.64	101.53	46.26	71.55	168.35	55.70	18.91	120.68	45.50	81.75	169.00
2259	-13.02	5.09	12.09	42.73	49.14	98.82	47.37	75.56	163.38	71.32	21.05	107.65	46.57	84.49	163.72
2260	-12.06	5.09	12.09	47.30	46.90	95.92	49.03	80.22	160.08	86.47	24.04	97.73	48.25	85.83	160.17
2261	-11.09	5.09	12.09	51.57	44.93	92.73	50.71	85.22	158.52	100.54	27.49	90.15	49.99	85.35	158.46
2262	-10.13	5.08	12.09	55.29	43.17	89.32	51.82	90.31	158.54	113.21	31.06	84.21	51.16	82.70	158.40
2263	-9.16	5.08	12.09	58.40	41.50	85.71	51.73	95.33	159.66	124.69	34.41	79.22	51.11	77.92	159.55
2264	-8.20	5.08	12.09	61.08	39.67	81.95	50.23	100.32	161.38	135.83	37.20	74.93	49.64	72.15	161.37
2265	-7.23	5.07	12.09	61.33	37.55	78.09	45.47	104.78	162.06	144.72	39.68	71.40	44.87	65.79	162.25
2266	-6.27	5.07	12.09	63.19	35.05	74.28	40.81	109.02	161.05	156.55	41.47	69.53	40.27	61.90	161.50
2267	-5.31	5.07	12.09	61.31	31.26	70.77	33.25	112.96	158.11	165.46	42.22	70.35	32.84	62.14	158.91
2268	-4.34	5.06	12.09	59.28	27.81	67.83	26.08	116.09	151.29	175.28	43.33	73.87	26.20	65.62	152.54
2269	-3.38	5.06	12.09	56.24	24.90	65.47	19.38	118.72	141.56	184.41	45.09	78.98	20.91	72.38	143.34
2270	-2.41	5.06	12.09	52.28	22.45	63.53	14.35	120.58	129.45	192.77	47.11	83.72	18.54	81.05	131.87
2271	-1.45	5.05	12.09	48.42	20.94	61.98	11.28	121.53	115.89	200.81	49.50	86.88	18.94	91.24	119.14
2272	-0.48	5.05	12.09	45.44	20.62	60.98	9.88	121.36	101.71	209.22	52.36	88.03	21.08	102.75	106.11
2273	-14.55	6.20	12.09	41.10	52.61	104.67	45.39	80.85	169.91	47.92	17.81	132.18	44.52	89.11	171.05
2274	-13.61	6.20	12.09	45.45	50.11	101.74	45.06	82.88	163.76	61.36	18.66	116.64	43.96	90.82	164.52
2275	-12.67	6.20	12.09	50.20	47.89	99.03	45.43	86.14	158.77	75.70	20.73	104.75	44.25	92.18	159.17
2276	-11.73	6.19	12.09	54.97	45.92	96.20	46.25	90.09	155.26	89.80	23.69	95.72	45.08	92.46	155.37
2277	-10.80	6.19	12.09	59.48	44.25	93.17	47.08	94.45	153.30	103.08	27.18	88.86	45.97	91.33	153.22
2278	-9.86	6.19	12.09	63.45	42.87	89.95	47.43	98.97	152.78	115.24	30.88	83.57	46.38	88.60	152.64
2279	-8.92	6.18	12.09	66.74	41.60	86.59	46.77	103.48	153.37	126.39	34.41	79.36	45.75	84.39	153.28
2280	-7.98	6.18	12.09	69.40	40.36	83.15	44.71	107.98	154.44	137.03	37.70	76.05	43.71	79.65	154.51
2281	-7.04	6.18	12.09	70.25	37.76	79.72	40.82	112.04	155.14	146.38	39.31	73.93	39.79	75.04	155.49
2282	-6.10	6.17	12.09	70.52	35.27	76.43	35.52	116.12	154.41	156.07	41.10	73.65	34.49	72.69	155.17
2283	-5.16	6.17	12.09	69.47	32.72	73.53	28.47	119.60	151.50	165.50	42.87	75.87	27.62	73.02	152.77
2284	-4.22	6.17	12.09	66.37	28.67	71.38	21.69	123.05	145.45	173.78	43.39	80.50	21.54	76.89	147.34
2285	-3.29	6.16	12.09	62.30	24.92	69.75	15.68	125.89	136.59	181.72	44.29	86.14	17.56	83.00	139.25
2286	-2.35	6.16	12.09	57.54	22.05	68.62	11.66	128.00	125.42	189.39	45.90	91.46	17.14	90.69	129.02
2287	-1.41	6.16	12.09	52.11	20.28	67.67	9.60	129.52	112.76	196.27	48.06	95.15	19.27	99.83	117.58
2288	-0.47	6.15	12.09	47.00	20.01	66.92	9.16	129.50	99.19	203.42	50.78	96.64	22.72	109.43	105.63
2289	-14.07	7.27	12.09	48.05	50.62	104.96	44.55	92.67	164.30	54.97	17.72	126.01	43.38	99.44	165.45
2290	-13.16	7.27	12.09	52.54	48.48	101.97	43.52	94.18	158.19	67.28	18.47	112.16	42.07	99.81	158.95
2291	-12.25	7.27	12.09	57.28	46.46	99.26	43.15	96.75	153.29	80.31	20.43	101.62	41.58	99.85	153.68
2292	-11.35	7.27	12.09	62.06	44.71	96.54	43.11	100.05	149.56	93.26	23.28	93.70	41.49	99.15	149.66
2293	-10.44	7.27	12.09	66.60	43.33	93.67	43.03	103.81	147.17	105.63	26.74	87.79	41.42	97.45	147.09
2294	-9.53	7.27	12.09	70.62	42.27	90.69	42.52	107.79	146.06	117.12	30.48	83.40	40.94	94.67	145.96
2295	-8.62	7.26	12.09	73.88	41.40	87.63	41.17	111.78	145.95	127.73	34.17	80.21	39.58	90.99	145.97
2296	-7.72	7.26	12.09	76.31	40.39	84.54	38.59	115.67	146.37	137.70	37.45	78.15	36.93	87.03	146.64
2297	-6.81	7.26	12.09	77.84	39.14	81.55	34.81	119.61	146.89	147.41	40.20	77.55	33.05	84.15	147.56
2298	-5.90	7.26	12.09	76.19	36.69	78.77	29.04	123.08	145.90	154.80	41.77	78.81	27.10	82.43	147.11
2299	-4.99	7.26	12.09	76.50	33.18	76.49	23.83	126.02	142.79	164.89	42.31	82.36	21.98	82.70	144.70
2300	-4.08	7.26	12.09	72.66	29.17	75.03	17.63	129.91	138.01	171.81	42.75	87.97	16.46	87.14	140.80
2301	-3.18	7.26	12.09	67.58	25.17	73.99	12.74	132.59	130.32	178.45	43.32	94.00	14.21	92.36	134.18
2302	-2.27	7.25	12.09	62.26	21.62	73.61	10.72	134.75	120.15	185.27	44.35	99.92	16.26	99.01	125.29
2303	-1.36	7.25	12.09	55.74	19.34	73.33	10.93	136.59	108.45	191.07	46.12	104.21	20.25	107.08	115.24
2304	-0.45	7.25	12.09	48.80	18.96	73.02	11.85	136.71	95.77	196.90	48.51	106.26	24.75	115.00	104.72
2305	-15.70	3.97	10.41	28.17	59.09	139.76	49.96	65.37	201.68	36.96	22.87	186.59	49.84	77.60	202.14
2306	-14.68	3.97	10.41	30.33	55.79	135.49	48.18	70.95	196.28	52.45	22.19	162.35	47.86	81.08	196.60
2307	-13.67	3.97	10.41	33.04	52.70	131.10	47.22	77.66	191.90	68.66	22.86	142.31	46.76	83.43	192.09
2308	-12.66	3.97	10.41	35.80	49.79	126.44	46.72	84.66	188.47	84.27	24.58	126.18	46.18	83.83	188.53
2309	-11.65	3.96	10.41	38.41	47.05	121.46	46.32	91.63	186.00	98.93	26.98	113.50	45.74	81.90	185.98
2310	-10.63	3.96	10.41	40.75	44.45	116.20	45.62	98.42	184.36	112.65	29.74	103.72	45.04	77.52	184.30
2311	-9.62	3.96	10.41	42.79	41.94	110.74	44.27	104.92	183.22	125.67	32.62	96.38	43.69	70.93	183.16
2312	-8.61	3.96	10.41	44.46	39.45	105.17	41.90	111.02	182.09	138.19	35.45	91.17	41.35	62.65	182.06
2313	-7.60	3.96	10.41	45.98	36.97	99.58	38.61	116.60	180.40	151.07	38.15	88.13	38.11	54.11	180.44
2314	-6.58	3.96	10.41	46.94	34.41	94.08	34.08	121.53	177.56	163.89	40.74	87.46	33.70	47.30	177.71
2315	-5.57	3.96	10.41	47.93	31.85	88.81	29.23	125.68	173.14	177.70	43.22	89.23	29.16	44.76	173.41
2316	-4.56	3.96	10.41	48.32	29.36	83.96	23.95	129.00	166.91	191.54	45.80	93.05	24.54	48.07	167.35
2317	-3.54	3.95	10.41	48.63	27.12	79.69	19.15	131.41	158.73	205.88	48.53	97.91	21.07	56.31	159.38
2318	-2.53	3.95	10.41	48.89	25.27	76.20	15.20	132.95	149.04	220.43	51.48	102.72	19.36	67.99	149.95
2319	-1.52	3.95	10.41	49.34	23.96	73.65	12.43	133.62	138.21	235.24	54.61	106.41	19.62	82.04	139.47
2320	-0.51	3.95	10.41	50.24	23.32	72.24	10.90	133.44	126.73	250.49	57.91	108.35	21.39	98.10	128.44
2321	-15.38	5.10	10.41	35.08	58.17	139.89	48.92	77.07	197.20	43.44	23.08	180.18	48.70	87.37	197.82
2322	-14.39	5.09	10.41	37.35	54.99	135.66	47.03	81.58	192.19	57.40	22.48	157.56	46.49	89.42	192.63
2323	-13.40	5.09	10.41	39.98	52.03	131.33	45.78	87.10	187.84	72.26	23.16	138.94	45.01	90.41	188.09
2324	-12.41	5.09	10.41	42.70	49.29	126.78	44.90	93.07	184.32	86.83	24.86	124.04	43.99	89.84	184.40
2325	-11.41	5.09	10.41	45.28	46.71	121.96	44.11	99.15	181.66	100.69	27.24	112.44	43.12	87.34	181.63
2326	-10.42	5.08	10.41	47.59	44.29	116.90	43.06	105.16	179.76	113.81	29.98	1			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
2353	-14.53	7.27	10.41	48.84	55.75	140.10	46.27	101.30	185.55	57.37	23.80	163.83	45.68	107.66	186.26
2354	-13.59	7.27	10.41	50.97	52.92	135.98	43.92	103.92	180.78	68.53	23.18	145.58	42.77	106.79	181.27
2355	-12.65	7.27	10.41	53.38	50.23	131.88	42.03	107.44	176.64	80.64	23.78	130.82	40.43	105.25	176.91
2356	-11.72	7.27	10.41	55.84	47.73	127.67	40.34	111.52	173.00	92.84	25.29	119.33	38.40	102.77	173.08
2357	-10.78	7.27	10.41	58.19	45.46	123.31	38.68	115.86	169.95	104.77	27.47	110.79	36.46	99.14	169.93
2358	-9.84	7.27	10.41	60.28	43.36	118.84	36.85	120.25	167.46	116.30	30.04	104.84	34.42	94.40	167.42
2359	-8.90	7.26	10.41	61.98	41.36	114.33	34.67	124.53	165.36	127.49	32.76	101.21	32.07	88.81	165.40
2360	-7.97	7.26	10.41	63.18	39.35	109.88	32.00	128.60	163.39	138.47	35.40	99.75	29.25	82.95	163.59
2361	-7.03	7.26	10.41	63.71	37.13	105.64	28.74	132.31	161.11	149.28	37.80	100.37	25.90	77.54	161.58
2362	-6.09	7.26	10.41	64.00	34.75	101.75	25.12	135.69	158.28	160.54	39.98	103.00	22.41	73.75	159.10
2363	-5.15	7.26	10.41	63.08	32.14	98.36	21.13	138.69	154.48	171.39	41.98	107.34	19.05	72.51	155.77
2364	-4.22	7.26	10.41	61.97	29.29	95.57	17.60	141.06	149.31	182.80	43.77	112.84	17.32	73.90	151.16
2365	-3.28	7.26	10.41	60.04	26.45	93.53	14.88	142.99	142.87	194.06	45.59	118.87	17.88	78.33	145.43
2366	-2.34	7.25	10.41	57.56	23.95	92.12	13.37	144.22	135.19	205.28	47.58	124.45	20.72	85.01	138.64
2367	-1.41	7.25	10.41	54.96	22.16	91.42	13.08	144.60	126.46	216.66	49.83	129.00	24.96	93.47	131.01
2368	-0.47	7.25	10.41	52.68	21.40	91.39	13.48	144.17	117.09	228.12	52.37	131.95	29.78	103.56	123.04
2369	-16.12	3.97	8.72	29.36	62.00	178.94	52.88	73.79	219.27	39.49	28.14	230.19	52.97	86.68	219.59
2370	-15.08	3.97	8.72	30.69	58.40	172.54	49.68	81.43	215.16	55.13	26.42	199.93	49.52	89.17	215.36
2371	-14.04	3.97	8.72	32.61	55.05	166.00	47.05	89.99	211.54	71.66	25.78	173.88	46.66	90.09	211.62
2372	-13.00	3.96	8.72	34.74	51.89	159.25	44.79	98.64	208.28	87.76	26.14	152.32	44.22	88.88	208.27
2373	-11.96	3.96	8.72	36.85	48.91	152.29	42.68	107.07	205.42	103.05	27.36	135.33	41.97	85.36	205.35
2374	-10.92	3.96	8.72	38.82	46.08	145.15	40.50	115.13	202.90	117.56	29.22	122.79	39.72	79.58	202.80
2375	-9.88	3.96	8.72	40.61	43.38	137.90	38.06	122.73	200.55	131.50	31.52	114.39	37.25	71.87	200.44
2376	-8.84	3.96	8.72	42.24	40.77	130.61	35.22	129.81	198.09	145.26	34.09	109.73	34.44	62.88	198.01
2377	-7.80	3.96	8.72	43.72	38.23	123.38	31.90	136.25	195.23	159.12	36.82	108.36	31.22	53.66	195.20
2378	-6.76	3.96	8.72	45.15	35.76	116.34	28.20	141.95	191.65	173.57	39.66	109.79	27.80	46.00	191.68
2379	-5.72	3.96	8.72	46.47	33.39	109.62	24.21	146.81	187.09	188.67	42.61	113.41	24.36	42.37	187.19
2380	-4.68	3.96	8.72	47.87	31.16	103.41	20.29	150.75	181.39	204.74	45.66	118.46	21.52	44.74	181.60
2381	-3.64	3.95	8.72	49.31	29.15	97.92	16.68	153.70	174.57	221.72	48.85	124.11	19.78	52.83	174.90
2382	-2.60	3.95	8.72	50.94	27.47	93.38	13.71	155.63	166.69	239.76	52.18	129.51	19.63	64.91	167.19
2383	-1.56	3.95	8.72	52.88	26.22	90.06	11.62	156.56	158.01	258.94	55.64	133.91	21.03	79.66	158.72
2384	-0.52	3.95	8.72	55.22	25.50	88.15	10.45	156.48	148.80	279.40	59.16	136.72	23.60	96.52	149.78
2385	-15.81	5.10	8.72	36.08	61.59	179.12	51.54	84.86	214.67	45.84	28.61	222.37	51.64	95.52	215.11
2386	-14.79	5.09	8.72	37.34	58.05	172.83	48.43	91.30	210.90	59.90	26.97	194.10	48.13	96.72	211.17
2387	-13.77	5.09	8.72	39.01	54.74	166.42	45.74	98.55	207.32	75.04	26.38	169.93	45.07	96.45	207.42
2388	-12.75	5.09	8.72	40.88	51.67	159.85	43.33	106.08	204.04	90.04	26.78	150.11	42.36	94.39	204.02
2389	-11.73	5.08	8.72	42.75	48.78	153.09	41.06	113.54	201.12	104.48	27.99	134.70	39.85	90.38	201.00
2390	-10.71	5.08	8.72	44.48	46.04	146.20	38.74	120.76	198.48	118.31	29.81	123.59	37.37	84.49	198.32
2391	-9.69	5.08	8.72	46.02	43.41	139.23	36.20	127.61	195.97	131.69	32.04	116.46	34.76	77.04	195.82
2392	-8.67	5.07	8.72	47.38	40.87	132.28	33.36	134.01	193.40	144.95	34.51	112.90	31.93	68.68	193.29
2393	-7.65	5.07	8.72	48.48	38.38	125.47	30.10	139.84	190.45	158.28	37.12	112.47	28.82	60.39	190.42
2394	-6.63	5.07	8.72	49.51	35.93	118.92	26.58	145.02	186.88	172.17	39.80	114.61	25.71	53.68	186.95
2395	-5.61	5.07	8.72	50.33	33.50	112.79	22.87	149.44	182.46	186.60	42.52	118.73	22.85	50.39	182.67
2396	-4.59	5.06	8.72	51.11	31.18	107.24	19.29	153.02	177.00	201.88	45.35	124.11	20.92	51.90	177.38
2397	-3.57	5.06	8.72	51.88	29.07	102.46	16.13	155.70	170.50	217.99	48.31	129.96	20.45	58.29	171.09
2398	-2.55	5.06	8.72	52.75	27.28	98.63	13.69	157.44	163.04	235.02	51.40	135.50	21.72	68.49	163.90
2399	-1.53	5.05	8.72	53.89	25.94	95.94	12.17	158.22	154.81	253.07	54.61	140.05	24.45	81.49	156.01
2400	-0.51	5.05	8.72	55.44	25.18	94.53	11.53	158.03	146.07	272.26	57.90	143.06	28.19	96.70	147.72
2401	-15.44	6.20	8.72	42.95	61.04	179.31	49.96	96.71	209.12	52.75	29.16	213.06	50.03	105.04	209.63
2402	-14.44	6.19	8.72	43.95	57.54	173.16	46.93	101.82	205.54	65.17	27.58	187.24	46.43	104.71	205.84
2403	-13.44	6.19	8.72	45.41	54.33	166.93	44.15	107.88	202.02	78.88	27.01	165.39	43.11	103.28	202.12
2404	-12.45	6.19	8.72	47.05	51.32	160.58	41.60	114.31	198.76	92.68	27.41	147.73	40.11	100.35	198.70
2405	-11.45	6.19	8.72	48.68	48.50	154.09	39.17	120.77	195.77	106.14	28.60	134.29	37.30	95.82	195.61
2406	-10.46	6.18	8.72	50.18	45.85	147.52	36.71	127.09	193.00	119.17	30.36	124.93	34.56	89.80	192.81
2407	-9.46	6.18	8.72	51.47	43.32	140.93	34.11	133.12	190.35	131.87	32.50	119.34	31.78	82.59	190.17
2408	-8.47	6.18	8.72	52.55	40.86	134.41	31.28	138.76	187.62	144.49	34.87	117.09	28.90	74.81	187.52
2409	-7.47	6.17	8.72	53.35	38.40	128.11	28.17	143.91	184.59	157.22	37.30	117.70	25.94	67.30	184.61
2410	-6.47	6.17	8.72	53.94	35.95	122.15	24.89	148.49	181.03	170.35	39.80	120.63	23.16	61.32	181.20
2411	-5.48	6.17	8.72	54.32	33.53	116.68	21.55	152.39	176.73	184.03	42.34	125.29	21.00	58.19	177.11
2412	-4.48	6.16	8.72	54.51	31.13	111.86	18.46	155.56	171.54	198.35	44.91	131.00	21.55	58.97	172.17
2413	-3.49	6.16	8.72	54.63	28.91	107.84	15.91	157.91	165.42	213.41	47.58	137.04	20.96	63.83	166.37
2414	-2.49	6.16	8.72	54.75	26.99	104.77	14.16	159.41	158.44	229.24	50.37	142.72	23.54	72.19	159.79
2415	-1.49	6.15	8.72	55.07	25.55	102.74	13.29	160.00	150.76	245.93	53.28	147.42	27.39	83.30	152.62
2416	-0.50	6.15	8.72	55.75	24.72	101.84	13.17	159.66	142.59	263.57	56.29	150.65	32.09	96.65	145.10
2417	-14.98	7.27	8.72	49.46	60.30	179.49	48.28	108.37	202.76	59.57	29.77	202.65	48.26	114.20	203.25
2418	-14.02	7.27	8.72	50.40	56.95	173.50	45.15	112.60	199.04	70.74	28.15	179.72	44.37	112.71	199.31
2419	-13.05	7.27	8.72	51.63	53.76	167.50	42.33	117.55	195.68	83.03	27.61	160.61	40.85	110.14	195.74
2420	-12.08	7.27	8.72	53.01	50.79	161.44	39.69	122.91	192.44	95.57	27.97	145.50	37.54	106.37	192.34
2421	-11.12	7.27	8.72	54.39	48.05	155.30	37.12	128.39	189.39	107.96	29.09	134.38	34.40	101.36	189.20
2422	-10.15	7.26	8.72	55.66	45.49	149.13	34.57	133.80	186.50	120.09	30.78	127.07	31.37	95.20	186.29
2423	-9.18	7.26	8.72	56.70	43.03	142.99	31.95	138.97	183.69	132.01	32.82	123.22	28.39	88.22	183.52
2424	-8.22	7.26	8.72	57.48	40.64	1									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
2451	-14.15	5.09	7.03	39.29	57.03	203.86	46.74	110.24	223.58	78.83	30.47	200.74	46.21	103.47	223.52
2452	-13.10	5.08	7.03	40.82	53.76	194.89	43.41	119.28	220.78	94.45	29.70	175.75	42.43	100.03	220.59
2453	-12.05	5.08	7.03	42.37	50.69	185.90	40.23	128.11	218.01	109.33	29.67	156.58	38.87	94.48	217.75
2454	-11.01	5.08	7.03	43.84	47.79	176.93	37.11	136.59	215.27	123.46	30.33	143.39	35.47	87.14	214.98
2455	-9.96	5.08	7.03	45.16	45.02	168.04	33.97	144.63	212.48	137.04	31.58	135.83	32.19	78.48	212.19
2456	-8.91	5.07	7.03	46.35	42.37	159.28	30.77	152.13	209.51	150.41	33.32	133.11	29.00	69.16	209.26
2457	-7.86	5.07	7.03	47.45	39.82	150.72	27.49	158.99	206.24	163.96	35.43	134.18	25.99	60.09	206.05
2458	-6.81	5.07	7.03	48.50	37.37	142.49	24.18	165.11	202.51	178.05	37.85	137.94	23.33	52.56	202.40
2459	-5.76	5.06	7.03	49.60	35.03	134.75	20.95	170.38	198.19	193.05	40.53	143.43	21.38	48.26	198.17
2460	-4.72	5.06	7.03	50.81	32.84	127.68	17.96	174.71	193.20	209.21	43.41	149.80	20.57	48.67	193.28
2461	-3.67	5.06	7.03	52.23	30.86	121.53	15.43	178.02	187.52	226.78	46.49	156.33	21.24	54.03	187.72
2462	-2.62	5.06	7.03	53.95	29.18	116.53	13.55	180.26	181.18	245.99	49.72	162.40	23.41	63.40	181.54
2463	-1.57	5.05	7.03	56.10	27.89	112.93	12.43	181.37	174.31	267.08	53.08	167.49	26.79	75.65	174.86
2464	-0.52	5.05	7.03	58.76	27.08	110.91	12.05	181.34	167.04	290.31	56.49	171.18	31.07	90.11	167.85
2465	-15.88	6.19	7.03	43.82	64.31	221.98	52.39	103.97	223.74	55.01	34.83	254.91	52.92	112.22	224.16
2466	-14.86	6.19	7.03	44.33	60.49	213.41	48.75	111.01	221.10	68.05	32.62	223.36	48.60	111.70	221.22
2467	-13.83	6.19	7.03	45.34	57.01	204.78	45.25	118.77	218.32	82.46	31.18	196.05	44.39	109.48	218.21
2468	-12.81	6.19	7.03	46.55	53.76	196.10	41.95	126.69	215.57	96.85	30.51	173.77	40.42	105.32	215.28
2469	-11.78	6.18	7.03	47.79	50.73	187.43	38.79	134.51	212.80	110.74	30.57	157.06	36.68	99.40	212.43
2470	-10.76	6.18	7.03	48.95	47.88	178.82	35.70	142.07	210.01	124.07	31.27	145.96	33.13	92.00	209.60
2471	-9.73	6.18	7.03	49.98	45.17	170.33	32.64	149.26	207.14	136.99	32.50	140.06	29.79	83.56	206.76
2472	-8.71	6.17	7.03	50.86	42.56	162.03	29.58	155.98	204.11	149.75	34.15	138.55	26.68	74.69	203.79
2473	-7.68	6.17	7.03	51.61	40.04	154.02	26.51	162.14	200.80	162.70	36.14	140.43	23.92	66.19	200.57
2474	-6.66	6.17	7.03	52.28	37.59	146.42	23.49	167.62	197.09	176.13	38.38	144.70	21.76	59.14	196.97
2475	-5.63	6.17	7.03	52.93	35.23	139.39	20.64	172.33	192.86	190.34	40.83	150.47	20.63	54.84	192.88
2476	-4.61	6.16	7.03	53.62	33.00	133.11	18.12	176.19	188.05	205.59	43.46	156.97	20.94	54.42	188.23
2477	-3.59	6.16	7.03	54.45	30.96	127.77	16.14	179.12	182.64	222.08	46.26	163.56	22.84	58.28	183.00
2478	-2.56	6.16	7.03	55.52	29.21	123.56	14.83	181.06	176.65	240.02	49.20	169.67	26.16	65.91	177.24
2479	-1.54	6.15	7.03	56.95	27.84	120.66	14.24	181.95	170.17	259.60	52.26	174.81	30.57	76.48	171.06
2480	-0.51	6.15	7.03	58.85	26.96	119.18	14.27	181.77	163.35	281.07	55.36	178.61	35.80	89.38	164.62
2481	-15.44	7.27	7.03	50.18	64.08	222.44	50.58	115.09	217.54	61.78	35.45	243.32	51.14	120.44	217.98
2482	-14.45	7.27	7.03	50.56	60.33	214.14	46.94	121.16	214.67	73.49	33.19	215.14	46.59	118.81	214.74
2483	-13.45	7.27	7.03	51.30	56.84	205.87	43.56	127.75	212.05	86.43	31.85	191.20	42.27	115.58	211.85
2484	-12.45	7.27	7.03	52.21	53.61	197.57	40.34	134.56	209.35	99.52	31.27	172.10	38.11	110.73	208.96
2485	-11.46	7.26	7.03	53.16	50.63	189.31	37.24	141.36	206.58	112.34	31.40	158.22	34.16	104.44	206.10
2486	-10.46	7.26	7.03	54.04	47.84	181.15	34.25	147.97	203.75	124.78	32.14	149.50	30.46	96.97	203.25
2487	-9.46	7.26	7.03	54.79	45.19	173.15	31.34	154.27	200.83	136.92	33.35	145.45	27.04	88.73	200.36
2488	-8.47	7.26	7.03	55.37	42.63	165.42	28.48	160.16	197.74	148.97	34.94	145.25	23.99	80.26	197.36
2489	-7.47	7.26	7.03	55.79	40.14	158.05	25.70	165.55	194.39	161.18	36.79	148.00	21.49	72.23	194.14
2490	-6.48	7.26	7.03	56.10	37.71	151.17	23.06	170.33	190.70	173.83	38.86	152.78	19.89	65.52	190.62
2491	-5.48	7.26	7.03	56.32	35.35	144.92	20.68	174.44	186.58	187.14	41.08	158.82	19.63	61.15	186.69
2492	-4.48	7.26	7.03	56.55	33.10	139.47	18.72	177.78	181.97	201.33	43.45	165.44	21.03	59.98	182.31
2493	-3.49	7.25	7.03	56.82	31.01	134.97	17.32	180.27	176.85	216.57	45.95	172.06	24.01	62.45	177.45
2494	-2.49	7.25	7.03	57.26	29.20	131.55	16.57	181.86	171.24	233.03	48.57	178.19	28.27	68.36	172.18
2495	-1.49	7.25	7.03	57.97	27.76	129.33	16.43	182.50	165.22	250.89	51.27	183.39	33.51	77.16	166.56
2496	-0.50	7.25	7.03	59.10	26.81	128.39	16.78	182.15	158.89	270.31	54.01	187.31	39.48	88.35	160.76
2497	-16.96	3.97	5.34	32.32	65.83	266.00	58.21	92.34	246.15	45.35	39.95	319.79	58.70	106.30	246.37
2498	-15.87	3.97	5.34	33.52	61.98	254.05	53.87	103.82	244.01	63.02	37.36	275.27	54.02	108.62	244.01
2499	-14.77	3.96	5.34	35.20	58.38	241.91	49.75	115.41	241.83	81.06	35.04	235.06	49.53	107.10	241.69
2500	-13.68	3.96	5.34	37.00	55.00	229.91	45.77	126.68	239.47	98.06	33.10	201.62	45.19	102.30	239.24
2501	-12.59	3.96	5.34	38.68	51.81	218.22	41.89	137.56	237.02	113.54	31.65	176.28	41.03	94.85	236.75
2502	-11.49	3.96	5.34	40.16	48.77	206.84	38.10	148.02	234.49	127.59	30.77	159.48	37.04	85.53	234.21
2503	-10.40	3.96	5.34	41.45	45.87	195.69	34.37	158.01	231.85	140.64	30.57	150.61	33.23	75.12	231.59
2504	-9.30	3.96	5.34	42.61	43.10	184.71	30.68	167.42	229.02	153.28	31.07	148.17	29.61	64.44	228.78
2505	-8.21	3.96	5.34	43.75	40.46	173.90	27.03	176.12	225.89	166.09	32.23	150.32	26.24	54.45	225.69
2506	-7.11	3.96	5.34	44.96	37.97	163.35	23.46	183.96	222.35	179.64	34.00	155.33	23.26	46.44	222.19
2507	-6.02	3.96	5.34	46.38	35.64	153.21	20.05	190.78	218.32	194.42	36.28	161.89	20.90	42.08	218.20
2508	-4.92	3.95	5.34	48.11	33.50	143.75	16.89	196.47	213.73	210.90	39.00	169.03	19.52	42.73	213.66
2509	-3.83	3.95	5.34	50.25	31.61	135.29	14.13	200.92	208.59	229.47	42.07	176.07	19.43	48.22	208.56
2510	-2.74	3.95	5.34	52.91	30.02	128.20	11.96	204.06	202.91	250.53	45.41	182.49	20.72	57.23	202.93
2511	-1.64	3.95	5.34	56.19	28.80	122.89	10.51	205.83	196.78	274.51	48.94	187.88	23.23	68.51	196.86
2512	-0.55	3.95	5.34	60.16	28.02	119.68	9.83	206.20	190.30	301.87	52.56	191.91	26.67	81.43	190.45
2513	-16.68	5.09	5.34	38.48	66.21	266.53	56.64	101.48	241.82	51.25	40.24	310.18	57.38	112.79	242.14
2514	-15.60	5.09	5.34	39.45	62.37	254.95	52.52	111.85	239.97	67.30	37.77	268.52	52.71	114.05	239.95
2515	-14.53	5.08	5.34	40.73	58.77	243.10	48.54	122.29	237.81	83.91	35.60	231.13	48.12	111.71	237.57
2516	-13.45	5.08	5.34	42.13	55.41	231.36	44.66	132.57	235.47	99.83	33.86	200.35	43.67	106.48	235.10
2517	-12.37	5.08	5.34	43.45	52.24	219.91	40.89	142.56	233.00	114.49	32.60	177.35	39.41	98.90	232.58
2518	-11.30	5.08	5.34	44.61	49.23	208.77	37.19	152.21	230.44	127.94	31.88	162.45	35.38	89.69	229.99
2519	-10.22	5.07	5.34	45.59	46.35	197.92	33.57	161.44	227.73	140.52	31.77	154.96	31.60	79.56	227.31
2520	-9.15	5.07	5.34	46.45	43.60	187.31	30.02	170.15	224.83	152.75	32.26	153.41	28.13	69.28	224.46
2521	-8.07	5.07	5.34	47.27	40.97	176.98	26.56	178.20	221.66	165.15	33.35	156.05	25.06	59.74	221.34
2522	-6.99	5.07	5.34	48.13											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
2549	-11.80	7.26	5.34	53.59	53.01	224.73	38.48	154.51	222.12	116.96	34.69	181.63	35.13	107.91	221.33
2550	-10.77	7.26	5.34	54.18	50.11	214.35	35.16	162.30	219.49	128.89	34.34	171.52	30.98	98.90	218.68
2551	-9.74	7.26	5.34	54.61	47.33	204.37	31.96	169.76	216.68	140.24	34.44	167.40	27.27	89.31	215.92
2552	-8.72	7.26	5.34	54.90	44.65	194.79	28.91	176.79	213.67	151.36	34.99	167.95	24.14	79.77	213.00
2553	-7.69	7.26	5.34	55.10	42.07	185.69	26.03	183.29	210.42	162.63	35.96	171.74	21.81	70.93	209.87
2554	-6.67	7.26	5.34	55.26	39.60	177.16	23.39	189.14	206.89	174.43	37.31	177.54	20.61	63.56	206.48
2555	-5.64	7.26	5.34	55.48	37.24	169.33	21.08	194.21	203.03	187.13	39.00	184.37	20.88	58.49	202.76
2556	-4.62	7.26	5.34	55.81	35.03	162.39	19.22	198.40	198.81	201.03	40.99	191.53	22.74	56.47	198.69
2557	-3.59	7.25	5.34	56.36	33.02	156.54	17.91	201.62	194.22	216.44	43.26	198.48	26.05	57.87	194.27
2558	-2.56	7.25	5.34	57.24	31.29	151.97	17.21	203.80	189.28	233.65	45.73	204.82	30.56	62.48	189.51
2559	-1.54	7.25	5.34	58.54	29.91	148.85	17.09	204.87	184.04	252.95	48.37	210.21	36.03	69.76	184.48
2560	-0.51	7.25	5.34	60.37	28.96	147.29	17.46	204.80	178.57	274.66	51.09	214.37	42.34	79.17	179.26
2561	12.23	8.10	17.16	20.72	36.82	13.58	22.17	11.05	17.80	16.86	42.43	13.68	18.52	15.60	28.92
2562	11.83	8.70	17.16	22.50	33.71	13.87	22.08	12.88	18.55	18.31	35.67	13.91	16.93	18.45	29.79
2563	11.44	8.10	17.16	36.49	43.38	14.04	27.45	11.06	13.55	32.81	53.09	15.34	23.83	20.48	27.84
2564	11.07	8.70	17.16	38.31	41.22	14.29	25.81	12.69	14.40	35.42	46.73	15.09	21.55	22.39	28.42
2565	10.65	8.10	17.16	54.78	54.05	14.20	34.69	13.67	11.26	53.89	65.91	15.92	33.22	26.02	26.54
2566	10.30	8.70	17.16	56.86	53.15	14.44	31.12	14.63	12.02	57.30	60.66	15.50	29.78	27.98	27.00
2567	9.86	8.10	17.16	76.81	67.67	14.29	43.06	16.49	10.17	81.05	80.24	15.86	44.22	33.95	25.06
2568	9.54	8.70	17.16	79.72	67.95	14.54	37.27	18.12	10.78	85.16	76.39	15.45	39.32	33.97	25.64
2569	9.07	8.10	17.16	104.52	84.51	14.51	52.60	21.46	10.27	115.38	96.92	15.79	56.40	40.78	23.87
2570	8.78	8.70	17.16	108.38	85.61	14.81	44.00	23.48	10.65	119.65	94.43	15.47	49.44	40.12	24.81
2571	8.28	8.10	17.16	140.98	106.16	15.10	64.01	28.97	12.53	158.89	118.26	16.09	70.42	48.24	24.13
2572	8.01	8.70	17.16	146.44	107.87	15.49	50.80	31.94	12.12	163.60	117.31	15.90	59.66	47.62	25.11
2573	7.49	8.10	17.16	191.95	138.02	16.21	77.85	41.86	19.75	216.45	150.72	16.89	87.15	59.16	29.14
2574	7.25	8.70	17.16	199.32	134.58	17.19	56.01	46.47	16.21	221.82	145.35	17.38	68.47	59.81	27.91
2575	6.70	8.10	17.16	268.36	172.37	19.19	89.61	67.65	34.41	298.98	187.23	19.56	102.33	82.07	42.86
2576	6.49	8.70	17.16	271.17	165.24	20.56	60.95	71.73	24.80	298.08	178.37	20.58	77.28	82.28	35.76
2577	5.92	8.10	17.16	375.52	211.18	22.98	106.26	117.30	63.77	412.17	229.35	23.01	122.15	129.98	73.59
2578	5.72	8.70	17.16	365.62	192.15	25.71	78.77	110.35	51.11	395.21	208.53	25.85	100.43	118.15	63.49
2579	5.13	8.10	17.16	566.61	235.91	24.68	235.21	198.10	198.06	610.52	259.35	31.58	263.07	209.62	219.81
2580	4.96	8.70	17.16	515.99	380.13	28.05	99.39	183.90	188.33	549.64	419.82	42.44	129.41	190.38	213.64
2581	4.34	8.10	17.16	115.51	88.26	80.68	28.39	346.83	280.34	135.08	99.21	100.51	37.81	366.90	312.14
2582	4.20	8.70	17.16	270.41	270.69	77.79	33.82	327.37	284.13	287.04	304.16	105.45	42.56	339.70	319.82
2583	3.55	8.10	17.16	30.66	6.18	41.43	15.76	315.88	180.52	54.76	4.92	59.37	20.64	330.69	208.53
2584	3.43	8.70	17.16	81.20	64.25	61.68	2.25	360.55	206.99	97.09	74.14	90.43	15.67	371.75	241.19
2585	2.76	8.10	17.16	78.28	24.90	16.26	36.78	286.10	117.44	98.09	25.11	38.85	45.45	293.79	147.82
2586	2.67	8.70	17.16	38.71	36.75	33.99	6.53	340.46	137.55	57.64	45.78	67.58	13.24	347.15	173.79
2587	1.97	8.10	17.16	10.83	17.22	18.02	3.15	289.73	87.52	41.06	26.48	48.49	8.30	294.53	127.40
2588	1.91	8.70	17.16	12.45	22.79	21.20	8.77	327.87	92.98	40.31	32.58	61.33	11.10	331.37	135.46
2589	1.18	8.10	17.16	200.57	38.06	22.52	19.06	234.56	43.03	202.14	39.45	41.18	32.05	238.92	83.88
2590	1.14	8.70	17.16	212.23	36.17	28.63	15.90	269.12	52.26	214.08	36.58	50.26	27.84	273.32	94.09
2591	0.39	8.10	17.16	75.98	17.33	11.77	5.50	205.67	9.07	86.96	17.91	20.99	5.36	205.73	49.38
2592	0.38	8.70	17.16	75.58	8.74	11.96	7.57	231.64	14.75	85.84	11.81	21.83	7.49	231.39	58.27
2593	12.70	8.10	15.47	17.40	41.62	42.15	19.73	27.34	34.92	20.32	41.27	44.42	11.38	51.06	66.51
2594	12.31	8.70	15.47	18.75	39.51	43.07	19.93	30.79	36.27	22.54	37.60	44.52	10.79	55.88	68.52
2595	11.88	8.10	15.47	27.50	43.29	43.56	22.10	30.55	28.82	37.05	47.38	50.53	17.64	65.48	64.69
2596	11.52	8.70	15.47	28.65	41.62	44.26	21.20	33.78	30.22	39.01	43.72	48.87	16.38	68.04	66.17
2597	11.06	8.10	15.47	39.65	47.29	44.32	26.43	35.02	24.66	57.21	54.83	52.96	25.65	79.35	62.75
2598	10.73	8.70	15.47	40.67	46.36	44.97	24.08	38.13	26.00	58.46	51.57	50.54	23.52	79.81	63.98
2599	10.24	8.10	15.47	53.79	53.96	44.76	31.94	41.02	22.23	79.39	63.68	52.73	34.17	92.14	60.49
2600	9.93	8.70	15.47	54.98	53.77	45.46	27.91	44.15	23.43	79.94	61.00	50.29	31.09	90.70	61.80
2601	9.42	8.10	15.47	69.99	63.21	45.37	38.14	48.84	21.41	102.87	73.98	51.62	42.96	103.36	58.29
2602	9.14	8.70	15.47	71.19	63.60	46.22	32.15	52.17	22.38	102.41	71.91	49.60	38.62	100.21	60.09
2603	8.60	8.10	15.47	88.17	75.12	46.59	44.59	59.06	22.82	127.04	86.33	50.87	51.83	113.03	57.27
2604	8.34	8.70	15.47	89.24	75.77	47.79	36.11	62.81	23.14	125.56	84.81	49.63	45.67	108.77	59.45
2605	7.78	8.10	15.47	107.49	88.79	48.97	50.38	72.66	28.56	150.97	100.41	51.37	60.05	122.13	59.74
2606	7.55	8.70	15.47	108.01	90.10	50.86	39.29	76.96	26.99	148.21	99.91	51.40	51.92	117.55	61.44
2607	6.96	8.10	15.47	123.62	103.87	53.07	54.65	90.58	41.39	170.70	116.18	53.89	66.84	132.46	69.22
2608	6.75	8.70	15.47	124.02	104.70	56.11	41.21	94.82	35.89	167.37	115.60	55.87	56.96	127.76	68.36
2609	6.14	8.10	15.47	127.05	112.00	59.43	54.56	110.29	60.56	177.54	125.38	59.27	69.37	143.14	86.71
2610	5.96	8.70	15.47	130.58	118.06	61.24	39.44	113.71	51.01	177.44	130.50	61.37	57.77	138.36	82.20
2611	5.32	8.10	15.47	89.41	104.57	55.44	19.24	117.22	64.55	148.41	118.15	56.38	35.61	142.10	90.28
2612	5.16	8.70	15.47	109.04	81.03	59.53	30.77	124.79	57.34	162.32	89.95	63.33	49.13	142.35	87.71
2613	4.51	8.10	15.47	153.68	105.29	45.91	31.68	126.66	66.19	211.72	121.30	53.23	52.11	144.88	92.87
2614	4.37	8.70	15.47	138.52	80.47	51.89	30.10	140.45	62.90	195.43	90.90	64.08	50.77	153.76	93.10
2615	3.69	8.10	15.47	107.56	86.30	36.30	5.81	173.62	74.63	169.07	103.91	56.24	32.10	189.81	105.03
2616	3.58	8.70	15.47	118.40	88.43	42.06	8.78	171.73	69.22	176.11	103.37	66.55	32.31	182.85	101.83
2617	2.87	8.10	15.47	48.96	64.24	34.35	14.18	187.21	54.91	124.70	81.35	59.06	26.58	199.14	90.72
2618	2.78	8.70	15.47	69.45	63.28	37.70	17.59	196.13	52.19	137.43	78.15	70.29	30.62	204.52	89.98
2619	2.05	8.10	15.47	29.42	40.38	31.44	12.90	181.01	29.79	116.34	56.08	59.37	23.98	188.86	72.84
2620	1.99	8.70	15.47	33.06	47.66	35.71	23.21	199.72	33.38	116.39	62.53	70.80	30.02	205.52	77.32
2621	1.23														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
2647	3.82	8.10	13.78	51.98	51.59	66.43	11.49	121.78	14.58	174.63	70.47	78.92	37.62	146.67	66.93
2648	3.72	8.70	13.78	49.58	55.51	68.62	13.68	125.75	16.02	168.70	72.61	86.42	37.80	144.46	70.41
2649	2.97	8.10	13.78	46.72	44.31	59.29	12.01	133.28	14.59	172.50	64.71	80.94	34.53	149.48	65.08
2650	2.89	8.70	13.78	44.60	48.72	63.29	18.58	135.79	16.50	167.25	67.31	89.58	36.34	146.95	68.78
2651	2.12	8.10	13.78	37.81	36.43	56.38	16.74	146.72	22.80	165.34	58.89	84.13	32.79	154.56	65.27
2652	2.06	8.70	13.78	37.57	38.23	60.31	23.53	149.70	24.15	161.99	58.80	92.56	36.32	153.81	68.48
2653	1.27	8.10	13.78	31.79	28.05	56.23	19.64	154.65	37.42	159.56	51.97	87.30	30.74	155.14	68.88
2654	1.24	8.70	13.78	31.17	29.33	59.62	27.53	158.75	37.25	156.40	51.73	95.27	35.80	156.86	71.31
2655	0.42	8.10	13.78	35.53	20.59	57.54	20.73	158.76	54.27	156.94	46.50	89.98	29.31	153.18	76.87
2656	0.41	8.70	13.78	35.99	20.41	60.66	29.31	162.84	52.98	154.17	45.42	97.41	35.40	155.87	78.06
2657	13.64	8.10	12.09	14.78	54.83	110.10	20.47	45.64	40.29	56.95	31.24	161.30	30.27	119.25	110.64
2658	13.28	8.70	12.09	15.66	53.40	112.16	21.57	48.95	42.37	60.65	30.61	152.36	31.30	123.14	114.48
2659	12.76	8.10	12.09	19.74	52.37	111.17	20.73	54.56	35.43	81.18	36.16	164.60	39.31	157.27	112.46
2660	12.42	8.70	12.09	20.34	50.84	112.62	21.40	57.34	37.34	83.65	35.24	152.55	39.61	155.80	115.17
2661	11.88	8.10	12.09	25.67	50.10	110.77	21.34	62.59	32.71	110.48	41.65	158.14	46.08	186.27	110.81
2662	11.57	8.70	12.09	25.77	48.86	111.96	21.56	65.04	34.36	110.39	40.50	145.32	46.26	180.48	113.13
2663	11.00	8.10	12.09	31.29	48.40	109.29	22.20	69.89	31.72	137.67	47.62	144.98	51.81	204.75	107.62
2664	10.71	8.70	12.09	30.95	47.44	110.49	21.90	72.18	33.07	135.25	46.09	133.45	51.92	196.04	109.78
2665	10.12	8.10	12.09	36.38	47.31	107.27	23.01	76.76	31.80	161.88	53.07	129.55	55.89	214.35	103.28
2666	9.85	8.70	12.09	35.53	46.55	108.68	22.21	78.92	32.90	156.98	51.04	120.74	55.92	203.50	105.70
2667	9.24	8.10	12.09	40.59	46.72	105.02	23.48	83.35	32.25	181.70	57.79	114.95	58.34	216.14	98.38
2668	9.00	8.70	12.09	39.26	46.13	106.74	22.23	85.40	33.22	174.79	55.48	109.64	58.23	204.18	101.01
2669	8.36	8.10	12.09	43.73	46.40	102.69	23.36	89.78	32.72	196.72	61.65	103.50	59.27	211.80	93.36
2670	8.14	8.70	12.09	42.02	45.99	104.72	21.79	91.74	33.71	188.49	59.22	101.87	59.01	199.69	96.25
2671	7.48	8.10	12.09	45.77	46.07	100.21	22.50	96.12	33.21	207.33	64.52	96.35	58.88	203.14	88.62
2672	7.28	8.70	12.09	43.79	45.73	102.56	20.85	98.01	34.32	198.39	62.07	98.03	58.57	191.59	91.78
2673	6.60	8.10	12.09	46.85	45.14	97.73	20.99	102.56	33.94	214.17	66.07	93.83	57.44	192.01	84.51
2674	6.43	8.70	12.09	44.62	45.36	100.20	19.47	104.32	35.21	204.99	64.14	97.90	57.05	181.49	87.92
2675	5.72	8.10	12.09	45.68	43.64	94.56	18.40	108.38	35.59	216.93	66.48	94.57	54.09	179.20	81.18
2676	5.57	8.70	12.09	43.79	42.62	97.34	18.03	110.24	36.72	208.17	63.17	100.39	54.46	170.20	84.79
2677	4.84	8.10	12.09	45.61	41.66	90.80	16.51	114.39	38.33	218.73	66.08	97.60	51.09	166.90	78.98
2678	4.71	8.70	12.09	43.08	40.13	94.21	16.82	116.51	39.18	209.96	62.29	104.54	51.29	159.84	82.55
2679	3.96	8.10	12.09	42.99	37.76	87.12	15.18	121.00	42.53	216.34	63.60	102.00	46.83	156.44	78.19
2680	3.86	8.70	12.09	41.11	37.18	90.89	16.62	122.46	43.37	208.60	60.88	109.21	47.37	150.15	81.60
2681	3.08	8.10	12.09	41.05	33.08	84.13	15.12	126.44	49.57	212.95	60.21	106.89	42.81	146.13	79.26
2682	3.00	8.70	12.09	39.38	32.56	87.64	17.44	128.33	50.07	205.78	57.68	113.82	43.65	141.94	82.33
2683	2.20	8.10	12.09	39.91	28.20	81.08	15.79	131.60	58.46	208.35	56.42	110.81	38.88	137.81	82.40
2684	2.14	8.70	12.09	38.80	28.08	84.68	18.85	133.41	58.14	201.87	54.53	117.52	39.96	135.00	84.74
2685	1.32	8.10	12.09	40.56	23.62	79.01	16.59	136.35	68.92	202.66	52.81	113.52	35.14	131.06	87.80
2686	1.29	8.70	12.09	40.00	23.18	82.56	19.80	138.19	67.84	197.04	50.88	119.87	36.44	129.62	89.21
2687	0.44	8.10	12.09	44.58	19.91	77.94	16.75	139.66	80.46	196.93	49.31	114.66	31.00	124.67	95.11
2688	0.43	8.70	12.09	44.90	19.24	81.30	19.93	141.77	78.43	192.14	47.49	120.60	32.37	124.71	95.36
2689	14.11	8.10	10.41	16.73	62.73	149.01	23.97	55.33	43.13	81.96	37.73	258.83	59.57	165.38	135.15
2690	13.76	8.70	10.41	17.92	61.16	150.99	25.20	58.27	45.85	88.44	35.46	240.66	59.69	167.26	138.85
2691	13.20	8.10	10.41	25.05	58.81	149.18	24.47	66.42	40.96	134.39	33.93	254.83	67.89	223.84	137.77
2692	12.88	8.70	10.41	25.42	57.05	150.37	25.54	68.54	43.20	134.93	32.52	232.25	68.90	216.91	141.16
2693	12.29	8.10	10.41	31.96	54.59	146.43	25.16	75.55	41.25	174.64	35.17	231.17	76.99	259.40	136.64
2694	11.99	8.70	10.41	31.76	53.16	147.42	25.97	77.25	42.93	171.83	34.32	209.13	77.32	247.09	139.21
2695	11.38	8.10	10.41	39.00	50.97	142.32	25.43	83.52	43.42	214.52	40.56	200.17	81.80	279.74	131.26
2696	11.10	8.70	10.41	38.12	49.81	143.46	26.04	85.04	44.52	207.65	39.44	181.53	82.31	263.73	133.90
2697	10.47	8.10	10.41	44.75	47.86	137.46	25.32	90.47	46.42	245.94	46.72	167.80	83.64	284.17	124.79
2698	10.21	8.70	10.41	43.17	46.90	139.03	25.81	91.91	47.08	235.13	44.96	154.96	84.37	266.40	127.67
2699	9.56	8.10	10.41	48.83	45.15	132.61	24.90	96.84	49.67	267.25	52.29	141.09	83.27	277.13	118.16
2700	9.32	8.70	10.41	46.75	44.35	134.68	25.27	98.28	50.04	253.90	50.05	134.66	84.01	259.42	120.97
2701	8.65	8.10	10.41	51.36	42.78	128.06	24.17	102.95	52.94	279.77	56.80	123.38	81.23	263.09	111.87
2702	8.44	8.70	10.41	49.00	42.09	130.59	24.47	104.40	53.16	265.26	54.26	122.71	81.91	246.54	114.61
2703	7.74	8.10	10.41	52.62	40.60	123.84	23.17	108.93	56.23	285.42	60.12	115.00	78.01	245.19	106.38
2704	7.55	8.70	10.41	50.15	39.99	126.75	23.50	110.35	56.39	270.72	57.45	118.55	78.66	230.34	109.06
2705	6.83	8.10	10.41	52.85	38.48	119.76	21.96	114.73	59.70	285.92	62.23	113.94	73.88	225.51	102.01
2706	6.66	8.70	10.41	50.41	37.83	123.03	22.45	116.10	59.80	271.72	59.40	119.99	74.53	212.58	104.60
2707	5.92	8.10	10.41	52.45	36.13	115.85	20.69	120.40	63.56	282.94	63.07	117.45	69.23	205.62	98.99
2708	5.77	8.70	10.41	50.10	35.78	119.39	21.39	121.68	63.62	269.57	60.58	124.57	69.77	194.64	101.45
2709	5.01	8.10	10.41	51.46	33.47	112.03	19.49	125.75	68.15	277.09	62.79	123.00	63.95	186.34	97.53
2710	4.88	8.70	10.41	49.40	33.30	115.73	20.54	126.91	68.10	264.86	60.58	130.31	64.57	177.21	99.78
2711	4.10	8.10	10.41	50.39	30.75	108.31	18.52	130.67	73.71	269.74	61.81	128.89	58.53	168.29	97.76
2712	4.00	8.70	10.41	48.61	30.45	112.17	19.91	131.87	73.37	258.61	59.59	136.00	59.19	161.13	99.63
2713	3.19	8.10	10.41	49.45	27.90	104.79	17.88	135.26	80.13	260.95	60.11	134.05	52.95	152.15	99.64
2714	3.11	8.70	10.41	48.08	27.51	108.90	19.55	136.37	79.37	251.08	58.00	140.82	53.67	146.58	100.98
2715	2.28	8.10	10.41	49.02	25.06	101.87	17.48	139.23	87.57	251.35	57.89	138.00	47.40	137.69	103.18
2716	2.22	8.70	10.41	48.11	24.51	106.06	19.30	140.39	86.29	242.67	55.83	144.34	48.15	133.74	103.86
2717	1.37	8.10	10.41	49.51	22.64	99.51	17.09	142.49	95.77	241.32	55.37	140.28	41.88	124.99	108.14
2718	1.33	8.70	10.41	49.18	22.03	103.72	19.02	143.68	93.89						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
2745	3.29	8.10	8.72	58.87	27.18	124.64	20.60	151.48	106.72	308.32	61.12	163.64	63.56	154.48	119.61
2746	3.22	8.70	8.72	57.38	26.66	129.54	22.15	152.15	105.25	295.86	58.91	170.45	64.60	148.56	119.69
2747	2.35	8.10	8.72	57.47	25.34	121.47	19.74	155.38	113.24	291.64	59.41	167.23	56.34	136.73	123.28
2748	2.30	8.70	8.72	56.49	24.85	126.47	21.33	155.98	111.42	280.95	57.47	173.60	57.30	132.32	122.80
2749	1.41	8.10	8.72	56.61	24.03	118.99	18.93	158.52	120.12	275.47	57.35	168.92	49.44	121.09	127.92
2750	1.38	8.70	8.72	56.13	23.55	124.00	20.53	159.11	117.90	266.35	55.65	174.93	50.32	118.05	126.86
2751	0.47	8.10	8.72	56.40	23.42	117.27	18.14	160.85	127.22	259.89	55.07	168.71	42.86	107.45	133.27
2752	0.46	8.70	8.72	56.40	22.97	122.22	19.72	161.46	124.55	252.18	53.60	174.46	43.63	105.67	131.58
2753	15.05	8.10	7.03	20.42	101.28	248.78	53.31	81.60	49.42	107.00	182.06	644.58	241.96	321.04	243.29
2754	14.73	8.70	7.03	25.20	97.71	247.14	49.28	83.58	57.44	142.54	169.04	582.03	205.76	314.79	226.73
2755	14.08	8.10	7.03	82.62	86.06	244.89	49.61	112.15	62.65	501.14	125.49	606.86	211.13	586.08	195.56
2756	13.78	8.70	7.03	76.70	83.30	240.40	50.51	106.51	65.47	464.01	114.48	520.00	216.86	518.86	211.82
2757	13.11	8.10	7.03	103.15	72.50	219.71	45.80	113.75	72.14	621.61	69.31	405.92	195.72	564.18	184.42
2758	12.83	8.70	7.03	93.58	70.37	219.16	47.80	109.55	73.15	561.37	63.49	353.25	206.96	498.97	197.15
2759	12.14	8.10	7.03	107.61	62.56	202.92	42.59	113.93	80.00	640.96	44.05	274.12	183.73	496.85	171.87
2760	11.88	8.70	7.03	97.62	61.11	204.85	44.88	112.43	80.24	578.97	42.40	247.34	194.77	445.78	180.40
2761	11.17	8.10	7.03	105.31	55.38	191.34	39.61	117.20	86.87	620.51	41.94	197.18	170.91	430.61	159.84
2762	10.93	8.70	7.03	96.09	54.51	194.57	41.71	117.44	86.70	563.99	40.48	187.59	179.20	392.00	165.58
2763	10.20	8.10	7.03	100.43	49.84	182.60	36.72	123.04	93.05	585.77	47.24	159.93	156.88	373.33	149.78
2764	9.98	8.70	7.03	92.35	49.20	186.53	38.62	124.11	92.60	536.62	44.96	161.31	162.92	343.96	153.72
2765	9.22	8.10	7.03	94.76	45.29	175.41	34.03	130.30	98.76	546.96	52.93	149.61	142.83	324.90	142.14
2766	9.03	8.70	7.03	87.88	44.78	179.78	35.78	131.63	98.12	505.15	50.19	156.60	147.31	302.30	144.86
2767	8.25	8.10	7.03	89.05	41.46	169.11	31.58	138.08	104.14	508.23	57.27	153.64	129.24	283.81	136.95
2768	8.08	8.70	7.03	83.29	41.03	173.79	33.23	139.37	103.33	472.98	54.36	162.50	132.64	266.21	138.82
2769	7.28	8.10	7.03	83.63	38.13	163.36	29.37	145.81	109.36	471.27	60.19	163.00	116.36	248.57	133.99
2770	7.13	8.70	7.03	78.85	37.75	168.29	30.99	146.92	108.37	441.61	57.34	171.99	119.10	234.69	135.22
2771	6.31	8.10	7.03	78.63	35.21	157.99	27.41	153.15	114.54	436.73	61.83	173.11	104.34	218.02	132.98
2772	6.18	8.70	7.03	74.73	34.86	163.15	29.02	154.03	113.38	411.80	59.13	181.61	106.61	207.01	133.64
2773	5.34	8.10	7.03	74.15	32.64	152.97	25.69	159.88	119.80	404.78	62.38	182.06	93.16	191.34	133.59
2774	5.23	8.70	7.03	71.02	32.33	158.35	27.31	160.53	118.45	383.86	59.91	189.95	95.10	182.58	133.75
2775	4.37	8.10	7.03	70.20	30.43	148.36	24.18	165.86	125.24	375.42	62.05	189.16	82.80	167.90	135.56
2776	4.28	8.70	7.03	67.79	30.14	153.94	25.81	166.30	123.67	357.88	59.82	196.46	84.50	160.98	135.24
2777	3.40	8.10	7.03	66.84	28.61	144.27	22.86	171.01	130.89	348.48	61.01	194.20	73.20	147.28	138.63
2778	3.33	8.70	7.03	65.07	28.35	150.01	24.49	171.28	129.05	333.82	59.05	201.02	74.72	141.88	137.83
2779	2.43	8.10	7.03	64.09	27.26	140.84	21.68	175.42	136.74	323.79	59.43	197.18	64.32	129.12	142.56
2780	2.38	8.70	7.03	62.92	27.04	146.70	23.30	175.42	134.61	311.56	57.75	203.61	65.68	125.03	141.29
2781	1.46	8.10	7.03	61.96	26.46	138.23	20.62	178.59	142.76	301.14	57.46	198.19	56.11	113.18	147.13
2782	1.43	8.70	7.03	61.34	26.27	144.13	22.23	178.69	140.30	290.98	56.06	204.33	57.31	110.24	145.39
2783	0.49	8.10	7.03	60.43	26.26	136.59	19.67	180.97	148.85	280.32	55.24	197.35	48.51	99.29	152.13
2784	0.48	8.70	7.03	60.31	26.11	142.43	21.26	181.07	146.06	271.92	54.09	203.30	49.57	97.44	149.93
2785	15.52	8.10	5.34	329.64	180.48	385.14	85.25	226.68	40.03	1970.83	597.25	1525.10	306.19	1392.05	254.42
2786	15.21	8.70	5.34	285.88	180.23	354.69	115.46	186.43	54.12	1659.39	542.86	1237.53	541.20	1123.50	322.68
2787	14.52	8.10	5.34	273.72	118.37	264.12	65.99	152.74	81.85	1603.15	234.97	604.49	263.67	914.19	204.55
2788	14.23	8.70	5.34	233.61	106.66	262.52	81.50	134.55	85.49	1349.30	173.41	523.80	371.08	766.80	240.17
2789	13.52	8.10	5.34	225.51	84.33	236.42	58.96	125.01	96.02	1303.89	90.92	344.98	257.51	656.38	190.79
2790	13.25	8.70	5.34	194.18	80.36	240.27	69.12	118.93	95.67	1114.95	78.75	317.67	320.02	570.80	212.82
2791	12.52	8.10	5.34	188.14	68.72	222.69	53.50	119.52	104.23	1081.85	51.69	228.32	241.17	503.67	178.29
2792	12.27	8.70	5.34	164.57	67.28	227.53	59.75	119.04	103.94	943.74	50.17	220.24	275.84	451.15	188.87
2793	11.52	8.10	5.34	160.18	59.54	213.34	48.08	124.44	111.16	918.90	46.19	176.60	217.76	406.48	166.33
2794	11.29	8.70	5.34	142.70	59.10	218.54	52.20	125.93	110.74	817.68	44.75	179.59	237.56	372.37	172.24
2795	10.51	8.10	5.34	139.06	53.03	205.76	43.21	133.30	117.23	795.73	49.36	162.73	193.67	339.00	157.57
2796	10.31	8.70	5.34	125.76	52.79	211.06	46.28	135.23	116.63	719.08	46.93	170.92	206.06	315.26	161.13
2797	9.51	8.10	5.34	122.65	47.88	198.94	39.07	143.35	122.77	698.75	53.72	167.79	171.65	288.66	151.86
2798	9.32	8.70	5.34	112.40	47.74	204.33	41.58	145.14	122.00	639.45	50.94	177.50	179.96	271.38	153.98
2799	8.51	8.10	5.34	109.60	43.67	192.50	35.56	153.42	128.00	619.87	57.15	179.50	151.81	249.17	148.77
2800	8.34	8.70	5.34	101.63	43.62	197.99	37.72	154.87	127.03	573.30	54.28	189.09	157.58	236.17	149.93
2801	7.51	8.10	5.34	99.02	40.10	186.28	32.57	162.99	133.04	554.21	59.41	192.02	134.04	216.96	147.79
2802	7.36	8.70	5.34	92.79	40.08	191.92	34.56	164.06	131.87	517.10	56.76	201.00	138.36	206.89	148.25
2803	6.51	8.10	5.34	90.32	37.05	180.26	30.02	171.78	138.02	498.53	60.60	203.12	118.22	189.94	148.47
2804	6.38	8.70	5.34	85.45	37.07	186.09	31.91	172.48	136.64	468.67	58.19	211.43	121.61	182.01	148.35
2805	5.51	8.10	5.34	83.10	34.47	174.53	27.84	179.66	143.02	450.69	60.82	212.08	104.09	166.84	150.42
2806	5.40	8.70	5.34	79.36	34.53	180.58	29.66	180.02	141.41	426.53	58.69	219.79	106.87	160.51	149.80
2807	4.51	8.10	5.34	77.12	32.34	169.23	25.95	186.52	148.09	409.19	60.24	218.77	91.44	146.80	153.35
2808	4.42	8.70	5.34	74.31	32.44	175.50	27.74	186.59	146.25	389.57	58.41	225.97	93.79	141.74	152.28
2809	3.50	8.10	5.34	72.17	30.68	164.55	24.31	192.31	153.26	372.92	59.02	223.24	80.08	129.27	157.01
2810	3.44	8.70	5.34	70.17	30.82	171.01	26.07	192.16	151.17	356.96	57.50	230.05	82.11	125.24	155.53
2811	2.50	8.10	5.34	68.16	29.53	160.68	22.88	196.99	158.52	341.03	57.32	225.66	69.86	113.84	161.21
2812	2.45	8.70	5.34	66.86	29.71	167.30	24.61	196.69	156.18	328.06	56.11	232.17	71.63	110.70	159.34
2813	1.50	8.10	5.34	64.96	28.92	157.85	21.62	200.55	163.85	312.85	55.27	226.16	60.63	100.27	165.78
2814	1.47	8.70	5.34	64.29	29.14	164.54	23.34	200.16	161.24	302.34	54.35	232.46	62.19	97.93	163.54
2815	0.50	8.10	5.34	62.52	28.86	156.23	20.56	202.99							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
2843	-10.65	8.10	17.16	102.76	36.91	13.48	55.03	28.58	28.42	117.96	15.85	13.75	54.31	32.31	28.34
2844	-10.30	8.70	17.16	108.86	34.38	13.67	52.77	31.00	27.65	123.40	13.07	13.83	52.27	34.21	27.51
2845	-11.44	8.10	17.16	73.90	38.25	13.75	49.60	27.29	31.41	81.89	17.83	14.32	47.98	30.53	32.17
2846	-11.07	8.70	17.16	79.78	35.48	13.95	49.47	29.69	30.88	87.81	15.73	14.37	48.14	32.68	31.57
2847	-12.23	8.10	17.16	47.04	44.10	14.15	43.66	27.51	37.09	48.66	28.23	14.84	40.49	30.08	39.30
2848	-11.83	8.70	17.16	52.91	41.98	14.38	45.45	30.11	36.66	54.93	28.05	14.89	42.72	32.73	38.82
2849	-0.41	8.10	15.47	44.77	14.24	48.15	20.83	227.22	50.93	108.13	35.32	68.38	24.15	222.64	78.46
2850	-0.40	8.70	15.47	49.03	14.38	49.26	29.86	247.66	50.32	108.22	38.22	73.80	32.29	242.71	79.20
2851	-1.23	8.10	15.47	85.49	12.99	60.34	17.51	207.89	77.60	135.55	33.17	78.65	18.46	201.57	94.91
2852	-1.19	8.70	15.47	97.26	13.27	59.87	27.74	227.68	78.48	141.97	34.97	82.75	28.40	221.27	96.94
2853	-2.05	8.10	15.47	71.38	19.68	56.13	13.35	192.61	102.27	131.17	34.31	75.19	15.75	185.43	114.06
2854	-1.99	8.70	15.47	81.73	23.93	59.80	23.80	211.36	103.03	136.63	38.01	83.38	25.16	204.23	116.11
2855	-2.87	8.10	15.47	98.75	41.30	48.84	15.28	202.02	130.27	149.68	52.17	67.72	16.50	195.01	139.55
2856	-2.78	8.70	15.47	127.57	38.35	50.85	18.13	210.79	124.29	172.50	48.54	74.60	18.06	203.65	134.54
2857	-3.69	8.10	15.47	169.37	61.88	48.71	5.07	188.99	153.60	212.33	69.74	62.33	3.57	181.83	160.60
2858	-3.58	8.70	15.47	185.51	62.41	43.86	8.75	186.45	144.63	225.32	69.32	61.47	7.00	178.81	152.44
2859	-4.51	8.10	15.47	224.71	79.84	39.47	33.50	138.09	147.34	266.42	84.32	43.56	33.73	129.04	151.82
2860	-4.37	8.70	15.47	206.40	59.54	43.07	37.80	155.43	138.44	244.59	63.14	49.84	38.69	147.17	143.72
2861	-5.32	8.10	15.47	144.01	83.62	46.56	27.15	134.65	142.79	181.50	86.34	46.41	26.42	127.05	145.36
2862	-5.16	8.70	15.47	172.06	62.43	51.31	42.64	146.48	128.31	206.60	63.79	51.97	43.37	139.32	131.43
2863	-6.14	8.10	15.47	191.57	90.98	52.25	65.84	135.89	133.76	227.56	91.26	52.81	66.43	132.17	134.79
2864	-5.96	8.70	15.47	200.07	96.26	54.11	50.47	141.67	117.06	233.09	97.03	53.93	51.20	136.89	118.50
2865	-6.96	8.10	15.47	190.03	82.52	46.17	67.67	118.60	109.86	225.41	80.47	46.89	67.87	117.39	109.71
2866	-6.75	8.70	15.47	194.53	82.51	48.56	53.70	125.09	97.63	226.38	80.71	48.42	54.05	122.30	97.75
2867	-7.78	8.10	15.47	171.67	67.59	42.50	65.48	101.62	92.19	205.26	62.92	42.95	65.41	102.70	91.45
2868	-7.55	8.70	15.47	176.30	68.07	43.67	53.90	108.10	84.60	206.52	63.67	43.40	53.88	107.28	84.01
2869	-8.60	8.10	15.47	148.31	54.97	40.79	61.73	88.84	81.86	179.12	47.01	40.95	61.41	92.15	80.88
2870	-8.34	8.70	15.47	153.48	54.81	41.41	52.97	94.69	77.02	181.22	47.27	41.00	52.66	95.91	76.12
2871	-9.42	8.10	15.47	125.28	45.40	40.31	57.27	79.71	77.23	152.11	33.10	40.36	56.67	84.84	76.31
2872	-9.14	8.70	15.47	130.52	44.86	40.74	51.19	85.06	73.81	154.82	33.19	40.33	50.57	88.19	72.90
2873	-10.24	8.10	15.47	103.76	39.79	40.52	52.95	73.35	76.75	125.49	22.08	40.86	52.02	79.72	76.19
2874	-9.93	8.70	15.47	108.92	38.59	40.88	48.92	78.49	74.06	128.79	21.60	40.78	47.95	83.12	73.46
2875	-11.06	8.10	15.47	84.01	37.77	41.11	48.94	69.27	79.53	99.80	14.73	42.32	47.59	76.16	79.66
2876	-10.73	8.70	15.47	88.85	36.04	41.46	46.70	74.38	77.25	103.49	13.58	42.13	45.32	79.94	77.29
2877	-11.88	8.10	15.47	65.98	38.58	42.03	45.30	67.27	85.26	75.44	13.45	44.75	43.43	73.92	86.44
2878	-11.52	8.70	15.47	70.88	36.49	42.43	44.60	72.42	83.21	79.92	12.13	44.42	42.75	78.18	84.26
2879	-12.70	8.10	15.47	49.68	40.80	43.66	42.35	67.02	93.83	53.25	17.10	48.12	39.80	72.60	96.45
2880	-12.31	8.70	15.47	54.81	38.70	44.16	42.93	72.46	91.91	58.56	16.27	47.69	40.46	77.67	94.38
2881	-0.42	8.10	13.78	48.82	16.26	58.62	20.32	160.35	71.82	157.09	42.67	90.55	26.12	150.08	88.20
2882	-0.41	8.70	13.78	50.70	15.45	61.14	28.85	164.55	69.48	155.11	41.48	97.24	32.67	153.62	88.02
2883	-1.27	8.10	13.78	61.03	16.22	60.64	18.13	159.51	89.40	158.22	40.39	89.82	22.43	145.37	101.51
2884	-1.24	8.70	13.78	63.44	16.10	62.71	25.75	163.89	85.85	156.91	39.72	95.84	28.35	149.65	99.78
2885	-2.12	8.10	13.78	82.14	21.59	61.87	14.33	154.60	106.19	165.53	40.96	87.19	16.30	137.40	115.27
2886	-2.06	8.70	13.78	87.50	22.59	63.01	20.64	157.96	100.88	166.29	40.90	92.08	21.28	141.02	111.48
2887	-2.97	8.10	13.78	96.07	28.81	60.51	9.19	143.43	119.59	171.59	42.53	80.74	8.34	123.55	126.33
2888	-2.89	8.70	13.78	98.15	32.64	61.48	14.23	146.68	113.19	170.08	45.27	85.21	12.73	127.31	121.23
2889	-3.82	8.10	13.78	102.18	36.59	57.30	12.77	134.27	127.58	170.55	45.91	70.35	9.93	112.67	132.55
2890	-3.72	8.70	13.78	103.77	40.34	59.53	10.54	139.91	118.43	168.73	49.00	76.27	4.25	119.24	124.43
2891	-4.67	8.10	13.78	100.49	43.33	57.90	19.86	134.70	134.23	161.78	49.48	64.07	17.43	113.62	137.74
2892	-4.54	8.70	13.78	107.98	50.63	59.66	12.49	135.74	122.56	165.61	56.28	68.86	6.89	114.89	126.84
2893	-5.52	8.10	13.78	121.49	49.68	59.59	33.96	127.94	133.93	174.71	52.73	60.86	32.82	107.75	136.13
2894	-5.37	8.70	13.78	119.42	55.47	61.10	21.69	130.82	123.53	170.09	58.49	64.43	19.10	110.71	126.36
2895	-6.37	8.10	13.78	112.65	50.76	61.40	37.57	119.10	128.79	160.79	51.18	59.96	36.38	100.82	129.93
2896	-6.19	8.70	13.78	114.86	50.18	62.76	31.02	124.14	120.55	160.25	50.24	62.55	29.34	105.91	122.16
2897	-7.22	8.10	13.78	110.99	49.49	63.25	44.10	114.78	123.54	154.13	46.93	60.73	43.13	100.95	123.89
2898	-7.02	8.70	13.78	113.69	49.92	64.15	37.32	119.78	116.44	154.20	47.33	62.11	36.01	105.19	117.12
2899	-8.07	8.10	13.78	106.54	47.13	64.39	46.86	109.59	118.37	145.30	41.22	61.59	45.88	100.66	118.20
2900	-7.84	8.70	13.78	109.65	46.87	65.04	40.71	114.78	112.39	145.81	41.07	62.20	39.46	104.41	112.44
2901	-8.92	8.10	13.78	99.24	44.15	65.46	47.32	104.07	114.94	133.56	34.35	62.72	46.22	99.83	114.54
2902	-8.67	8.70	13.78	102.65	43.59	65.94	42.20	109.46	110.00	134.56	34.05	62.88	40.89	103.32	109.71
2903	-9.77	8.10	13.78	90.16	41.92	66.70	46.57	98.99	113.90	119.58	27.57	64.48	45.30	98.82	113.51
2904	-9.49	8.70	13.78	93.89	41.06	67.07	42.56	104.54	109.74	121.24	27.18	64.30	41.10	102.29	109.38
2905	-10.62	8.10	13.78	80.34	40.90	68.10	45.30	94.77	115.31	104.20	21.60	67.16	43.84	97.78	115.15
2906	-10.32	8.70	13.78	84.30	39.79	68.40	42.31	100.49	111.63	106.58	21.14	66.65	40.67	101.48	111.45
2907	-11.47	8.10	13.78	70.54	41.09	69.60	44.00	91.62	118.98	88.29	17.01	71.11	42.33	96.76	119.30
2908	-11.15	8.70	13.78	74.53	39.74	69.90	42.05	97.50	115.55	91.25	16.51	70.20	40.23	100.91	115.78
2909	-12.32	8.10	13.78	61.25	42.20	71.35	43.01	89.71	124.62	72.65	14.15	76.78	41.16	95.83	125.60
2910	-11.97	8.70	13.78	65.46	40.62	71.71	41.97	95.74	121.34	76.48	13.66	75.40	40.02	100.52	122.16
2911	-13.17	8.10	13.78	52.74	43.62	73.92	42.68	88.89	131.47	58.18	12.91	85.05	40.73	94.85	133.22
2912	-12.80	8.70	13.78	57.30	42.06	74.37	42.38	95.37	128.43	62.93	12.46	83.02	40.34	100.53	129.99
2913	-0.44	8.10	12.09	50.29	17.90	77.71	15.96	141.23	92.34	191.45	46.38	114.14	26.73	118.17	103.65
2914	-0.43	8.70	12.09	51.29	17.08	80.92	19.06	143.45	89.33	187.38	44.68	119.78	28.06	119.32	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
2941	-12.76	8.10	12.09	58.02	47.12	102.15	42.09	103.03	153.24	72.12	18.47	108.52	40.38	106.70	153.92
2942	-12.42	8.70	12.09	61.76	45.92	102.28	40.95	109.23	149.16	75.56	18.52	105.79	39.06	111.31	149.70
2943	-13.64	8.10	12.09	53.70	49.11	105.16	43.35	102.05	158.49	60.87	17.67	120.87	41.96	107.48	159.50
2944	-13.28	8.70	12.09	57.82	48.10	105.29	42.60	108.89	154.74	65.26	17.90	116.92	41.06	113.14	155.55
2945	-0.46	8.10	10.41	53.53	20.60	96.89	15.79	146.50	113.28	220.78	50.36	139.29	31.06	104.20	120.87
2946	-0.44	8.70	10.41	54.14	19.98	100.82	17.67	147.82	110.18	215.22	48.88	144.69	31.64	104.20	119.09
2947	-1.37	8.10	10.41	56.45	21.46	96.56	14.98	147.09	121.85	210.49	48.11	136.08	25.80	95.72	127.75
2948	-1.33	8.70	10.41	57.37	20.91	100.26	16.66	148.56	118.14	205.77	46.83	141.32	26.18	96.85	125.14
2949	-2.28	8.10	10.41	59.70	23.42	96.81	14.56	146.87	129.83	200.23	46.16	131.33	20.87	88.63	134.36
2950	-2.22	8.70	10.41	61.02	22.95	100.24	15.85	148.50	125.50	196.35	45.06	136.52	20.91	90.74	130.94
2951	-3.19	8.10	10.41	62.53	26.06	97.73	15.06	145.87	136.91	189.96	44.42	125.62	16.98	83.13	140.34
2952	-3.11	8.70	10.41	64.05	25.73	100.84	15.73	147.64	132.09	186.78	43.59	130.76	16.41	85.98	136.26
2953	-4.10	8.10	10.41	65.02	28.91	99.22	16.81	144.17	142.83	179.72	42.77	119.36	15.12	79.51	145.36
2954	-4.00	8.70	10.41	66.59	28.67	102.04	16.68	146.27	137.61	177.09	42.16	124.52	13.54	83.10	140.73
2955	-5.01	8.10	10.41	66.22	31.74	101.44	19.54	142.16	147.73	169.01	41.13	113.48	15.84	78.56	149.53
2956	-4.88	8.70	10.41	68.23	31.60	103.87	18.60	144.41	142.26	167.20	40.73	118.43	13.25	82.27	144.52
2957	-5.92	8.10	10.41	67.64	34.50	104.34	22.91	139.63	151.50	159.04	39.46	108.62	18.64	79.89	152.71
2958	-5.77	8.70	10.41	69.58	34.17	106.34	21.37	142.26	146.04	157.60	39.01	113.16	15.50	83.71	147.61
2959	-6.83	8.10	10.41	67.45	36.89	107.76	26.08	136.66	154.41	148.40	37.49	105.20	21.85	83.17	155.16
2960	-6.66	8.70	10.41	69.76	36.29	109.40	24.40	139.70	149.06	147.62	36.86	109.21	18.84	86.88	150.08
2961	-7.74	8.10	10.41	67.21	38.91	111.55	29.20	133.51	156.85	138.24	35.08	103.53	25.27	88.10	157.24
2962	-7.55	8.70	10.41	69.66	38.38	112.86	27.30	136.94	151.66	137.92	34.69	106.83	22.28	91.50	152.25
2963	-8.65	8.10	10.41	66.20	40.83	115.61	31.90	130.02	159.11	127.86	32.52	103.83	28.31	93.53	159.27
2964	-8.44	8.70	10.41	68.88	40.25	116.61	29.95	133.90	154.14	128.07	32.19	106.26	25.46	96.69	154.42
2965	-9.56	8.10	10.41	64.69	42.72	119.77	34.25	126.35	161.50	117.32	29.91	106.17	31.00	98.91	161.52
2966	-9.32	8.70	10.41	67.54	42.09	120.50	32.36	130.69	156.71	118.03	29.68	107.61	28.40	101.97	156.81
2967	-10.47	8.10	10.41	62.78	44.71	123.95	36.33	122.60	164.23	106.52	27.44	110.74	33.45	103.76	164.22
2968	-10.21	8.70	10.41	65.83	44.03	124.44	34.58	127.41	159.59	107.83	27.34	111.07	31.13	106.88	159.60
2969	-11.38	8.10	10.41	60.59	46.88	128.07	38.33	118.91	167.42	95.40	25.38	117.77	35.85	107.77	167.48
2970	-11.10	8.70	10.41	63.82	46.12	128.35	36.72	124.21	162.85	97.37	25.34	116.86	33.79	111.16	162.90
2971	-12.29	8.10	10.41	58.31	49.29	132.10	40.34	115.50	171.13	84.17	24.02	127.58	38.35	110.92	171.35
2972	-11.99	8.70	10.41	61.63	48.46	132.24	38.98	121.22	166.57	86.67	24.09	125.27	36.66	114.75	166.71
2973	-13.20	8.10	10.41	56.14	52.01	136.08	42.42	112.72	175.26	73.18	23.56	140.47	41.01	113.41	175.66
2974	-12.88	8.70	10.41	59.64	51.11	136.11	41.30	118.87	170.78	76.47	23.79	136.64	39.68	117.78	171.06
2975	-14.11	8.10	10.41	54.23	54.75	140.09	44.69	110.80	179.17	63.11	24.05	156.63	43.92	115.37	179.74
2976	-13.76	8.70	10.41	58.12	54.13	140.02	43.71	117.72	175.05	67.39	24.46	151.12	42.81	120.79	175.46
2977	-0.47	8.10	8.72	56.71	23.62	116.40	17.40	162.34	134.34	244.91	52.71	166.70	36.63	95.72	139.01
2978	-0.46	8.70	8.72	57.13	23.20	121.21	18.92	163.02	131.21	238.42	51.46	172.29	37.26	95.13	136.70
2979	-1.41	8.10	8.72	57.49	24.60	116.41	16.83	163.01	141.28	230.52	50.36	163.07	30.78	85.92	144.85
2980	-1.38	8.70	8.72	58.29	24.23	121.00	18.24	163.80	137.70	225.14	49.33	168.59	31.23	86.44	141.95
2981	-2.35	8.10	8.72	58.46	26.24	117.33	16.66	162.85	147.83	216.70	48.07	158.15	25.52	78.21	150.52
2982	-2.30	8.70	8.72	59.56	25.90	121.61	17.85	163.79	143.86	212.27	47.24	163.63	25.71	79.76	147.12
2983	-3.29	8.10	8.72	59.50	28.33	119.12	17.11	161.91	153.83	203.39	45.86	152.28	21.13	72.92	155.82
2984	-3.22	8.70	8.72	60.87	27.99	123.04	17.97	163.08	149.54	199.82	45.18	157.77	20.93	75.37	151.99
2985	-4.23	8.10	8.72	60.32	30.69	121.78	18.30	160.28	159.21	190.54	43.73	145.99	18.11	70.42	160.63
2986	-4.14	8.70	8.72	61.98	30.33	125.29	18.75	161.69	154.68	187.76	43.17	151.46	17.35	73.50	156.46
2987	-5.17	8.10	8.72	61.05	33.15	125.23	20.16	157.97	163.90	178.23	41.63	139.80	16.95	70.80	164.86
2988	-5.06	8.70	8.72	62.88	32.76	128.33	20.20	159.71	159.20	176.09	41.17	145.18	15.55	74.27	160.43
2989	-6.11	8.10	8.72	61.32	35.57	129.39	22.48	155.10	167.99	166.21	39.47	134.27	17.65	73.90	168.56
2990	-5.97	8.70	8.72	63.38	35.20	132.07	22.13	157.18	163.19	164.72	39.17	139.45	15.75	77.41	163.98
2991	-7.05	8.10	8.72	61.46	37.95	134.13	25.09	151.72	171.56	154.69	37.29	129.95	19.76	79.11	171.84
2992	-6.89	8.70	8.72	63.68	37.61	136.40	24.39	154.20	166.75	153.73	37.15	134.75	17.55	82.45	167.17
2993	-8.00	8.10	8.72	61.17	40.31	139.34	27.73	147.89	174.76	143.34	35.13	127.39	22.49	85.56	174.80
2994	-7.81	8.70	8.72	63.60	39.93	141.20	26.81	150.81	169.98	142.91	35.07	131.59	20.26	88.68	170.13
2995	-8.94	8.10	8.72	60.62	42.66	144.86	30.35	143.69	177.75	132.13	33.00	127.06	25.52	92.55	177.63
2996	-8.73	8.70	8.72	63.25	42.25	146.36	29.27	147.10	173.02	132.24	33.01	130.42	23.34	95.46	172.96
2997	-9.88	8.10	8.72	59.79	45.06	150.58	32.92	139.20	180.68	120.91	31.05	129.46	28.68	99.40	180.47
2998	-9.65	8.70	8.72	62.57	44.61	151.73	31.76	143.11	176.00	121.53	31.13	131.72	26.62	102.22	175.81
2999	-10.82	8.10	8.72	58.73	47.56	156.38	35.49	134.53	183.65	109.54	29.42	135.03	31.93	105.65	183.44
3000	-10.57	8.70	8.72	61.69	47.07	157.23	34.29	138.96	179.01	110.78	29.58	135.92	30.03	108.54	178.79
3001	-11.76	8.10	8.72	57.53	50.23	162.20	38.13	129.80	186.74	97.99	28.34	144.12	35.35	111.03	186.60
3002	-11.49	8.70	8.72	60.66	49.69	162.77	36.89	134.79	182.11	99.89	28.49	143.42	33.57	114.16	181.93
3003	-12.70	8.10	8.72	56.36	53.15	167.99	40.86	125.23	189.99	86.45	28.04	156.98	38.95	115.40	189.99
3004	-12.41	8.70	8.72	59.59	52.56	168.35	39.71	130.71	185.32	88.90	28.23	154.44	37.41	118.95	185.26
3005	-13.64	8.10	8.72	55.39	56.40	173.76	43.64	121.14	193.32	75.33	28.65	173.66	42.62	118.86	193.51
3006	-13.33	8.70	8.72	58.78	55.75	173.92	42.56	127.15	188.75	78.59	28.91	169.17	41.32	122.93	188.85
3007	-14.58	8.10	8.72	54.68	59.71	179.56	46.51	117.70	196.20	65.25	30.06	194.05	46.37	121.36	196.61
3008	-14.25	8.70	8.72	58.47	59.35	179.55	45.40	124.61	191.93	69.55	30.44	187.52	45.18	126.49	192.23
3009	-0.49	8.10	7.03	59.45	26.69	136.02	18.89	182.41	154.90	261.16	52.86	194.82	41.50	87.41	157.36
3010	-0.48	8.70	7.03	59.79	26.57	141.72	20.43	182.55	151.78	254.24	51.96	200.66	42.39	86.59	154.71
3011	-1.46	8.10	7.03	58.92	27.69	136.58	18.37	182.90	160.81	243.45	50.43	190.82	35.10	77.62	162.61
3012	-1.														



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{XZ}$ [kPa]	$\tau_{YZ}$ [kPa]	$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{XZ}$ [kPa]	$\tau_{YZ}$ [kPa]
3039	-15.05	8.10	7.03	55.29	63.84	222.77	48.72	124.07	211.08	67.43	35.67	233.82	49.24	126.92	211.47
3040	-14.73	8.70	7.03	59.08	63.65	223.00	47.51	130.90	206.74	71.82	35.94	226.68	48.00	131.71	207.07
3041	-0.50	8.10	5.34	60.72	29.35	155.96	19.72	204.31	174.48	265.62	50.61	222.11	44.77	78.27	175.43
3042	-0.49	8.70	5.34	61.08	29.63	162.48	21.37	203.93	171.34	258.79	50.21	228.19	45.94	77.50	172.52
3043	-1.50	8.10	5.34	59.49	30.33	157.12	19.21	204.53	179.64	245.78	48.21	217.91	38.02	69.97	180.26
3044	-1.47	8.70	5.34	60.25	30.63	163.38	20.79	204.26	176.24	240.34	48.05	223.98	38.98	70.03	177.05
3045	-2.50	8.10	5.34	58.72	31.74	159.70	19.11	203.68	184.59	228.02	45.87	212.54	32.07	63.88	184.96
3046	-2.45	8.70	5.34	59.83	32.05	165.60	20.56	203.58	180.98	223.74	45.94	218.64	32.79	64.79	181.47
3047	-3.50	8.10	5.34	58.30	33.49	163.62	19.51	201.82	189.30	212.09	43.66	206.25	27.03	60.43	189.43
3048	-3.44	8.70	5.34	59.71	33.79	169.09	20.78	201.95	185.51	208.76	43.92	212.41	27.44	62.15	185.72
3049	-4.51	8.10	5.34	58.13	35.50	168.78	20.46	198.99	193.71	197.71	41.64	199.36	23.07	60.00	193.63
3050	-4.42	8.70	5.34	59.79	35.79	173.76	21.50	199.41	189.77	195.17	42.05	205.59	23.11	62.36	189.75
3051	-5.51	8.10	5.34	58.12	37.70	175.00	21.93	195.26	197.81	184.67	39.84	192.23	20.49	62.61	197.53
3052	-5.40	8.70	5.34	59.99	37.97	179.49	22.71	196.04	193.76	182.77	40.38	198.52	20.07	65.38	193.51
3053	-6.51	8.10	5.34	58.19	40.04	182.15	23.87	190.74	201.60	172.68	38.29	185.36	19.53	67.90	201.14
3054	-6.38	8.70	5.34	60.25	40.28	186.14	24.37	191.92	197.48	171.33	38.94	191.64	18.64	70.82	197.02
3055	-7.51	8.10	5.34	58.27	42.48	190.06	26.16	185.51	205.10	161.49	37.04	179.38	20.22	75.21	204.48
3056	-7.36	8.70	5.34	60.50	42.70	193.58	26.40	187.15	200.95	160.61	37.75	185.55	18.95	78.10	200.29
3057	-8.51	8.10	5.34	58.30	45.02	198.60	28.73	179.68	208.36	150.77	36.11	175.14	22.26	83.84	207.59
3058	-8.34	8.70	5.34	60.69	45.20	201.69	28.72	181.81	204.18	150.33	36.85	181.00	20.79	86.59	203.36
3059	-9.51	8.10	5.34	58.22	47.65	207.67	31.50	173.36	211.38	140.18	35.53	173.74	25.26	93.13	210.50
3060	-9.32	8.70	5.34	60.78	47.80	210.38	31.25	176.02	207.20	140.18	36.23	178.98	23.70	95.72	206.24
3061	-10.51	8.10	5.34	57.99	50.38	217.22	34.45	166.64	214.21	129.41	35.32	176.44	28.96	102.52	213.27
3062	-10.31	8.70	5.34	60.67	50.47	219.57	33.99	169.85	210.00	129.83	35.95	180.63	27.38	104.97	208.98
3063	-11.52	8.10	5.34	57.61	53.21	227.18	37.54	159.63	216.85	118.18	35.51	184.47	33.15	111.47	215.92
3064	-11.29	8.70	5.34	60.44	53.26	229.18	36.89	163.40	212.64	119.18	36.04	187.09	31.61	113.86	211.62
3065	-12.52	8.10	5.34	57.12	56.21	237.50	40.81	152.40	219.28	106.30	36.13	198.69	37.76	119.47	218.45
3066	-12.27	8.70	5.34	60.11	56.17	239.15	39.94	156.77	215.04	107.97	36.47	199.22	36.22	121.93	214.14
3067	-13.52	8.10	5.34	56.63	59.45	248.02	44.18	145.07	221.46	93.96	37.26	219.25	42.62	126.02	220.87
3068	-13.25	8.70	5.34	59.73	59.36	249.35	43.24	149.97	217.17	96.18	37.48	217.26	41.24	128.78	216.51
3069	-14.52	8.10	5.34	56.24	63.00	258.47	47.54	137.82	223.27	81.60	38.89	245.59	47.43	130.72	223.08
3070	-14.23	8.70	5.34	59.54	62.84	259.43	46.53	143.36	219.06	84.74	39.06	240.84	46.22	133.94	218.82
3071	-15.52	8.10	5.34	55.91	66.75	268.43	51.03	130.44	224.41	69.84	40.90	276.03	52.19	132.68	224.86
3072	-15.21	8.70	5.34	59.65	66.67	268.92	49.74	137.04	220.02	74.20	40.96	268.44	50.91	137.01	220.45
3073	7.92	9.28	17.16	138.88	101.18	15.76	35.67	32.11	11.08	154.57	108.21	15.85	46.63	45.29	25.41
3074	8.62	9.26	17.16	105.03	82.11	15.07	34.10	24.41	10.77	115.88	88.26	15.33	40.74	38.82	25.42
3075	9.33	9.23	17.16	78.89	65.93	14.79	31.09	19.34	11.25	84.79	71.49	15.23	33.77	33.64	25.99
3076	7.99	9.85	17.16	118.37	87.07	15.78	24.11	29.40	10.56	131.82	91.25	15.72	36.07	40.95	25.38
3077	8.62	9.77	17.16	93.90	73.00	15.29	25.70	23.89	11.06	103.58	76.49	15.34	32.56	36.52	25.70
3078	9.23	9.68	17.16	73.77	60.40	15.03	25.91	19.94	11.88	79.46	63.31	15.22	28.54	32.76	26.31
3079	8.07	10.41	17.16	97.57	72.29	15.77	16.70	27.13	10.89	109.33	73.78	15.66	28.57	37.27	25.26
3080	8.60	10.27	17.16	81.51	63.12	15.44	19.50	23.48	11.67	90.27	64.24	15.36	26.13	34.58	25.64
3081	9.13	10.13	17.16	67.26	53.81	15.24	21.37	20.59	12.71	72.90	54.30	15.26	23.53	31.97	26.48
3082	0.38	9.50	17.16	41.03	13.34	21.28	51.31	345.15	26.06	57.30	34.74	52.49	51.35	343.89	68.45
3083	1.14	9.50	17.16	103.72	40.92	31.95	5.79	363.39	70.17	109.31	40.72	71.45	11.33	364.68	111.75
3084	1.90	9.49	17.16	28.02	41.99	33.29	27.82	395.34	112.25	46.84	52.42	83.52	28.31	397.50	157.01
3085	2.66	9.47	17.16	65.06	65.35	53.33	27.95	416.36	165.11	78.94	76.49	95.99	29.76	421.52	205.11
3086	3.42	9.46	17.16	114.55	102.32	90.24	17.51	436.23	237.63	128.00	114.85	130.02	24.96	444.60	276.68
3087	4.18	9.44	17.16	617.90	153.86	33.57	158.08	278.78	199.08	641.62	173.91	58.48	191.92	281.75	228.76
3088	4.93	9.41	17.16	442.39	285.09	22.76	73.61	159.26	102.08	468.60	311.61	29.51	104.95	162.95	122.36
3089	5.69	9.38	17.16	324.37	194.76	23.48	46.99	93.60	38.20	348.74	210.76	24.29	76.15	98.33	53.75
3090	6.44	9.35	17.16	243.62	149.58	20.32	34.33	63.98	16.82	266.38	160.08	20.30	56.72	71.77	31.05
3091	7.19	9.31	17.16	183.82	123.20	17.34	35.26	44.56	12.53	203.65	131.38	17.32	51.25	55.38	26.63
3092	0.39	10.50	17.16	16.09	27.89	42.69	90.42	519.75	37.59	33.54	44.41	110.18	90.09	517.42	116.59
3093	1.17	10.49	17.16	23.31	51.53	48.60	87.89	517.69	85.77	40.24	65.41	114.74	87.52	516.61	146.47
3094	1.95	10.46	17.16	61.09	81.60	69.39	83.53	518.98	148.06	73.06	95.59	130.56	83.33	519.74	198.78
3095	2.73	10.42	17.16	401.88	184.62	43.97	99.13	420.04	189.51	408.98	220.82	103.49	106.49	420.61	234.43
3096	3.50	10.37	17.16	289.74	467.28	83.02	260.79	328.17	213.42	300.45	524.66	123.24	260.25	330.82	259.99
3097	4.27	10.31	17.16	521.13	346.79	27.42	70.09	177.74	111.02	540.19	384.57	53.05	101.96	177.25	146.39
3098	5.04	10.23	17.16	362.70	206.75	24.68	32.52	113.35	24.94	383.53	222.97	27.89	60.57	114.61	49.16
3099	5.80	10.15	17.16	257.63	161.94	21.38	5.82	71.72	15.93	278.30	172.96	22.13	48.86	75.05	35.00
3100	6.56	10.05	17.16	194.72	125.57	18.83	13.07	50.59	11.54	213.98	132.55	18.88	42.74	56.90	28.02
3101	7.31	9.94	17.16	150.92	103.54	16.87	19.71	37.82	10.51	167.71	108.55	16.78	38.66	47.21	25.81
3102	0.40	11.50	17.16	24.74	119.32	41.96	500.21	354.22	49.18	44.15	218.16	98.03	498.52	352.05	139.47
3103	1.20	11.48	17.16	50.33	212.87	51.13	492.27	347.41	88.53	64.55	290.33	105.70	490.62	345.87	165.13
3104	2.00	11.43	17.16	133.72	338.01	69.00	470.18	324.18	123.84	143.87	405.92	119.41	468.68	323.09	193.65
3105	2.80	11.37	17.16	442.99	311.31	29.68	280.73	217.70	86.21	453.40	360.35	69.44	283.35	215.92	142.39
3106	3.59	11.29	17.16	343.12	255.94	22.00	145.27	134.02	44.33	361.09	284.45	35.85	150.18	132.55	84.35
3107	4.37	11.18	17.16	238.62	198.56	19.76	67.47	80.82	28.41	257.57	219.74	27.66	86.48	79.39	60.51
3108	5.15	11.06	17.16	217.58	142.40	20.75	47.17	63.11	13.55	235.82	153.77	23.81	67.36	62.94	39.06
3109	5.92	10.92	17.16	184.82	118.57	19.17	22.52	51.93	10.41	203.68	124.53	20.04	46.33	54.54	29.62
3110	6.68	10.75	17.16												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
3137	4.66	13.81	17.16	28.20	24.59	16.23	22.45	38.39	12.31	83.05	23.70	21.67	33.40	37.58	17.46
3138	5.47	13.54	17.16	32.79	24.13	16.39	17.53	36.52	13.35	74.98	22.57	20.40	29.64	36.97	17.90
3139	6.26	13.22	17.16	35.02	23.23	16.38	13.76	34.52	14.68	66.56	21.03	19.16	25.37	36.47	19.07
3140	7.04	12.87	17.16	35.35	22.14	16.21	12.37	32.41	16.12	57.87	19.00	18.04	21.10	35.94	20.80
3141	7.79	12.47	17.16	34.61	21.30	15.95	13.02	30.17	17.62	49.49	16.80	17.09	16.99	35.18	22.92
3142	11.39	9.32	17.16	24.01	30.71	14.20	21.63	14.95	19.36	19.91	29.39	14.20	15.00	21.14	30.24
3143	10.90	9.94	17.16	25.41	27.58	14.51	20.83	17.39	20.06	21.76	23.43	14.51	12.85	24.16	30.22
3144	10.37	10.54	17.16	26.68	24.68	14.77	19.84	20.09	20.56	24.03	18.38	14.84	10.97	27.17	29.82
3145	10.70	9.28	17.16	39.42	39.11	14.56	23.90	14.46	15.20	37.45	41.41	14.96	19.07	24.08	28.50
3146	10.35	9.82	17.16	39.68	36.33	14.80	21.95	16.43	16.04	38.66	35.76	14.93	16.57	25.84	28.49
3147	9.98	10.34	17.16	39.38	33.43	15.00	20.04	18.65	16.78	39.46	30.64	14.99	14.46	27.70	28.14
3148	10.02	9.23	17.16	57.18	51.37	14.69	27.41	16.08	12.71	58.58	55.85	15.26	26.11	28.56	27.13
3149	9.81	9.70	17.16	55.60	48.01	14.92	24.20	17.39	13.46	57.61	49.74	15.16	22.76	28.96	27.31
3150	9.58	10.15	17.16	53.71	44.18	15.12	21.29	18.86	14.19	56.46	43.66	15.15	19.90	29.59	27.09
3151	8.50	12.04	17.16	33.09	20.76	15.64	14.72	27.81	18.95	41.57	14.63	16.30	13.36	34.00	25.19
3152	8.34	11.50	17.16	53.52	37.97	15.85	13.60	25.30	14.66	62.75	34.51	16.04	17.81	33.05	24.66
3153	8.19	10.96	17.16	75.18	55.18	15.84	13.55	25.53	12.24	85.54	53.93	15.78	22.69	34.47	25.02
3154	9.16	11.58	17.16	31.12	21.20	15.33	16.69	25.33	19.89	34.70	13.81	15.69	11.08	32.22	27.12
3155	8.93	11.15	17.16	47.75	35.11	15.55	16.07	23.00	15.77	53.37	31.26	15.59	15.47	31.51	26.04
3156	8.71	10.73	17.16	65.54	49.51	15.59	16.52	22.91	13.23	73.00	47.97	15.50	20.55	32.70	25.84
3157	9.79	11.08	17.16	28.68	22.27	15.03	18.47	22.77	20.52	28.50	14.47	15.22	10.23	30.03	28.71
3158	9.50	10.79	17.16	42.14	32.56	15.26	18.30	20.87	16.71	44.53	28.49	15.25	14.30	29.71	27.28
3159	9.22	10.49	17.16	56.56	44.81	15.31	18.87	20.65	14.12	61.15	43.49	15.25	18.94	30.78	26.56
3160	8.25	9.30	15.47	84.11	72.20	48.45	27.04	63.51	22.91	117.64	79.40	48.85	38.57	103.06	60.88
3161	8.99	9.27	15.47	68.16	61.24	46.89	25.71	53.88	23.14	97.33	67.57	48.34	33.36	96.10	61.46
3162	9.73	9.24	15.47	53.71	52.34	46.07	23.81	46.48	24.50	77.59	57.65	48.62	27.63	88.57	62.73
3163	8.35	9.90	15.47	72.87	63.95	48.55	19.71	61.13	23.25	103.19	68.89	48.21	31.87	95.85	61.63
3164	8.99	9.82	15.47	60.87	55.77	47.36	20.42	53.74	24.26	87.56	59.87	47.68	28.11	91.00	62.32
3165	9.63	9.72	15.47	49.83	48.95	46.60	20.56	47.81	25.86	72.19	52.06	47.70	24.21	85.72	63.45
3166	8.43	10.50	15.47	60.66	54.85	48.65	15.69	59.30	24.46	88.44	57.49	48.01	26.75	89.69	61.76
3167	8.98	10.36	15.47	52.77	49.84	47.78	17.04	53.92	25.73	77.46	51.88	47.39	23.88	86.74	62.48
3168	9.53	10.20	15.47	45.21	45.05	47.14	18.10	49.24	27.41	66.49	46.05	47.25	20.85	83.17	63.77
3169	0.40	9.53	15.47	25.55	28.26	40.21	70.49	254.83	19.47	100.17	52.27	81.59	71.02	251.83	68.50
3170	1.19	9.53	15.47	39.52	42.89	40.30	58.20	236.30	17.92	110.95	60.82	84.70	59.77	236.13	72.35
3171	1.99	9.52	15.47	49.51	64.22	41.94	48.59	215.61	37.80	121.97	78.25	87.61	51.30	218.34	83.66
3172	2.78	9.50	15.47	93.49	86.85	43.70	41.59	197.31	51.18	152.15	101.32	88.38	47.79	201.92	92.68
3173	3.57	9.49	15.47	146.46	113.09	49.89	25.77	148.17	48.55	197.73	127.57	80.37	41.50	152.83	97.78
3174	4.36	9.46	15.47	76.36	132.30	54.58	37.29	137.41	55.73	137.65	145.57	73.62	43.47	145.66	94.00
3175	5.15	9.44	15.47	122.00	106.27	63.90	10.80	128.35	53.52	168.30	116.67	70.34	40.63	139.99	90.95
3176	5.93	9.41	15.47	127.18	109.28	61.06	22.06	110.39	38.14	169.78	119.37	62.13	46.43	129.04	75.59
3177	6.71	9.37	15.47	116.71	98.62	56.14	26.44	92.33	28.69	156.43	107.65	55.75	46.54	118.94	66.23
3178	7.50	9.33	15.47	100.94	84.74	51.43	27.35	76.26	24.34	137.83	92.59	51.10	43.01	110.37	62.04
3179	0.41	10.60	15.47	27.80	33.55	47.66	117.14	226.42	21.40	105.65	52.55	104.80	116.80	222.22	73.03
3180	1.23	10.59	15.47	33.07	62.75	48.32	111.74	211.97	16.27	111.68	77.99	107.46	111.55	209.54	77.28
3181	2.05	10.56	15.47	77.86	90.34	49.16	101.80	179.16	28.37	139.15	105.07	104.66	102.40	177.61	84.89
3182	2.86	10.52	15.47	58.43	104.15	50.34	80.62	168.62	43.88	129.98	114.95	99.99	81.63	168.69	95.37
3183	3.67	10.46	15.47	127.50	64.47	58.21	14.59	143.33	36.93	178.20	70.03	89.97	41.37	143.07	87.39
3184	4.47	10.39	15.47	88.06	91.76	59.72	20.83	125.04	32.39	140.66	99.57	77.46	39.96	122.92	82.06
3185	5.27	10.31	15.47	111.67	107.61	62.91	9.84	115.69	32.57	153.88	117.28	69.81	43.02	123.47	78.97
3186	6.07	10.22	15.47	111.81	96.77	58.42	10.17	98.96	26.51	150.40	104.69	60.29	40.50	113.78	69.51
3187	6.85	10.12	15.47	100.51	85.39	54.08	14.13	83.83	23.61	136.66	92.03	53.95	38.08	106.46	64.10
3188	7.63	10.00	15.47	86.36	73.72	50.70	17.69	70.99	22.93	119.76	79.29	50.07	35.12	100.76	62.01
3189	0.42	11.67	15.47	28.31	21.68	50.91	98.92	194.19	22.02	112.64	36.65	111.14	98.24	188.67	89.91
3190	1.26	11.65	15.47	29.67	41.57	51.12	87.94	179.21	21.50	116.72	52.25	111.18	88.13	174.38	92.66
3191	2.10	11.60	15.47	63.68	48.06	51.29	64.17	150.04	23.38	133.92	56.59	104.40	67.49	145.15	91.79
3192	2.94	11.53	15.47	39.33	77.16	53.03	67.30	141.13	28.81	117.44	87.23	96.55	70.61	137.35	94.83
3193	3.76	11.44	15.47	80.73	96.26	54.36	56.81	134.69	34.81	133.50	108.17	86.44	65.84	132.41	95.58
3194	4.58	11.33	15.47	102.48	95.55	54.68	37.71	112.87	29.88	146.63	104.99	72.87	53.18	113.24	84.02
3195	5.39	11.19	15.47	95.57	88.84	55.87	21.44	98.11	24.52	136.65	96.32	63.90	44.10	103.78	72.65
3196	6.20	11.04	15.47	88.17	78.81	54.65	13.97	86.57	22.81	125.57	84.57	57.66	38.82	98.97	66.02
3197	6.99	10.87	15.47	79.85	69.53	52.25	11.94	75.97	22.67	114.09	73.82	52.80	33.90	95.54	62.63
3198	7.77	10.68	15.47	69.78	61.27	50.10	13.53	66.52	23.38	100.73	64.50	49.60	29.86	92.53	61.60
3199	0.43	12.74	15.47	33.24	27.96	48.70	114.23	154.35	23.34	114.58	55.77	96.48	113.01	147.42	92.73
3200	1.30	12.71	15.47	19.54	45.38	48.60	104.67	143.90	25.76	112.60	67.06	95.98	104.22	137.24	95.43
3201	2.16	12.64	15.47	32.41	61.86	48.47	91.74	130.36	28.68	114.40	79.13	92.21	92.82	124.00	95.21
3202	3.01	12.55	15.47	55.02	71.59	49.50	71.70	114.83	27.95	121.19	85.35	83.93	75.96	108.95	89.43
3203	3.85	12.42	15.47	60.39	73.37	51.30	51.80	103.23	25.32	119.18	84.08	75.00	60.75	99.37	80.75
3204	4.69	12.26	15.47	64.47	69.30	52.29	37.99	93.65	23.74	114.76	77.27	67.80	51.47	93.25	72.92
3205	5.51	12.08	15.47	66.14	64.09	52.47	27.13	84.78	22.87	109.79	69.42	61.67	43.43	89.36	66.37
3206	6.32	11.86	15.47	62.98	58.74	51.99	19.19	77.33	22.79	101.62	62.09	56.73	36.51	88.02	62.08
3207	7.12	11.62	15.47	58.36	53.42	50.97	15.09	70.34	23.61	92.35	55.30	52.88	30.73	87.30	60.23
3208	7.90	11.35	15.47	52.73	48.46	49.78	14.13	63.57	25.13	82.28	49.22	50.04	25.79	86.16	60.25
3209	0.44	13.81	15.47	39.25	20.58	45.97	75								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
3235	10.45	9.25	15.47	40.49	45.09	45.58	21.73	40.93	27.27	58.20	48.51	48.75	21.20	79.56	64.58
3236	10.23	9.74	15.47	39.02	42.93	46.15	19.83	43.42	28.64	56.43	44.34	47.60	19.05	78.98	65.05
3237	10.01	10.22	15.47	37.26	40.58	46.70	18.32	46.18	29.94	54.71	40.25	46.97	17.36	78.88	64.85
3238	8.89	12.24	15.47	23.57	27.57	49.11	18.15	59.66	36.19	45.75	21.64	51.55	13.77	79.41	59.77
3239	8.73	11.67	15.47	34.51	35.43	48.90	16.19	57.97	30.59	58.31	32.55	49.44	17.81	81.09	60.51
3240	8.56	11.09	15.47	47.24	44.63	48.80	14.96	58.03	26.86	72.85	44.45	48.38	22.13	84.61	61.38
3241	9.58	11.75	15.47	23.29	28.91	48.16	18.32	54.61	37.85	40.03	22.69	49.17	10.97	77.17	63.35
3242	9.34	11.30	15.47	32.34	34.98	48.09	16.77	53.45	32.31	51.98	31.74	47.98	15.04	79.29	62.80
3243	9.10	10.85	15.47	42.84	42.12	48.06	16.07	53.61	28.36	65.28	41.41	47.54	19.54	82.70	62.71
3244	10.24	11.22	15.47	22.44	30.41	47.15	18.80	49.41	39.02	34.69	24.15	47.39	9.15	73.89	66.43
3245	9.93	10.90	15.47	29.85	34.74	47.25	17.62	49.02	33.79	45.69	31.24	47.00	13.11	76.65	64.90
3246	9.63	10.59	15.47	38.39	40.38	47.32	17.19	49.51	29.79	57.58	39.67	47.02	17.37	80.11	63.94
3247	8.59	9.32	13.78	47.00	52.99	79.60	21.11	75.46	25.78	120.90	60.91	79.75	41.29	146.21	83.73
3248	9.36	9.29	13.78	41.11	49.55	79.19	20.93	68.44	27.16	106.60	55.37	82.35	37.61	142.77	86.08
3249	10.12	9.26	13.78	34.84	47.04	78.99	20.37	61.94	29.01	90.71	50.19	85.66	33.07	136.17	88.28
3250	8.70	9.96	13.78	41.50	49.58	80.82	18.56	74.59	27.66	108.93	54.73	79.52	37.78	137.24	85.79
3251	9.37	9.87	13.78	37.09	47.10	80.35	19.02	68.68	28.99	97.60	50.40	80.91	34.57	134.85	87.60
3252	10.03	9.77	13.78	32.42	45.33	79.99	19.29	63.18	30.74	85.19	46.33	83.06	31.05	130.37	89.42
3253	8.80	10.60	13.78	35.52	45.62	81.95	17.99	73.91	29.74	97.04	48.00	79.94	34.18	128.86	86.70
3254	9.37	10.44	13.78	32.76	44.45	81.45	18.44	69.07	30.96	88.76	45.44	80.27	31.62	127.63	88.11
3255	9.93	10.27	13.78	29.76	43.37	81.04	18.94	64.36	32.59	79.88	42.30	81.47	28.65	124.71	89.92
3256	0.41	9.57	13.78	36.64	19.80	64.23	39.42	163.66	50.49	150.44	42.26	107.74	43.12	154.85	80.67
3257	1.24	9.56	13.78	29.71	30.33	63.85	38.41	157.54	36.88	152.17	49.94	106.31	44.07	152.75	75.77
3258	2.07	9.55	13.78	34.31	40.14	65.20	33.73	147.24	25.86	156.51	57.70	103.74	42.73	147.21	73.90
3259	2.89	9.54	13.78	40.55	48.12	69.81	26.05	133.88	19.78	160.14	63.56	100.15	40.20	139.28	74.66
3260	3.72	9.52	13.78	41.68	53.04	73.18	19.74	129.17	18.67	157.83	67.09	95.17	39.52	141.91	77.23
3261	4.54	9.49	13.78	60.53	55.39	76.99	13.54	117.63	19.68	164.63	68.52	89.80	43.25	138.63	77.11
3262	5.36	9.46	13.78	55.01	63.80	79.06	14.48	106.94	20.88	156.91	76.35	84.73	43.12	138.53	77.29
3263	6.18	9.43	13.78	55.66	62.53	81.14	16.40	99.32	22.36	150.58	74.15	81.85	44.61	141.85	78.94
3264	6.99	9.39	13.78	54.97	60.41	81.07	18.89	91.29	23.56	143.11	70.99	79.40	44.99	144.99	80.20
3265	7.80	9.35	13.78	51.87	56.83	80.33	20.55	83.17	24.69	133.10	66.11	78.64	43.87	146.80	81.83
3266	0.43	10.71	13.78	37.75	17.82	68.53	48.26	159.71	45.00	145.79	38.75	117.74	49.74	148.48	84.59
3267	1.29	10.69	13.78	27.87	27.67	69.57	44.99	151.62	33.89	146.55	44.93	116.92	48.74	143.31	82.26
3268	2.14	10.66	13.78	28.34	37.10	70.55	38.41	144.34	26.60	147.87	51.53	113.78	45.49	140.00	82.16
3269	2.99	10.61	13.78	40.15	45.45	74.20	30.44	131.01	24.48	151.78	58.97	108.99	43.87	131.04	82.14
3270	3.83	10.55	13.78	37.78	61.60	77.29	31.53	121.94	22.73	147.29	74.61	102.81	45.45	128.80	82.63
3271	4.67	10.48	13.78	50.52	60.96	80.54	20.84	114.17	22.83	149.37	72.49	96.76	43.50	129.17	82.78
3272	5.50	10.39	13.78	48.78	58.85	81.84	17.13	103.70	23.78	143.03	68.82	90.20	42.73	128.44	82.13
3273	6.33	10.30	13.78	49.30	58.31	83.15	15.71	96.62	24.78	136.64	67.38	85.52	42.92	132.15	82.35
3274	7.15	10.19	13.78	48.36	55.78	82.61	16.44	89.06	25.68	129.00	63.65	81.59	42.09	135.43	82.99
3275	7.96	10.06	13.78	45.48	52.52	81.62	17.65	81.41	26.64	119.48	59.01	79.52	40.27	137.40	84.30
3276	0.44	11.85	13.78	40.38	17.86	71.79	56.56	147.58	39.66	140.64	39.18	122.85	56.15	133.64	85.66
3277	1.33	11.82	13.78	28.53	28.07	73.30	53.88	140.63	32.73	139.56	45.80	122.36	55.36	128.96	85.62
3278	2.20	11.76	13.78	25.69	40.21	74.45	50.27	134.49	27.53	138.73	55.23	119.23	54.01	126.22	86.07
3279	3.07	11.69	13.78	32.46	44.73	76.57	39.41	124.19	25.47	140.25	57.34	114.14	48.21	120.20	85.60
3280	3.94	11.59	13.78	33.91	46.79	79.96	30.70	113.22	25.63	137.71	57.12	108.00	44.36	115.03	84.37
3281	4.79	11.47	13.78	36.29	49.89	82.93	25.08	107.48	25.89	132.66	59.16	101.80	43.29	117.24	83.96
3282	5.64	11.33	13.78	39.69	51.55	83.84	20.93	100.44	26.23	127.86	59.60	94.88	42.31	119.52	83.64
3283	6.47	11.17	13.78	40.79	51.13	84.00	18.26	93.41	26.84	121.87	57.79	88.71	40.85	122.83	83.40
3284	7.30	10.98	13.78	40.11	49.36	83.51	17.31	86.56	27.60	114.41	54.57	83.93	38.97	126.21	83.90
3285	8.11	10.78	13.78	38.08	47.21	82.67	17.46	79.72	28.62	105.62	50.87	80.91	36.60	128.43	85.25
3286	0.45	12.99	13.78	43.72	14.64	73.74	49.74	135.69	33.96	135.03	34.29	125.13	47.64	119.08	81.43
3287	1.36	12.95	13.78	31.71	22.01	75.02	47.93	130.08	29.78	132.73	38.65	124.93	47.68	115.48	82.42
3288	2.26	12.88	13.78	24.69	28.52	76.96	43.29	122.94	27.49	130.79	42.50	122.45	45.82	111.19	82.90
3289	3.15	12.77	13.78	23.61	34.45	78.93	38.64	116.26	26.58	127.78	46.26	118.27	44.48	108.82	83.17
3290	4.04	12.64	13.78	25.51	39.12	81.00	33.63	109.37	26.54	123.90	48.95	112.69	43.21	107.56	82.94
3291	4.91	12.47	13.78	28.22	41.74	82.92	28.40	102.75	26.96	119.35	49.54	106.03	41.45	108.32	82.05
3292	5.77	12.27	13.78	30.16	42.69	84.16	24.37	96.72	27.60	113.64	48.62	99.25	39.71	111.14	81.43
3293	6.61	12.04	13.78	31.31	42.73	84.55	21.62	90.67	28.44	107.28	46.86	92.88	37.64	114.63	81.60
3294	7.44	11.78	13.78	31.43	42.28	84.33	19.97	84.57	29.57	100.22	44.67	87.43	35.18	117.97	82.67
3295	8.25	11.50	13.78	30.56	41.59	83.74	19.25	78.42	31.03	92.31	42.26	83.41	32.45	120.27	84.53
3296	0.47	14.13	13.78	47.49	12.59	75.12	43.64	129.16	27.72	128.09	30.16	129.66	39.64	110.43	70.16
3297	1.39	14.08	13.78	36.85	17.48	76.42	42.73	124.09	25.59	125.16	32.89	130.02	39.98	107.22	71.98
3298	2.31	13.99	13.78	28.93	22.46	78.00	40.23	118.14	25.00	121.78	35.25	128.25	39.48	104.03	73.28
3299	3.23	13.86	13.78	23.97	26.58	79.91	36.69	111.82	25.42	117.68	36.77	124.55	38.53	101.67	73.96
3300	4.13	13.69	13.78	22.09	29.62	81.87	33.02	105.77	26.37	112.70	37.30	119.34	37.56	101.07	74.28
3301	5.02	13.47	13.78	21.98	31.79	83.58	29.77	100.04	27.58	106.90	37.09	113.16	36.50	102.23	74.66
3302	5.89	13.21	13.78	22.65	33.36	84.79	26.97	94.52	29.00	100.64	36.44	106.37	34.98	104.76	75.47
3303	6.74	12.92	13.78	23.41	34.55	85.40	24.75	89.06	30.63	94.04	35.61	99.51	32.98	107.97	77.03
3304	7.58	12.59	13.78	23.91	35.54	85.46	23.09	83.48	32.48	87.21	34.77	93.12	30.58	111.00	79.39
3305	8.39	12.22	13.78	23.92	36.41	85.05	21.97	77.72	34.51	80.08	33.96	87.76	27.92	113.11	82.38
3306	0.47	15.27	13.78	51.22	7.80	77.44	36.10	127.84	21.87	120.70	18.37	144.51	30.40	107.81	51.48
3307	1.42	15.22	13.78												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
3333	10.04	10.69	13.78	26.24	41.47	81.82	19.41	64.07	35.14	71.98	38.51	81.05	25.60	118.58	90.09
3334	8.93	9.34	12.09	36.85	45.13	108.96	21.50	86.18	34.07	163.85	51.99	107.84	56.97	192.20	103.99
3335	9.73	9.31	12.09	33.73	45.57	110.45	21.75	80.09	33.92	148.46	48.16	115.61	54.64	192.05	108.06
3336	10.52	9.27	12.09	29.92	46.47	111.87	21.79	73.81	34.33	130.08	44.12	125.32	50.99	186.63	111.49
3337	9.05	10.01	12.09	33.34	43.98	111.71	21.65	85.36	34.99	148.41	47.15	108.49	54.34	179.80	106.78
3338	9.74	9.91	12.09	30.99	44.59	112.63	21.94	79.95	35.14	136.28	44.16	113.49	52.03	179.85	110.03
3339	10.43	9.81	12.09	28.17	45.54	113.48	22.12	74.49	35.79	122.10	41.01	120.36	49.06	176.44	112.90
3340	9.16	10.69	12.09	29.86	42.54	114.36	22.64	84.56	36.20	133.22	42.14	109.86	50.55	167.48	108.18
3341	9.75	10.52	12.09	28.27	43.48	114.78	22.70	79.87	36.58	124.46	40.42	112.38	48.73	168.21	110.71
3342	10.34	10.35	12.09	26.36	44.44	115.22	22.85	75.03	37.38	114.46	37.88	116.86	46.18	166.34	113.42
3343	0.43	9.60	12.09	45.51	17.96	86.23	25.13	143.14	74.20	184.55	44.69	129.22	34.45	123.08	95.11
3344	1.29	9.60	12.09	39.75	22.22	87.77	24.63	139.47	64.67	188.48	47.86	128.80	38.18	126.78	90.55
3345	2.15	9.58	12.09	37.39	27.46	90.01	23.20	134.54	56.29	192.26	51.46	126.55	41.55	130.84	87.58
3346	3.01	9.57	12.09	37.18	32.88	92.37	21.51	129.41	49.41	195.06	55.34	122.67	44.96	136.72	86.14
3347	3.87	9.55	12.09	38.65	37.71	95.72	19.68	122.47	44.51	197.43	58.61	118.02	48.42	142.46	86.08
3348	4.72	9.52	12.09	39.14	41.60	98.91	19.16	116.82	40.22	196.69	60.90	112.86	51.19	151.35	87.19
3349	5.57	9.49	12.09	41.00	42.75	101.71	18.65	111.05	37.52	195.46	60.31	107.80	54.37	161.17	89.33
3350	6.42	9.46	12.09	41.19	44.17	103.80	19.30	104.72	36.31	191.65	59.73	103.59	56.52	171.01	92.21
3351	7.27	9.42	12.09	40.61	44.65	105.76	20.18	98.54	35.31	185.21	57.79	101.77	57.81	180.36	95.80
3352	8.11	9.37	12.09	39.16	44.86	107.43	20.97	92.32	34.60	175.97	55.01	103.05	57.99	187.94	99.93
3353	0.45	10.81	12.09	46.71	16.61	92.35	31.02	142.43	67.71	174.06	41.64	139.76	36.27	118.49	94.07
3354	1.34	10.79	12.09	40.20	21.44	94.00	30.61	138.83	59.96	176.83	45.01	139.60	39.96	121.31	91.63
3355	2.23	10.75	12.09	35.72	26.98	96.48	28.99	133.20	53.23	179.38	48.65	137.46	43.17	123.63	90.16
3356	3.12	10.70	12.09	34.84	32.23	99.03	26.95	127.84	47.21	180.87	51.77	133.48	45.90	128.40	89.62
3357	4.00	10.64	12.09	35.08	34.70	101.90	23.43	121.71	43.34	181.81	52.33	128.26	48.67	134.17	90.25
3358	4.87	10.56	12.09	35.57	38.48	104.55	22.18	115.35	40.81	180.44	54.28	122.15	51.28	141.54	91.63
3359	5.73	10.47	12.09	36.62	41.04	106.88	21.03	109.76	38.50	178.15	54.97	116.05	53.63	150.98	93.62
3360	6.59	10.37	12.09	36.78	42.23	108.37	20.76	103.48	36.97	173.82	53.94	110.43	55.11	160.14	96.29
3361	7.44	10.25	12.09	36.35	42.92	109.69	20.91	97.36	35.97	167.45	52.08	106.76	55.83	168.92	99.60
3362	8.28	10.12	12.09	35.18	43.40	110.76	21.27	91.17	35.31	158.81	49.57	105.96	55.56	176.02	103.37
3363	0.46	12.02	12.09	48.59	14.97	97.58	33.82	140.35	59.92	163.04	38.43	149.22	34.99	112.65	91.01
3364	1.39	11.99	12.09	41.46	19.29	99.47	33.56	136.50	53.71	164.70	41.16	149.47	38.62	114.37	90.24
3365	2.30	11.93	12.09	35.79	23.74	101.90	31.67	131.04	48.75	165.91	43.43	147.59	41.50	116.05	90.14
3366	3.21	11.85	12.09	33.70	28.73	104.59	29.99	125.49	44.90	166.13	46.23	143.74	44.44	119.64	90.69
3367	4.11	11.74	12.09	32.39	33.19	107.01	27.89	120.09	41.61	165.27	48.55	138.23	47.13	125.51	91.66
3368	5.00	11.62	12.09	32.27	36.11	109.13	25.76	113.86	39.40	163.55	49.09	131.55	49.23	132.19	93.11
3369	5.88	11.47	12.09	32.43	37.96	111.05	24.17	108.00	38.02	160.38	48.55	124.56	50.89	140.49	95.20
3370	6.75	11.29	12.09	32.46	39.38	112.36	23.22	102.09	37.00	155.76	47.44	117.84	51.93	149.18	97.94
3371	7.60	11.10	12.09	32.08	40.50	113.26	22.76	96.05	36.35	149.61	45.78	112.43	52.20	157.30	101.25
3372	8.44	10.88	12.09	31.14	41.50	113.89	22.62	89.92	36.12	141.62	43.75	109.52	51.69	163.87	105.02
3373	0.48	13.23	12.09	51.17	13.54	102.06	35.29	138.21	51.02	151.57	35.36	159.46	32.05	107.13	84.36
3374	1.43	13.19	12.09	44.00	17.10	104.25	35.30	134.02	46.48	152.24	37.52	160.22	35.34	107.73	84.98
3375	2.37	13.11	12.09	38.35	21.45	106.50	34.38	129.13	42.82	152.14	39.56	158.64	38.27	109.36	85.94
3376	3.30	13.00	12.09	34.02	25.39	108.92	32.57	123.60	40.23	151.26	40.85	154.92	40.71	112.20	87.18
3377	4.22	12.85	12.09	31.63	28.64	111.31	30.58	117.93	38.62	149.51	41.38	149.39	42.88	116.91	88.80
3378	5.13	12.67	12.09	30.29	31.52	113.36	28.87	112.29	37.56	146.67	41.55	142.50	44.79	123.32	90.94
3379	6.02	12.46	12.09	29.51	33.98	114.92	27.38	106.54	36.95	142.91	41.24	134.69	46.14	130.77	93.61
3380	6.90	12.22	12.09	28.95	36.00	115.99	26.20	100.71	36.76	138.18	40.42	126.69	46.86	138.60	96.86
3381	7.76	11.95	12.09	28.33	37.76	116.64	25.35	94.73	36.93	132.30	39.24	119.52	46.90	145.95	100.63
3382	8.60	11.64	12.09	27.44	39.40	116.99	24.78	88.62	37.44	125.07	37.78	114.37	46.28	151.88	104.75
3383	0.49	14.44	12.09	54.26	11.13	106.04	35.00	137.24	41.18	140.06	29.33	173.97	27.35	103.54	73.53
3384	1.46	14.39	12.09	47.61	13.75	108.26	35.42	132.83	38.09	139.91	30.91	175.12	29.97	103.23	75.11
3385	2.42	14.30	12.09	41.74	17.16	110.60	35.07	127.81	36.11	138.90	32.14	173.82	32.42	104.01	77.08
3386	3.38	14.15	12.09	37.01	20.70	112.94	34.23	122.45	35.14	137.01	33.01	170.20	34.74	106.32	79.42
3387	4.32	13.97	12.09	33.31	24.07	115.15	33.07	116.86	34.98	134.25	33.47	164.43	36.80	110.22	82.14
3388	5.24	13.74	12.09	30.56	27.14	117.09	31.80	111.16	35.42	130.73	33.56	156.84	38.45	115.60	85.31
3389	6.15	13.47	12.09	28.53	29.95	118.60	30.58	105.40	36.25	126.49	33.39	147.92	39.62	122.03	89.02
3390	7.04	13.15	12.09	26.96	32.55	119.60	29.42	99.52	37.33	121.59	33.05	138.35	40.23	128.82	93.28
3391	7.91	12.80	12.09	25.66	35.01	120.12	28.37	93.50	38.58	115.99	32.61	129.04	40.28	135.21	97.98
3392	8.75	12.41	12.09	24.46	37.35	120.22	27.44	87.32	39.93	109.54	32.06	121.25	39.79	140.40	102.87
3393	0.50	15.66	12.09	57.72	8.15	109.98	35.31	138.18	31.05	128.56	19.62	197.23	25.12	102.93	60.34
3394	1.49	15.60	12.09	51.65	9.97	112.12	36.10	133.38	29.91	127.79	20.86	198.68	26.24	101.53	62.89
3395	2.47	15.48	12.09	45.98	12.91	114.39	36.33	128.05	30.17	126.10	21.91	197.29	27.56	101.25	65.94
3396	3.44	15.31	12.09	40.90	16.22	116.72	36.12	122.39	31.48	123.53	22.76	193.10	29.00	102.42	69.44
3397	4.40	15.09	12.09	36.49	19.60	118.94	35.59	116.55	33.42	120.14	23.44	186.30	30.43	105.16	73.37
3398	5.35	14.81	12.09	32.70	22.93	120.90	34.85	110.62	35.65	116.04	24.04	177.22	31.68	109.32	77.81
3399	6.27	14.48	12.09	29.46	26.19	122.43	33.94	104.62	37.97	111.39	24.62	166.33	32.61	114.47	82.77
3400	7.17	14.09	12.09	26.71	29.35	123.43	32.88	98.55	40.21	106.31	25.23	154.30	33.14	120.03	88.23
3401	8.05	13.66	12.09	24.41	32.43	123.85	31.70	92.37	42.29	100.88	25.85	142.08	33.27	125.31	94.04
3402	8.89	13.18	12.09	22.48	35.40	123.73	30.45	86.06	44.14	95.19	26.46	130.95	33.03	129.64	99.90
3403	12.84	9.38	12.09	16.24	51.55	114.49	20.71	52.57	44.35	63.51	30.05	142.47	31.76	125.05	116.83
3404	12.32	10.13	12.09	16.											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
3431	1.34	9.63	10.41	48.91	21.04	110.21	22.26	144.73	89.87	221.92	50.49	155.64	43.26	118.73	107.07
3432	2.24	9.62	10.41	47.14	23.69	112.55	22.41	141.24	82.96	229.59	52.59	153.95	48.93	128.61	103.99
3433	3.13	9.60	10.41	46.39	26.64	115.43	22.35	136.99	76.70	236.75	54.28	150.58	54.53	139.95	102.11
3434	4.02	9.58	10.41	46.44	29.60	118.46	22.39	132.48	71.08	242.89	55.49	145.68	60.03	153.29	101.54
3435	4.90	9.55	10.41	46.74	32.32	121.65	22.53	127.38	66.44	248.10	56.01	139.73	65.48	167.91	102.41
3436	5.79	9.52	10.41	47.12	34.99	124.87	23.07	121.99	62.40	251.52	55.96	133.40	70.47	183.76	104.62
3437	6.67	9.48	10.41	47.28	37.22	128.09	23.74	116.42	58.72	252.87	54.81	127.78	75.06	200.23	108.09
3438	7.55	9.44	10.41	46.92	39.36	131.26	24.52	110.59	55.48	251.38	52.77	124.42	78.95	216.41	112.76
3439	8.42	9.39	10.41	45.83	41.51	134.53	25.28	104.57	52.47	246.03	49.78	125.65	81.88	231.18	118.45
3440	0.47	10.92	10.41	52.66	17.81	116.84	25.80	148.39	89.41	199.02	44.85	168.09	36.56	106.60	107.14
3441	1.40	10.89	10.41	48.94	19.63	119.02	26.27	145.21	83.01	205.74	46.67	168.65	42.59	113.34	104.61
3442	2.33	10.85	10.41	46.46	22.43	121.45	26.30	141.42	77.04	211.95	48.37	167.07	48.44	121.88	102.97
3443	3.25	10.80	10.41	44.61	25.57	124.18	26.00	136.88	71.81	217.54	49.75	163.53	54.20	132.00	102.45
3444	4.16	10.73	10.41	43.97	28.95	126.99	25.85	131.94	67.09	222.22	50.87	158.25	59.69	144.01	102.99
3445	5.06	10.65	10.41	43.58	31.76	129.77	25.60	126.70	62.91	225.91	50.97	151.63	64.96	157.64	104.68
3446	5.96	10.55	10.41	43.51	34.32	132.40	25.65	121.05	59.41	228.12	50.31	144.26	69.76	172.26	107.59
3447	6.85	10.44	10.41	43.30	36.71	134.97	25.88	115.27	56.27	228.53	48.95	137.22	74.03	187.52	111.61
3448	7.73	10.32	10.41	42.76	39.00	137.42	26.25	109.24	53.45	226.46	46.85	132.01	77.52	202.42	116.63
3449	8.60	10.18	10.41	41.64	41.32	139.91	26.67	103.06	50.91	221.18	44.14	130.90	80.00	215.95	122.46
3450	0.48	12.20	10.41	54.39	16.25	125.11	29.28	148.62	80.12	183.69	41.30	181.79	33.57	102.34	101.30
3451	1.45	12.16	10.41	50.06	18.02	127.46	29.78	145.12	74.78	188.95	42.79	182.74	39.56	107.54	100.22
3452	2.41	12.10	10.41	46.73	20.88	129.96	29.88	141.01	69.89	193.59	44.13	181.36	45.39	114.62	99.94
3453	3.35	12.01	10.41	43.98	24.05	132.54	29.54	136.31	65.54	197.55	44.96	177.74	50.99	123.55	100.53
3454	4.29	11.90	10.41	42.31	27.16	135.12	29.09	131.10	61.88	200.75	45.19	172.13	56.32	134.21	102.15
3455	5.21	11.76	10.41	41.17	30.19	137.55	28.70	125.67	58.70	202.92	44.98	164.86	61.35	146.58	104.77
3456	6.13	11.60	10.41	40.37	33.07	139.70	28.44	119.90	55.89	203.95	44.21	156.44	65.89	159.97	108.38
3457	7.03	11.42	10.41	39.64	35.75	141.66	28.32	113.91	53.47	203.49	42.79	147.85	69.82	173.83	112.99
3458	7.91	11.21	10.41	38.77	38.32	143.47	28.31	107.71	51.37	201.02	40.83	140.56	73.00	187.37	118.46
3459	8.78	10.98	10.41	37.56	40.92	145.22	28.33	101.38	49.60	195.91	38.52	136.76	75.31	199.61	124.59
3460	0.50	13.48	10.41	56.80	14.40	132.99	32.00	148.74	69.15	168.37	36.79	197.94	28.67	98.52	92.98
3461	1.49	13.43	10.41	52.21	15.99	135.42	32.64	144.94	64.82	172.19	37.96	199.28	34.22	102.18	93.12
3462	2.47	13.35	10.41	48.11	18.65	137.97	32.79	140.49	61.12	175.33	38.79	198.11	39.65	107.72	94.09
3463	3.45	13.23	10.41	44.79	21.83	140.47	32.65	135.57	58.05	177.74	39.25	194.45	44.93	115.28	95.90
3464	4.40	13.07	10.41	42.06	25.16	142.81	32.31	130.24	55.51	179.38	39.30	188.43	49.96	124.68	98.57
3465	5.35	12.88	10.41	39.91	28.40	144.90	31.84	124.56	53.49	180.24	38.83	180.35	54.62	135.59	102.16
3466	6.28	12.66	10.41	38.21	31.49	146.69	31.39	118.61	51.91	180.15	37.90	170.72	58.84	147.55	106.68
3467	7.19	12.40	10.41	36.75	34.49	148.18	30.99	112.43	50.65	178.91	36.61	160.36	62.51	159.94	112.06
3468	8.08	12.11	10.41	35.35	37.44	149.43	30.63	106.05	49.66	176.17	35.04	150.66	65.50	172.02	118.14
3469	8.95	11.79	10.41	33.85	40.37	150.52	30.29	99.53	48.92	171.40	33.22	143.78	67.67	182.92	124.62
3470	0.51	14.76	10.41	59.79	12.23	140.33	34.51	149.19	56.38	153.48	30.51	218.62	23.44	95.95	82.25
3471	1.53	14.70	10.41	55.13	13.59	142.87	35.28	145.00	53.20	156.00	31.49	220.39	27.77	97.92	83.54
3472	2.53	14.60	10.41	50.73	16.19	145.41	35.65	140.23	50.88	157.78	32.13	219.32	32.28	101.91	85.70
3473	3.53	14.45	10.41	46.71	19.38	147.85	35.68	135.00	49.39	158.84	32.39	215.39	36.80	107.94	88.72
3474	4.51	14.25	10.41	43.17	22.79	150.07	35.46	129.38	48.58	159.18	32.30	208.69	41.20	115.85	92.60
3475	5.47	14.01	10.41	40.07	26.26	151.96	35.06	123.46	48.29	158.81	31.91	199.47	45.38	125.27	97.34
3476	6.41	13.72	10.41	37.37	29.70	153.46	34.53	117.27	48.36	157.69	31.29	188.17	49.23	135.69	102.90
3477	7.34	13.39	10.41	34.98	33.08	154.56	33.90	110.85	48.65	155.74	30.48	175.57	52.66	146.53	109.19
3478	8.24	13.01	10.41	32.84	36.41	155.32	33.21	104.27	49.05	152.79	29.56	162.99	55.58	157.10	115.99
3479	9.11	12.60	10.41	30.84	39.70	155.80	32.46	97.56	49.47	148.45	28.58	152.55	57.84	166.65	122.95
3480	0.52	16.04	10.41	63.18	9.96	147.11	37.18	150.10	42.58	139.39	21.58	246.01	21.74	94.99	70.99
3481	1.55	15.98	10.41	58.57	11.04	149.71	38.08	145.41	41.05	140.83	22.46	248.17	23.59	95.19	73.48
3482	2.58	15.86	10.41	53.99	13.57	152.26	38.65	140.21	40.81	141.52	23.16	247.00	26.07	97.46	76.87
3483	3.59	15.68	10.41	49.56	16.85	154.66	38.89	134.58	41.59	141.48	23.67	242.43	28.99	101.86	81.07
3484	4.59	15.44	10.41	45.36	20.46	156.79	38.83	128.60	43.06	140.73	24.00	234.54	32.15	108.18	86.07
3485	5.58	15.14	10.41	41.42	24.19	158.55	38.50	122.33	44.91	139.32	24.19	223.54	35.39	116.03	91.83
3486	6.54	14.79	10.41	37.77	27.94	159.87	37.93	115.83	46.88	137.29	24.29	209.89	38.56	124.89	98.30
3487	7.47	14.38	10.41	34.43	31.67	160.71	37.12	109.15	48.77	134.64	24.33	194.34	41.58	134.16	105.35
3488	8.38	13.92	10.41	31.41	35.35	161.08	36.10	102.35	50.43	131.37	24.35	178.19	44.37	143.20	112.77
3489	9.26	13.41	10.41	28.71	38.95	161.05	34.92	95.46	51.78	127.48	24.38	163.57	46.85	151.37	120.16
3490	13.33	9.40	10.41	19.34	58.89	153.31	26.37	61.59	48.56	96.32	32.77	219.47	58.49	167.17	141.11
3491	12.79	10.19	10.41	20.46	55.73	155.59	27.80	65.83	50.71	101.88	29.76	195.05	56.44	166.36	141.47
3492	12.21	10.95	10.41	21.25	52.53	157.53	29.28	70.66	52.32	104.75	27.31	173.56	53.61	165.13	140.55
3493	12.53	9.35	10.41	25.35	55.29	151.73	26.57	70.66	45.27	133.13	31.14	209.15	68.31	207.00	142.71
3494	12.15	10.03	10.41	25.12	53.17	153.32	27.71	73.16	47.38	130.30	29.74	187.29	65.97	196.53	142.89
3495	11.74	10.69	10.41	25.02	50.93	154.94	28.80	76.09	49.09	128.01	28.44	169.40	62.88	187.47	141.34
3496	11.73	9.29	10.41	31.04	51.95	148.77	26.69	78.58	44.39	166.40	33.41	190.64	76.08	233.26	140.55
3497	11.51	9.88	10.41	29.95	50.74	150.43	27.54	79.66	45.86	158.66	31.86	175.90	73.72	218.84	141.41
3498	11.27	10.45	10.41	28.96	49.39	152.06	28.42	81.17	47.27	151.16	30.39	163.50	70.58	205.93	140.50
3499	10.08	12.86	10.41	26.44	42.36	160.66	33.65	88.82	52.76	122.59	24.29	153.62	48.81	158.06	127.28
3500	9.88	12.17	10.41	29.11	42.67	156.00	31.67	91.42	49.86	143.15	27.64	147.21	59.38	174.19	129.45
3501	9.68	11.48	10.41	32.34	42.93	151.39	29.95	93.82	48.51	165.32	31.53	142.19	68.68	190.	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
3529	2.42	10.95	8.72	54.30	22.97	146.80	27.75	158.36	99.83	242.65	49.61	199.75	57.53	119.64	117.62
3530	3.38	10.89	8.72	53.61	25.14	149.59	28.36	152.04	94.80	253.60	50.18	196.46	65.45	133.38	116.71
3531	4.32	10.82	8.72	53.34	27.67	152.57	28.93	147.11	90.12	264.48	50.16	191.08	73.56	149.12	116.99
3532	5.26	10.73	8.72	53.55	30.45	155.66	29.60	141.62	85.76	275.07	49.55	183.78	81.78	166.71	118.62
3533	6.19	10.63	8.72	53.96	33.36	158.80	30.35	135.68	81.64	285.10	48.21	175.04	90.06	186.01	121.71
3534	7.11	10.52	8.72	54.45	36.38	162.00	31.22	129.35	77.71	294.03	46.09	165.74	98.28	206.70	126.38
3535	8.03	10.39	8.72	54.76	39.56	165.34	32.17	122.74	73.91	301.12	43.24	157.68	106.26	228.42	132.68
3536	8.93	10.24	8.72	54.65	42.95	168.93	33.13	115.98	70.19	305.24	39.86	154.08	113.69	250.53	140.52
3537	0.51	12.37	8.72	59.09	19.25	154.28	29.86	163.32	100.31	202.13	43.26	217.39	37.87	94.10	114.67
3538	1.51	12.33	8.72	56.48	19.89	156.51	30.68	160.06	95.47	210.99	44.17	218.77	45.49	101.83	113.16
3539	2.51	12.26	8.72	54.21	21.55	158.99	31.31	156.07	90.95	219.73	44.69	217.73	53.26	111.89	112.54
3540	3.49	12.17	8.72	52.49	23.94	161.62	31.82	151.42	86.79	228.33	44.76	214.22	61.18	124.17	112.97
3541	4.46	12.05	8.72	51.21	26.77	164.25	32.24	146.19	82.95	236.73	44.31	208.27	69.20	138.50	114.56
3542	5.42	11.90	8.72	50.37	29.83	166.83	32.66	140.42	79.42	244.82	43.25	200.09	77.29	154.60	117.47
3543	6.37	11.74	8.72	49.85	33.03	169.33	33.13	134.22	76.14	252.37	41.58	190.10	85.37	172.23	121.79
3544	7.30	11.54	8.72	49.49	36.35	171.76	33.65	127.64	73.04	259.00	39.36	179.16	93.35	191.06	127.58
3545	8.22	11.33	8.72	49.13	39.81	174.20	34.22	120.81	70.08	264.10	36.73	168.99	101.05	210.67	134.81
3546	9.12	11.08	8.72	48.57	43.43	176.78	34.78	113.84	67.24	266.71	34.09	162.75	108.28	230.48	143.37
3547	0.52	13.72	8.72	61.47	17.31	166.41	33.30	163.64	87.75	183.83	38.29	238.22	31.13	90.19	105.09
3548	1.56	13.67	8.72	58.25	17.96	168.77	34.13	159.98	83.73	190.64	38.91	240.02	38.30	95.87	104.78
3549	2.58	13.58	8.72	55.25	19.78	171.22	34.76	155.63	80.19	197.17	39.11	239.04	45.64	104.14	105.47
3550	3.59	13.45	8.72	52.56	22.40	173.64	35.19	150.66	77.12	203.42	38.84	235.22	53.12	114.79	107.24
3551	4.59	13.29	8.72	50.25	25.50	175.94	35.48	145.11	74.47	209.37	38.07	228.56	60.69	127.51	110.20
3552	5.57	13.09	8.72	48.30	28.87	178.04	35.69	139.07	72.17	214.97	36.83	219.24	68.32	141.98	114.42
3553	6.53	12.85	8.72	46.68	32.41	179.90	35.85	132.60	70.12	220.09	35.16	207.66	75.94	157.82	119.96
3554	7.47	12.58	8.72	45.33	36.05	181.57	35.99	125.78	68.26	224.48	33.18	194.63	83.46	174.65	126.79
3555	8.40	12.27	8.72	44.13	39.81	183.12	36.13	118.72	66.51	227.70	31.15	181.82	90.74	192.04	134.81
3556	9.30	11.93	8.72	42.94	43.70	184.69	36.23	111.53	64.81	229.00	29.55	172.28	97.53	209.42	143.79
3557	0.53	15.07	8.72	64.49	15.06	178.34	36.68	163.95	72.75	166.55	31.87	263.53	23.33	87.19	93.82
3558	1.59	15.01	8.72	60.90	15.71	180.78	37.54	159.85	69.73	171.49	32.36	265.76	29.28	90.63	94.76
3559	2.64	14.90	8.72	57.32	17.70	183.18	38.17	155.11	67.50	176.01	32.47	264.79	35.58	96.91	96.81
3560	3.68	14.74	8.72	53.88	20.59	185.42	38.58	149.77	65.95	180.14	32.18	260.48	42.13	105.78	100.01
3561	4.69	14.53	8.72	50.63	24.00	187.38	38.77	143.90	64.97	183.88	31.49	252.84	48.87	116.84	104.36
3562	5.70	14.28	8.72	47.63	27.70	189.02	38.79	137.56	64.40	187.21	30.44	242.00	55.72	129.63	109.90
3563	6.68	13.97	8.72	44.90	31.55	190.31	38.66	130.81	64.10	190.09	29.13	228.34	62.64	143.69	116.58
3564	7.63	13.62	8.72	42.45	35.50	191.27	38.41	123.76	63.90	192.41	27.73	212.67	69.55	158.56	124.34
3565	8.56	13.23	8.72	40.28	39.53	191.99	38.06	116.48	63.70	193.95	26.56	196.59	76.32	173.80	132.98
3566	9.47	12.79	8.72	38.34	43.64	192.58	37.61	109.12	63.40	194.20	26.17	183.11	82.72	188.89	142.17
3567	0.54	16.43	8.72	68.01	12.82	189.69	40.19	164.26	55.85	150.79	23.86	294.38	19.32	85.42	82.78
3568	1.62	16.36	8.72	64.18	13.47	192.18	41.08	159.66	54.27	154.16	24.36	297.07	22.21	86.46	85.08
3569	2.69	16.23	8.72	60.20	15.65	194.50	41.74	154.46	53.90	157.04	24.64	295.99	26.10	90.58	88.51
3570	3.74	16.04	8.72	56.18	18.82	196.54	42.13	148.71	54.51	159.43	24.68	290.97	30.72	97.56	93.04
3571	4.78	15.79	8.72	52.18	22.53	198.23	42.26	142.48	55.81	161.33	24.47	281.98	35.88	106.94	98.62
3572	5.80	15.47	8.72	48.28	26.52	199.48	42.12	135.81	57.48	162.75	24.02	269.14	41.42	118.14	105.22
3573	6.80	15.10	8.72	44.56	30.65	200.28	41.72	128.80	59.27	163.70	23.44	252.82	47.24	130.57	112.78
3574	7.78	14.67	8.72	41.07	34.84	200.65	41.08	121.53	60.96	164.14	22.88	233.84	53.28	143.68	121.15
3575	8.72	14.19	8.72	37.89	39.08	200.64	40.22	114.09	62.38	164.03	22.62	213.77	59.45	156.98	130.13
3576	9.63	13.65	8.72	35.06	43.35	200.38	39.21	106.60	63.40	163.45	23.17	195.63	65.61	169.99	139.32
3577	13.81	9.42	8.72	27.82	70.64	195.73	32.96	72.47	56.03	155.43	71.71	327.41	102.84	224.91	171.56
3578	13.27	10.25	8.72	26.77	65.63	197.19	33.31	76.30	59.40	148.31	55.88	280.57	94.41	215.77	169.81
3579	12.67	11.05	8.72	28.20	60.95	198.39	34.50	80.92	61.92	154.41	44.36	237.97	89.01	209.88	167.29
3580	12.98	9.37	8.72	35.82	63.98	191.93	34.09	82.99	55.48	207.83	48.66	300.31	117.23	284.01	174.77
3581	12.60	10.08	8.72	35.26	61.47	192.81	34.66	84.67	57.93	202.37	44.60	259.74	111.22	262.25	174.34
3582	12.18	10.78	8.72	34.16	58.41	193.72	35.11	86.90	60.05	192.70	39.20	224.51	103.58	240.35	170.36
3583	12.15	9.31	8.72	46.06	58.60	185.55	34.60	91.68	57.43	269.88	37.43	256.84	125.74	318.22	170.88
3584	11.93	9.92	8.72	43.04	57.34	187.04	35.14	91.71	58.62	249.43	36.50	230.91	121.21	288.92	171.66
3585	11.70	10.52	8.72	40.20	55.84	188.71	35.54	92.49	59.86	229.36	35.17	209.44	114.67	263.07	169.27
3586	10.47	13.07	8.72	32.72	47.57	199.94	38.09	99.45	63.98	161.70	25.27	184.53	71.40	182.21	148.36
3587	10.27	12.33	8.72	36.77	47.50	193.02	37.09	102.46	63.01	193.17	27.29	177.04	88.32	202.57	151.03
3588	10.06	11.61	8.72	41.81	47.19	186.13	36.22	105.31	63.41	228.07	29.22	170.28	102.59	223.90	152.13
3589	11.26	12.45	8.72	30.80	51.87	199.37	36.95	92.77	63.97	159.33	29.26	185.91	77.13	193.05	156.35
3590	10.97	11.87	8.72	35.53	51.16	193.36	36.54	96.60	62.39	192.27	29.97	181.06	93.37	214.68	158.65
3591	10.67	11.30	8.72	40.82	50.25	187.42	36.08	100.21	62.22	226.80	30.36	176.01	106.30	235.56	159.02
3592	12.00	11.78	8.72	29.19	56.36	198.88	35.78	86.51	63.43	156.10	35.68	203.74	82.72	202.49	162.72
3593	11.64	11.38	8.72	34.31	55.02	193.88	35.89	91.05	61.54	189.73	34.36	197.38	98.11	225.62	165.19
3594	11.27	10.98	8.72	39.58	53.35	188.87	35.77	92.28	61.01	222.83	32.32	190.28	109.45	245.79	164.90
3595	9.95	9.39	7.03	83.85	49.51	193.00	40.77	123.87	90.73	485.62	40.70	167.55	168.23	319.27	159.09
3596	10.83	9.35	7.03	86.32	54.55	199.85	43.57	117.05	85.48	504.88	38.48	186.34	184.11	357.79	171.63
3597	11.71	9.32	7.03	87.06	60.59	208.32	46.42	111.20	79.86	514.17	42.70	231.11	199.63	399.28	186.86
3598	10.10	10.17	7.03	73.89	51.12	202.18	42.99	121.83	87.46	427.21	36.60	177.07	170.85	296.82	165.52
3599	10.87	10.06	7.03	75.32	55.71	207.27	45.13	115.47	83.35	439.91	38.30	191.03	184.19	326.20	177.41
3															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
3627	3.63	12.33	7.03	58.70	26.91	191.67	34.92	168.78	108.10	253.83	44.84	251.00	72.06	118.84	126.64
3628	4.64	12.20	7.03	58.12	29.42	194.43	35.85	163.17	104.48	268.07	43.78	244.83	82.84	134.73	127.73
3629	5.63	12.05	7.03	58.01	32.42	197.23	36.84	156.87	101.04	283.13	42.10	235.97	94.38	152.70	130.23
3630	6.61	11.87	7.03	58.37	35.82	200.01	37.95	149.94	97.72	299.02	39.83	224.68	106.77	172.70	134.34
3631	7.58	11.67	7.03	59.18	39.57	202.78	39.22	142.50	94.44	315.66	37.20	211.60	120.09	194.80	140.28
3632	8.53	11.44	7.03	60.40	43.70	205.59	40.69	134.68	91.13	332.81	34.79	198.26	134.43	219.14	148.28
3633	9.46	11.19	7.03	61.95	48.27	208.58	42.38	126.67	87.70	349.99	33.95	188.04	150.00	246.03	158.55
3634	0.54	13.97	7.03	65.33	21.92	202.04	36.00	180.69	106.90	195.31	39.82	278.74	35.35	80.88	119.30
3635	1.62	13.91	7.03	62.85	22.13	204.13	36.94	177.11	103.25	204.70	40.02	280.86	43.84	87.33	118.54
3636	2.69	13.81	7.03	60.47	23.42	206.40	37.78	172.71	100.04	214.38	39.73	279.99	52.83	96.89	118.78
3637	3.74	13.68	7.03	58.31	25.61	208.69	38.52	167.53	97.22	224.42	38.92	275.99	62.36	109.15	120.15
3638	4.77	13.50	7.03	56.42	28.50	210.91	39.20	161.63	94.72	234.87	37.56	268.77	72.49	123.70	122.79
3639	5.79	13.29	7.03	54.88	31.90	212.97	39.85	155.07	92.48	245.77	35.71	258.39	83.30	140.22	126.84
3640	6.79	13.04	7.03	53.74	35.70	214.85	40.51	147.93	90.39	257.15	33.55	245.12	94.87	158.51	132.45
3641	7.76	12.76	7.03	53.02	39.85	216.55	41.25	140.32	88.35	268.96	31.55	229.66	107.28	178.47	139.75
3642	8.72	12.43	7.03	52.75	44.33	218.17	42.11	132.35	86.26	280.99	30.67	213.64	120.58	200.12	148.82
3643	9.65	12.08	7.03	52.89	49.26	219.84	43.14	124.20	84.00	292.81	32.66	200.54	134.84	223.57	159.74
3644	0.55	15.39	7.03	68.60	19.36	220.02	39.89	180.43	90.29	176.77	33.67	308.67	25.25	77.27	107.26
3645	1.66	15.32	7.03	65.56	19.66	222.13	40.78	176.42	87.56	183.68	33.73	311.23	32.56	81.14	107.80
3646	2.75	15.21	7.03	62.43	21.24	224.18	41.52	171.63	85.56	190.59	33.38	310.24	40.41	88.65	109.52
3647	3.82	15.04	7.03	59.32	23.83	226.06	42.08	166.10	84.19	197.56	32.58	305.54	48.80	99.28	112.47
3648	4.88	14.82	7.03	56.30	27.15	227.67	42.50	159.90	83.31	204.60	31.34	297.01	57.76	112.43	116.72
3649	5.92	14.54	7.03	53.47	30.97	228.94	42.78	153.09	82.77	211.77	29.77	284.71	67.34	127.55	122.33
3650	6.94	14.22	7.03	50.90	35.14	229.86	42.96	145.75	82.42	219.06	28.14	268.94	77.60	144.24	129.35
3651	7.93	13.85	7.03	48.68	39.61	230.47	43.08	137.98	82.09	226.51	27.04	250.44	88.60	162.23	137.78
3652	8.89	13.44	7.03	46.89	44.37	230.85	43.20	129.91	81.64	234.07	27.59	230.94	100.35	181.39	147.59
3653	9.83	12.98	7.03	45.59	49.46	231.15	43.37	121.70	80.93	241.40	31.30	214.01	112.78	201.69	158.65
3654	0.56	16.81	7.03	72.47	16.45	237.71	43.79	179.99	70.66	160.48	26.35	343.46	17.85	74.67	95.37
3655	1.68	16.74	7.03	69.03	16.90	239.77	44.64	175.49	69.20	165.34	26.48	346.49	22.09	75.59	97.37
3656	2.79	16.61	7.03	65.35	18.87	241.56	45.29	170.28	68.91	170.01	26.36	345.36	27.51	80.70	100.62
3657	3.89	16.40	7.03	61.53	21.94	242.99	45.72	164.39	69.59	174.49	25.95	339.82	33.85	89.55	105.13
3658	4.97	16.14	7.03	57.64	25.71	243.97	45.91	157.89	70.94	178.77	25.24	329.74	40.96	101.32	110.87
3659	6.03	15.81	7.03	53.76	29.92	244.47	45.86	150.84	72.68	182.88	24.30	315.16	48.79	115.22	117.83
3660	7.07	15.42	7.03	50.01	34.40	244.49	45.57	143.32	74.54	186.81	23.39	296.38	57.33	130.61	125.97
3661	8.08	14.96	7.03	46.49	39.09	244.05	45.09	135.46	76.28	190.59	23.05	274.21	66.60	147.06	135.22
3662	9.05	14.45	7.03	43.33	43.99	243.27	44.45	127.36	77.73	194.28	24.25	250.41	76.66	164.25	145.42
3663	9.99	13.89	7.03	40.66	49.13	242.32	43.74	119.19	78.71	198.25	28.26	228.69	87.45	182.00	156.31
3664	14.30	9.44	7.03	38.33	91.46	246.24	44.72	86.95	65.08	226.44	147.83	508.52	177.45	322.08	214.84
3665	13.74	10.32	7.03	44.80	83.80	243.26	45.94	89.27	71.81	263.84	123.20	406.59	174.23	302.52	206.80
3666	13.14	11.15	7.03	38.54	74.85	240.71	43.37	92.04	75.83	224.26	90.49	313.49	144.61	263.95	198.07
3667	13.44	9.38	7.03	69.01	79.85	235.29	49.71	100.66	68.23	415.30	101.03	422.69	211.15	436.80	220.62
3668	13.05	10.14	7.03	59.58	74.80	232.36	48.38	97.38	71.62	355.36	86.47	336.93	196.32	356.15	215.28
3669	12.62	10.87	7.03	50.50	70.38	232.54	46.40	97.94	74.75	297.92	76.30	279.17	174.08	298.83	203.66
3670	12.58	9.32	7.03	82.73	68.70	219.80	48.88	106.09	73.81	494.15	60.54	308.61	210.81	433.12	205.13
3671	12.36	9.97	7.03	71.05	67.52	221.91	48.74	103.91	74.71	422.19	62.06	274.69	203.61	371.95	205.84
3672	12.12	10.60	7.03	60.44	65.86	224.45	47.58	103.65	76.06	356.56	61.63	247.53	188.12	321.41	199.75
3673	10.87	13.27	7.03	38.66	54.54	241.31	43.08	111.38	79.16	201.66	36.67	216.09	98.70	200.25	167.50
3674	10.65	12.50	7.03	44.94	54.54	231.36	43.62	114.30	80.04	248.20	39.14	206.18	125.29	221.90	169.95
3675	10.43	11.74	7.03	53.30	53.88	221.40	44.12	117.19	81.91	302.68	38.26	196.33	147.60	245.33	170.64
3676	11.68	12.62	7.03	37.39	60.35	240.42	42.64	104.13	78.90	205.49	48.49	221.24	111.07	219.04	178.55
3677	11.37	12.01	7.03	45.07	59.55	231.61	44.10	107.85	78.80	256.83	49.14	212.11	138.38	242.27	180.98
3678	11.07	11.42	7.03	54.15	58.06	222.91	45.06	111.54	79.98	313.10	45.70	202.58	159.25	265.39	180.78
3679	12.45	11.92	7.03	36.88	67.03	240.16	42.55	97.52	77.94	210.12	66.03	252.60	124.96	239.68	188.76
3680	12.06	11.50	7.03	45.75	65.17	232.39	44.94	101.92	77.11	266.19	62.82	236.94	153.81	264.95	192.06
3681	11.69	11.08	7.03	55.25	62.30	224.81	46.14	106.27	77.85	323.38	53.30	221.81	172.27	287.23	191.05
3682	10.28	9.41	5.34	112.70	54.05	219.55	49.81	135.45	114.59	644.36	43.00	181.25	218.41	296.65	166.30
3683	11.20	9.37	5.34	125.30	60.31	226.25	55.87	126.49	109.26	717.94	44.59	187.81	251.97	343.22	178.84
3684	12.11	9.33	5.34	140.89	68.17	234.17	63.77	118.87	103.09	807.07	55.27	220.35	294.34	403.87	197.09
3685	10.45	10.23	5.34	97.74	57.31	231.61	53.51	133.62	111.06	560.62	42.82	193.87	228.18	281.11	173.20
3686	11.25	10.11	5.34	106.36	63.33	236.69	58.86	125.66	106.75	611.69	51.15	200.06	259.08	317.31	185.97
3687	12.04	9.99	5.34	116.56	71.06	242.59	65.84	118.50	101.80	669.49	69.18	226.33	298.26	362.33	203.14
3688	10.61	11.05	5.34	81.02	60.46	244.44	54.80	131.98	107.71	466.48	49.64	207.49	221.80	261.74	178.17
3689	11.28	10.85	5.34	86.46	65.78	247.46	58.96	125.10	104.67	500.36	60.61	211.67	248.43	289.04	189.52
3690	11.95	10.64	5.34	93.40	73.15	251.21	63.88	118.47	101.06	541.09	82.63	231.08	277.03	321.44	204.18
3691	0.50	9.74	5.34	62.55	29.55	175.24	25.37	201.82	160.49	264.09	50.89	243.40	54.71	84.07	162.81
3692	1.50	9.73	5.34	63.63	29.52	176.93	26.50	199.29	155.72	284.82	52.40	244.90	63.84	94.43	158.87
3693	2.49	9.71	5.34	65.32	30.09	179.60	27.79	195.73	151.01	307.93	53.63	244.60	73.92	106.62	155.27
3694	3.48	9.69	5.34	67.69	31.23	183.09	29.24	181.16	146.38	333.77	54.46	242.36	85.07	120.63	152.15
3695	4.47	9.66	5.34	70.81	32.92	187.24	30.90	185.59	141.86	362.77	54.75	238.04	97.49	136.55	149.69
3696	5.45	9.63	5.34	74.78	35.12	191.90	32.81	179.07	137.42	395.43	54.39	231.53	111.40	154.62	148.12
3697	6.43	9.59	5.34	79.70	37.79	196.91	35.05	171.65	133.04	432.43	53.2				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
3725	4.95	13.72	5.34	60.68	33.67	247.61	42.92	179.08	115.98	250.85	38.93	307.59	82.55	113.28	136.30
3726	6.01	13.50	5.34	59.51	36.98	249.77	43.90	172.04	114.08	266.60	36.97	296.39	96.24	129.99	139.57
3727	7.04	13.24	5.34	58.87	40.92	251.77	45.02	164.28	112.30	283.99	35.13	281.84	111.61	148.58	144.34
3728	8.05	12.93	5.34	58.94	45.46	253.57	46.39	155.89	110.52	303.32	34.48	264.51	129.05	169.08	150.84
3729	9.04	12.60	5.34	59.89	50.70	255.19	48.18	147.00	108.61	324.96	37.02	245.86	149.14	191.78	159.29
3730	10.00	12.22	5.34	61.91	56.86	256.74	50.63	137.77	106.44	349.30	45.51	229.21	172.71	217.30	170.07
3731	0.58	15.70	5.34	72.13	25.32	264.96	43.53	197.77	109.19	181.77	36.77	353.71	27.78	66.74	122.48
3732	1.72	15.63	5.34	69.33	25.44	266.65	44.43	193.88	106.80	189.95	36.52	356.41	36.03	70.01	122.65
3733	2.86	15.51	5.34	66.39	26.69	268.32	45.20	189.07	105.13	198.58	35.86	355.31	45.00	77.71	123.94
3734	3.97	15.33	5.34	63.42	28.97	269.84	45.84	183.39	104.05	207.74	34.75	350.16	54.79	89.06	126.40
3735	5.07	15.10	5.34	60.50	32.10	271.10	46.36	176.91	103.44	217.49	33.27	340.83	65.54	103.18	130.14
3736	6.15	14.81	5.34	57.75	35.92	272.04	46.81	169.68	103.14	227.93	31.66	327.26	77.42	119.41	135.22
3737	7.20	14.48	5.34	55.30	40.30	272.60	47.22	161.80	103.01	239.19	30.52	309.69	90.65	137.35	141.75
3738	8.23	14.09	5.34	53.29	45.23	272.80	47.70	153.37	102.88	251.46	31.08	288.82	105.52	156.81	149.81
3739	9.22	13.65	5.34	51.94	50.76	272.69	48.37	144.52	102.59	265.04	35.24	266.34	122.34	177.85	159.50
3740	10.19	13.17	5.34	51.45	57.04	272.39	49.41	135.42	102.00	280.04	44.92	246.04	141.51	200.81	170.93
3741	0.58	17.20	5.34	76.57	21.27	291.20	47.71	196.70	87.25	166.38	29.82	393.93	17.39	63.63	109.18
3742	1.75	17.12	5.34	73.29	21.60	292.69	48.52	192.34	85.98	172.16	29.67	397.12	22.91	63.40	110.82
3743	2.90	16.98	5.34	69.73	23.35	293.81	49.14	187.14	85.87	178.04	29.24	395.78	29.58	68.72	113.75
3744	4.04	16.77	5.34	65.95	26.24	294.48	49.54	181.15	86.71	184.03	28.52	389.60	37.24	78.81	117.99
3745	5.16	16.49	5.34	62.04	29.98	294.62	49.73	174.41	88.25	190.14	27.55	378.40	45.87	92.38	123.53
3746	6.26	16.14	5.34	58.11	34.30	294.20	49.69	167.01	90.20	196.39	26.51	362.15	55.51	108.32	130.40
3747	7.34	15.73	5.34	54.26	39.07	293.21	49.46	159.05	92.31	202.81	25.92	341.11	66.25	125.91	138.59
3748	8.38	15.25	5.34	50.64	44.22	291.69	49.10	150.62	94.34	209.49	26.80	316.08	78.27	144.74	148.07
3749	9.39	14.72	5.34	47.44	49.81	289.75	48.68	141.88	96.10	216.67	30.72	288.90	91.80	164.65	158.81
3750	10.36	14.12	5.34	44.89	55.97	287.57	48.37	132.98	97.41	225.13	39.21	263.71	107.05	185.65	170.73
3751	14.78	9.47	5.34	170.61	160.65	311.18	120.63	125.63	77.59	969.21	435.37	835.50	568.38	682.73	308.23
3752	14.22	10.38	5.34	69.50	120.21	284.64	73.38	99.56	89.59	402.55	256.88	515.35	306.98	380.64	258.67
3753	13.60	11.25	5.34	51.05	96.75	281.92	56.88	102.76	94.91	303.61	162.09	379.86	212.66	302.93	232.11
3754	13.89	9.40	5.34	173.24	100.50	263.91	91.09	116.00	86.05	992.45	155.53	449.67	432.23	581.59	267.41
3755	13.50	10.19	5.34	110.38	98.91	266.93	81.34	106.93	90.64	632.84	173.10	379.72	370.42	416.73	252.67
3756	13.07	10.96	5.34	71.73	90.05	269.68	65.87	107.74	95.13	420.12	143.38	316.89	275.86	327.72	228.85
3757	13.01	9.34	5.34	158.06	80.32	245.63	74.84	114.28	95.43	905.24	85.70	297.50	350.83	481.26	225.87
3758	12.78	10.01	5.34	121.41	81.83	252.26	73.98	112.28	96.08	697.09	104.02	283.08	339.16	401.08	226.56
3759	12.54	10.67	5.34	90.13	81.28	258.37	68.04	113.04	97.69	522.42	110.86	267.06	297.25	338.53	217.51
3760	11.26	13.48	5.34	43.29	62.94	285.27	48.39	124.38	98.18	234.16	54.43	248.80	124.17	208.02	183.41
3761	11.04	12.67	5.34	52.07	63.82	271.85	50.95	127.09	101.16	296.16	60.94	235.46	162.59	224.60	183.04
3762	10.80	11.87	5.34	64.72	63.06	258.02	53.42	129.70	104.31	373.34	59.30	221.49	196.33	242.20	181.38
3763	12.10	12.79	5.34	42.90	71.02	283.09	49.16	116.31	98.19	245.59	75.50	255.21	144.49	232.62	197.27
3764	11.78	12.16	5.34	54.22	71.04	271.24	53.40	119.71	99.92	317.00	80.79	240.57	187.25	249.95	195.96
3765	11.46	11.53	5.34	68.73	69.05	259.12	56.67	123.07	102.22	401.03	75.51	225.18	220.88	266.46	192.84
3766	12.89	12.06	5.34	43.85	81.38	281.66	51.33	108.84	97.38	259.77	107.20	295.23	170.96	262.75	212.38
3767	12.49	11.61	5.34	58.21	80.07	271.17	57.58	112.81	98.02	344.23	109.03	269.06	220.42	280.77	210.66
3768	12.10	11.18	5.34	74.31	75.49	260.51	61.38	116.78	99.79	434.53	92.50	243.83	253.53	295.65	205.87
3769	-7.92	9.28	17.16	223.14	61.35	14.50	47.33	48.77	25.27	250.87	54.31	14.48	48.10	50.40	24.48
3770	-8.63	9.25	17.16	179.44	46.78	13.93	50.07	40.71	24.73	203.32	36.24	13.88	50.63	42.83	23.98
3771	-9.33	9.23	17.16	143.69	36.91	13.82	50.64	35.83	25.27	162.91	21.37	13.81	50.89	38.36	24.71
3772	-8.01	9.84	17.16	199.66	49.47	14.47	38.71	46.43	22.01	223.33	41.13	14.37	39.88	47.59	21.19
3773	-8.63	9.76	17.16	167.00	39.84	14.13	43.87	40.86	23.13	187.66	28.21	14.04	44.78	42.53	22.41
3774	-9.24	9.67	17.16	138.82	33.16	14.07	46.98	37.04	24.59	155.95	16.89	14.03	47.52	39.16	24.07
3775	-8.10	10.40	17.16	175.81	38.52	14.53	34.06	44.60	20.38	195.89	28.76	14.42	36.09	45.42	19.56
3776	-8.62	10.26	17.16	153.13	33.13	14.36	39.57	41.04	22.23	170.95	20.29	14.26	40.99	42.36	21.57
3777	-9.14	10.12	17.16	131.98	29.26	14.30	43.87	38.36	24.20	147.16	12.36	14.24	44.76	40.16	23.74
3778	-0.38	9.50	17.16	16.70	6.66	24.56	52.24	349.72	30.28	44.23	32.82	52.86	53.17	347.66	66.62
3779	-1.15	9.49	17.16	78.41	28.06	36.61	7.43	377.34	73.27	86.96	27.89	69.09	22.19	376.08	103.77
3780	-1.91	9.48	17.16	58.50	23.21	34.18	30.05	421.31	114.74	71.73	32.73	73.99	30.53	420.66	142.94
3781	-2.67	9.47	17.16	102.41	44.69	53.30	31.49	454.81	169.82	114.31	51.75	81.86	31.49	456.21	190.22
3782	-3.43	9.45	17.16	161.03	80.80	88.22	21.58	488.76	243.78	174.05	86.64	109.61	21.48	492.92	260.06
3783	-4.19	9.43	17.16	766.42	102.95	40.25	143.91	327.62	213.19	797.08	107.04	45.17	153.11	329.22	223.13
3784	-4.94	9.40	17.16	567.55	229.07	25.36	64.71	191.55	118.61	599.41	235.38	25.93	69.05	192.53	122.57
3785	-5.70	9.38	17.16	442.96	142.55	24.88	38.26	118.63	52.43	475.86	142.90	24.90	39.95	119.40	52.84
3786	-6.45	9.34	17.16	350.55	103.39	19.86	33.75	84.56	31.10	383.06	101.12	19.95	34.76	85.55	30.46
3787	-7.20	9.31	17.16	278.94	80.24	16.16	41.64	62.45	26.90	309.63	75.79	16.20	42.53	63.69	26.10
3788	-0.40	10.50	17.16	34.09	10.22	40.47	91.07	525.99	27.19	45.58	34.01	106.16	90.90	523.24	108.23
3789	-1.19	10.48	17.16	61.22	25.16	40.25	89.81	536.78	74.25	70.79	41.98	101.59	89.78	534.47	125.81
3790	-1.98	10.45	17.16	105.47	54.12	51.35	87.44	551.99	137.55	114.66	65.77	104.73	87.33	550.85	171.53
3791	-2.76	10.41	17.16	497.20	124.36	38.63	130.09	466.19	185.40	507.16	145.60	77.83	130.25	465.29	209.71
3792	-3.54	10.35	17.16	386.05	381.95	67.53	101.30	368.36	206.54	400.08	409.51	89.85	302.90	368.74	226.81
3793	-4.31	10.29	17.16	668.31	272.60	30.00	309.67	217.44	109.31	693.89	286.61	37.58	110.49	216.79	120.37
3794	-5.08	10.22	17.16	486.67	155.15	26.47	43.86	140.35	31.76	513.55	158.38	26.91	44.85	139.81	34.48
3795	-5.83	10.13	17.16	366.79	111.14	21.31	6.39	92.98	24.93	394.12	110.43	21.33			



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
3823	-4.60	12.92	17.16	170.04	30.15	16.20	37.83	53.85	10.10	194.02	28.35	18.97	44.14	51.50	14.50
3824	-5.40	12.69	17.16	167.99	28.42	16.10	18.18	52.11	10.98	189.92	24.57	17.69	29.08	50.00	12.12
3825	-6.18	12.44	17.16	159.17	24.75	15.95	10.14	50.22	12.84	179.06	19.55	16.78	24.00	48.62	12.35
3826	-6.95	12.15	17.16	148.85	21.94	15.82	17.88	48.38	15.67	166.60	15.29	16.17	26.90	47.49	14.74
3827	-7.70	11.82	17.16	135.66	20.25	15.62	28.02	46.25	19.19	151.12	11.40	15.71	33.48	46.14	18.38
3828	-0.43	14.50	17.16	60.37	5.84	15.90	49.47	55.07	6.21	125.17	15.58	25.18	48.92	52.34	14.58
3829	-1.30	14.45	17.16	78.74	5.50	16.01	42.97	54.91	6.27	133.50	13.18	24.39	43.58	52.14	13.13
3830	-2.15	14.36	17.16	94.03	8.74	16.23	33.20	53.84	7.33	140.41	11.82	23.34	36.44	51.05	11.89
3831	-3.00	14.22	17.16	104.12	10.31	16.54	22.94	52.83	8.47	143.54	10.04	22.19	30.72	50.05	10.79
3832	-3.84	14.03	17.16	111.71	10.59	16.98	13.97	52.33	9.70	144.75	8.48	21.09	27.66	49.63	10.19
3833	-4.67	13.80	17.16	115.62	10.58	17.33	9.34	52.34	11.49	143.18	8.43	20.08	27.16	49.83	10.82
3834	-5.48	13.53	17.16	117.11	10.53	17.59	13.43	52.19	14.10	139.94	9.19	19.24	28.96	50.05	12.99
3835	-6.27	13.22	17.16	115.06	10.86	17.60	21.29	51.57	17.25	133.99	10.05	18.48	32.74	49.98	16.12
3836	-7.05	12.86	17.16	110.21	12.37	17.40	28.80	50.52	20.66	125.76	11.36	17.80	37.04	49.63	19.75
3837	-7.80	12.46	17.16	103.55	15.31	17.08	35.29	49.03	24.21	116.09	13.41	17.21	41.10	48.92	23.66
3838	-11.39	9.32	17.16	58.36	39.48	14.66	46.68	32.93	36.22	60.86	27.55	15.01	44.54	35.54	38.23
3839	-10.90	9.94	17.16	64.47	36.43	15.03	47.29	35.92	35.40	67.67	26.73	15.25	45.92	38.40	37.16
3840	-10.38	10.53	17.16	70.88	32.96	15.42	47.51	39.07	34.39	74.99	25.43	15.53	47.13	41.31	35.80
3841	-10.71	9.27	17.16	84.29	33.05	14.23	48.74	32.23	30.42	92.26	14.53	14.51	47.77	34.97	31.06
3842	-10.36	9.81	17.16	87.84	30.52	14.54	47.78	34.74	29.98	95.75	14.09	14.73	47.29	37.18	30.57
3843	-9.99	10.33	17.16	90.97	27.89	14.86	46.47	37.34	29.50	98.97	14.00	14.96	46.63	39.45	30.01
3844	-10.03	9.23	17.16	111.85	32.08	13.91	50.14	33.26	27.07	125.51	10.84	13.99	49.90	36.04	26.96
3845	-9.82	9.69	17.16	111.96	29.63	14.17	48.02	35.13	26.69	124.63	8.87	14.21	48.12	37.53	26.58
3846	-9.60	10.14	17.16	112.09	27.18	14.48	45.85	36.96	26.34	124.04	7.88	14.50	46.44	38.96	26.23
3847	-8.51	12.03	17.16	95.99	19.19	16.66	40.51	47.05	27.47	105.90	16.34	16.68	44.39	47.68	27.33
3848	-8.36	11.49	17.16	122.68	20.10	15.43	35.72	43.97	22.51	135.90	9.08	15.42	39.19	44.56	21.94
3849	-8.21	10.95	17.16	149.33	27.82	14.78	33.33	43.58	20.45	165.92	16.38	14.70	36.17	44.24	19.67
3850	-9.16	11.57	17.16	87.81	23.84	16.25	44.46	44.70	30.28	95.50	19.65	16.24	46.81	45.99	30.65
3851	-8.95	11.14	17.16	110.72	21.74	15.28	40.98	41.84	25.34	121.95	9.38	15.26	43.16	43.03	25.14
3852	-8.73	10.72	17.16	133.72	25.84	14.69	38.92	41.13	22.84	148.41	11.20	14.61	40.82	42.31	22.30
3853	-9.80	11.08	17.16	79.01	28.71	15.85	46.82	42.05	32.68	84.70	23.23	15.89	47.80	43.87	33.59
3854	-9.51	10.78	17.16	98.82	24.78	15.15	44.64	39.72	27.96	108.03	12.52	15.18	45.81	41.42	28.17
3855	-9.23	10.48	17.16	118.68	25.64	14.63	42.94	38.97	25.13	131.32	7.93	14.60	44.08	40.61	24.91
3856	-8.26	9.30	15.47	150.95	51.06	41.83	44.05	97.21	70.76	175.59	43.24	41.10	43.72	97.15	69.97
3857	-8.99	9.27	15.47	130.22	42.40	41.22	44.86	88.56	70.07	151.91	30.70	40.55	44.21	90.32	69.25
3858	-9.73	9.24	15.47	110.58	36.87	41.34	44.77	82.51	71.65	128.58	20.20	40.98	43.79	85.82	71.08
3859	-8.36	9.90	15.47	140.64	43.70	42.04	37.13	96.80	65.01	161.75	34.35	41.21	36.85	96.15	64.27
3860	-9.00	9.81	15.47	124.11	37.92	41.76	39.82	90.36	66.92	142.83	24.98	41.00	39.20	91.34	66.18
3861	-9.64	9.72	15.47	108.37	34.32	41.91	41.56	85.50	69.86	124.29	17.06	41.45	40.64	87.90	69.37
3862	-8.45	10.50	15.47	128.98	36.45	42.57	32.63	96.92	61.39	146.92	25.32	41.86	32.60	95.82	60.69
3863	-9.00	10.35	15.47	116.98	33.53	42.48	35.95	92.41	64.74	133.05	19.28	41.78	35.50	92.72	64.09
3864	-9.54	10.20	15.47	104.98	31.69	42.60	38.75	88.66	68.41	118.97	14.03	42.10	37.95	90.30	67.96
3865	-0.40	9.53	15.47	52.40	14.68	48.57	70.71	257.58	49.73	109.83	43.99	84.95	71.39	252.22	79.50
3866	-1.20	9.53	15.47	95.84	17.49	55.20	59.09	244.04	79.32	140.32	40.09	89.56	59.52	237.47	99.17
3867	-1.99	9.52	15.47	110.13	37.23	55.24	49.21	227.27	102.89	155.49	49.61	88.94	49.51	220.12	117.93
3868	-2.78	9.50	15.47	161.87	59.27	52.15	42.13	211.78	118.31	200.27	68.42	83.58	41.59	204.40	130.26
3869	-3.58	9.48	15.47	223.26	85.43	44.61	25.17	162.45	116.04	258.56	91.99	65.43	23.99	154.40	124.76
3870	-4.37	9.46	15.47	138.60	109.62	47.98	31.66	156.64	119.67	174.83	114.35	57.61	30.13	148.70	126.11
3871	-5.15	9.43	15.47	195.76	84.13	57.25	16.70	155.88	113.34	226.83	85.63	58.89	17.11	149.28	117.42
3872	-5.94	9.40	15.47	202.28	86.71	53.53	32.46	140.95	94.10	231.91	86.65	53.45	33.38	135.54	95.86
3873	-6.72	9.37	15.47	190.89	75.73	48.17	38.85	124.45	81.20	219.34	73.43	47.69	39.35	120.65	81.49
3874	-7.50	9.33	15.47	172.11	62.49	43.88	42.07	109.18	74.07	198.97	57.67	43.23	42.10	107.21	73.58
3875	-0.41	10.60	15.47	59.37	11.53	50.24	117.20	229.05	43.41	117.62	39.53	103.87	116.89	223.25	79.10
3876	-1.24	10.58	15.47	100.11	32.75	54.14	112.01	219.52	64.90	145.40	50.35	103.82	111.65	212.74	91.48
3877	-2.06	10.55	15.47	153.18	60.15	49.60	102.49	190.54	81.88	190.56	71.98	94.16	101.83	183.33	102.69
3878	-2.88	10.51	15.47	129.30	80.50	48.94	75.12	183.88	97.12	170.08	87.02	84.87	74.06	176.32	113.49
3879	-3.69	10.45	15.47	207.53	46.07	52.69	9.22	164.28	87.50	239.47	47.83	72.43	13.09	156.91	99.53
3880	-4.49	10.38	15.47	160.68	70.91	53.63	12.25	150.51	78.19	191.28	72.48	62.54	12.25	142.96	86.29
3881	-5.29	10.30	15.47	190.83	83.00	55.83	10.66	146.85	76.24	217.95	83.71	58.39	14.68	140.09	80.95
3882	-6.08	10.21	15.47	191.25	73.18	50.14	17.24	131.94	68.68	217.14	71.69	50.63	19.14	126.13	70.60
3883	-6.87	10.11	15.47	177.07	62.46	45.81	25.92	117.83	64.71	201.75	58.75	45.47	26.72	113.49	65.01
3884	-7.65	10.00	15.47	158.80	51.96	43.21	32.66	105.81	64.03	181.91	45.66	42.49	32.80	103.32	63.53
3885	-0.43	11.67	15.47	63.42	7.94	51.59	98.14	197.27	34.21	125.30	28.86	108.87	97.11	190.96	89.58
3886	-1.28	11.64	15.47	104.17	24.34	52.65	85.54	188.20	48.15	151.52	35.81	104.39	84.24	181.35	90.95
3887	-2.12	11.59	15.47	143.95	31.50	50.13	59.81	164.23	52.79	183.15	38.28	92.52	58.58	157.21	86.18
3888	-2.96	11.52	15.47	114.63	56.06	50.31	60.05	160.98	57.74	154.73	61.65	81.56	58.73	153.67	83.80
3889	-3.79	11.43	15.47	164.57	70.65	50.69	52.37	161.54	63.61	193.84	75.51	70.88	52.29	154.30	82.02
3890	-4.61	11.31	15.47	188.33	71.33	49.07	30.63	142.99	59.39	214.52	73.16	59.47	32.11	135.53	70.31
3891	-5.42	11.18	15.47	178.88	65.01	48.23	13.37	130.42	53.51	203.45	64.36	52.52	18.04	123.15	59.03
3892	-6.22	11.03	15.47	169.25	55.64	46.41	12.15	120.75	52.43	192.19	52.57	47.90	16.37	114.46	54.52
3893	-7.01	10.86	15.47	157.35	47.74	44.39	19.27	111.54	54.36	178.79	42.30	44.55	21.10	106.80	54.65
3894	-7.79	10.67	15.47	142.66	41.13	43.12	27.14	103.20	57.79	162.39	33.01	42.62	27.74	100.36	57.27
3895	-0.44	12.74													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
3921	-5.74	13.85	15.47	99.15	15.65	50.35	15.14	113.39	38.40	120.30	10.27	58.50	25.53	105.00	37.56
3922	-6.57	13.51	15.47	98.35	16.68	50.70	18.62	112.64	44.70	115.43	10.36	55.43	26.51	105.61	43.04
3923	-7.38	13.13	15.47	96.12	17.96	50.63	23.24	111.12	51.59	109.93	10.28	52.95	28.43	105.78	49.77
3924	-8.16	12.70	15.47	92.51	19.60	50.22	28.08	108.65	58.80	103.65	10.01	51.05	31.06	105.16	57.24
3925	-11.87	9.34	15.47	59.62	36.29	44.81	43.01	78.07	89.60	63.58	15.20	47.38	40.71	82.71	91.76
3926	-11.37	10.00	15.47	65.05	33.33	45.70	42.44	84.10	86.26	69.40	14.01	47.36	40.45	87.93	87.95
3927	-10.84	10.64	15.47	70.65	30.27	46.77	41.42	90.29	82.53	75.58	12.74	47.64	39.90	93.11	83.63
3928	-11.16	9.29	15.47	74.88	34.54	42.96	43.43	77.63	81.12	83.45	11.18	44.30	41.65	82.46	82.02
3929	-10.80	9.87	15.47	78.31	32.32	43.69	42.06	82.85	78.96	86.50	10.48	44.50	40.47	86.65	79.67
3930	-10.42	10.43	15.47	81.44	30.00	44.57	40.35	88.09	76.53	89.44	9.95	44.94	39.08	90.82	76.99
3931	-10.45	9.25	15.47	91.62	34.36	41.90	44.21	79.01	75.28	105.03	12.47	42.17	42.85	83.42	75.30
3932	-10.24	9.74	15.47	92.55	32.49	42.48	42.12	83.05	73.72	104.74	11.22	42.53	40.88	86.47	73.70
3933	-10.01	10.22	15.47	93.44	30.56	43.22	39.95	87.08	72.10	104.75	10.29	43.12	38.95	89.48	72.02
3934	-8.90	12.24	15.47	88.08	21.58	49.50	32.55	105.22	65.65	97.10	9.98	49.62	33.85	103.56	64.57
3935	-8.74	11.66	15.47	101.24	24.76	45.60	30.88	100.40	61.74	113.05	10.63	45.47	31.77	98.93	60.89
3936	-8.57	11.08	15.47	115.21	29.62	43.61	30.66	97.88	60.22	130.01	16.46	43.15	31.07	96.56	59.47
3937	-9.58	11.75	15.47	82.83	24.12	48.64	36.44	100.95	71.97	90.20	10.36	48.62	36.58	101.00	71.57
3938	-9.35	11.29	15.47	94.32	25.99	45.37	34.97	96.70	67.32	104.56	9.53	45.13	34.95	96.79	66.85
3939	-9.11	10.84	15.47	106.60	29.02	43.54	34.47	94.28	64.69	119.85	13.15	43.03	34.26	94.35	64.09
3940	-10.24	11.22	15.47	76.82	27.04	47.78	39.44	95.98	77.74	82.79	11.46	48.06	38.69	97.52	78.10
3941	-9.94	10.90	15.47	86.97	27.74	45.18	38.19	92.72	72.62	95.74	9.51	45.17	37.53	94.21	72.63
3942	-9.64	10.59	15.47	97.83	29.32	43.58	37.51	90.82	69.12	109.50	10.70	43.25	36.82	92.17	68.85
3943	-8.59	9.32	13.78	103.11	41.69	66.75	37.30	113.42	104.49	132.00	31.61	63.71	35.73	106.40	104.35
3944	-9.36	9.29	13.78	95.10	39.58	67.74	38.67	108.98	105.65	119.97	25.53	64.79	37.00	105.45	103.38
3945	-10.12	9.26	13.78	86.42	38.56	68.92	39.43	105.28	108.36	106.95	20.17	66.77	37.63	104.79	108.21
3946	-8.70	9.96	13.78	100.61	38.78	67.89	33.34	116.19	99.22	125.54	26.98	65.07	31.56	109.25	99.12
3947	-9.37	9.87	13.78	93.80	37.58	68.71	35.47	112.52	102.02	115.52	22.37	65.87	33.64	108.48	101.80
3948	-10.03	9.77	13.78	86.63	37.15	69.68	37.13	109.27	105.63	105.03	18.42	67.44	35.24	107.84	105.48
3949	-8.80	10.59	13.78	97.19	35.77	69.22	30.56	119.15	95.08	118.50	22.24	66.87	28.77	112.26	94.94
3950	-9.37	10.44	13.78	91.95	35.55	69.85	32.92	116.16	98.90	110.81	19.29	67.32	31.02	111.66	98.68
3951	-9.94	10.27	13.78	86.28	35.66	70.57	35.15	113.32	102.94	102.62	16.76	68.35	33.22	111.09	102.74
3952	-0.41	9.57	13.78	53.53	13.42	64.86	38.77	165.59	64.84	152.50	37.90	107.12	40.64	153.51	87.89
3953	-1.24	9.56	13.78	69.71	16.42	65.59	36.26	163.29	79.19	156.38	37.67	104.47	36.80	148.46	96.66
3954	-2.07	9.55	13.78	89.70	24.82	64.88	29.88	156.60	92.08	164.06	40.35	99.02	28.97	139.44	105.37
3955	-2.90	9.54	13.78	99.20	33.26	62.23	20.25	146.70	101.68	166.51	43.64	89.60	17.23	127.61	111.86
3956	-3.72	9.52	13.78	99.00	39.09	61.74	13.25	146.58	109.15	160.12	45.97	81.52	5.65	126.85	116.87
3957	-4.54	9.49	13.78	124.20	41.59	62.05	15.92	138.66	108.86	175.38	45.56	73.84	11.56	118.45	114.22
3958	-5.36	9.46	13.78	115.26	50.16	63.13	19.06	131.11	107.53	162.10	51.95	68.67	15.42	111.22	110.96
3959	-6.18	9.43	13.78	115.55	49.30	64.62	25.38	127.77	108.02	156.99	48.51	65.78	23.10	110.14	110.04
3960	-6.99	9.39	13.78	114.22	47.65	65.38	31.03	123.39	106.26	151.07	44.21	64.10	29.32	108.90	107.20
3961	-7.81	9.35	13.78	109.86	44.71	65.99	34.96	118.38	104.74	142.65	38.19	63.45	33.42	107.61	104.94
3962	-0.43	10.71	13.78	56.42	11.60	68.67	47.27	162.14	57.61	148.89	34.66	116.32	47.20	148.40	88.74
3963	-1.29	10.69	13.78	75.34	15.57	67.78	41.96	158.79	70.03	154.44	33.95	111.57	40.58	142.91	93.94
3964	-2.14	10.66	13.78	85.73	24.06	67.21	33.03	156.27	79.69	155.95	36.30	105.30	30.26	138.68	98.07
3965	-2.99	10.61	13.78	108.11	31.54	65.31	24.07	147.36	83.78	166.61	40.06	95.72	19.64	128.36	97.62
3966	-3.84	10.55	13.78	102.37	46.73	64.68	23.35	142.70	89.78	156.41	52.41	86.70	18.46	122.88	99.73
3967	-4.68	10.48	13.78	119.32	46.87	64.95	13.97	139.42	94.21	164.87	49.66	78.82	6.22	119.78	100.98
3968	-5.51	10.39	13.78	115.12	45.65	65.50	15.39	132.57	93.70	155.99	45.71	72.79	10.20	113.63	97.93
3969	-6.33	10.30	13.78	114.54	45.22	66.29	20.70	129.59	93.98	150.55	42.78	68.75	17.96	112.93	96.33
3970	-7.15	10.19	13.78	112.13	43.22	66.72	25.85	125.41	95.04	144.04	37.99	66.25	23.83	111.72	96.09
3971	-7.96	10.06	13.78	107.11	40.80	67.21	30.24	120.58	96.84	135.38	32.42	65.09	28.43	110.33	97.09
3972	-0.44	11.85	13.78	57.98	11.29	71.08	55.49	150.49	48.45	144.02	34.92	120.73	53.78	134.68	86.38
3973	-1.33	11.82	13.78	74.85	15.55	69.75	50.64	149.22	56.89	148.36	34.40	115.41	48.01	131.82	87.10
3974	-2.21	11.76	13.78	85.39	26.07	68.92	44.77	148.73	65.30	149.43	38.54	108.63	41.51	130.15	88.55
3975	-3.08	11.69	13.78	105.69	31.25	67.80	32.08	143.42	71.17	158.75	38.85	100.01	28.10	123.82	88.23
3976	-3.95	11.59	13.78	105.78	34.16	66.91	21.50	136.97	72.97	153.62	37.83	90.60	16.65	116.74	84.96
3977	-4.80	11.47	13.78	107.52	36.95	67.01	16.37	136.28	75.65	148.97	37.85	82.65	11.70	116.70	83.60
3978	-5.65	11.33	13.78	110.77	38.68	67.32	15.26	133.65	79.34	146.52	36.94	76.36	11.71	115.44	84.13
3979	-6.48	11.17	13.78	110.35	38.68	67.66	18.14	130.41	82.60	141.61	34.27	71.73	15.78	114.41	85.12
3980	-7.30	10.98	13.78	107.42	37.61	68.08	22.61	126.84	86.33	134.87	30.31	68.75	20.74	113.74	87.38
3981	-8.11	10.78	13.78	102.57	36.46	68.62	27.12	122.77	90.79	126.65	26.01	67.20	25.37	112.96	90.99
3982	-0.46	12.99	13.78	58.46	10.17	72.68	48.49	138.97	39.51	138.05	31.04	122.74	45.25	120.88	80.05
3983	-1.37	12.95	13.78	72.65	12.53	71.55	44.20	139.78	45.58	141.12	29.51	117.84	40.38	120.54	78.45
3984	-2.27	12.88	13.78	84.99	17.74	70.23	37.16	138.78	51.00	143.63	29.07	110.75	33.20	118.68	76.43
3985	-3.16	12.77	13.78	91.69	22.98	69.38	30.41	137.85	55.95	142.40	29.54	102.94	26.82	117.34	74.70
3986	-4.04	12.64	13.78	99.06	27.29	68.92	23.99	136.54	60.67	141.99	29.92	94.85	21.23	116.24	73.62
3987	-4.92	12.47	13.78	103.00	30.02	68.78	18.52	134.93	64.81	139.69	29.22	87.01	16.79	115.47	72.97
3988	-5.77	12.27	13.78	104.11	31.28	68.99	16.50	133.45	69.19	135.56	27.43	80.47	15.57	115.62	73.79
3989	-6.62	12.04	13.78	103.52	31.88	69.40	17.93	131.41	74.40	130.57	25.15	75.51	17.15	115.93	76.59
3990	-7.45	11.78	13.78	101.08	32.18	69.90	21.43	128.79	80.25	124.43	22.61	72.06	20.42	116.18	80.97
3991	-8.26	11.49	13.78	99.09	32.44	70.47	25.60	125.60	86.59	117.23	19.90	70.03	24.30	116.16	86.52
3992	-0.47	14.13	13.78	59.24	9.53	74.03	42.27	132.75	31.45	130.70	27.45	127.11	37		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
4019	-10.66	9.79	13.78	79.21	37.11	70.99	38.21	107.72	109.46	93.51	15.10	69.94	36.22	108.36	109.53
4020	-10.43	10.30	13.78	80.97	35.68	71.77	36.31	112.39	106.34	94.39	14.48	70.40	34.37	111.69	106.25
4021	-9.29	12.45	13.78	84.03	29.10	78.25	29.69	131.33	90.20	94.69	13.72	78.17	29.17	125.35	88.34
4022	-9.12	11.83	13.78	88.13	30.71	73.68	28.97	126.36	90.99	102.18	14.67	72.76	27.84	120.05	90.10
4023	-8.94	11.22	13.78	92.70	32.89	70.99	29.14	122.42	92.28	110.31	17.77	69.29	27.59	115.78	91.89
4024	-10.00	11.92	13.78	80.47	31.15	77.90	32.99	127.04	98.20	89.50	13.08	77.05	31.80	123.68	96.88
4025	-9.75	11.44	13.78	84.28	32.16	73.92	32.09	122.81	97.49	96.55	13.81	72.45	30.58	118.95	96.77
4026	-9.50	10.96	13.78	88.55	33.54	71.44	31.86	119.48	97.25	104.23	16.18	69.37	30.12	115.09	96.84
4027	-10.68	11.36	13.78	76.20	33.31	77.46	35.95	121.88	105.81	83.88	12.47	77.18	34.31	120.85	105.15
4028	-10.36	11.02	13.78	79.87	33.75	74.15	34.85	118.73	103.79	90.56	13.04	73.04	33.10	117.11	103.40
4029	-10.04	10.69	13.78	83.98	34.48	71.94	34.30	116.33	102.28	97.83	14.75	70.12	32.42	114.05	102.04
4030	-8.93	9.34	12.09	80.32	39.86	93.00	32.70	123.75	130.20	117.62	28.08	86.19	29.58	106.74	130.42
4031	-9.73	9.31	12.09	77.00	40.64	95.28	34.66	120.97	132.84	108.49	24.97	88.19	31.81	109.29	132.91
4032	-10.52	9.27	12.09	73.18	41.73	97.57	36.29	118.35	136.23	98.86	22.12	91.56	33.67	111.47	136.31
4033	-9.04	10.02	12.09	81.04	38.94	94.88	30.79	127.60	125.33	113.28	25.49	88.58	27.29	111.69	125.56
4034	-9.74	9.92	12.09	78.07	39.84	96.66	32.93	125.13	128.78	105.73	23.19	89.91	29.80	113.59	128.84
4035	-10.43	9.82	12.09	74.78	40.98	98.45	34.84	122.66	132.65	97.99	21.19	92.40	32.04	115.13	132.67
4036	-9.15	10.69	12.09	81.36	37.92	96.81	29.53	131.63	120.71	108.86	22.95	91.25	25.91	116.66	120.84
4037	-9.75	10.53	12.09	78.91	39.00	98.10	31.56	129.37	124.77	103.00	21.49	91.87	28.30	117.93	124.75
4038	-10.33	10.35	12.09	76.07	40.17	99.43	33.65	126.99	128.84	96.79	20.36	93.42	30.74	118.95	128.74
4039	-0.43	9.60	12.09	52.82	15.86	85.27	24.15	145.06	84.21	180.66	42.11	127.72	29.98	119.00	100.83
4040	-1.29	9.60	12.09	61.67	17.06	84.36	21.76	145.23	93.82	177.13	40.43	124.07	24.36	114.31	106.91
4041	-2.15	9.59	12.09	68.86	20.79	83.49	18.70	144.08	102.35	172.93	39.79	118.48	18.01	109.38	112.55
4042	-3.01	9.57	12.09	75.46	25.64	83.19	16.04	142.73	109.49	168.28	40.17	112.06	11.48	105.45	117.28
4043	-3.86	9.55	12.09	82.22	30.35	82.93	14.81	139.23	114.68	164.41	40.68	104.67	5.91	100.32	120.46
4044	-4.72	9.52	12.09	81.72	34.46	83.46	15.87	137.28	119.46	155.58	41.01	97.90	6.24	98.72	123.64
4045	-5.57	9.49	12.09	86.04	36.06	84.67	19.47	135.23	122.71	150.64	39.01	92.33	12.67	98.78	125.59
4046	-6.42	9.46	12.09	86.03	37.86	86.43	23.40	132.25	124.34	143.00	37.35	88.45	18.23	99.19	126.18
4047	-7.27	9.42	12.09	84.99	38.73	88.48	27.10	129.48	126.10	134.92	34.62	86.18	22.96	101.21	127.15
4048	-8.11	9.38	12.09	83.08	39.35	90.71	30.24	126.60	127.98	126.47	31.48	85.47	26.73	103.91	128.49
4049	-0.45	10.81	12.09	54.98	14.49	90.70	29.92	144.79	76.01	171.16	39.18	137.46	31.69	115.89	97.38
4050	-1.34	10.79	12.09	63.50	16.29	89.52	27.38	145.89	84.04	168.00	37.90	133.15	26.08	113.17	101.00
4051	-2.23	10.76	12.09	72.73	20.51	88.16	23.90	144.78	91.36	165.34	37.56	126.67	19.56	109.15	104.50
4052	-3.11	10.71	12.09	76.76	25.43	87.36	20.30	143.90	98.32	159.81	37.72	119.28	12.59	106.58	108.27
4053	-3.99	10.65	12.09	84.13	28.18	86.94	17.03	142.01	103.27	156.66	36.24	111.37	3.47	104.18	110.57
4054	-4.86	10.57	12.09	84.44	31.96	87.19	16.92	139.69	107.01	149.02	36.27	103.93	2.81	102.71	112.14
4055	-5.72	10.48	12.09	87.20	34.65	88.04	18.71	138.23	111.08	143.56	35.45	97.61	9.39	103.82	114.50
4056	-6.58	10.38	12.09	86.98	36.22	89.47	21.66	135.65	114.65	136.39	33.51	92.98	15.01	104.86	116.78
4057	-7.43	10.26	12.09	85.85	37.28	91.15	25.00	133.12	118.08	128.94	31.04	89.90	19.96	107.02	119.26
4058	-8.28	10.13	12.09	83.80	38.15	93.03	28.19	130.30	121.73	121.13	28.27	88.46	24.12	109.43	122.28
4059	-0.46	12.02	12.09	56.94	13.22	95.66	32.62	143.14	66.57	161.00	36.22	146.44	30.54	111.37	92.25
4060	-1.38	11.99	12.09	65.24	14.98	94.14	30.06	144.83	73.45	158.50	34.75	141.60	25.21	110.15	93.99
4061	-2.29	11.94	12.09	73.70	18.45	92.62	26.19	144.68	79.66	156.10	33.58	134.77	18.63	108.01	95.59
4062	-3.20	11.86	12.09	77.82	22.85	91.42	22.90	144.30	85.24	151.08	33.34	126.74	12.87	106.83	97.21
4063	-4.10	11.75	12.09	83.21	27.03	90.89	20.09	143.91	90.94	147.02	33.27	118.50	7.69	106.91	99.57
4064	-4.99	11.63	12.09	85.99	30.12	90.94	18.57	142.24	96.02	141.81	32.36	110.60	5.56	106.75	101.94
4065	-5.87	11.48	12.09	86.95	32.24	91.47	19.08	140.81	100.65	135.65	30.76	103.57	9.19	108.17	104.47
4066	-6.74	11.30	12.09	86.92	33.95	92.50	21.09	139.06	105.51	129.21	28.91	98.00	13.94	110.28	107.78
4067	-7.59	11.11	12.09	85.84	35.40	93.84	23.89	136.84	110.60	122.47	26.90	94.04	18.51	112.64	111.77
4068	-8.44	10.89	12.09	83.80	36.74	95.37	26.96	134.17	115.92	115.37	24.83	91.78	22.71	114.90	116.38
4069	-0.47	13.23	12.09	59.00	12.12	100.05	34.05	141.42	56.32	150.30	33.33	156.31	28.22	107.03	84.19
4070	-1.42	13.19	12.09	66.63	13.64	98.21	31.64	143.56	62.02	148.38	31.61	150.97	23.84	107.08	84.48
4071	-2.36	13.12	12.09	73.19	17.00	96.71	28.57	144.82	67.89	145.56	30.29	143.96	19.33	107.32	85.29
4072	-3.29	13.01	12.09	78.99	20.63	95.47	25.07	145.16	73.63	142.34	29.00	135.67	14.80	107.68	86.51
4073	-4.21	12.86	12.09	82.50	23.87	94.69	22.16	145.04	79.13	137.81	27.65	126.84	11.57	108.67	88.22
4074	-5.12	12.68	12.09	84.79	26.80	94.49	20.54	144.72	84.86	132.72	26.44	118.25	10.88	110.59	90.90
4075	-6.01	12.47	12.09	86.03	29.39	94.83	20.37	143.96	90.90	127.36	25.28	110.44	12.50	113.03	94.61
4076	-6.89	12.23	12.09	86.15	31.60	95.57	21.58	142.72	97.18	121.69	24.05	103.85	15.49	115.76	99.20
4077	-7.75	11.95	12.09	85.25	33.57	96.62	23.78	140.90	103.73	115.73	22.80	98.83	19.00	118.40	104.59
4078	-8.59	11.65	12.09	83.42	35.41	97.85	26.55	138.44	110.48	109.46	21.57	95.59	22.66	120.64	110.62
4079	-0.49	14.44	12.09	61.23	10.41	103.98	33.69	140.87	45.29	139.39	27.59	170.36	24.64	104.55	72.47
4080	-1.45	14.39	12.09	67.82	11.97	102.11	31.59	143.62	50.24	137.87	25.87	164.50	21.95	105.94	72.08
4081	-2.41	14.30	12.09	73.61	14.84	100.51	28.98	145.56	55.72	135.49	24.23	156.81	19.48	107.62	72.45
4082	-3.37	14.16	12.09	78.16	18.11	99.28	26.32	146.88	61.64	132.20	22.80	147.87	17.62	109.73	73.76
4083	-4.31	13.98	12.09	81.60	21.34	98.51	24.03	147.67	67.95	128.30	21.64	138.22	16.60	112.30	76.17
4084	-5.23	13.75	12.09	83.82	24.35	98.22	22.54	147.99	74.62	123.87	20.74	128.49	16.52	115.29	79.72
4085	-6.14	13.47	12.09	84.99	27.12	98.38	22.13	147.83	81.72	119.14	20.13	119.31	17.35	118.59	84.45
4086	-7.03	13.16	12.09	85.21	29.70	98.93	22.85	147.08	89.25	114.21	19.76	111.26	18.97	121.84	90.31
4087	-7.90	12.81	12.09	84.52	32.11	99.74	24.53	145.61	97.11	109.09	19.51	104.80	21.23	124.72	97.09
4088	-8.74	12.41	12.09	82.97	34.39	100.70	26.89	143.34	105.17	103.75	19.28	100.28	23.97	126.91	104.56
4089	-0.50	15.66	12.09	63.82	8.38	108.01	33.93	142.30	33.75	128.41	18.30	193.00	24.21	105.10	58.48
4090	-1.48	15.60	12.09	69.50	10.48										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
4117	-9.26	9.36	10.41	69.91	41.57	122.27	31.03	134.64	151.84	116.41	28.74	110.15	26.35	106.38	152.02
4118	-10.09	9.32	10.41	68.37	43.45	125.68	33.27	131.77	155.02	107.37	26.78	112.59	29.30	110.81	155.08
4119	-10.91	9.29	10.41	66.56	45.49	129.10	35.42	128.95	158.52	98.18	25.08	117.10	32.11	114.75	158.56
4120	-9.39	10.08	10.41	72.07	41.50	125.10	30.38	138.42	146.79	112.31	27.16	113.55	25.23	112.40	146.96
4121	-10.11	9.97	10.41	70.58	43.27	127.73	32.52	135.87	150.41	104.94	25.79	115.07	28.22	115.85	150.43
4122	-10.83	9.86	10.41	68.89	45.17	130.37	34.57	133.24	154.22	97.61	24.72	118.29	31.06	118.80	154.19
4123	-9.50	10.79	10.41	74.06	41.40	127.92	30.14	142.45	141.48	108.39	25.67	117.13	24.86	118.46	141.55
4124	-10.12	10.62	10.41	72.69	43.07	129.78	31.95	140.09	145.57	102.68	24.84	117.70	27.53	120.91	145.51
4125	-10.73	10.43	10.41	71.04	44.81	131.70	33.96	137.54	149.53	96.74	24.42	119.61	30.33	123.01	149.37
4126	-0.45	9.64	10.41	55.18	18.94	106.90	20.83	149.31	104.64	205.62	46.33	153.38	31.71	103.25	115.77
4127	-1.34	9.63	10.41	58.98	20.11	105.98	19.58	150.26	111.91	197.23	44.59	149.54	25.87	97.29	120.71
4128	-2.23	9.62	10.41	62.87	22.41	105.60	18.32	150.41	118.74	188.72	43.09	144.30	20.09	92.51	125.60
4129	-3.12	9.60	10.41	66.26	25.23	105.67	17.49	149.72	124.89	180.09	41.67	137.94	14.77	88.89	130.15
4130	-4.01	9.58	10.41	68.49	28.19	106.46	17.60	148.76	130.36	170.92	40.31	131.25	10.88	87.33	134.31
4131	-4.89	9.56	10.41	71.03	30.96	107.89	18.86	147.09	134.84	162.34	38.82	124.69	10.07	87.20	137.70
4132	-5.78	9.52	10.41	71.61	33.65	109.94	20.85	145.08	138.71	152.90	37.35	118.86	12.20	88.90	140.70
4133	-6.66	9.49	10.41	72.19	35.87	112.52	23.38	142.89	142.27	143.89	35.42	114.18	15.81	92.35	143.57
4134	-7.54	9.44	10.41	72.00	37.90	115.55	26.04	140.32	145.48	134.79	33.33	111.05	19.59	96.69	146.25
4135	-8.41	9.40	10.41	71.21	39.80	118.86	28.64	137.50	148.66	125.61	31.10	109.65	23.17	101.53	149.04
4136	-9.29	9.36	10.41	70.42	41.61	122.27	31.03	134.64	151.84	116.41	28.74	110.15	26.35	106.38	152.02
4137	-1.39	10.90	10.41	61.48	18.98	113.69	23.29	151.88	102.60	184.93	41.50	160.83	24.17	96.96	113.96
4138	-2.31	10.86	10.41	65.33	21.52	112.81	21.66	152.47	108.91	177.31	40.10	154.75	17.91	94.10	117.76
4139	-3.22	10.81	10.41	69.32	24.53	112.41	20.27	152.17	114.64	169.82	38.80	147.57	11.78	92.31	121.37
4140	-4.13	10.75	10.41	71.44	27.84	112.66	19.65	151.38	120.04	161.49	37.74	139.95	6.75	92.09	125.02
4141	-5.04	10.67	10.41	73.78	30.66	113.56	19.96	150.19	125.08	153.64	36.25	132.49	5.29	93.48	128.64
4142	-5.94	10.57	10.41	74.49	33.21	115.10	21.22	148.39	129.62	145.18	34.60	125.74	8.75	95.96	132.05
4143	-6.83	10.46	10.41	74.90	35.51	117.14	23.21	146.39	134.01	136.98	32.80	120.11	13.33	99.73	135.54
4144	-7.71	10.34	10.41	74.49	37.63	119.62	25.57	143.92	138.34	128.67	30.91	116.04	17.74	103.96	139.22
4145	-8.59	10.20	10.41	73.50	39.67	122.37	28.08	141.13	142.73	120.32	29.02	113.77	21.82	108.36	143.13
4146	-9.48	10.06	10.41	71.98	41.64	125.09	30.69	138.34	146.56	108.91	27.16	111.05	26.35	106.38	146.96
4147	-1.43	12.17	10.41	63.79	17.70	121.30	26.62	152.98	91.70	172.14	38.26	173.28	21.32	96.32	105.48
4148	-2.38	12.11	10.41	67.78	20.41	119.97	24.89	154.02	97.57	165.62	36.91	166.38	15.23	95.34	108.30
4149	-3.32	12.03	10.41	71.60	23.50	119.17	23.21	154.30	103.36	159.04	35.51	158.40	9.07	95.49	111.48
4150	-4.26	11.92	10.41	74.04	26.57	118.91	22.08	153.90	108.89	151.88	34.03	149.84	3.13	96.77	114.82
4151	-5.18	11.78	10.41	75.85	29.52	119.28	21.78	153.16	114.34	144.60	32.59	141.32	2.59	99.45	118.50
4152	-6.09	11.62	10.41	76.83	32.32	120.27	22.37	151.84	119.83	137.26	31.17	133.46	7.79	102.91	122.59
4153	-7.00	11.44	10.41	77.06	34.85	121.78	23.75	150.06	125.32	129.86	29.69	126.70	12.69	106.97	127.00
4154	-7.89	11.23	10.41	76.58	37.20	123.68	25.72	147.80	130.86	122.42	28.21	121.48	17.24	111.21	131.75
4155	-8.76	11.00	10.41	75.46	39.47	125.86	28.03	145.05	136.52	114.96	26.87	118.17	21.50	115.25	136.85
4156	-9.64	10.86	10.41	74.49	41.61	127.92	30.14	142.45	141.48	108.39	25.67	117.13	24.86	118.46	141.55
4157	-1.47	13.44	10.41	66.12	16.18	128.67	29.34	154.08	79.38	159.21	34.00	188.09	17.86	96.18	95.08
4158	-2.45	13.36	10.41	70.23	18.87	126.97	27.59	155.59	84.97	153.91	32.51	180.31	12.79	96.97	97.18
4159	-3.41	13.24	10.41	73.48	22.02	125.74	25.94	156.46	90.79	148.06	31.09	171.29	8.52	98.95	99.96
4160	-4.37	13.09	10.41	76.09	25.29	125.06	24.66	156.73	96.87	141.98	29.77	161.60	6.26	101.94	103.47
4161	-5.31	12.90	10.41	77.83	28.42	124.96	23.97	156.41	103.11	135.68	28.50	151.79	7.47	105.68	107.62
4162	-6.24	12.68	10.41	78.75	31.37	125.41	24.07	155.54	109.53	129.24	27.33	142.47	10.77	109.95	112.38
4163	-7.16	12.42	10.41	78.94	34.15	126.36	24.93	154.11	116.16	122.75	26.33	134.22	14.60	114.40	117.76
4164	-8.05	12.13	10.41	78.45	36.80	127.71	26.45	152.08	122.97	116.25	25.50	127.56	18.51	118.67	123.66
4165	-8.93	11.80	10.41	77.31	39.33	129.36	28.47	149.42	129.88	109.70	24.83	122.96	22.38	122.41	129.97
4166	-9.50	11.62	10.41	76.43	41.64	131.70	30.69	146.56	134.01	108.91	23.17	111.05	26.35	106.38	146.96
4167	-1.51	14.71	10.41	68.75	14.57	135.63	31.85	155.55	65.34	146.55	28.01	207.14	16.24	97.20	82.57
4168	-2.51	14.61	10.41	72.56	17.46	133.67	30.20	157.68	70.90	142.22	26.70	198.20	13.89	99.81	84.22
4169	-3.50	14.46	10.41	75.70	20.72	132.10	28.59	159.13	77.05	137.43	25.48	187.75	12.76	103.39	86.89
4170	-4.48	14.27	10.41	78.08	24.07	131.01	27.26	159.97	83.69	132.28	24.47	176.38	12.96	107.73	90.56
4171	-5.44	14.02	10.41	79.70	27.38	130.46	26.39	160.21	90.81	126.91	23.75	164.72	14.23	112.54	95.25
4172	-6.39	13.74	10.41	80.59	30.59	130.43	26.14	159.81	98.36	121.44	23.34	153.43	16.22	117.51	100.89
4173	-7.31	13.40	10.41	80.77	33.66	130.89	26.57	158.74	106.26	115.93	23.20	143.17	18.67	122.29	107.37
4174	-8.22	13.03	10.41	80.29	36.59	131.74	27.66	156.94	114.42	110.39	23.26	134.60	21.44	126.55	114.56
4175	-9.09	12.61	10.41	79.16	39.38	132.88	29.31	154.36	122.74	104.80	23.44	128.34	24.46	130.00	122.28
4176	-10.02	12.42	10.41	77.62	42.13	134.17	31.14	151.84	130.86	97.61	22.42	118.29	31.06	118.80	154.19
4177	-1.55	15.98	10.41	71.68	13.21	142.17	34.48	157.62	49.80	134.46	19.76	232.49	20.13	99.78	69.14
4178	-2.57	15.86	10.41	75.21	16.35	140.01	32.89	160.40	55.30	131.09	19.12	221.90	20.22	104.03	70.06
4179	-3.58	15.68	10.41	78.11	19.80	138.19	31.34	162.51	61.83	127.25	18.83	209.42	20.66	109.08	72.36
4180	-4.58	15.44	10.41	80.32	23.33	136.80	29.99	163.97	69.22	123.08	18.97	195.69	21.31	114.62	76.09
4181	-5.57	15.15	10.41	81.83	26.83	135.88	28.99	164.76	77.35	118.70	19.51	181.41	22.10	120.31	81.24
4182	-6.53	14.80	10.41	82.66	30.24	135.44	28.48	164.83	86.11	114.23	20.36	167.34	23.04	125.84	87.72
4183	-7.46	14.39	10.41	82.83	33.54	135.45	28.54	164.11	95.37	109.73	21.36	154.30	24.20	130.85	95.40
4184	-8.37	13.93	10.41	82.34	36.69	135.83	29.20	162.49	105.01	105.18	22.38	143.12	25.68	135.03	104.04
4185	-9.25	13.42	10.41	81.16	39.68	136.50	30.44	159.93	114.87	100.51	23.28	134.61	27.54	138.13	113.40
4186	-10.13	12.90	10.41	81.92	42.13	137.92	31.85	157.68	124.83	97.61	22.42	118.29	31.06	118.80	154.19
4187	-12.79	10.19	10.41	66.24	51.36	139.79	40.55	132.51	161.26	76.32	24				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
4215	-2.31	9.66	8.72	61.38	25.41	128.79	20.05	165.12	137.39	203.30	45.42	172.53	24.69	81.26	141.57
4216	-3.23	9.64	8.72	62.96	27.67	129.74	19.77	164.64	142.85	191.96	43.64	166.22	19.38	78.36	145.99
4217	-4.15	9.62	8.72	64.40	30.12	131.46	20.06	163.45	147.85	180.99	41.84	159.40	15.19	77.70	150.15
4218	-5.07	9.59	8.72	65.30	32.63	133.93	20.97	161.73	152.44	170.16	40.02	152.58	12.86	79.38	154.05
4219	-5.99	9.55	8.72	66.08	35.06	137.10	22.47	159.48	156.64	159.76	38.12	146.24	13.00	83.02	157.69
4220	-6.90	9.51	8.72	66.34	37.47	140.86	24.38	156.75	160.50	149.52	36.22	140.87	15.10	88.11	161.09
4221	-7.81	9.47	8.72	66.30	39.81	145.10	26.56	153.63	164.16	139.49	34.31	136.95	18.23	94.16	164.39
4222	-8.72	9.42	8.72	65.95	42.17	149.68	28.88	150.17	167.70	129.58	32.50	134.95	21.73	100.57	167.67
4223	-0.48	11.02	8.72	59.69	21.26	140.61	25.28	165.00	116.39	210.25	45.85	196.74	34.99	91.18	125.54
4224	-1.44	11.01	8.72	61.97	22.64	139.55	24.23	166.28	122.07	199.97	44.32	191.84	28.13	86.12	129.25
4225	-2.39	10.97	8.72	64.26	24.71	139.14	23.26	166.77	127.64	189.89	42.73	185.51	21.66	83.15	133.17
4226	-3.34	10.92	8.72	66.12	27.20	139.44	22.59	166.57	133.05	179.89	41.11	178.18	15.80	82.37	137.21
4227	-4.28	10.85	8.72	67.82	29.81	140.47	22.38	165.69	138.21	170.18	39.41	170.31	10.98	83.60	141.25
4228	-5.22	10.76	8.72	68.85	32.49	142.24	22.76	164.19	143.14	160.54	37.73	162.38	8.50	86.62	145.25
4229	-6.16	10.66	8.72	69.60	35.11	144.66	23.73	162.17	147.91	151.20	36.02	154.92	9.58	91.11	149.26
4230	-7.08	10.54	8.72	69.80	37.65	147.67	25.21	159.62	152.53	141.97	34.33	148.46	12.92	96.50	153.29
4231	-8.00	10.41	8.72	69.62	40.14	151.13	27.08	156.62	157.07	132.92	32.70	143.48	16.96	102.37	157.38
4232	-8.90	10.26	8.72	69.06	42.61	154.93	29.22	153.21	161.59	123.98	31.23	140.52	21.10	108.24	161.57
4233	-0.49	12.37	8.72	61.93	19.79	152.35	28.83	165.79	105.42	193.43	42.11	213.67	30.58	88.89	116.93
4234	-1.48	12.34	8.72	64.66	21.37	150.85	27.69	167.45	110.73	184.85	40.81	207.91	23.69	86.07	119.82
4235	-2.47	12.28	8.72	67.25	23.66	149.89	26.56	168.34	116.13	176.31	39.38	200.58	17.10	85.40	123.17
4236	-3.44	12.20	8.72	69.36	26.36	149.55	25.62	168.51	121.57	167.73	37.90	192.09	10.95	86.71	126.87
4237	-4.41	12.08	8.72	71.10	29.24	149.88	25.05	168.01	127.06	159.27	36.40	182.95	5.57	89.75	130.90
4238	-5.37	11.94	8.72	72.28	32.13	150.89	24.97	166.86	132.55	150.87	34.90	173.68	3.77	94.06	135.20
4239	-6.32	11.77	8.72	72.95	34.95	152.52	25.47	165.13	138.06	142.60	33.43	164.82	7.62	99.30	139.74
4240	-7.26	11.57	8.72	73.12	37.71	154.70	26.51	162.83	143.60	134.45	32.07	156.94	12.34	104.98	144.52
4241	-8.18	11.35	8.72	72.81	40.40	157.33	28.02	159.98	149.17	126.40	30.86	150.63	16.99	110.69	149.53
4242	-9.09	11.11	8.72	72.04	43.05	160.29	29.91	156.61	154.81	118.43	29.89	146.46	21.48	116.05	154.77
4243	-0.51	13.73	8.72	64.70	17.99	164.23	32.25	166.53	92.26	176.95	37.38	233.81	24.32	87.22	106.34
4244	-1.53	13.68	8.72	67.72	19.78	162.32	31.06	168.63	97.23	170.03	36.28	227.06	17.92	86.73	108.45
4245	-2.54	13.60	8.72	70.40	22.33	160.85	29.85	169.99	102.58	162.94	35.04	218.51	11.89	88.35	111.30
4246	-3.54	13.48	8.72	72.68	25.29	159.89	28.75	170.62	108.26	155.78	33.75	208.60	6.32	91.70	114.82
4247	-4.53	13.32	8.72	74.41	28.42	159.51	27.92	170.56	114.22	148.56	32.47	197.86	2.37	96.33	118.95
4248	-5.51	13.12	8.72	75.60	31.58	159.72	27.50	169.84	120.44	141.36	31.31	186.85	5.27	101.84	123.65
4249	-6.48	12.88	8.72	76.25	34.70	160.53	27.58	168.47	126.90	134.20	30.32	176.18	9.86	107.76	128.88
4250	-7.43	12.61	8.72	76.36	37.75	161.86	28.20	166.46	133.55	127.12	29.51	166.51	14.39	113.68	134.59
4251	-8.36	12.30	8.72	75.95	40.70	163.63	29.32	163.80	140.35	120.10	28.93	158.50	18.76	119.24	140.69
4252	-9.27	11.96	8.72	75.04	43.56	165.74	30.90	160.48	147.21	113.12	28.57	152.81	22.99	124.13	147.09
4253	-0.52	15.08	8.72	67.96	15.92	175.94	35.61	167.33	76.59	161.34	31.12	258.29	17.98	86.61	93.99
4254	-1.57	15.02	8.72	71.10	18.02	173.70	34.39	169.95	81.26	155.90	30.22	250.36	13.48	88.47	95.29
4255	-2.61	14.92	8.72	73.84	20.88	171.76	33.13	171.85	86.67	150.22	29.27	240.28	10.25	92.28	97.62
4256	-3.64	14.76	8.72	76.09	24.16	170.21	31.94	173.03	92.75	144.33	28.38	228.55	9.07	97.50	100.97
4257	-4.65	14.56	8.72	77.82	27.62	169.14	30.94	173.49	99.43	138.33	27.65	215.73	10.14	103.61	105.28
4258	-5.65	14.30	8.72	78.99	31.11	168.60	30.25	173.25	106.63	132.29	27.16	202.47	12.59	110.13	110.49
4259	-6.64	14.00	8.72	79.59	34.54	168.58	29.97	172.30	114.27	126.26	26.94	189.46	15.61	116.63	116.54
4260	-7.60	13.64	8.72	79.64	37.89	169.06	30.18	170.60	122.26	120.25	26.97	177.45	18.85	122.74	123.32
4261	-8.53	13.25	8.72	79.13	41.11	169.97	30.89	168.14	130.49	114.27	27.22	167.26	22.21	128.13	130.71
4262	-9.44	12.81	8.72	78.10	44.19	171.23	32.11	164.89	138.86	108.30	27.62	159.66	25.65	132.54	138.55
4263	-0.54	16.43	8.72	71.60	13.95	187.15	39.08	168.21	58.76	147.02	23.26	288.19	17.60	87.27	81.65
4264	-1.61	16.36	8.72	74.78	16.42	184.65	37.83	171.44	63.04	142.89	22.72	278.86	17.09	91.44	81.82
4265	-2.67	16.24	8.72	77.51	19.66	182.32	36.51	173.98	68.58	138.44	22.35	266.90	17.54	97.31	83.32
4266	-3.73	16.05	8.72	79.74	23.28	180.28	35.22	175.79	75.23	133.75	22.27	252.87	18.60	104.22	86.19
4267	-4.77	15.80	8.72	81.43	27.06	178.60	34.06	176.87	82.82	128.91	22.54	237.41	19.99	111.63	90.45
4268	-5.79	15.48	8.72	82.55	30.85	177.36	33.14	177.18	91.21	124.00	23.15	221.26	21.55	119.03	96.04
4269	-6.79	15.11	8.72	83.10	34.59	176.59	32.54	176.68	100.23	119.07	24.06	205.23	23.23	126.02	102.86
4270	-7.76	14.68	8.72	83.07	38.22	176.26	32.36	175.32	109.75	114.15	25.15	190.23	25.04	132.24	110.78
4271	-8.71	14.20	8.72	82.47	41.68	176.35	32.65	173.05	119.63	109.20	26.32	177.23	27.04	137.40	119.58
4272	-9.62	13.66	8.72	81.26	44.96	176.77	33.44	169.85	129.71	104.14	27.43	167.18	29.28	141.30	129.05
4273	-13.81	9.42	8.72	62.30	58.56	179.56	44.09	131.93	186.33	73.69	30.72	179.79	43.72	131.54	186.47
4274	-13.27	10.26	8.72	66.67	57.00	179.48	42.19	139.99	177.54	78.80	30.59	171.62	41.58	136.56	177.44
4275	-12.67	11.05	8.72	70.92	55.26	179.32	40.36	147.86	168.46	84.06	30.33	165.01	39.46	140.93	168.05
4276	-12.98	9.37	8.72	62.30	55.10	174.28	41.28	133.55	183.16	81.62	28.97	164.90	39.76	127.28	183.16
4277	-12.59	10.09	8.72	66.10	54.21	174.82	39.95	140.31	176.30	85.03	29.12	161.20	38.16	131.70	176.13
4278	-12.17	10.79	8.72	69.75	53.08	175.33	38.56	146.72	168.94	88.52	29.14	158.36	36.48	135.54	168.59
4279	-12.15	9.31	8.72	62.70	52.10	169.12	38.64	136.00	180.39	90.60	28.27	152.97	35.99	122.76	180.27
4280	-11.93	9.93	8.72	65.79	51.69	170.29	37.81	141.10	175.04	91.99	28.51	152.56	34.94	126.66	174.81
4281	-11.68	10.53	8.72	68.78	51.17	171.39	36.87	146.08	169.29	93.81	28.66	152.53	33.77	130.14	168.96
4282	-10.47	13.07	8.72	79.65	47.95	177.40	34.74	165.72	139.56	99.38	28.57	160.95	31.74	143.58	138.59
4283	-10.25	12.35	8.72	76.76	46.91	172.53	33.61	161.14	146.69	103.01	28.24	155.44	28.81	135.39	146.07
4284	-10.03	11.63	8.72	73.92	46.01	167.74	32.58	157.10	153.17	107.15	28.56	150.18	26.55	127.61	152.79
4285	-11.25	12.45	8.72	77.31	50.66	178.06	36.41	160.68	149.30	94.46	29.32	158.73	34.35	144.24	148.37
4286															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
4313	-3.45	11.02	7.03	65.81	30.97	167.64	24.98	183.68	151.54	187.08	42.63	209.33	19.82	74.87	153.74
4314	-4.43	10.95	7.03	66.75	33.36	169.63	24.91	182.33	156.42	176.37	40.99	201.04	14.77	77.51	157.88
4315	-5.41	10.86	7.03	67.50	35.84	172.44	25.28	180.27	161.17	166.18	39.36	192.58	11.55	82.08	162.03
4316	-6.37	10.75	7.03	67.94	38.37	176.01	26.12	177.57	165.81	156.37	37.79	184.45	11.19	88.04	166.17
4317	-7.33	10.63	7.03	68.12	40.92	180.22	27.39	174.27	170.35	146.88	36.33	177.23	13.51	94.87	170.29
4318	-8.28	10.49	7.03	68.00	43.49	184.96	29.04	170.43	174.79	137.60	35.04	171.57	17.22	102.02	174.43
4319	-9.22	10.33	7.03	67.60	46.09	190.10	30.98	166.11	179.17	128.44	33.98	168.18	21.43	109.09	178.60
4320	-0.51	12.55	7.03	64.65	24.56	183.01	31.05	183.19	125.02	204.26	43.83	249.37	35.20	79.64	132.35
4321	-1.53	12.52	7.03	66.45	26.06	181.94	30.04	184.59	129.84	193.81	42.74	243.17	27.65	77.10	135.52
4322	-2.55	12.46	7.03	68.12	28.13	181.54	29.13	185.15	134.82	183.83	41.48	235.37	20.65	77.33	139.12
4323	-3.56	12.37	7.03	69.59	30.56	181.88	28.41	184.91	139.93	174.27	40.11	226.36	14.32	79.98	143.06
4324	-4.57	12.24	7.03	70.74	33.19	182.98	28.00	183.90	145.14	165.09	38.72	216.59	9.04	84.55	147.28
4325	-5.56	12.09	7.03	71.57	35.92	184.82	27.98	182.17	150.42	156.23	37.35	206.57	6.45	90.47	151.73
4326	-6.54	11.92	7.03	72.03	38.69	187.35	28.38	179.75	155.76	147.63	36.08	196.85	8.47	97.20	156.39
4327	-7.51	11.71	7.03	72.12	41.46	190.48	29.24	176.69	161.14	139.24	34.95	188.08	12.72	104.24	161.23
4328	-8.47	11.48	7.03	71.84	44.21	194.09	30.51	173.02	166.54	130.98	34.02	180.97	17.42	111.16	166.23
4329	-9.41	11.22	7.03	71.19	46.96	198.07	32.15	168.77	171.98	122.78	33.36	176.27	22.16	117.61	171.40
4330	-0.53	13.97	7.03	67.76	22.79	200.18	34.98	183.39	111.01	186.43	39.28	273.85	27.51	77.89	120.97
4331	-1.58	13.93	7.03	69.99	24.53	198.64	33.91	185.21	115.60	178.03	38.50	266.51	20.34	78.10	123.48
4332	-2.63	13.84	7.03	71.97	26.89	197.59	32.88	186.20	120.60	169.87	37.53	257.27	13.62	81.00	126.67
4333	-3.67	13.71	7.03	73.62	29.65	197.11	31.97	186.39	125.99	161.93	36.49	246.57	7.34	85.94	130.48
4334	-4.70	13.54	7.03	74.90	32.64	197.26	31.29	185.79	131.72	154.18	35.47	234.91	1.66	92.27	134.86
4335	-5.71	13.33	7.03	75.75	35.72	198.04	30.91	184.44	137.74	146.62	34.52	222.87	4.34	99.37	139.75
4336	-6.72	13.09	7.03	76.18	38.82	199.41	30.91	182.36	144.02	139.20	33.72	211.10	9.56	106.73	145.09
4337	-7.70	12.80	7.03	76.17	41.90	201.32	31.34	179.57	150.49	131.89	33.12	200.32	14.58	113.91	150.83
4338	-8.66	12.47	7.03	75.73	44.91	203.68	32.22	176.08	157.09	124.64	32.74	191.32	19.39	120.57	156.92
4339	-9.60	12.11	7.03	74.87	47.87	206.39	33.52	171.90	163.74	117.42	32.58	184.93	24.04	126.39	163.26
4340	-0.54	15.39	7.03	71.46	20.37	217.93	38.87	183.60	93.83	170.02	33.33	302.87	18.65	77.17	107.84
4341	-1.63	15.34	7.03	73.98	22.42	215.97	37.77	185.92	98.22	163.43	32.80	294.17	12.86	80.27	109.56
4342	-2.70	15.23	7.03	76.15	25.19	214.30	36.64	187.43	103.38	156.89	32.19	283.16	8.14	85.77	112.28
4343	-3.77	15.06	7.03	77.91	28.39	213.01	35.58	188.13	109.25	150.41	31.62	270.35	5.91	92.83	115.97
4344	-4.83	14.85	7.03	79.22	31.82	212.17	34.67	188.02	115.76	143.99	31.15	256.32	7.63	100.72	120.56
4345	-5.86	14.58	7.03	80.06	35.33	211.82	33.99	187.13	122.83	137.63	30.87	241.74	11.22	108.83	125.99
4346	-6.88	14.26	7.03	80.43	38.84	211.97	33.62	185.44	130.35	131.34	30.82	227.37	15.19	116.69	132.19
4347	-7.88	13.89	7.03	80.31	42.29	212.59	33.63	182.95	138.22	125.08	30.98	214.03	19.20	123.94	139.05
4348	-8.85	13.47	7.03	79.70	45.62	213.61	34.09	179.66	146.34	118.83	31.35	202.64	23.16	130.26	146.46
4349	-9.79	13.00	7.03	78.63	48.81	214.96	35.00	175.58	154.58	112.57	31.86	194.12	27.10	135.43	154.28
4350	-0.56	16.81	7.03	75.61	17.63	235.50	42.76	183.72	73.43	155.50	26.10	336.60	15.15	77.69	94.64
4351	-1.67	16.75	7.03	78.32	20.07	233.21	41.62	186.64	77.60	150.45	25.85	326.34	14.20	83.69	95.27
4352	-2.78	16.61	7.03	80.60	23.33	231.00	40.42	188.78	83.06	145.29	25.74	313.25	14.81	91.64	97.24
4353	-3.87	16.41	7.03	82.41	27.04	228.97	39.22	190.10	89.69	140.07	25.85	297.92	16.43	100.61	100.56
4354	-4.95	16.15	7.03	83.73	30.97	227.20	38.10	190.59	97.31	134.83	26.25	281.03	18.56	109.86	105.20
4355	-6.01	15.82	7.03	84.54	34.96	225.77	37.15	190.24	105.75	129.59	26.94	263.37	20.89	118.83	111.10
4356	-7.05	15.43	7.03	84.83	38.91	224.72	36.44	189.01	114.85	124.35	27.88	245.80	23.32	127.08	118.16
4357	-8.06	14.98	7.03	84.59	42.74	224.03	36.06	186.87	124.45	119.12	29.01	229.31	25.83	134.31	126.22
4358	-9.04	14.46	7.03	83.81	46.40	223.70	36.07	183.79	134.38	113.85	30.25	214.97	28.43	140.25	135.09
4359	-9.98	13.89	7.03	82.48	49.84	223.68	36.54	179.79	144.48	108.46	31.49	203.85	31.16	144.74	144.56
4360	-14.30	9.45	7.03	63.05	63.08	223.37	46.19	138.43	201.20	76.18	36.08	217.99	46.57	136.62	201.47
4361	-13.74	10.32	7.03	67.60	61.77	223.81	44.32	145.92	192.39	81.62	35.75	208.74	44.43	141.50	192.54
4362	-13.13	11.16	7.03	71.95	60.23	224.27	42.55	155.19	183.26	87.16	35.26	201.38	42.26	145.67	183.23
4363	-13.43	9.39	7.03	62.41	59.29	216.12	43.14	141.48	198.93	84.36	33.91	199.31	42.10	132.13	198.83
4364	-13.04	10.15	7.03	66.41	58.65	217.35	41.90	148.37	191.92	87.99	34.01	195.43	40.54	136.37	191.72
4365	-12.61	10.88	7.03	70.26	57.73	218.61	40.62	154.95	184.38	91.70	33.94	192.59	38.88	140.02	184.11
4366	-12.57	9.33	7.03	62.28	55.99	209.01	40.27	145.27	196.90	93.81	32.69	184.05	37.75	127.08	196.53
4367	-12.35	9.98	7.03	65.59	55.84	211.03	39.59	150.28	191.33	95.28	33.04	184.19	36.81	130.89	190.88
4368	-12.10	10.61	7.03	68.82	55.55	213.01	38.81	155.23	185.34	97.23	33.25	184.79	35.72	134.27	184.86
4369	-10.86	13.28	7.03	80.80	52.95	223.85	37.53	174.91	154.35	103.39	32.81	196.93	33.99	147.46	154.06
4370	-10.62	12.52	7.03	77.28	51.62	216.30	36.23	171.07	162.29	107.02	32.63	189.39	30.64	138.86	161.75
4371	-10.39	11.77	7.03	73.83	50.40	208.90	34.97	167.77	169.51	111.21	32.77	182.02	27.95	130.57	168.86
4372	-11.67	12.63	7.03	78.40	55.72	224.01	38.94	169.19	164.08	98.15	33.76	194.42	36.85	148.47	163.75
4373	-11.35	12.03	7.03	75.42	53.95	217.42	37.62	166.30	169.59	101.73	33.11	188.01	33.72	140.74	169.06
4374	-11.03	11.44	7.03	72.62	52.43	210.96	36.32	163.97	174.58	105.92	32.94	181.70	30.99	133.31	173.94
4375	-12.44	11.93	7.03	75.58	58.25	224.28	40.62	162.68	173.67	92.82	34.70	196.28	39.62	147.97	173.45
4376	-12.05	11.51	7.03	73.22	56.25	218.60	39.11	160.97	176.80	96.38	33.71	189.76	36.60	141.49	176.39
4377	-11.66	11.10	7.03	71.12	54.33	213.01	37.75	159.78	179.78	100.57	32.95	183.54	33.90	135.29	179.26
4378	-10.27	9.42	5.34	63.67	50.93	224.96	34.21	172.33	205.27	128.00	36.44	187.17	26.50	109.92	204.17
4379	-11.19	9.38	5.34	63.46	53.56	233.48	36.76	166.58	207.99	118.52	36.48	192.20	30.72	117.96	206.91
4380	-12.10	9.34	5.34	63.16	56.30	242.26	39.41	160.68	210.57	108.66	36.80	201.97	35.15	125.25	209.63
4381	-10.42	10.26	5.34	67.34	52.20	233.73	35.10	174.25	199.51	123.73	36.97	196.15	26.62	117.71	198.34
4382	-11.22	10.13	5.34	66.91	54.49	240.31	37.19	169.29	202.49	115.92	37.01	199.67	30.70	124.07	201.37
4383	-12.01	10.01	5.34	66.40	56.91	246.96	39.31	164.15	205.40	108.06	37.33	206.71	34.76		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
4411	-4.72	12.41	5.34	71.48	38.27	217.27	30.72	200.53	162.89	166.98	41.42	249.76	12.33	80.84	163.66
4412	-5.75	12.25	5.34	72.17	40.77	220.14	30.73	198.10	167.94	158.46	40.35	239.19	9.36	88.06	168.11
4413	-6.77	12.06	5.34	72.58	43.34	223.78	31.12	194.91	173.06	150.33	39.38	228.84	10.15	95.98	172.73
4414	-7.77	11.85	5.34	72.67	45.93	228.09	31.91	191.02	178.23	142.42	38.57	219.45	13.73	104.14	177.50
4415	-8.76	11.60	5.34	72.44	48.54	232.95	33.07	186.47	183.40	134.60	37.95	211.84	18.34	112.13	182.39
4416	-9.74	11.33	5.34	71.86	51.16	238.22	34.59	181.30	188.57	126.75	37.59	206.96	23.26	119.61	187.40
4417	-10.55	11.22	5.34	70.40	29.18	237.79	38.05	201.12	130.19	189.98	42.07	312.96	30.86	68.83	136.91
4418	-1.63	14.17	5.34	72.27	30.77	236.72	37.02	202.61	134.38	180.88	41.55	305.26	23.23	70.47	139.61
4419	-2.72	14.08	5.34	73.92	32.88	236.24	36.05	203.17	139.02	172.40	40.85	295.57	16.18	75.00	142.94
4420	-3.79	13.95	5.34	75.31	35.35	236.41	35.21	202.83	144.08	164.43	40.07	284.31	9.78	81.60	146.83
4421	-4.86	13.77	5.34	76.37	38.05	237.26	34.55	201.62	149.51	156.87	39.28	272.00	4.65	89.46	151.25
4422	-5.91	13.55	5.34	77.07	40.89	238.79	34.16	199.57	155.26	149.62	38.56	259.22	5.04	97.94	156.12
4423	-6.95	13.29	5.34	77.40	43.78	240.95	34.09	196.72	161.26	142.56	37.96	246.66	9.80	106.51	161.41
4424	-7.97	12.99	5.34	77.33	46.67	243.65	34.39	193.11	167.46	135.60	37.52	235.12	15.00	114.78	167.04
4425	-8.97	12.65	5.34	76.85	49.52	246.81	35.10	188.75	173.76	128.63	37.28	225.50	20.16	122.41	172.98
4426	-9.94	12.27	5.34	75.97	52.32	250.29	36.22	183.68	180.09	121.58	37.24	218.79	25.21	129.12	179.11
4427	-10.56	11.71	5.34	74.72	55.13	253.91	37.33	178.76	187.38	114.17	36.74	211.84	30.35	136.08	185.33
4428	-1.68	15.65	5.34	76.95	28.22	261.75	41.46	202.67	116.42	167.10	36.51	338.32	13.68	73.10	125.34
4429	-2.80	15.54	5.34	78.84	30.77	260.48	40.37	203.73	121.25	160.35	36.18	326.62	7.68	80.61	128.25
4430	-3.91	15.36	5.34	80.35	33.75	259.58	39.33	203.88	126.82	153.87	35.84	312.98	3.25	89.54	132.06
4431	-5.00	15.14	5.34	81.44	36.99	259.10	38.39	203.14	133.05	147.58	35.58	298.01	5.25	99.06	136.72
4432	-6.07	14.85	5.34	82.10	40.34	259.08	37.64	201.53	139.84	141.44	35.44	282.42	9.96	108.56	142.16
4433	-7.13	14.52	5.34	82.30	43.73	259.50	37.14	199.06	147.10	135.36	35.47	267.00	14.75	117.60	148.31
4434	-8.16	14.13	5.34	82.04	47.06	260.33	36.98	195.73	154.69	129.28	35.67	252.66	19.43	125.83	155.07
4435	-9.17	13.69	5.34	81.30	50.29	261.50	37.22	191.56	162.52	123.13	36.05	240.33	23.99	132.98	162.33
4436	-10.14	13.20	5.34	80.11	53.36	262.94	37.90	186.58	170.44	116.87	36.56	231.35	28.45	138.85	169.95
4437	-0.58	17.20	5.34	79.51	22.42	289.44	46.73	200.16	89.81	160.78	29.86	386.62	13.42	68.80	108.81
4438	-1.73	17.13	5.34	81.97	24.74	287.48	45.63	202.72	93.77	155.33	29.87	375.65	11.56	77.28	109.81
4439	-2.88	16.99	5.34	84.00	27.88	285.46	44.45	204.38	99.06	149.97	29.97	361.63	11.99	87.60	112.12
4440	-4.02	16.78	5.34	85.55	31.53	283.48	43.26	205.13	105.52	144.67	30.23	345.20	14.02	98.60	115.74
4441	-5.14	16.50	5.34	86.61	35.43	281.62	42.10	204.96	113.02	139.43	30.70	327.10	16.82	109.52	120.62
4442	-6.24	16.15	5.34	87.17	39.44	279.96	41.06	203.85	121.35	134.22	31.39	308.13	19.91	119.83	126.69
4443	-7.31	15.74	5.34	87.22	43.41	278.53	40.21	201.80	130.35	129.00	32.30	289.26	23.09	129.15	133.84
4444	-8.36	15.27	5.34	86.75	47.26	277.35	39.64	198.79	139.82	123.73	33.38	271.54	26.30	137.18	141.92
4445	-9.37	14.73	5.34	85.74	50.92	276.40	39.43	194.82	149.60	118.35	34.56	256.13	29.54	143.73	150.73
4446	-10.34	14.13	5.34	84.19	54.32	275.67	39.65	189.90	159.52	112.76	35.77	244.20	32.82	148.66	160.06
4447	-14.78	9.47	5.34	63.72	66.34	269.87	48.41	144.70	214.73	78.72	40.96	259.10	49.47	141.66	215.17
4448	-14.21	10.38	5.34	68.44	65.39	271.20	46.59	153.57	206.21	84.44	40.49	249.13	47.30	146.36	206.61
4449	-13.59	11.26	5.34	72.92	64.13	272.70	44.90	162.24	197.31	90.24	39.83	241.35	45.09	150.34	197.64
4450	-13.89	9.40	5.34	63.17	62.69	261.01	45.31	149.58	213.62	87.81	38.99	236.36	44.68	137.63	213.35
4451	-13.49	10.20	5.34	67.30	62.33	263.21	44.10	156.54	206.66	91.52	38.99	232.65	43.08	141.56	206.35
4452	-13.05	10.97	5.34	71.28	61.64	265.52	42.90	163.26	199.18	95.34	38.78	230.12	41.38	144.95	198.87
4453	-13.00	9.34	5.34	62.95	59.39	251.60	42.37	154.82	212.32	97.76	37.59	216.81	39.95	132.07	211.63
4454	-12.77	10.03	5.34	66.39	59.50	254.77	41.74	159.70	206.72	99.20	37.95	217.94	39.01	135.71	205.98
4455	-12.52	10.69	5.34	69.76	59.44	257.94	41.03	164.60	200.70	101.16	38.13	219.56	37.90	138.93	199.97
4456	-11.25	13.49	5.34	82.31	57.37	275.04	40.40	184.16	169.18	107.46	37.10	236.76	36.11	151.67	169.37
4457	-11.00	12.69	5.34	78.65	56.05	264.25	38.93	181.26	177.86	111.24	37.33	226.39	32.42	142.80	177.21
4458	-10.76	11.90	5.34	74.92	54.73	253.43	37.52	178.76	185.56	115.42	37.50	215.94	29.48	134.00	184.51
4459	-12.09	12.80	5.34	79.72	60.02	274.33	41.61	177.62	178.67	101.92	38.09	234.01	39.30	152.90	178.82
4460	-11.75	12.18	5.34	76.68	58.25	265.20	40.15	175.77	184.88	105.78	37.83	225.06	35.81	145.08	184.29
4461	-11.42	11.56	5.34	73.68	56.64	255.93	38.74	174.29	190.37	110.07	37.72	215.94	32.80	137.24	189.40
4462	-12.88	12.07	5.34	76.73	62.39	273.70	43.12	170.37	187.98	96.25	39.12	235.99	42.30	152.51	188.21
4463	-12.47	11.63	5.34	74.36	60.38	266.16	41.50	169.74	191.78	100.21	38.47	227.19	38.94	146.15	191.37
4464	-12.07	11.20	5.34	72.14	58.38	258.38	40.06	169.44	195.28	104.59	37.78	218.41	35.96	139.67	194.50
4465	-14.22	-3.10	17.16	15.43	53.73	13.57	28.78	10.79	40.12	17.63	31.66	15.33	27.36	12.02	40.78
4466	-13.31	-3.10	17.16	32.51	52.75	13.28	47.35	11.20	34.66	44.67	35.98	14.75	46.77	15.91	34.91
4467	-12.39	-3.10	17.16	50.44	52.18	13.02	66.22	12.34	32.95	76.63	39.06	13.87	65.97	20.59	32.99
4468	-11.47	-3.10	17.16	70.11	51.76	12.84	87.11	14.38	33.71	113.75	40.90	13.53	87.03	25.67	33.66
4469	-10.55	-3.10	17.16	93.17	51.80	12.84	112.37	17.69	37.07	157.13	41.85	13.95	112.36	32.21	36.97
4470	-9.64	-3.10	17.16	122.07	53.05	13.26	145.61	23.19	44.63	209.04	42.85	15.86	145.62	42.42	44.52
4471	-8.72	-3.10	17.16	160.24	56.07	14.52	194.13	32.90	61.68	273.17	44.80	21.27	194.13	60.38	61.58
4472	-7.80	-3.10	17.16	209.27	61.47	16.13	271.13	49.96	107.62	352.07	50.67	32.24	271.16	92.56	107.51
4473	-6.88	-3.10	17.16	274.89	75.17	14.43	414.78	77.25	276.64	451.40	73.02	64.87	415.19	149.18	276.95
4474	-5.97	-3.10	17.16	64.90	23.22	52.47	82.42	143.20	384.89	116.35	20.81	68.20	82.74	199.52	386.11
4475	-5.05	-3.10	17.16	26.84	82.17	27.65	20.54	132.17	255.10	55.75	82.10	39.07	27.59	160.92	258.12
4476	-4.13	-3.10	17.16	28.34	166.63	11.15	51.95	105.92	162.14	64.68	167.05	18.44	60.55	124.46	168.15
4477	-3.21	-3.10	17.16	26.27	150.96	11.02	64.12	91.04	115.11	67.24	152.23	17.56	69.81	99.84	121.45
4478	-2.29	-3.10	17.16	21.91	116.77	12.22	68.31	84.27	81.44	67.96	119.05	17.09	70.41	86.08	88.78
4479	-1.38	-3.10	17.16	16.76	76.04	13.35	69.40	80.59	54.46	68.33	79.98	17.94	69.47	79.45	64.61
4480	-0.46	-3.10	17.16	11.53	34.17	13.99	69.60	78.29	31.52	68.40	42.65	19.78	70.53	79.08	48.27
4481	-14.34	-2.50	17.16	12.74	54.13	13.53	27.52	8.95	40.35	15.42	32.17	15.39	26.53	10.05	40.79
4482	-13.41	-													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
4509	-3.31	-3.10	15.47	33.66	19.00	19.46	21.10	85.89	125.53	124.46	33.53	18.42	22.13	75.91	127.71
4510	-2.36	-3.10	15.47	28.41	15.88	17.06	17.52	80.43	97.54	121.24	33.81	18.59	19.16	68.84	100.01
4511	-1.42	-3.10	15.47	26.11	15.16	15.79	16.40	76.92	73.99	121.27	35.84	18.61	19.32	68.33	77.04
4512	-0.47	-3.10	15.47	24.88	15.18	16.48	16.50	75.04	53.23	122.49	38.56	19.06	18.35	74.44	57.67
4513	-14.75	-2.50	15.47	14.32	52.64	41.56	34.44	22.89	105.23	20.07	20.82	52.19	33.89	29.71	105.81
4514	-13.80	-2.50	15.47	24.26	50.85	40.59	46.67	24.63	96.16	44.54	24.77	48.24	46.36	38.41	96.45
4515	-12.85	-2.50	15.47	34.49	49.19	39.85	60.83	27.26	92.01	70.39	28.72	44.77	60.66	46.79	92.11
4516	-11.89	-2.50	15.47	45.08	47.72	39.09	76.55	30.97	92.42	96.89	32.16	42.82	76.46	55.20	92.38
4517	-10.94	-2.50	15.47	55.98	46.49	38.52	94.05	35.68	97.59	123.28	34.83	42.90	94.01	63.99	97.49
4518	-9.99	-2.50	15.47	66.61	45.58	38.41	113.37	41.26	108.89	147.71	36.65	46.03	113.35	73.43	108.77
4519	-9.04	-2.50	15.47	75.21	44.80	38.96	133.00	47.35	129.25	165.88	37.49	54.18	133.01	82.43	129.14
4520	-8.09	-2.50	15.47	77.66	43.13	39.01	144.88	52.55	161.56	168.94	36.83	68.65	144.93	85.20	161.51
4521	-7.14	-2.50	15.47	67.19	36.27	33.61	111.58	55.40	181.49	140.65	33.83	67.49	111.71	62.89	181.60
4522	-6.18	-2.50	15.47	85.99	30.43	28.18	118.53	61.01	189.26	175.90	27.24	44.47	118.80	49.31	189.77
4523	-5.23	-2.50	15.47	66.58	22.85	26.97	72.77	76.63	196.96	160.22	24.58	21.68	73.01	70.30	198.09
4524	-4.28	-2.50	15.47	40.86	17.55	21.53	35.35	80.08	169.96	135.05	24.82	16.80	35.36	73.06	171.69
4525	-3.33	-2.50	15.47	29.84	14.78	19.82	26.71	74.03	132.93	124.91	26.23	19.43	26.80	62.97	135.01
4526	-2.38	-2.50	15.47	26.15	13.95	17.79	23.31	68.29	103.19	122.62	28.34	19.00	23.71	54.52	105.54
4527	-1.43	-2.50	15.47	24.85	12.91	15.74	21.91	64.80	78.04	123.40	30.27	17.72	22.68	54.54	80.94
4528	-0.48	-2.50	15.47	24.35	12.01	15.76	21.49	62.98	55.43	125.00	32.26	17.54	22.65	62.86	59.77
4529	-15.06	-3.10	13.78	19.97	53.87	71.62	41.89	38.83	148.83	26.59	16.75	97.92	41.45	49.01	149.49
4530	-14.09	-3.10	13.78	26.23	51.26	69.83	47.07	41.58	141.20	46.18	19.45	86.41	46.70	57.07	141.60
4531	-13.11	-3.10	13.78	32.95	48.91	68.35	53.94	45.45	136.16	66.60	22.85	78.23	53.66	64.13	136.34
4532	-12.14	-3.10	13.78	39.59	46.80	66.67	61.89	50.10	134.52	86.26	26.56	72.55	61.68	69.96	134.53
4533	-11.17	-3.10	13.78	45.79	44.97	64.82	70.12	55.31	136.40	104.00	30.22	69.13	69.97	74.23	136.30
4534	-10.20	-3.10	13.78	50.99	43.39	62.93	77.48	60.73	141.77	118.52	33.53	67.62	77.38	76.00	141.64
4535	-9.23	-3.10	13.78	54.59	41.81	60.85	81.98	65.95	149.98	128.59	36.21	67.03	81.89	73.47	149.86
4536	-8.26	-3.10	13.78	56.78	39.70	57.95	80.74	70.80	158.13	134.81	38.11	64.13	80.67	64.77	158.08
4537	-7.29	-3.10	13.78	61.17	37.22	54.24	79.25	76.03	165.92	146.72	38.54	58.08	79.21	56.55	166.00
4538	-6.31	-3.10	13.78	56.92	33.21	50.07	63.46	80.81	168.91	147.09	38.68	49.26	63.40	50.05	169.20
4539	-5.34	-3.10	13.78	58.07	28.18	46.39	54.49	84.23	163.44	158.59	37.03	42.29	54.43	47.49	164.00
4540	-4.37	-3.10	13.78	52.50	23.56	43.54	40.58	88.51	154.31	163.16	36.84	42.62	40.55	53.75	155.20
4541	-3.40	-3.10	13.78	45.11	20.79	40.30	28.59	90.34	138.38	164.40	38.31	45.66	28.85	58.50	139.61
4542	-2.43	-3.10	13.78	39.73	18.93	37.61	21.42	90.25	119.01	166.03	40.36	47.99	22.45	63.38	120.59
4543	-1.46	-3.10	13.78	36.64	17.94	36.01	17.66	89.58	99.32	169.10	42.82	49.24	19.76	71.57	101.36
4544	-0.49	-3.10	13.78	35.24	17.61	35.38	16.08	88.86	80.41	173.43	45.57	49.25	19.24	83.52	83.23
4545	-15.16	-2.50	13.78	16.28	54.45	71.50	41.76	33.18	149.92	23.59	16.99	98.77	41.47	44.17	150.36
4546	-14.18	-2.50	13.78	22.39	51.87	69.76	47.25	36.73	142.11	44.10	19.84	87.03	47.01	53.54	142.38
4547	-13.21	-2.50	13.78	28.57	49.41	68.29	54.60	40.93	137.19	64.88	23.31	78.69	54.41	61.28	137.31
4548	-12.23	-2.50	13.78	34.50	47.14	66.59	63.05	45.77	135.75	84.71	26.92	72.91	62.91	67.56	135.75
4549	-11.25	-2.50	13.78	39.90	45.03	64.70	71.78	51.05	137.92	102.49	30.28	69.47	71.69	72.10	137.86
4550	-10.27	-2.50	13.78	44.34	43.05	62.74	79.62	56.48	143.67	116.92	33.13	68.02	79.55	73.94	143.58
4551	-9.29	-2.50	13.78	47.36	41.00	60.56	84.43	61.77	152.27	126.76	35.29	67.60	84.38	71.20	152.20
4552	-8.31	-2.50	13.78	49.26	38.51	57.59	83.33	66.84	160.77	132.61	36.77	64.84	83.29	61.66	160.74
4553	-7.34	-2.50	13.78	52.96	35.74	53.78	81.72	71.94	168.72	144.05	36.85	58.55	81.70	51.63	168.78
4554	-6.36	-2.50	13.78	50.01	31.88	49.48	65.85	76.55	171.84	145.66	37.09	49.18	65.82	43.38	172.04
4555	-5.38	-2.50	13.78	50.28	28.12	45.43	54.94	79.68	165.37	156.15	36.89	41.08	54.91	39.28	165.76
4556	-4.40	-2.50	13.78	46.59	24.29	42.05	41.31	82.66	154.99	162.49	37.63	40.47	41.32	44.06	155.59
4557	-3.42	-2.50	13.78	40.82	21.21	38.80	28.53	83.93	139.13	164.68	39.13	43.81	28.80	48.73	139.96
4558	-2.45	-2.50	13.78	36.94	19.04	36.21	21.09	83.69	119.80	166.77	41.18	46.28	21.92	54.21	120.86
4559	-1.47	-2.50	13.78	35.11	17.77	34.56	17.10	83.00	100.20	170.20	43.68	47.19	18.66	63.72	101.55
4560	-0.49	-2.50	13.78	34.66	17.30	33.97	15.36	82.30	81.14	174.82	46.48	46.98	17.59	77.37	83.02
4561	-15.47	-3.10	12.09	21.55	56.78	103.95	46.58	48.12	180.38	29.66	18.49	145.07	46.35	60.56	180.83
4562	-14.47	-3.10	12.09	25.24	53.67	101.21	47.75	52.72	174.21	47.16	19.38	126.20	47.46	67.02	174.52
4563	-13.48	-3.10	12.09	29.33	50.83	98.51	49.95	58.40	169.30	64.86	21.57	111.69	49.66	72.28	169.46
4564	-12.48	-3.10	12.09	33.29	48.15	95.51	52.85	64.44	166.40	81.56	24.52	100.63	52.57	75.47	166.44
4565	-11.48	-3.10	12.09	36.84	45.64	92.15	55.77	70.60	165.50	96.71	27.77	92.22	55.53	76.11	165.47
4566	-10.48	-3.10	12.09	39.85	43.25	88.48	57.96	76.73	166.33	110.00	30.99	85.62	57.74	73.71	166.27
4567	-9.48	-3.10	12.09	42.38	40.91	84.55	58.63	82.70	168.24	121.73	33.95	79.85	58.43	67.98	168.18
4568	-8.49	-3.10	12.09	44.61	38.52	80.36	57.48	88.43	170.48	133.04	36.42	74.38	57.30	59.86	170.46
4569	-7.49	-3.10	12.09	45.63	35.87	75.92	52.96	93.68	171.48	142.77	38.55	69.01	52.79	50.19	171.53
4570	-6.49	-3.10	12.09	47.29	33.07	71.34	47.79	98.32	170.35	155.02	40.14	64.74	47.64	42.65	170.51
4571	-5.49	-3.10	12.09	46.94	30.19	66.81	39.38	102.24	166.41	165.51	41.91	63.15	39.29	40.77	166.72
4572	-4.49	-3.10	12.09	46.63	27.43	62.58	31.64	105.05	158.46	177.13	43.72	64.89	31.79	44.42	158.95
4573	-3.49	-3.10	12.09	45.46	24.81	58.90	24.45	107.06	147.68	187.81	45.85	69.00	25.14	52.71	148.36
4574	-2.50	-3.10	12.09	44.10	22.76	55.82	18.66	108.18	134.57	197.62	48.37	73.02	20.41	63.48	135.50
4575	-1.50	-3.10	12.09	43.31	21.38	53.55	14.84	108.52	120.08	207.28	51.18	75.60	18.18	76.52	121.35
4576	-0.50	-3.10	12.09	43.35	20.80	52.30	12.84	108.24	105.01	217.28	54.24	76.37	18.00	91.87	106.75
4577	-15.58	-2.50	12.09	17.71	57.22	103.88	46.76	42.22	181.74	26.55	18.60	146.60	46.61	55.70	182.04
4578	-14.57	-2.50	12.09	21.57	54.13	101.15	48.04	47.89	175.35	45.17	19.47	127.33	47.85	63.43	175.56
4579	-13.57	-2.50	12.09	25.55	51.18	98.45	50.51	54.14	170.51	63.41	21.67	112.52	50.32	69.37	170.62
4580	-12.56	-2.50	12.09	29.29	48.40	95.43	53.69	60.59	167.71	80.45	24.60	101.23	53.51	73.01	167.74
4581	-11.56	-2.50	12.09	3											



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
4607	-1.54	-3.10	10.41	48.24	24.14	70.19	13.11	131.18	140.07	238.52	55.26	102.37	18.01	79.32	140.84
4608	-0.51	-3.10	10.41	49.87	23.49	68.48	11.30	131.05	128.22	254.45	58.69	104.13	18.72	96.70	129.28
4609	-15.99	-2.50	10.41	19.08	60.00	139.56	50.68	51.26	204.91	29.27	22.71	192.79	50.64	66.15	205.11
4610	-14.96	-2.50	10.41	21.67	56.57	135.28	49.21	59.14	200.04	47.30	21.95	166.95	49.09	72.03	200.18
4611	-13.93	-2.50	10.41	24.56	53.32	130.83	48.60	67.48	195.67	65.05	22.57	145.58	48.42	75.98	195.75
4612	-12.89	-2.50	10.41	27.43	50.25	126.07	48.49	75.75	192.33	81.75	24.26	128.32	48.28	77.50	192.36
4613	-11.86	-2.50	10.41	30.08	47.31	120.96	48.49	83.75	190.08	97.21	26.66	114.67	48.28	76.20	190.07
4614	-10.83	-2.50	10.41	32.44	44.50	115.52	48.16	91.41	188.72	111.52	29.41	104.00	47.94	71.93	188.69
4615	-9.80	-2.50	10.41	34.56	41.79	109.84	47.07	98.68	187.89	124.99	32.28	95.76	46.86	64.86	187.85
4616	-8.77	-2.50	10.41	36.45	39.14	103.99	44.83	105.47	187.00	137.91	35.14	89.57	44.63	55.41	186.98
4617	-7.74	-2.50	10.41	38.31	36.55	98.05	41.53	111.64	185.46	151.21	37.88	85.45	41.36	44.96	185.47
4618	-6.71	-2.50	10.41	39.92	33.99	92.09	36.88	117.04	182.62	164.66	40.59	83.70	36.76	35.85	182.67
4619	-5.67	-2.50	10.41	41.55	31.54	86.25	31.72	121.53	177.92	179.06	43.30	84.57	31.73	32.05	178.02
4620	-4.64	-2.50	10.41	42.99	29.23	80.71	26.17	125.03	171.28	193.82	46.13	87.75	26.45	36.55	171.45
4621	-3.61	-2.50	10.41	44.41	27.16	75.68	21.00	127.52	162.67	209.04	49.10	92.22	21.84	47.28	162.93
4622	-2.58	-2.50	10.41	45.89	25.45	71.43	16.68	129.07	152.46	224.53	52.28	96.73	18.53	61.39	152.82
4623	-1.55	-2.50	10.41	47.59	24.21	68.23	13.46	129.74	141.09	240.33	55.63	100.16	16.86	77.66	141.59
4624	-0.52	-2.50	10.41	49.66	23.54	66.33	11.51	129.63	129.04	256.64	59.10	101.81	16.80	95.84	129.73
4625	-16.31	-3.10	8.72	24.25	62.33	178.71	53.43	65.91	221.04	35.00	27.84	235.09	53.49	80.47	221.24
4626	-15.25	-3.10	8.72	25.78	58.60	172.29	50.45	74.73	217.74	52.00	26.10	203.59	50.36	84.06	217.87
4627	-14.20	-3.10	8.72	27.95	55.22	165.68	47.88	84.28	214.07	69.50	25.40	176.39	47.65	85.84	214.13
4628	-13.15	-3.10	8.72	30.32	52.01	158.85	45.71	93.74	210.83	86.32	25.73	153.77	45.37	85.23	210.82
4629	-12.10	-3.10	8.72	32.64	48.97	151.78	43.71	102.83	208.02	102.16	26.94	135.83	43.30	82.05	207.97
4630	-11.05	-3.10	8.72	34.80	46.08	144.51	41.64	111.46	205.59	117.09	28.82	122.42	41.18	76.35	205.52
4631	-9.99	-3.10	8.72	36.78	43.32	137.09	39.26	119.57	203.33	131.38	31.16	113.24	38.79	68.43	203.25
4632	-8.94	-3.10	8.72	38.63	40.66	129.60	36.44	127.09	200.96	145.46	33.80	107.88	35.99	58.94	200.90
4633	-7.89	-3.10	8.72	40.37	38.10	122.13	33.07	133.93	198.14	159.64	36.63	105.90	32.70	48.94	198.11
4634	-6.84	-3.10	8.72	42.11	35.65	114.77	29.28	139.98	194.55	174.44	39.58	106.85	29.08	40.39	194.56
4635	-5.79	-3.10	8.72	43.84	33.30	107.68	25.14	145.12	189.93	189.97	42.65	110.11	25.30	36.36	189.98
4636	-4.73	-3.10	8.72	45.67	31.14	101.02	21.01	149.28	184.08	206.52	45.85	114.93	21.86	39.48	184.20
4637	-3.68	-3.10	8.72	47.60	29.20	95.05	17.15	152.39	177.04	224.07	49.19	120.45	19.25	48.99	177.24
4638	-2.63	-3.10	8.72	49.77	27.59	90.02	13.89	154.45	168.91	242.75	52.68	125.74	17.98	62.47	169.21
4639	-1.58	-3.10	8.72	52.26	26.38	86.24	11.45	155.46	159.95	262.66	56.28	130.03	18.24	78.44	160.37
4640	-0.53	-3.10	8.72	55.14	25.68	83.98	9.94	155.45	150.44	283.93	59.93	132.72	19.78	96.39	151.04
4641	-16.40	-2.50	8.72	20.61	62.41	178.66	53.92	60.84	222.58	32.01	27.67	237.74	53.97	76.51	222.72
4642	-15.34	-2.50	8.72	22.58	58.74	172.19	50.84	70.78	219.08	50.18	25.90	205.57	50.79	81.07	219.17
4643	-14.29	-2.50	8.72	24.96	55.30	165.54	48.33	80.98	215.44	68.29	25.17	177.75	48.18	83.37	215.48
4644	-13.23	-2.50	8.72	27.51	52.06	158.65	46.22	90.94	212.20	85.52	25.47	154.56	46.00	83.11	212.20
4645	-12.17	-2.50	8.72	29.97	48.99	151.52	44.28	100.43	209.43	101.67	26.66	136.11	44.02	80.11	209.40
4646	-11.11	-2.50	8.72	32.26	46.05	144.17	42.27	109.38	207.05	116.84	28.55	122.25	41.98	74.44	207.01
4647	-10.05	-2.50	8.72	34.38	43.25	136.66	39.94	117.78	204.86	131.32	30.92	112.64	39.64	66.39	204.81
4648	-9.00	-2.50	8.72	36.37	40.57	129.05	37.13	125.55	202.55	145.57	33.59	106.90	36.85	56.56	202.51
4649	-7.94	-2.50	8.72	38.29	37.99	121.44	33.74	132.62	199.77	159.93	36.47	104.59	33.52	46.02	199.75
4650	-6.88	-2.50	8.72	40.23	35.54	113.91	29.90	138.86	196.17	174.92	39.49	105.25	29.78	36.78	196.18
4651	-5.82	-2.50	8.72	42.22	33.21	106.60	25.69	144.16	191.50	190.69	42.63	108.31	25.81	32.40	191.53
4652	-4.76	-2.50	8.72	44.32	31.08	99.69	21.46	148.43	185.57	207.50	45.91	113.00	22.04	36.10	185.65
4653	-3.70	-2.50	8.72	46.58	29.19	93.43	17.48	151.63	178.41	225.37	49.34	118.42	18.90	46.62	178.54
4654	-2.65	-2.50	8.72	49.08	27.62	88.11	14.05	153.74	170.15	244.40	52.91	123.65	16.90	60.99	170.34
4655	-1.59	-2.50	8.72	51.89	26.45	84.06	11.42	154.80	161.02	264.70	56.59	127.88	16.31	77.68	161.29
4656	-0.53	-2.50	8.72	55.08	25.76	81.57	9.71	154.83	151.34	286.42	60.31	130.48	17.04	96.25	151.73
4657	-16.72	-3.10	7.03	25.78	64.35	220.81	56.25	75.57	235.33	37.66	33.34	279.66	56.45	90.66	235.49
4658	-15.64	-3.10	7.03	27.11	60.45	211.78	52.40	86.33	233.17	55.36	31.05	241.46	52.43	93.73	233.23
4659	-14.56	-3.10	7.03	29.09	56.93	202.57	48.77	97.49	230.30	73.64	29.37	207.53	48.61	94.26	230.28
4660	-13.49	-3.10	7.03	31.29	53.61	193.27	45.43	108.39	227.48	91.08	28.42	178.99	45.10	91.95	227.40
4661	-12.41	-3.10	7.03	33.48	50.47	183.93	42.27	118.81	224.74	107.37	28.24	156.58	41.81	87.00	224.64
4662	-11.33	-3.10	7.03	35.52	47.50	174.57	39.16	128.69	222.09	122.60	28.83	140.59	38.61	79.73	221.97
4663	-10.25	-3.10	7.03	37.40	44.66	165.19	35.99	137.97	219.42	137.09	30.11	130.75	35.39	70.66	219.30
4664	-9.17	-3.10	7.03	39.15	41.96	155.84	32.66	146.61	216.58	151.25	31.98	126.31	32.10	60.48	216.47
4665	-8.09	-3.10	7.03	40.86	39.38	146.57	29.17	154.50	213.38	165.61	34.31	126.17	28.73	50.20	213.30
4666	-7.01	-3.10	7.03	42.61	36.93	137.47	25.53	161.53	209.64	180.58	37.02	129.17	25.37	41.49	209.58
4667	-5.93	-3.10	7.03	44.49	34.65	128.70	21.85	167.59	205.19	196.61	40.03	134.20	22.23	36.93	205.17
4668	-4.85	-3.10	7.03	46.58	32.55	120.48	18.28	172.58	199.94	213.99	43.29	140.33	19.64	38.95	199.96
4669	-3.78	-3.10	7.03	48.99	30.69	113.07	15.02	176.42	193.88	233.02	46.76	146.73	18.02	47.17	193.94
4670	-2.70	-3.10	7.03	51.77	29.14	106.81	12.27	179.05	187.07	253.96	50.41	152.72	17.72	59.44	187.18
4671	-1.62	-3.10	7.03	55.03	27.96	102.07	10.22	180.46	179.64	277.08	54.16	157.71	18.76	74.22	179.83
4672	-0.54	-3.10	7.03	58.82	27.23	99.15	8.96	180.64	171.77	302.68	57.95	161.23	20.89	90.89	172.06
4673	-16.82	-2.50	7.03	22.36	64.27	220.71	56.81	71.11	236.84	34.80	33.15	282.68	56.94	87.28	236.95
4674	-15.73	-2.50	7.03	24.17	60.44	211.61	52.81	82.87	234.51	53.64	30.83	243.69	52.83	91.20	234.55
4675	-14.65	-2.50	7.03	26.41	56.89	202.33	49.19	94.61	231.66	72.52	29.11	208.99	49.09	92.14	231.65
4676	-13.56	-2.50	7.03	28.84	53.56	192.96	45.86	105.97	228.83	90.38	28.11	179.71	45.65	90.11	228.79
4677	-12.48	-2.50	7.03	31.22	50.40	183.54	42.71	116.76	226.12	106.98	27.89	156.64	42.41	85.28	226.05
4678	-11.39	-2.50	7.03	33.44	47.40	174.09	39.61	126.95	223.49						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
4705	-17.23	-2.50	5.34	24.64	65.44	265.24	59.49	82.19	249.13	38.57	39.53	329.04	59.70	99.00	249.21
4706	-16.12	-2.50	5.34	26.61	61.56	253.05	55.14	95.48	247.73	58.59	36.95	281.85	55.23	102.92	247.73
4707	-15.01	-2.50	5.34	28.91	57.94	240.69	50.93	108.36	245.56	78.16	34.48	238.99	50.86	102.28	245.50
4708	-13.90	-2.50	5.34	31.27	54.56	228.52	46.85	120.72	243.20	96.29	32.36	203.07	46.65	97.95	243.11
4709	-12.78	-2.50	5.34	33.44	51.34	216.66	42.90	132.53	240.78	112.58	30.70	175.51	42.58	90.63	240.67
4710	-11.67	-2.50	5.34	35.33	48.29	205.08	39.03	143.83	238.31	127.23	29.66	156.87	38.64	81.18	238.19
4711	-10.56	-2.50	5.34	36.99	45.37	193.67	35.21	154.59	235.75	140.74	29.37	146.63	34.79	70.43	235.64
4712	-9.45	-2.50	5.34	38.51	42.58	182.34	31.41	164.72	232.99	153.78	29.87	143.30	31.03	59.24	232.89
4713	-8.34	-2.50	5.34	40.03	39.95	171.08	27.61	174.07	229.91	166.99	31.12	144.93	27.35	48.63	229.83
4714	-7.23	-2.50	5.34	41.66	37.47	159.95	23.85	182.48	226.39	181.00	33.04	149.67	23.83	40.13	226.32
4715	-6.11	-2.50	5.34	43.54	35.17	149.12	20.16	189.81	222.32	196.34	35.53	156.11	20.61	35.93	222.27
4716	-5.00	-2.50	5.34	45.79	33.09	138.86	16.66	195.91	217.64	213.51	38.47	163.21	17.94	37.75	217.61
4717	-3.89	-2.50	5.34	48.51	31.26	129.53	13.46	200.70	212.34	232.93	41.78	170.25	16.13	44.93	212.33
4718	-2.78	-2.50	5.34	51.78	29.73	121.56	10.71	204.10	206.46	255.04	45.36	176.66	15.49	55.47	206.46
4719	-1.67	-2.50	5.34	55.69	28.57	115.44	8.58	206.06	200.08	280.29	49.12	182.04	16.10	67.98	200.10
4720	-0.56	-2.50	5.34	60.31	27.84	111.61	7.19	206.55	193.32	309.16	52.94	186.02	17.77	81.89	193.37
4721	14.34	-2.50	17.16	8.06	58.12	11.96	17.36	3.40	12.39	7.62	88.59	12.34	18.14	5.33	15.29
4722	13.41	-2.50	17.16	19.87	58.63	12.97	36.71	4.03	6.74	14.18	103.33	18.87	36.62	7.26	12.39
4723	12.49	-2.50	17.16	31.62	58.88	13.31	56.80	5.90	4.66	19.72	114.31	20.84	56.65	20.77	11.40
4724	11.56	-2.50	17.16	44.14	59.02	13.38	78.63	8.47	4.43	36.86	120.67	20.77	78.63	35.60	10.73
4725	10.64	-2.50	17.16	58.68	59.29	13.45	104.18	11.57	6.31	69.32	121.82	20.68	104.40	50.84	10.77
4726	9.71	-2.50	17.16	76.98	59.91	13.76	136.62	15.75	12.16	116.22	117.06	22.08	137.12	67.85	14.24
4727	8.79	-2.50	17.16	100.91	60.84	14.58	181.53	22.40	26.67	177.92	105.17	27.08	182.42	90.30	27.41
4728	7.86	-2.50	17.16	132.61	61.82	15.60	250.70	33.85	66.60	256.10	84.76	38.58	252.32	125.09	67.08
4729	6.94	-2.50	17.16	174.32	66.26	10.40	378.07	53.22	216.62	351.94	63.99	76.56	381.69	184.81	218.63
4730	6.01	-2.50	17.16	40.33	19.15	28.25	76.87	96.14	316.75	90.42	22.84	80.99	79.10	213.32	320.90
4731	5.09	-2.50	17.16	16.53	43.09	14.64	18.44	87.26	192.93	19.76	46.76	43.37	25.53	146.42	199.20
4732	4.16	-2.50	17.16	11.45	93.85	12.21	25.55	59.38	99.02	30.93	94.16	12.41	39.36	111.83	109.48
4733	3.24	-2.50	17.16	12.25	91.94	15.68	35.03	42.98	64.07	54.56	91.94	17.59	48.95	83.98	76.04
4734	2.31	-2.50	17.16	14.12	67.73	13.81	39.31	36.52	38.79	69.25	67.76	16.12	50.74	65.69	51.81
4735	1.39	-2.50	17.16	14.44	37.48	10.15	40.99	34.38	18.53	77.86	37.70	12.40	48.56	52.32	34.51
4736	0.46	-2.50	17.16	14.84	5.38	5.99	41.73	34.00	12.27	82.40	7.34	8.12	45.40	42.10	28.09
4737	14.22	-3.10	17.16	9.23	56.87	12.10	18.01	3.69	12.80	8.52	85.78	12.44	19.08	4.74	16.85
4738	13.31	-3.10	17.16	21.46	57.65	13.04	36.15	4.33	7.32	15.84	100.12	18.57	35.96	8.12	14.58
4739	12.39	-3.10	17.16	34.04	58.66	13.37	55.43	6.33	5.23	23.63	110.96	20.46	55.18	21.26	13.64
4740	11.47	-3.10	17.16	47.94	59.93	13.45	76.43	9.09	4.88	42.31	117.71	20.40	76.42	35.62	12.79
4741	10.55	-3.10	17.16	64.71	61.81	13.56	101.03	12.59	6.46	75.43	119.91	20.34	101.36	50.41	12.36
4742	9.64	-3.10	17.16	86.52	64.81	13.97	132.39	17.59	11.91	123.14	117.38	21.72	133.11	67.04	14.87
4743	8.72	-3.10	17.16	116.30	68.76	15.07	176.95	25.98	26.10	186.78	109.16	26.60	178.25	89.27	27.17
4744	7.80	-3.10	17.16	155.42	73.38	16.49	246.56	40.68	66.42	266.94	94.72	37.37	248.94	123.87	67.14
4745	6.88	-3.10	17.16	208.89	81.95	10.98	375.54	65.48	217.70	367.47	81.61	70.41	380.90	182.50	220.79
4746	5.97	-3.10	17.16	48.14	25.66	31.96	76.90	118.03	316.53	96.86	30.78	70.59	79.85	221.18	322.82
4747	5.05	-3.10	17.16	17.04	66.34	12.85	22.22	110.11	203.56	38.38	66.89	53.36	41.38	178.74	214.76
4748	4.13	-3.10	17.16	18.90	138.23	13.90	49.57	91.07	123.52	54.48	138.65	40.58	75.18	149.07	143.41
4749	3.21	-3.10	17.16	17.45	121.75	14.88	60.86	80.88	82.23	61.45	123.56	38.19	84.52	125.35	103.45
4750	2.29	-3.10	17.16	14.00	88.56	14.61	65.46	77.47	52.17	64.92	92.11	32.47	83.43	108.11	74.70
4751	1.38	-3.10	17.16	10.33	48.96	14.34	67.52	76.65	28.80	66.95	55.65	26.90	78.53	94.52	54.25
4752	0.46	-3.10	17.16	8.58	8.02	14.23	68.93	76.99	17.61	68.02	27.33	22.66	73.77	84.46	44.02
4753	14.75	-2.50	15.47	6.90	56.95	35.98	14.07	10.48	22.58	7.45	66.74	43.51	12.83	18.75	31.75
4754	13.80	-2.50	15.47	14.83	55.24	39.30	26.73	14.18	14.64	22.31	75.91	66.66	26.20	44.86	28.00
4755	12.85	-2.50	15.47	23.10	53.73	40.81	41.69	18.83	10.22	44.60	83.87	76.22	41.53	73.59	26.30
4756	11.89	-2.50	15.47	31.82	52.47	41.18	58.13	24.04	8.83	71.48	89.97	77.45	58.21	102.74	25.05
4757	10.94	-2.50	15.47	40.94	51.50	41.09	76.11	29.61	10.52	100.89	93.42	75.93	76.38	130.55	24.16
4758	9.99	-2.50	15.47	49.97	50.86	41.12	95.66	35.54	17.71	129.86	93.65	75.94	96.15	155.94	26.47
4759	9.04	-2.50	15.47	57.47	50.28	41.62	115.50	41.87	33.78	153.29	90.17	81.11	116.31	177.55	38.35
4760	8.09	-2.50	15.47	60.19	48.56	41.66	128.52	48.00	61.45	161.79	82.78	93.89	129.92	190.10	64.37
4761	7.14	-2.50	15.47	52.78	41.48	36.73	101.33	52.19	79.35	138.42	74.83	94.62	103.50	173.05	82.49
4762	6.18	-2.50	15.47	66.78	35.18	28.87	109.27	57.09	87.71	166.38	62.21	71.31	113.00	147.95	92.55
4763	5.23	-2.50	15.47	53.15	26.30	24.59	68.75	68.50	96.36	161.46	51.97	38.02	73.50	151.86	104.08
4764	4.28	-2.50	15.47	34.87	19.87	25.91	35.38	71.34	73.52	141.19	46.35	26.09	40.18	146.30	85.04
4765	3.33	-2.50	15.47	28.30	14.82	28.01	27.19	67.45	41.23	131.98	41.73	26.22	30.84	131.75	57.27
4766	2.38	-2.50	15.47	26.04	12.66	26.38	23.69	63.91	16.04	128.68	38.51	25.25	26.46	112.48	37.98
4767	1.43	-2.50	15.47	24.94	11.77	22.58	22.10	62.31	14.16	127.39	36.14	22.29	24.20	93.46	32.38
4768	0.48	-2.50	15.47	24.38	11.60	18.47	21.54	62.17	34.09	126.39	34.20	19.25	23.12	76.52	42.24
4769	14.64	-3.10	15.47	7.88	56.05	36.40	14.71	11.32	23.67	8.44	65.06	43.58	12.93	20.93	36.21
4770	13.70	-3.10	15.47	16.11	54.44	39.57	26.46	15.04	16.00	23.51	74.09	65.49	25.64	46.31	33.31
4771	12.75	-3.10	15.47	25.00	53.36	41.02	40.69	19.77	11.68	45.81	81.89	74.60	40.45	74.15	31.85
4772	11.81	-3.10	15.47	34.62	52.76	41.40	56.40	25.19	10.17	72.55	88.14	75.75	56.52	102.27	30.39
4773	10.86	-3.10	15.47	44.93	52.80	41.41	73.61	31.17	11.38	101.77	92.13	74.30	74.03	129.01	28.91
4774	9.92	-3.10	15.47	55.44	53.56	41.66	92.42	37.84	17.74	130.65	93.42	74.30	93.14	153.40	29.86
4775	8.97	-3.10	15.47	64.50	54.74	42.58	111.61	45.29	33.00	154.30	91.76	79.13	112.79	174.15	39.74
4776	8.03	-3.10	15.47	68.41	54.71	43.25	124.55	52.74	60.08	163.82	86.65	90.70	126.58	186.34	64.44
4777	7.08	-3.10	15.47	59.35	47.69	38.31	98.01								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]
4803	13.11	-3.10	13.78	20.26	53.57	70.87	29.00	34.36	12.18	67.05	65.38	151.94	30.64	137.61	43.28
4804	12.14	-3.10	13.78	27.23	51.24	71.01	38.85	41.12	10.96	99.22	71.65	150.19	40.90	172.19	41.81
4805	11.17	-3.10	13.78	33.94	49.27	69.84	48.83	47.59	10.30	130.23	76.65	140.59	51.11	199.45	39.47
4806	10.20	-3.10	13.78	39.78	47.64	68.02	57.98	53.76	9.49	156.61	79.98	128.57	60.50	218.24	36.55
4807	9.23	-3.10	13.78	44.16	46.09	65.72	64.56	59.58	10.59	175.58	81.45	116.84	67.44	226.89	34.34
4808	8.26	-3.10	13.78	47.16	44.09	62.41	66.00	64.98	14.13	186.73	81.23	103.63	69.48	223.49	33.96
4809	7.29	-3.10	13.78	51.15	41.75	58.21	67.05	70.34	19.16	198.47	78.68	88.44	71.35	213.10	36.13
4810	6.31	-3.10	13.78	49.08	37.74	53.23	54.96	75.22	21.17	198.23	75.17	70.64	60.09	197.18	37.82
4811	5.34	-3.10	13.78	49.95	32.31	47.92	48.44	78.87	16.51	203.84	69.29	52.36	54.31	177.60	36.05
4812	4.37	-3.10	13.78	46.41	26.68	43.10	36.91	82.87	9.51	203.06	63.47	39.64	43.52	163.34	34.11
4813	3.40	-3.10	13.78	41.72	23.20	40.36	26.65	85.21	9.15	197.69	59.10	38.66	33.20	148.75	33.26
4814	2.43	-3.10	13.78	38.29	20.48	38.42	20.43	86.30	25.47	190.98	55.15	42.02	26.35	132.22	39.07
4815	1.46	-3.10	13.78	36.17	18.81	36.70	17.17	87.13	43.82	184.51	51.68	45.36	22.24	114.83	51.21
4816	0.49	-3.10	13.78	35.14	17.90	35.60	15.93	88.03	62.15	178.63	48.52	47.89	20.07	98.26	66.47
4817	15.58	-2.50	12.09	7.81	64.49	94.64	9.64	28.64	16.16	30.27	38.61	218.10	13.54	88.63	45.94
4818	14.57	-2.50	12.09	13.17	60.53	100.87	14.92	39.66	11.78	61.92	44.79	253.68	20.56	159.43	45.57
4819	13.57	-2.50	12.09	20.77	56.83	102.92	20.96	49.40	13.74	105.93	51.54	259.92	27.23	218.75	45.06
4820	12.56	-2.50	12.09	28.51	53.25	101.51	27.11	57.61	17.82	151.00	58.61	243.69	33.43	261.60	44.49
4821	11.56	-2.50	12.09	35.81	49.84	97.89	32.91	64.55	21.12	193.16	65.03	214.94	38.94	288.36	43.44
4822	10.55	-2.50	12.09	41.96	46.57	93.05	37.78	70.54	22.94	227.30	70.40	181.58	43.50	299.71	41.85
4823	9.55	-2.50	12.09	46.74	43.42	87.70	41.10	75.96	23.52	251.52	74.35	149.03	46.68	297.87	39.87
4824	8.54	-2.50	12.09	50.26	40.37	82.21	42.60	81.06	23.41	266.85	76.53	119.98	48.20	286.03	37.86
4825	7.54	-2.50	12.09	52.28	37.27	76.68	40.87	85.89	23.90	273.62	77.16	95.02	46.71	266.64	36.65
4826	6.53	-2.50	12.09	53.70	34.20	71.17	38.18	90.29	25.97	276.33	76.12	74.81	44.29	242.88	36.96
4827	5.53	-2.50	12.09	53.61	30.99	65.88	32.59	94.15	30.18	274.12	73.93	61.42	39.09	218.14	39.32
4828	4.52	-2.50	12.09	52.69	27.98	61.05	26.92	97.31	37.78	269.21	70.94	56.86	33.62	193.39	44.81
4829	3.52	-2.50	12.09	50.91	25.31	56.82	21.58	99.82	48.20	261.70	67.67	59.46	28.27	170.29	53.28
4830	2.51	-2.50	12.09	48.56	23.14	53.55	17.13	101.79	60.90	251.95	64.30	64.89	23.53	148.54	64.44
4831	1.51	-2.50	12.09	46.23	21.57	51.38	14.33	103.32	75.22	241.00	60.88	69.77	20.08	127.69	77.64
4832	0.50	-2.50	12.09	44.28	20.71	50.34	13.19	104.45	90.36	229.86	57.49	72.89	17.94	107.80	92.02
4833	15.47	-3.10	12.09	8.39	64.10	95.67	10.72	29.53	18.83	32.28	37.94	214.35	15.69	91.07	55.59
4834	14.47	-3.10	12.09	13.78	60.07	101.57	15.44	40.46	14.60	63.35	44.12	247.84	23.33	159.64	55.67
4835	13.48	-3.10	12.09	21.32	56.47	103.45	20.98	50.11	15.72	106.43	50.87	253.27	29.90	217.07	54.80
4836	12.48	-3.10	12.09	28.99	53.00	102.04	26.71	58.29	19.11	150.35	58.03	237.22	35.89	258.33	53.52
4837	11.48	-3.10	12.09	36.21	49.77	98.54	32.13	65.28	22.09	191.36	64.52	209.25	41.04	283.95	51.63
4838	10.48	-3.10	12.09	42.30	46.74	93.90	36.68	71.36	23.82	224.60	69.95	176.87	45.24	294.61	49.23
4839	9.48	-3.10	12.09	47.02	43.88	88.78	39.78	76.92	24.41	248.28	73.95	145.34	48.15	292.54	46.56
4840	8.49	-3.10	12.09	50.48	41.11	83.53	41.15	82.18	24.34	263.39	76.23	117.36	49.55	280.91	43.98
4841	7.49	-3.10	12.09	52.33	38.21	78.18	39.39	87.17	24.85	270.10	76.95	93.54	48.10	262.00	42.23
4842	6.49	-3.10	12.09	53.67	35.24	72.83	36.83	91.80	26.80	273.08	75.98	74.79	45.89	239.13	41.94
4843	5.49	-3.10	12.09	53.28	32.21	67.67	31.13	95.96	30.92	270.66	74.07	62.96	40.63	215.27	43.66
4844	4.49	-3.10	12.09	52.27	29.28	62.91	25.68	99.36	38.48	266.02	71.33	59.40	35.29	191.26	48.37
4845	3.49	-3.10	12.09	50.37	26.37	58.66	20.40	102.19	48.67	258.64	68.07	62.21	29.94	169.01	55.91
4846	2.50	-3.10	12.09	48.05	23.96	55.42	16.15	104.44	61.13	249.11	64.63	67.53	25.25	148.10	66.23
4847	1.50	-3.10	12.09	45.89	22.13	53.27	13.51	106.18	75.08	238.53	61.07	72.25	21.70	128.13	78.62
4848	0.50	-3.10	12.09	44.25	21.06	52.21	12.43	107.44	89.86	227.75	57.56	75.27	19.27	109.23	92.32
4849	15.99	-2.50	10.41	9.59	70.11	132.86	9.11	40.08	13.15	44.75	44.96	378.90	23.50	145.54	59.52
4850	14.96	-2.50	10.41	19.16	65.92	139.58	12.83	55.35	17.15	114.39	40.88	414.50	29.16	254.20	58.14
4851	13.93	-2.50	10.41	29.79	61.59	139.24	16.59	67.72	25.39	181.40	40.44	395.88	34.03	333.63	56.89
4852	12.89	-2.50	10.41	41.90	57.44	134.05	19.91	77.21	33.42	254.14	44.16	345.41	36.26	382.98	56.53
4853	11.86	-2.50	10.41	52.07	53.25	126.18	22.72	83.92	40.18	312.38	50.81	280.63	37.62	399.63	57.55
4854	10.83	-2.50	10.41	59.39	49.13	117.77	24.90	89.22	45.55	351.61	58.48	218.01	38.60	393.47	59.06
4855	9.80	-2.50	10.41	64.01	45.19	109.73	26.26	94.16	49.82	373.49	65.47	164.80	39.13	373.35	60.55
4856	8.77	-2.50	10.41	66.43	41.49	102.31	26.55	99.22	53.52	381.49	70.85	123.50	38.89	345.26	62.11
4857	7.74	-2.50	10.41	67.26	38.04	95.48	25.83	104.42	57.23	379.76	74.26	94.97	37.82	313.28	64.09
4858	6.71	-2.50	10.41	66.79	34.84	89.15	23.83	109.55	61.63	371.11	75.81	79.50	35.63	280.07	67.06
4859	5.67	-2.50	10.41	65.48	31.94	83.29	21.23	114.35	67.32	358.46	75.74	75.73	32.80	247.37	71.55
4860	4.64	-2.50	10.41	63.42	29.33	77.93	18.12	118.59	74.49	343.15	74.43	79.62	29.41	216.50	77.73
4861	3.61	-2.50	10.41	60.84	27.09	73.26	15.18	122.17	83.29	326.40	72.17	86.53	25.97	187.89	85.72
4862	2.58	-2.50	10.41	57.94	25.32	69.52	12.82	125.06	93.50	308.87	69.30	93.34	22.80	161.72	95.30
4863	1.55	-2.50	10.41	54.96	24.10	67.00	11.30	127.26	104.79	291.11	66.05	98.46	20.08	137.80	106.11
4864	0.52	-2.50	10.41	52.14	23.50	65.91	10.82	128.79	116.78	273.59	62.61	101.30	18.01	115.88	117.74
4865	15.89	-3.10	10.41	10.15	70.08	133.97	10.74	40.91	16.39	47.75	45.50	370.62	28.55	147.72	72.08
4866	14.86	-3.10	10.41	19.69	65.65	140.29	14.07	55.93	19.37	116.17	40.61	404.27	35.30	252.99	70.39
4867	13.84	-3.10	10.41	30.11	61.27	139.80	17.39	68.11	26.71	181.46	40.16	385.77	40.51	329.74	67.93
4868	12.81	-3.10	10.41	41.92	57.07	134.68	20.30	77.52	34.28	252.17	44.21	336.68	42.59	377.38	65.89
4869	11.79	-3.10	10.41	51.83	52.90	127.00	22.77	84.27	40.78	308.82	51.09	273.73	43.56	393.29	65.33
4870	10.76	-3.10	10.41	58.97	48.88	118.81	24.68	89.67	46.01	346.97	58.77	212.92	44.12	386.98	65.50
4871	9.74	-3.10	10.41	63.48	45.07	111.00	25.86	94.72	50.20	368.25	65.63	161.44	44.27	367.07	65.88
4872	8.71	-3.10	10.41	65.80	41.52	103.80	26.02	99.88	53.86	376.03	70.84	121.86	43.71	339.44	66.51
4873	7.69	-3.10	10.41	66.57	38.22	97.18	25.26	105.16	57.54	374.38	74.08	95.14	42.40	308.12	67.70
4874	6.66	-3.10	10.41	66.04	35.12	91.04	23.25	110.36	61.90	365.94	75.52	81.34	40.00	275.65	69.98
4875	5.64	-3.10	10.41												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
4901	12.10	-3.10	8.72	85.43	58.50	152.16	18.89	103.86	61.42	522.51	42.74	308.93	48.69	520.91	78.25
4902	11.05	-3.10	8.72	90.42	53.12	140.59	18.70	106.89	69.18	544.35	46.71	218.55	47.35	478.40	82.33
4903	9.99	-3.10	8.72	91.50	48.17	130.89	18.38	111.10	75.65	542.76	55.32	153.90	46.47	430.06	86.16
4904	8.94	-3.10	8.72	90.09	43.73	122.53	17.81	116.53	81.36	526.78	63.45	113.73	45.36	381.78	89.73
4905	7.89	-3.10	8.72	87.19	39.79	115.07	16.88	122.73	86.82	502.48	69.40	96.24	43.66	336.07	93.37
4906	6.84	-3.10	8.72	83.46	36.33	108.26	15.65	129.14	92.44	474.07	72.92	95.55	41.32	293.93	97.50
4907	5.79	-3.10	8.72	79.28	33.32	101.97	14.14	135.30	98.59	444.03	74.33	102.98	38.42	255.68	102.43
4908	4.73	-3.10	8.72	74.92	30.75	96.24	12.58	140.87	105.52	414.06	74.04	112.40	35.16	221.25	108.39
4909	3.68	-3.10	8.72	70.53	28.65	91.23	11.15	145.65	113.29	384.97	72.49	120.96	31.73	190.47	115.42
4910	2.63	-3.10	8.72	66.24	27.05	87.23	10.04	149.53	121.87	357.27	70.03	127.51	28.32	162.98	123.44
4911	1.58	-3.10	8.72	62.18	26.00	84.53	9.39	152.47	131.10	331.18	66.97	131.66	25.09	138.39	132.24
4912	0.53	-3.10	8.72	58.45	25.55	83.40	9.30	154.45	140.71	306.74	63.54	133.35	22.17	116.30	141.55
4913	16.82	-2.50	7.03	12.05	86.56	253.03	17.79	78.74	8.50	46.55	167.38	1114.55	82.17	421.84	125.17
4914	15.73	-2.50	7.03	99.92	91.19	249.41	24.40	135.50	29.62	639.60	206.75	1019.33	59.88	845.39	67.32
4915	14.65	-2.50	7.03	135.28	84.38	210.35	23.19	133.03	52.45	841.84	160.73	665.61	44.54	814.83	66.31
4916	13.56	-2.50	7.03	146.06	76.09	185.35	19.90	123.76	69.74	891.55	112.26	432.88	37.14	715.13	77.57
4917	12.48	-2.50	7.03	145.29	67.73	168.74	16.90	118.53	82.58	874.95	72.21	280.01	34.99	613.95	88.48
4918	11.39	-2.50	7.03	139.18	60.01	156.78	14.73	118.93	92.45	829.13	48.56	181.71	35.54	525.09	97.35
4919	10.31	-2.50	7.03	130.77	53.20	147.21	13.25	123.66	100.47	771.10	45.47	125.28	36.75	449.63	104.54
4920	9.22	-2.50	7.03	121.57	47.36	138.85	12.17	130.92	107.40	709.30	53.29	104.41	37.40	385.85	110.69
4921	8.14	-2.50	7.03	112.38	42.41	131.08	11.26	139.28	113.80	648.22	61.67	107.39	37.03	331.71	116.38
4922	7.05	-2.50	7.03	103.59	38.26	123.66	10.38	147.74	120.09	590.20	67.53	119.40	35.66	285.45	122.04
4923	5.97	-2.50	7.03	95.37	34.82	116.59	9.52	155.69	126.54	536.38	70.64	132.29	33.51	245.62	127.98
4924	4.88	-2.50	7.03	87.77	32.05	110.01	8.72	162.77	133.35	487.21	71.46	143.25	30.87	211.09	134.40
4925	3.80	-2.50	7.03	80.79	29.90	104.22	8.03	168.76	140.61	442.71	70.56	151.55	27.98	180.95	141.36
4926	2.71	-2.50	7.03	74.42	28.35	99.59	7.53	173.56	148.29	402.63	68.42	157.13	25.03	154.46	148.83
4927	1.63	-2.50	7.03	68.64	27.41	96.55	7.30	177.12	156.32	366.64	65.46	160.11	22.18	130.97	156.70
4928	0.54	-2.50	7.03	63.45	27.06	95.45	7.48	179.42	164.54	334.33	61.99	160.68	19.60	109.97	164.81
4929	16.72	-3.10	7.03	12.88	88.55	252.99	21.44	79.29	10.70	52.80	171.60	1085.89	101.16	421.58	152.70
4930	15.64	-3.10	7.03	99.36	91.69	249.26	26.00	134.33	32.19	634.71	205.00	997.16	74.50	835.42	81.96
4931	14.56	-3.10	7.03	134.15	84.29	211.15	23.94	132.24	54.49	834.18	157.10	652.74	54.38	806.40	74.46
4932	13.49	-3.10	7.03	144.78	75.55	186.56	20.56	123.46	71.13	883.26	107.38	424.77	45.66	708.07	83.03
4933	12.41	-3.10	7.03	143.94	66.95	170.18	17.77	118.59	83.43	866.29	67.77	275.21	43.78	607.67	92.62
4934	11.33	-3.10	7.03	137.78	59.18	158.36	15.87	119.22	92.91	820.12	46.69	179.68	44.92	519.31	100.59
4935	10.25	-3.10	7.03	129.34	52.45	148.93	14.61	124.05	100.64	761.89	46.34	125.94	46.43	444.33	107.03
4936	9.17	-3.10	7.03	120.15	46.76	140.70	13.65	131.33	107.40	700.20	54.78	107.11	46.98	381.08	112.53
4937	8.09	-3.10	7.03	111.01	41.97	133.08	12.78	139.65	113.68	639.55	62.80	110.80	46.20	327.54	117.67
4938	7.01	-3.10	7.03	102.30	37.96	125.84	11.90	148.06	119.87	582.19	68.13	122.75	44.22	281.88	122.88
4939	5.93	-3.10	7.03	94.19	34.64	118.94	11.02	155.95	126.24	529.20	70.81	135.38	41.37	242.64	128.46
4940	4.85	-3.10	7.03	86.73	31.93	112.54	10.16	162.98	132.96	480.91	71.35	146.07	37.98	208.66	134.58
4941	3.78	-3.10	7.03	79.91	29.82	106.91	9.41	168.93	140.11	437.27	70.27	154.16	34.32	179.04	141.27
4942	2.70	-3.10	7.03	73.72	28.30	102.40	8.82	173.71	147.69	398.01	68.06	159.57	30.62	153.02	148.52
4943	1.62	-3.10	7.03	68.15	27.37	99.40	8.45	177.26	155.60	362.76	65.09	162.42	27.05	129.98	156.18
4944	0.54	-3.10	7.03	63.18	27.02	98.26	8.43	179.57	163.69	331.13	61.65	162.89	23.74	109.41	164.10
4945	17.23	-2.50	5.34	359.90	153.27	435.31	78.52	278.86	39.20	2245.20	664.71	2423.10	82.48	1788.97	99.89
4946	16.12	-2.50	5.34	334.04	122.41	256.96	57.50	190.17	36.71	2001.36	417.73	964.76	56.50	1189.75	60.24
4947	15.01	-2.50	5.34	291.32	105.24	215.31	38.89	141.96	72.52	1707.02	290.27	537.40	37.82	859.01	81.61
4948	13.90	-2.50	5.34	252.73	90.74	195.74	25.71	121.07	93.15	1468.26	195.29	317.02	25.84	662.44	98.89
4949	12.78	-2.50	5.34	220.22	78.01	184.08	17.29	117.71	106.87	1275.69	123.50	192.90	22.76	533.85	111.08
4950	11.67	-2.50	5.34	193.02	67.07	175.24	12.57	123.72	117.05	1116.01	73.60	128.56	26.59	442.07	120.30
4951	10.56	-2.50	5.34	170.10	57.95	167.32	10.36	133.93	125.30	980.31	48.19	110.80	31.76	372.37	127.81
4952	9.45	-2.50	5.34	150.61	50.51	159.52	9.46	145.55	132.49	863.38	46.28	120.07	35.38	317.24	134.39
4953	8.34	-2.50	5.34	133.95	44.49	151.57	9.01	157.18	139.15	762.06	53.60	136.86	36.86	272.37	140.53
4954	7.23	-2.50	5.34	119.64	39.64	143.47	8.63	168.10	145.58	674.09	60.28	152.88	36.47	235.08	146.57
4955	6.11	-2.50	5.34	107.28	35.77	135.41	8.22	177.91	152.00	597.70	64.21	165.96	34.75	203.55	152.69
4956	5.00	-2.50	5.34	96.56	32.74	127.72	7.77	186.40	158.55	531.36	65.58	175.84	32.20	176.49	159.02
4957	3.89	-2.50	5.34	87.22	30.46	120.84	7.29	193.45	165.28	473.75	64.98	182.72	29.22	152.97	165.60
4958	2.78	-2.50	5.34	79.06	28.87	115.31	6.85	199.00	172.20	423.68	63.01	186.92	26.08	132.25	172.41
4959	1.67	-2.50	5.34	71.92	27.94	111.65	6.54	203.03	179.25	380.14	60.12	188.71	23.00	113.78	179.38
4960	0.56	-2.50	5.34	65.70	27.61	110.34	6.56	205.55	186.33	342.22	56.67	188.33	20.16	97.10	186.42
4961	17.14	-3.10	5.34	357.17	153.72	431.55	76.16	276.11	34.07	2233.57	659.09	2375.24	92.42	1776.15	135.70
4962	16.03	-3.10	5.34	331.18	122.99	257.41	54.88	188.63	39.88	1988.12	416.65	945.66	54.58	1182.06	77.05
4963	14.93	-3.10	5.34	289.07	105.60	216.43	36.88	141.42	74.60	1696.45	287.53	524.95	36.17	854.08	89.08
4964	13.82	-3.10	5.34	250.88	90.53	197.15	24.54	121.19	94.51	1459.25	189.95	309.72	26.52	658.66	103.30
4965	12.72	-3.10	5.34	218.60	77.31	185.62	17.21	118.15	107.67	1267.17	116.92	189.83	27.71	530.54	114.13
4966	11.61	-3.10	5.34	191.47	66.13	176.88	13.62	124.26	117.44	1107.19	68.21	129.33	34.82	438.92	122.47
4967	10.50	-3.10	5.34	168.54	57.03	169.07	12.20	134.43	125.39	971.02	46.57	114.02	41.59	369.35	129.30
4968	9.40	-3.10	5.34	149.05	49.75	161.40	11.64	145.95	132.38	853.93	47.62	123.78	45.67	314.42	135.34
4969	8.29	-3.10	5.34	132.44	43.93	153.61	11.25	157.47	138.89	752.89	55.28	140.27	46.90	269.83	141.05
4970	7.19	-3.10	5.34	118.23	39.27	145.70	10.81	168.28	145.21	665.58	61.45	155.92	45.90	232.85	146.74
4971	6.08	-3.10	5.34	106.01	35.55	137.85	10.28	177.99	151.53	590.07	64.84	168.71	43.37	201	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
4999	-5.73	-5.07	17.16	107.51	56.54	65.38	72.96	248.91	384.25	144.65	55.78	69.62	73.03	284.02	387.40
5000	-6.61	-5.08	17.16	474.20	160.02	16.88	382.12	135.06	265.94	592.53	156.37	52.46	382.77	178.29	266.58
5001	-7.49	-5.08	17.16	313.68	118.88	16.57	213.60	73.60	90.95	412.04	114.80	27.60	213.32	100.39	90.64
5002	-8.37	-5.09	17.16	228.69	77.49	15.13	155.54	46.46	51.97	308.85	70.85	19.91	155.47	64.32	51.73
5003	-9.25	-5.09	17.16	171.94	60.31	13.58	121.09	32.90	39.02	235.51	51.58	15.52	121.09	45.84	38.70
5004	-10.13	-5.09	17.16	130.65	51.81	13.01	97.17	25.45	33.61	178.71	40.86	13.87	97.12	35.58	33.29
5005	-11.01	-5.10	17.16	98.35	48.24	12.95	78.59	21.08	31.45	132.00	34.87	13.50	78.38	29.25	31.25
5006	-11.90	-5.10	17.16	71.49	47.40	13.11	62.91	18.49	31.43	92.11	31.30	13.81	62.33	24.75	31.49
5007	-12.78	-5.11	17.16	47.76	48.36	13.36	48.57	17.12	33.61	57.29	29.33	14.57	47.26	21.15	34.17
5008	-13.66	-5.11	17.16	25.59	51.02	13.69	34.50	16.86	39.41	26.89	29.77	15.10	31.65	18.62	40.93
5009	-0.43	-6.15	17.16	35.45	8.80	20.51	2.04	143.14	21.09	60.14	32.37	25.32	12.22	142.30	41.27
5010	-1.28	-6.16	17.16	130.18	20.14	35.28	19.91	172.64	57.21	134.98	27.49	38.27	34.62	171.68	74.07
5011	-2.13	-6.16	17.16	18.03	6.34	22.01	1.65	215.42	108.56	48.02	12.62	25.03	4.59	216.27	121.73
5012	-2.99	-6.16	17.16	137.70	13.51	16.15	49.95	193.96	119.36	161.57	17.93	17.96	51.67	197.64	126.54
5013	-3.84	-6.17	17.16	26.22	23.62	34.52	19.65	207.06	158.31	56.48	23.47	36.64	19.66	214.46	164.04
5014	-4.69	-6.17	17.16	28.32	8.77	60.01	29.63	261.41	275.36	54.85	6.72	60.26	29.99	276.16	281.69
5015	-5.54	-6.18	17.16	303.32	271.24	64.67	86.34	242.12	337.86	355.82	272.45	66.26	86.36	264.20	341.73
5016	-6.40	-6.18	17.16	450.79	343.88	28.06	209.60	122.34	212.89	532.62	343.95	37.34	208.64	144.72	213.00
5017	-7.25	-6.18	17.16	324.98	128.98	16.63	164.13	67.74	79.42	398.56	124.50	23.66	163.81	84.10	78.96
5018	-8.10	-6.19	17.16	247.36	86.99	14.95	127.77	47.85	46.79	310.69	80.74	18.11	127.73	59.92	46.38
5019	-8.96	-6.19	17.16	191.22	63.63	13.69	103.99	36.29	35.84	243.28	54.85	15.07	103.99	45.71	35.32
5020	-9.81	-6.20	17.16	147.73	51.61	13.14	86.46	29.16	31.46	188.24	39.90	13.77	86.38	36.95	30.96
5021	-10.66	-6.20	17.16	112.67	45.78	13.06	72.46	24.72	29.95	141.75	30.78	13.48	72.16	31.31	29.63
5022	-11.51	-6.20	17.16	83.08	43.99	13.20	60.38	22.03	30.37	101.35	25.91	13.76	59.62	27.35	30.41
5023	-12.37	-6.21	17.16	56.89	45.11	13.46	49.14	20.63	32.87	65.55	25.03	14.45	47.51	24.39	33.57
5024	-13.22	-6.21	17.16	32.56	48.97	13.82	37.90	20.56	38.70	33.71	28.91	14.98	34.55	22.67	40.63
5025	-0.41	-7.25	17.16	48.38	6.48	24.27	1.64	179.10	19.97	66.95	17.07	28.92	15.53	177.82	43.64
5026	-1.23	-7.25	17.16	162.84	24.93	40.19	17.11	214.06	56.48	166.43	27.73	46.94	39.41	213.33	78.07
5027	-2.05	-7.25	17.16	21.59	6.79	22.03	1.14	265.97	105.96	48.54	14.29	35.72	4.56	266.34	124.21
5028	-2.87	-7.26	17.16	142.14	17.87	18.35	42.82	249.96	121.15	160.65	18.42	26.10	44.85	252.36	131.95
5029	-3.69	-7.26	17.16	24.53	7.68	59.51	23.92	295.17	183.07	41.35	8.36	63.41	26.74	302.36	191.16
5030	-4.51	-7.26	17.16	127.02	57.75	84.93	32.27	342.01	299.12	149.65	59.64	87.23	32.47	355.71	307.09
5031	-5.33	-7.26	17.16	599.20	169.83	21.52	236.29	215.74	248.59	662.37	169.49	24.76	238.90	227.03	252.83
5032	-6.14	-7.26	17.16	448.85	193.43	18.21	159.29	121.99	129.33	502.04	193.65	21.10	160.05	129.21	129.72
5033	-6.96	-7.27	17.16	340.07	149.04	15.97	134.13	71.75	74.73	392.26	145.93	18.77	133.98	78.51	74.16
5034	-7.78	-7.27	17.16	263.76	92.50	14.93	105.89	50.90	44.84	312.01	86.64	16.52	105.84	57.31	44.16
5035	-8.60	-7.27	17.16	206.88	66.42	13.77	87.92	39.74	33.70	248.67	57.91	14.54	87.94	45.68	32.98
5036	-9.42	-7.27	17.16	162.13	51.19	13.27	75.60	32.76	29.55	195.97	39.20	13.64	75.53	38.28	28.87
5037	-10.24	-7.27	17.16	125.39	43.09	13.19	65.93	28.31	28.44	150.56	28.88	13.45	65.61	33.39	27.99
5038	-11.06	-7.27	17.16	94.04	40.16	13.33	57.51	25.60	29.26	110.43	20.20	13.72	56.69	30.03	29.24
5039	-11.88	-7.28	17.16	66.12	41.40	13.59	49.53	24.25	32.01	74.28	20.72	14.34	47.78	27.74	32.77
5040	-12.70	-7.28	17.16	40.11	46.24	13.97	41.40	24.31	37.95	41.41	28.22	14.86	37.94	26.71	40.13
5041	-0.47	-3.95	15.47	25.68	17.08	22.52	19.31	97.02	51.51	119.73	34.91	28.70	22.11	95.94	57.32
5042	-1.40	-3.95	15.47	29.03	18.50	23.84	18.76	97.87	71.86	119.33	32.72	29.16	20.90	90.99	76.17
5043	-2.33	-3.95	15.47	34.94	20.41	24.46	20.69	101.01	96.73	121.23	31.73	27.76	21.69	91.57	100.21
5044	-3.26	-3.96	15.47	45.31	19.57	27.96	25.77	105.90	123.36	127.51	30.47	28.84	26.01	97.25	126.15
5045	-4.19	-3.96	15.47	62.10	18.38	34.52	35.39	108.02	152.90	140.14	29.14	33.00	35.39	101.52	155.06
5046	-5.12	-3.96	15.47	88.30	27.34	39.56	59.27	101.53	183.96	162.97	32.94	37.03	59.33	96.23	185.50
5047	-6.05	-3.96	15.47	126.12	43.90	31.44	111.47	77.90	181.84	201.22	43.43	43.58	111.74	69.73	182.63
5048	-6.98	-3.96	15.47	96.07	47.94	35.83	100.17	71.76	172.18	156.46	47.81	61.74	100.30	75.40	172.34
5049	-7.91	-3.96	15.47	110.32	54.23	41.53	131.68	69.80	152.64	182.73	50.49	65.13	131.74	92.14	152.46
5050	-8.84	-3.96	15.47	105.63	51.38	40.43	121.34	62.49	122.11	177.50	45.58	52.90	121.33	87.82	121.82
5051	-9.78	-3.97	15.47	92.27	48.40	39.10	103.96	54.08	103.51	157.08	39.96	45.46	103.91	78.22	103.19
5052	-10.71	-3.97	15.47	76.85	46.69	38.87	87.27	46.91	93.67	131.10	34.71	42.56	87.16	68.80	93.39
5053	-11.64	-3.97	15.47	61.72	46.42	39.30	72.27	41.33	89.55	103.71	30.08	42.50	72.03	60.50	89.44
5054	-12.57	-3.97	15.47	47.53	47.24	40.00	58.79	37.29	89.84	76.58	25.97	44.33	58.36	53.06	90.03
5055	-13.50	-3.97	15.47	34.34	48.80	40.76	46.70	34.76	94.39	50.47	22.56	47.57	45.97	46.22	95.05
5056	-14.43	-3.97	15.47	22.22	50.79	41.84	36.47	33.77	103.83	26.58	20.42	51.36	35.22	39.99	105.17
5057	-0.45	-5.05	15.47	27.79	15.42	32.51	14.11	133.92	53.41	115.15	29.30	43.30	18.49	132.17	64.08
5058	-1.36	-5.06	15.47	40.95	15.42	39.19	10.92	128.02	75.99	119.26	29.51	47.45	14.59	122.15	83.23
5059	-2.27	-5.06	15.47	41.87	14.53	37.99	9.25	125.09	104.61	120.10	29.28	43.89	12.85	117.01	109.71
5060	-3.18	-5.06	15.47	49.19	15.25	40.04	17.28	135.44	137.25	123.62	26.67	43.49	18.11	128.10	141.16
5061	-4.09	-5.07	15.47	79.67	17.16	48.59	36.71	139.41	169.14	147.81	23.76	49.46	36.70	133.95	172.19
5062	-5.00	-5.07	15.47	128.21	32.18	51.65	64.10	122.96	187.81	192.13	34.85	50.50	64.17	117.73	189.93
5063	-5.91	-5.07	15.47	158.25	63.27	38.97	101.87	87.94	169.12	221.97	63.84	43.76	102.05	78.96	170.08
5064	-6.82	-5.08	15.47	108.89	60.01	37.03	84.18	81.06	158.35	160.89	60.64	54.14	84.19	80.86	158.48
5065	-7.73	-5.08	15.47	134.47	61.80	42.66	119.21	81.60	142.93	194.28	58.79	60.03	119.28	96.18	142.59
5066	-8.64	-5.08	15.47	126.64	56.98	41.08	108.84	72.92	114.60	185.99	51.80	50.51	108.81	90.85	114.09
5067	-9.54	-5.09	15.47	110.23	50.62	39.56	94.24	63.57	98.13	164.07	42.26	44.48	94.16	81.61	97.58
5068	-10.45	-5.09	15.47	91.99	46.65	39.17	80.37	55.75	89.77	137.41	34.28	42.08	80.17	72.83	89.30
5069	-11.36	-5.10	15.47	74.30	45.00	39.52	67.89	49.79	86.67	109.68	27.90	42.12	67.50	65.30	86.45
5070	-12.27	-5.10	15.47	57.81	45.18	40.18	56.66	45.62	87.64	82.37	23.14	43.85	55.97	58.84	87.88

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
5097	-7.21	-7.26	15.47	180.03	76.76	42.83	84.03	106.56	122.56	221.00	74.57	45.81	84.13	108.08	122.18
5098	-8.06	-7.27	15.47	161.07	66.00	41.42	79.75	92.15	99.90	200.39	61.07	43.62	79.67	96.72	99.06
5099	-8.91	-7.27	15.47	138.83	54.07	40.26	72.04	81.05	87.02	174.90	45.66	41.55	71.78	87.83	86.05
5100	-9.76	-7.27	15.47	116.82	45.90	39.89	64.44	72.65	81.12	147.98	33.10	40.71	63.95	80.82	80.26
5101	-10.61	-7.27	15.47	96.08	41.40	40.14	57.58	66.52	79.85	120.98	23.29	41.14	56.78	75.32	79.37
5102	-11.46	-7.27	15.47	76.87	40.10	40.74	51.41	62.44	82.08	94.63	16.84	42.69	50.19	71.09	82.29
5103	-12.31	-7.27	15.47	59.23	41.13	41.61	45.93	60.29	87.56	69.52	15.30	45.30	44.15	67.97	88.79
5104	-13.16	-7.28	15.47	43.22	43.28	43.10	41.56	59.84	96.71	46.68	17.88	48.77	39.04	65.70	99.35
5105	-0.48	-3.95	13.78	36.54	18.07	38.52	13.62	100.50	79.40	170.94	45.56	54.09	18.61	94.40	83.76
5106	-1.44	-3.95	13.78	39.76	18.23	39.68	14.91	100.91	97.87	167.20	43.18	54.27	18.42	84.40	100.97
5107	-2.40	-3.95	13.78	44.49	19.46	41.39	18.16	100.94	116.96	164.65	41.22	52.88	20.13	77.15	119.30
5108	-3.35	-3.96	13.78	51.57	21.90	43.64	25.03	100.29	136.29	163.71	39.53	50.04	25.70	72.22	138.10
5109	-4.31	-3.96	13.78	61.17	25.67	46.11	36.70	97.60	152.76	164.00	38.57	46.36	36.73	66.99	154.11
5110	-5.27	-3.96	13.78	69.45	30.45	48.27	51.51	92.06	160.81	162.14	38.95	44.75	51.41	59.72	161.67
5111	-6.23	-3.96	13.78	67.26	34.80	51.43	59.54	87.77	164.46	149.81	40.32	49.75	59.42	59.88	164.88
5112	-7.19	-3.96	13.78	72.71	39.38	55.08	75.01	82.37	161.15	150.57	40.74	57.11	74.92	63.52	161.25
5113	-8.15	-3.96	13.78	67.66	41.37	58.55	76.39	77.11	153.72	138.28	39.78	62.76	62.76	69.49	153.63
5114	-9.10	-3.96	13.78	64.88	42.98	61.30	77.66	72.56	146.04	131.37	37.43	65.89	77.51	76.96	145.85
5115	-10.06	-3.97	13.78	60.52	43.84	63.25	73.77	67.48	138.48	120.97	33.96	66.81	73.58	79.24	138.26
5116	-11.02	-3.97	13.78	54.32	44.78	65.04	67.22	62.13	133.71	106.39	29.95	68.47	66.97	77.69	133.55
5117	-11.98	-3.97	13.78	47.10	46.15	66.82	59.89	57.06	132.31	88.80	25.85	71.84	59.54	73.95	132.30
5118	-12.94	-3.97	13.78	39.51	47.99	68.47	52.83	52.68	134.25	69.51	21.98	77.33	52.36	68.91	134.50
5119	-13.89	-3.97	13.78	32.02	50.18	69.97	46.77	49.22	139.40	49.70	18.69	85.21	46.17	62.93	140.00
5120	-14.85	-3.97	13.78	25.15	52.60	71.85	42.44	47.00	147.64	31.09	16.37	96.32	41.75	56.31	148.64
5121	-0.47	-5.05	13.78	39.12	18.41	43.67	9.47	116.96	78.02	167.62	45.16	62.31	17.76	109.81	84.81
5122	-1.41	-5.06	13.78	44.37	18.20	45.67	10.99	117.21	96.53	164.66	42.36	62.78	16.74	102.06	101.39
5123	-2.34	-5.06	13.78	52.75	19.10	47.91	14.65	116.65	115.08	163.65	40.12	61.63	17.53	95.86	118.71
5124	-3.28	-5.06	13.78	63.44	22.08	49.56	21.11	113.55	132.93	165.22	39.46	58.18	22.07	88.99	136.66
5125	-4.22	-5.07	13.78	74.54	28.06	50.30	31.15	108.60	147.47	166.57	41.06	52.73	31.20	81.47	149.47
5126	-5.15	-5.07	13.78	80.94	32.93	51.14	44.49	102.41	155.85	163.60	41.67	48.84	44.26	74.04	157.15
5127	-6.09	-5.07	13.78	80.46	35.23	53.35	54.29	98.38	161.00	153.98	40.41	50.90	54.04	73.81	161.66
5128	-7.03	-5.08	13.78	89.62	41.09	56.41	69.93	92.50	156.02	157.82	42.22	56.07	69.77	74.42	156.19
5129	-7.96	-5.08	13.78	81.34	43.69	59.41	69.53	86.21	147.19	143.14	41.99	60.84	69.29	76.50	147.07
5130	-8.90	-5.08	13.78	78.00	44.42	61.94	71.08	81.89	140.02	135.49	38.78	64.15	70.81	82.21	139.72
5131	-9.84	-5.09	13.78	72.58	44.34	63.71	67.96	76.91	133.33	124.56	34.39	65.53	67.63	84.03	132.98
5132	-10.77	-5.09	13.78	65.23	44.38	65.37	62.65	71.68	129.45	109.93	29.48	67.40	62.21	82.83	129.19
5133	-11.71	-5.09	13.78	56.85	45.09	67.06	56.70	66.83	128.76	92.68	24.76	70.72	56.11	79.89	128.73
5134	-12.65	-5.10	13.78	48.22	46.51	68.67	50.99	62.78	131.16	74.01	20.67	75.90	50.23	75.96	131.51
5135	-13.58	-5.10	13.78	39.83	48.46	70.21	46.14	59.79	136.49	55.11	17.56	83.32	45.21	71.42	137.34
5136	-14.52	-5.10	13.78	32.08	50.69	72.25	42.79	57.90	144.41	37.53	15.61	93.88	41.73	66.34	145.84
5137	-0.46	-6.15	13.78	42.33	17.90	49.32	6.53	134.11	76.46	163.96	43.61	71.91	17.70	125.85	86.40
5138	-1.37	-6.16	13.78	49.52	17.28	51.88	6.80	134.08	95.20	161.94	41.08	72.38	15.41	119.68	102.37
5139	-2.28	-6.16	13.78	62.28	19.00	54.61	8.75	132.82	114.38	163.19	39.75	71.49	13.43	113.96	119.70
5140	-3.19	-6.16	13.78	76.92	23.74	55.23	15.73	126.06	131.54	168.24	40.23	67.00	16.80	103.80	135.45
5141	-4.10	-6.17	13.78	85.65	28.75	53.84	25.75	119.46	144.37	168.20	40.78	59.15	25.51	94.87	147.18
5142	-5.01	-6.17	13.78	90.97	33.31	53.98	38.30	114.52	151.02	164.49	41.35	53.80	37.80	89.61	152.79
5143	-5.92	-6.17	13.78	97.33	44.04	55.46	47.55	108.07	152.53	163.21	48.28	53.04	47.13	85.20	153.46
5144	-6.83	-6.18	13.78	99.27	48.59	58.01	57.55	102.58	147.93	158.93	49.76	56.00	57.18	84.37	148.29
5145	-7.74	-6.18	13.78	94.08	45.06	60.62	62.10	96.47	140.67	148.22	42.76	59.77	61.70	85.15	140.60
5146	-8.65	-6.18	13.78	90.05	45.68	62.67	63.46	91.71	133.34	139.70	39.85	62.45	63.01	88.22	132.98
5147	-9.56	-6.19	13.78	83.54	44.58	64.24	61.31	86.57	127.49	128.12	34.52	64.14	60.77	89.20	127.04
5148	-10.47	-6.19	13.78	75.21	43.74	65.77	57.42	81.43	124.51	113.50	28.81	66.19	56.73	88.28	124.16
5149	-11.38	-6.20	13.78	65.99	43.79	67.35	53.01	76.83	124.54	96.77	23.54	69.40	52.13	86.16	124.46
5150	-12.29	-6.20	13.78	56.61	44.76	68.92	48.80	73.13	127.39	78.93	19.24	74.23	47.71	83.39	127.78
5151	-13.20	-6.20	13.78	47.60	46.38	70.52	45.32	70.52	132.86	61.08	16.28	81.10	44.02	80.21	133.88
5152	-14.11	-6.21	13.78	39.41	48.39	72.75	43.03	69.16	140.53	44.67	14.69	90.93	41.61	76.83	142.28
5153	-0.44	-7.25	13.78	45.94	16.98	54.80	11.61	150.15	74.34	160.02	43.11	82.17	20.50	140.75	87.93
5154	-1.32	-7.25	13.78	56.12	16.52	57.21	10.22	149.47	92.75	159.79	40.68	82.08	17.28	135.32	102.63
5155	-2.20	-7.25	13.78	73.21	20.18	59.38	8.12	146.40	110.85	164.06	40.43	80.52	12.47	128.64	118.17
5156	-3.07	-7.26	13.78	89.47	26.98	58.56	9.60	136.30	125.97	171.10	42.07	74.65	10.37	115.51	131.29
5157	-3.95	-7.26	13.78	93.45	35.15	55.78	16.25	128.50	137.66	168.04	45.55	65.04	15.36	105.73	141.53
5158	-4.83	-7.26	13.78	98.14	41.10	56.25	26.95	127.15	144.77	164.13	48.04	59.42	25.80	104.85	147.41
5159	-5.71	-7.26	13.78	113.95	44.82	57.68	42.59	118.38	142.11	172.54	48.31	56.80	41.92	96.88	143.64
5160	-6.59	-7.26	13.78	106.65	46.80	59.86	47.30	111.56	136.64	158.99	47.53	57.50	46.60	93.06	137.31
5161	-7.47	-7.26	13.78	104.60	48.12	62.07	52.94	107.05	131.80	152.20	45.59	59.79	52.29	94.34	131.85
5162	-8.34	-7.27	13.78	100.20	46.58	63.56	54.62	101.77	125.57	143.30	40.61	61.50	53.92	95.02	125.25
5163	-9.22	-7.27	13.78	92.96	44.51	64.86	53.80	96.33	120.90	131.35	34.49	63.05	52.98	94.90	120.42
5164	-10.10	-7.27	13.78	83.99	42.83	66.24	51.59	91.21	118.91	116.92	28.09	65.07	50.59	94.00	118.50
5165	-10.98	-7.27	13.78	74.29	42.26	67.73	48.88	86.83	119.67	100.88	22.37	68.06	47.67	92.57	119.54
5166	-11.86	-7.27	13.78	64.54	42.80	69.25	46.25	83.46	122.95	84.06	17.89	72.44	44.82	90.85	123.33
5167	-12.73	-7.27	13.78	55.22	44.11	70.93	44.17	81.23	128.47	67.38	15.01	78.68	42.53	88.97	129.52
5168	-13.61	-7.28	13.78	46.66	45.69	73.35	43.15	80.10	136.10	51.94	13.67	87.68	41.40	86.90	137.96
5169	-0.49	-3.95													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
5195	-10.13	-5.08	12.09	55.29	43.18	89.30	51.78	90.28	158.50	113.20	31.07	84.20	51.13	82.68	158.36
5196	-11.09	-5.09	12.09	51.57	44.93	92.72	50.68	85.19	158.49	100.52	27.51	90.14	49.96	85.32	158.42
5197	-12.06	-5.09	12.09	47.30	46.90	95.89	49.00	80.20	160.05	86.46	24.05	97.71	48.23	85.80	160.14
5198	-13.02	-5.09	12.09	42.72	49.13	98.79	47.35	75.54	163.35	71.30	21.06	107.63	46.55	84.46	163.68
5199	-13.99	-5.10	12.09	38.14	51.63	101.50	46.24	71.53	168.32	55.68	18.92	120.66	45.48	81.72	168.96
5200	-14.95	-5.10	12.09	33.86	54.33	104.36	46.07	68.61	174.78	40.80	18.05	137.63	45.47	78.26	175.72
5201	-0.47	-6.15	12.09	47.03	20.00	66.92	9.15	129.51	99.19	203.42	50.77	96.64	22.72	109.43	105.64
5202	-1.41	-6.16	12.09	52.14	20.28	67.68	9.58	129.53	112.76	196.27	48.06	95.15	19.26	99.83	117.59
5203	-2.35	-6.16	12.09	57.57	22.06	68.62	11.64	128.01	125.41	189.39	45.90	91.47	17.13	90.69	129.02
5204	-3.29	-6.16	12.09	62.33	24.94	69.76	15.66	125.89	136.57	181.72	44.29	86.15	17.55	83.00	139.23
5205	-4.22	-6.17	12.09	66.40	28.70	71.39	21.67	123.05	145.42	173.78	43.40	80.52	21.53	76.89	147.31
5206	-5.16	-6.17	12.09	69.50	32.76	73.54	28.44	119.60	151.46	165.50	42.89	75.88	27.60	73.02	152.73
5207	-6.10	-6.17	12.09	70.55	35.30	76.43	35.49	116.11	154.36	156.07	41.12	73.66	34.46	72.68	155.12
5208	-7.04	-6.18	12.09	70.27	37.79	79.72	40.78	112.03	155.09	146.38	39.34	73.93	39.75	75.02	155.44
5209	-7.98	-6.18	12.09	69.41	40.39	83.15	44.67	107.95	154.39	137.02	37.72	76.05	43.67	79.63	154.46
5210	-8.92	-6.18	12.09	66.74	41.61	86.58	46.73	103.45	153.32	126.38	34.43	79.35	45.71	84.36	153.23
5211	-9.86	-6.19	12.09	63.45	42.88	89.93	47.39	98.94	152.74	115.22	30.89	83.57	46.34	88.56	152.59
5212	-10.80	-6.19	12.09	59.47	44.26	93.15	47.05	94.41	153.26	103.05	27.20	88.85	45.94	91.30	153.17
5213	-11.73	-6.19	12.09	54.97	45.91	96.18	46.21	90.06	155.23	89.78	23.70	95.70	45.06	92.42	155.33
5214	-12.67	-6.20	12.09	50.19	47.88	99.00	45.40	86.11	158.74	75.67	20.74	104.73	44.23	92.14	159.13
5215	-13.61	-6.20	12.09	45.44	50.10	101.70	45.03	82.85	163.73	61.34	18.67	116.62	43.94	90.79	164.48
5216	-14.55	-6.20	12.09	41.08	52.60	104.63	45.37	80.82	169.88	47.90	17.82	132.15	44.50	89.07	171.01
5217	-0.45	-7.25	12.09	48.83	18.95	73.02	11.86	136.72	95.78	196.90	48.50	106.26	24.76	115.01	104.73
5218	-1.36	-7.25	12.09	55.78	19.34	73.33	10.93	136.60	108.46	191.07	46.11	104.21	20.25	107.08	115.25
5219	-2.27	-7.25	12.09	62.30	21.64	73.61	10.71	134.76	120.15	185.27	44.36	99.92	16.27	99.02	125.29
5220	-3.18	-7.26	12.09	67.62	25.19	73.99	12.72	132.60	130.31	178.45	43.33	94.01	14.20	92.37	134.17
5221	-4.08	-7.26	12.09	72.70	29.19	75.04	17.60	129.92	137.99	171.81	42.76	87.97	16.45	87.14	140.78
5222	-4.99	-7.26	12.09	76.53	33.21	76.50	23.80	126.02	142.76	164.89	42.33	82.37	21.96	82.70	144.67
5223	-5.90	-7.26	12.09	76.22	36.72	78.77	29.01	123.07	145.86	154.81	41.79	78.82	27.07	82.42	147.07
5224	-6.81	-7.26	12.09	77.87	39.16	81.55	34.77	119.60	146.85	147.41	40.21	77.56	33.02	84.13	147.52
5225	-7.72	-7.26	12.09	76.33	40.40	84.54	38.55	115.64	146.32	137.68	37.47	78.15	36.89	87.00	146.59
5226	-8.62	-7.26	12.09	73.89	41.41	87.62	41.13	111.74	145.91	127.71	34.18	80.21	39.54	90.95	145.92
5227	-9.53	-7.27	12.09	70.62	42.28	90.67	42.48	107.75	146.02	117.10	30.49	83.40	40.90	94.63	145.91
5228	-10.44	-7.27	12.09	66.59	43.33	93.66	42.99	103.78	147.13	105.60	26.75	87.78	41.39	97.41	147.05
5229	-11.35	-7.27	12.09	62.04	44.70	96.51	43.07	100.02	149.53	93.23	23.29	93.69	41.46	99.10	149.62
5230	-12.25	-7.27	12.09	57.26	46.45	99.23	43.12	96.72	153.25	80.29	20.44	101.60	41.55	99.81	153.64
5231	-13.16	-7.27	12.09	52.52	48.47	101.93	43.49	94.15	158.15	67.25	18.48	112.14	42.04	99.77	158.91
5232	-14.07	-7.27	12.09	48.03	50.60	104.92	44.52	92.63	164.27	54.95	17.72	125.99	43.36	99.40	165.41
5233	-0.51	-3.95	10.41	50.24	23.32	72.25	10.88	133.45	126.73	250.48	57.90	108.36	21.38	98.09	128.44
5234	-1.52	-3.95	10.41	49.35	23.96	73.66	12.41	133.62	138.21	235.24	54.60	106.42	19.61	82.03	139.47
5235	-2.53	-3.95	10.41	48.90	25.28	76.20	15.18	132.95	149.03	220.42	51.47	102.72	19.35	67.98	149.94
5236	-3.54	-3.95	10.41	48.64	27.13	79.69	19.13	131.41	158.72	205.87	48.53	97.92	21.06	56.30	159.37
5237	-4.56	-3.96	10.41	48.33	29.37	83.96	23.93	129.00	166.89	191.53	45.80	93.06	24.52	48.06	167.33
5238	-5.57	-3.96	10.41	47.95	31.86	88.82	29.21	125.67	173.12	177.69	43.22	89.24	29.14	44.75	173.39
5239	-6.58	-3.96	10.41	46.96	34.43	94.08	34.06	121.51	177.54	163.87	40.75	87.47	33.69	47.29	177.68
5240	-7.60	-3.96	10.41	45.99	36.98	99.58	38.58	116.58	180.37	151.06	38.15	88.13	38.10	54.10	180.41
5241	-8.61	-3.96	10.41	44.47	39.46	105.16	41.88	111.00	182.06	138.18	35.45	91.17	41.34	62.63	182.04
5242	-9.62	-3.96	10.41	42.80	41.94	110.73	44.25	104.90	183.20	125.65	32.62	96.38	43.68	70.91	183.13
5243	-10.63	-3.96	10.41	40.76	44.45	116.18	45.60	98.40	184.33	112.63	29.75	103.71	45.03	77.50	184.27
5244	-11.65	-3.96	10.41	38.42	47.05	121.43	46.30	91.61	185.98	98.91	26.99	113.49	45.73	81.87	185.96
5245	-12.66	-3.97	10.41	35.81	49.79	126.40	46.71	84.64	188.45	84.25	24.59	126.16	46.17	83.80	188.51
5246	-13.67	-3.97	10.41	33.04	52.69	131.05	47.20	77.64	191.88	68.65	22.87	142.28	46.75	83.40	192.06
5247	-14.68	-3.97	10.41	30.33	55.78	135.44	48.17	70.93	196.26	52.43	22.20	162.32	47.85	81.05	196.58
5248	-15.70	-3.97	10.41	28.16	59.08	139.70	49.95	65.36	201.66	36.95	22.88	186.56	49.83	77.57	202.11
5249	-0.50	-5.05	10.41	50.91	22.94	77.98	10.72	137.01	124.29	244.27	56.54	115.04	24.66	100.18	127.09
5250	-1.49	-5.05	10.41	51.10	23.57	78.97	11.73	137.24	135.20	230.10	53.42	112.82	21.67	86.03	137.28
5251	-2.48	-5.06	10.41	51.74	24.97	80.93	13.94	136.60	145.45	216.27	50.49	108.87	19.93	73.83	146.98
5252	-3.47	-5.06	10.41	52.47	26.99	83.73	17.40	135.11	154.58	202.66	47.81	103.81	20.17	63.94	155.68
5253	-4.47	-5.06	10.41	53.06	29.47	87.29	21.77	132.80	162.20	189.24	45.40	98.57	22.51	57.20	162.96
5254	-5.46	-5.07	10.41	53.32	32.09	91.49	26.66	129.68	168.08	176.13	43.04	94.16	26.36	54.53	168.57
5255	-6.45	-5.07	10.41	52.86	34.63	96.18	31.32	125.87	172.40	163.05	40.63	91.54	30.56	56.50	172.67
5256	-7.44	-5.07	10.41	52.42	37.21	101.20	35.71	121.41	175.15	150.87	38.22	91.18	34.78	61.98	175.26
5257	-8.44	-5.08	10.41	51.05	39.64	106.42	38.91	116.37	176.92	138.39	35.65	93.13	37.91	69.19	176.91
5258	-9.43	-5.08	10.41	49.57	41.96	111.68	41.42	110.93	178.31	126.32	32.84	97.29	40.40	76.59	178.23
5259	-10.42	-5.08	10.41	47.59	44.29	116.88	43.03	105.13	179.73	113.78	29.99	103.65	42.02	82.81	179.64
5260	-11.41	-5.09	10.41	45.28	46.71	121.93	44.08	99.12	181.64	100.67	27.25	112.42	43.11	87.30	181.60
5261	-12.41	-5.09	10.41	42.70	49.28	126.74	44.88	93.04	184.29	86.80	24.87	124.02	43.98	89.80	184.37
5262	-13.40	-5.09	10.41	39.98	52.02	131.28	45.76	87.07	187.81	72.24	23.17	138.91	45.00	90.37	188.05
5263	-14.39	-5.09	10.41	37.34	54.98	135.60	47.01	81.56	192.17	57.38	22.49	157.52	46.47	89.38	192.60
5264	-15.38	-5.10	10.41	35.07	58.15	139.83	48.91	77.05	197.17	43.42	23.08	180.14	48.68	87.34	197.79
5265	-0.48	-6.15	10.41	51.74	22.29	84.47	11.46	140.73	121.13	236.78	54.66	123.01	27.51	102.14	125.32
5266	-1.45	-6.15	10.41	53.02	22.96	84.99	11.76	141.03	131.36	223.88					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
5293	-11.72	-7.27	10.41	55.83	47.72	127.63	40.32	111.48	172.97	92.81	25.29	119.32	38.38	102.72	173.04
5294	-12.65	-7.27	10.41	53.36	50.22	131.83	42.00	107.40	176.61	80.61	23.78	130.80	40.41	105.21	176.87
5295	-13.59	-7.27	10.41	50.96	52.91	135.93	43.90	103.89	180.75	68.50	23.19	145.56	42.75	106.75	181.23
5296	-14.53	-7.27	10.41	48.83	55.73	140.04	46.25	101.27	185.53	57.34	23.80	163.80	45.67	107.61	186.21
5297	-0.52	-3.95	8.72	55.23	25.50	88.15	10.44	156.48	148.80	279.39	59.14	136.73	23.59	96.52	149.78
5298	-1.56	-3.95	8.72	52.88	26.23	90.06	11.60	156.56	158.01	258.93	55.63	133.92	21.02	79.66	158.72
5299	-2.60	-3.95	8.72	50.94	27.48	93.39	13.69	155.63	166.69	239.75	52.17	129.52	19.62	64.90	167.19
5300	-3.64	-3.95	8.72	49.31	29.16	97.93	16.65	153.69	174.56	221.70	48.84	124.13	19.77	52.82	174.89
5301	-4.68	-3.96	8.72	47.87	31.17	103.42	20.27	150.74	181.38	204.72	45.65	118.47	21.51	44.73	181.59
5302	-5.72	-3.96	8.72	46.48	33.40	109.63	24.19	146.80	187.07	188.65	42.60	113.42	24.35	42.36	187.18
5303	-6.76	-3.96	8.72	45.15	35.77	116.35	28.18	141.94	191.64	173.55	39.65	109.80	27.79	45.99	191.66
5304	-7.80	-3.96	8.72	43.72	38.23	123.39	31.88	136.23	195.21	159.09	36.82	108.37	31.21	53.64	195.17
5305	-8.84	-3.96	8.72	42.25	40.77	130.61	35.20	129.78	198.07	145.23	34.09	109.74	34.43	62.86	197.99
5306	-9.88	-3.96	8.72	40.62	43.38	137.89	38.05	122.71	200.53	131.46	31.52	114.39	37.24	71.84	200.42
5307	-10.92	-3.96	8.72	38.83	46.08	145.14	40.49	115.09	202.88	117.52	29.22	122.78	39.71	79.55	202.78
5308	-11.96	-3.96	8.72	36.86	48.91	152.26	42.67	107.03	205.40	103.01	27.36	135.31	41.97	85.31	205.33
5309	-13.00	-3.96	8.72	34.74	51.88	159.20	44.78	98.60	208.26	87.72	26.15	152.28	44.21	88.83	208.25
5310	-14.04	-3.97	8.72	32.61	55.03	165.93	47.04	89.95	211.52	71.63	25.79	173.83	46.66	90.04	211.60
5311	-15.08	-3.97	8.72	30.68	58.39	172.45	49.67	81.40	215.15	55.11	26.43	199.87	49.51	89.12	215.33
5312	-16.12	-3.97	8.72	29.35	61.98	178.84	52.87	73.76	219.26	39.48	28.13	230.12	52.96	86.64	219.56
5313	-0.51	-5.05	8.72	55.44	25.18	94.53	11.52	158.03	146.07	272.25	57.89	143.07	28.18	96.70	147.72
5314	-1.53	-5.05	8.72	53.89	25.95	95.95	12.15	158.22	154.81	253.06	54.59	140.06	24.45	81.48	156.01
5315	-2.55	-5.06	8.72	52.76	27.29	98.64	13.67	157.44	163.04	235.01	51.38	135.51	21.71	68.49	163.89
5316	-3.57	-5.06	8.72	51.88	29.08	102.47	16.10	155.70	170.49	217.97	48.30	129.98	20.44	58.28	171.08
5317	-4.59	-5.06	8.72	51.12	31.20	107.25	19.27	153.01	176.99	201.86	45.34	124.12	20.91	51.90	177.36
5318	-5.61	-5.07	8.72	50.34	33.51	112.80	22.84	149.43	182.44	186.58	42.52	118.75	22.84	50.38	182.65
5319	-6.63	-5.07	8.72	49.52	35.94	118.94	26.55	145.00	186.86	172.14	39.79	114.62	25.69	53.67	186.93
5320	-7.65	-5.07	8.72	48.49	38.39	125.48	30.07	139.82	190.43	158.25	37.12	112.47	28.81	60.37	190.40
5321	-8.67	-5.07	8.72	47.38	40.88	132.29	33.33	133.99	193.37	144.91	34.51	112.91	31.92	68.66	193.26
5322	-9.69	-5.08	8.72	46.02	43.42	139.22	36.18	127.58	195.95	131.64	32.04	116.46	34.75	77.01	195.80
5323	-10.71	-5.08	8.72	44.48	46.03	146.18	38.72	120.73	198.45	118.26	29.82	123.58	37.36	84.45	198.30
5324	-11.73	-5.08	8.72	42.75	48.77	153.06	41.04	113.50	201.10	104.43	28.00	134.69	39.84	90.33	200.98
5325	-12.75	-5.09	8.72	40.88	51.66	159.79	43.32	106.03	204.02	90.00	26.78	150.08	42.35	94.34	203.99
5326	-13.77	-5.09	8.72	39.00	54.73	166.35	45.73	98.50	207.30	75.00	26.39	169.88	45.06	96.39	207.39
5327	-14.79	-5.09	8.72	37.34	58.03	172.73	48.42	91.25	210.88	59.87	26.98	194.04	48.12	96.67	211.14
5328	-15.81	-5.10	8.72	36.08	61.57	179.01	51.53	84.83	214.65	45.82	28.60	222.30	51.63	95.48	215.07
5329	-0.50	-6.15	8.72	55.76	24.73	101.84	13.16	159.66	142.59	263.56	56.27	150.66	32.08	96.65	145.11
5330	-1.49	-6.15	8.72	55.08	25.56	102.74	13.28	160.00	150.76	245.91	53.27	147.43	27.39	83.30	152.62
5331	-2.49	-6.16	8.72	54.76	27.00	104.78	14.14	159.41	158.43	229.22	50.36	142.73	23.53	72.19	159.79
5332	-3.49	-6.16	8.72	54.63	28.92	107.86	15.88	157.91	165.41	213.38	47.57	137.05	20.96	63.83	166.36
5333	-4.48	-6.16	8.72	54.52	31.14	111.88	18.43	155.55	171.52	198.33	44.90	131.01	20.10	58.97	172.16
5334	-5.48	-6.17	8.72	54.33	33.54	116.69	21.52	152.38	176.71	184.00	42.33	125.30	20.98	58.18	177.09
5335	-6.47	-6.17	8.72	53.95	35.96	122.16	24.85	148.47	181.01	170.32	39.79	120.64	23.15	61.31	181.18
5336	-7.47	-6.17	8.72	53.35	38.40	128.12	28.14	143.89	184.57	157.19	37.29	117.71	25.92	67.29	184.58
5337	-8.47	-6.18	8.72	52.55	40.86	134.42	31.25	138.74	187.59	144.44	34.86	117.10	28.88	74.78	187.49
5338	-9.46	-6.18	8.72	51.47	43.32	140.92	34.08	133.09	190.32	131.82	32.50	119.34	31.77	82.56	190.14
5339	-10.46	-6.18	8.72	50.17	45.85	147.50	36.69	127.05	192.98	119.12	30.36	124.93	34.55	89.76	192.78
5340	-11.45	-6.19	8.72	48.67	48.50	154.06	39.15	120.73	195.75	106.09	28.60	134.28	37.29	95.78	195.58
5341	-12.45	-6.19	8.72	47.04	51.31	160.52	41.58	114.26	198.74	92.63	27.42	147.71	40.10	100.29	198.67
5342	-13.44	-6.19	8.72	45.40	54.31	166.85	44.13	107.83	201.99	78.83	27.02	165.35	43.10	103.22	202.08
5343	-14.44	-6.19	8.72	43.94	57.52	173.06	46.92	101.77	205.51	65.14	27.58	187.19	46.42	104.65	205.80
5344	-15.44	-6.20	8.72	42.94	61.02	179.20	49.94	96.67	209.09	52.73	29.15	212.99	50.02	104.98	209.58
5345	-0.48	-7.25	8.72	56.22	24.14	109.85	15.37	161.23	138.28	253.47	54.34	159.36	35.06	96.25	141.91
5346	-1.45	-7.25	8.72	56.39	25.06	110.24	15.04	161.75	145.79	237.59	51.69	155.90	29.63	84.88	148.52
5347	-2.42	-7.25	8.72	56.84	26.62	111.63	15.27	161.38	152.86	222.46	49.12	151.05	24.88	75.69	154.88
5348	-3.38	-7.25	8.72	57.38	28.64	113.97	16.26	160.18	159.31	207.99	46.65	145.24	21.19	69.10	160.73
5349	-4.35	-7.26	8.72	57.85	30.94	117.21	18.07	158.21	165.01	194.14	44.27	139.04	19.07	65.62	166.00
5350	-5.32	-7.26	8.72	58.19	33.37	121.26	20.52	155.50	169.92	180.90	41.95	133.02	18.83	65.49	170.57
5351	-6.28	-7.26	8.72	58.19	35.84	126.00	23.32	152.16	174.10	168.11	39.67	127.85	20.19	68.58	174.46
5352	-7.25	-7.26	8.72	58.01	38.26	131.30	26.27	148.23	177.67	155.85	37.37	124.13	22.59	74.04	177.79
5353	-8.22	-7.26	8.72	57.48	40.64	137.01	29.16	143.79	180.78	143.82	35.06	122.41	25.41	80.89	180.73
5354	-9.18	-7.26	8.72	56.70	43.03	142.99	31.91	138.94	183.66	131.96	32.82	123.23	28.37	88.19	183.49
5355	-10.15	-7.26	8.72	55.65	45.48	149.11	34.54	133.76	186.48	120.04	30.78	127.07	31.35	95.17	186.26
5356	-11.12	-7.27	8.72	54.38	48.04	155.27	37.09	128.35	189.37	107.91	29.09	134.38	34.38	101.32	189.16
5357	-12.08	-7.27	8.72	52.99	50.78	161.39	39.66	122.86	192.42	95.51	27.97	145.48	37.52	106.32	192.30
5358	-13.05	-7.27	8.72	51.61	53.75	167.44	42.32	117.50	195.65	82.98	27.61	160.58	40.83	110.08	195.70
5359	-14.02	-7.27	8.72	50.38	56.93	173.41	45.13	112.55	199.01	70.70	28.15	179.68	44.36	112.65	199.26
5360	-14.98	-7.27	8.72	49.45	60.28	179.39	48.26	108.33	202.73	59.54	29.76	202.60	48.24	114.15	203.20
5361	-0.53	-3.95	7.03	58.76	27.17	103.78	10.15	180.92	169.99	297.88	57.37	165.07	25.53	90.59	170.46
5362	-1.60	-3.95	7.03	55.42	27.93	106.33	11.01	180.82	177.62	273.20	53.73	161.48	22.39	74.78	177.94
5363	-2.67	-3.95	7.03	52.61	29.16	110.60	12.67	179.52	184.83	250.86	50.12	156.45	20.24	61.02	185.03
5364	-3.73	-3.95	7.03	50.25	30.76	116.34									



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
5391	-15.20	-5.09	7.03	37.98	60.53	212.61	50.28	101.20	226.38	62.90	31.99	230.81	50.24	104.59	226.49
5392	-16.25	-5.09	7.03	37.14	64.32	221.36	54.11	92.80	229.12	48.18	34.22	265.20	54.54	103.69	229.46
5393	-0.51	-6.15	7.03	58.86	26.96	119.18	14.26	181.77	163.36	281.04	55.34	178.63	35.80	89.38	164.63
5394	-1.54	-6.15	7.03	56.95	27.85	120.67	14.23	181.95	170.18	259.58	52.24	174.83	30.57	76.47	171.07
5395	-2.56	-6.16	7.03	55.52	29.22	123.58	14.81	181.06	176.64	239.99	49.18	169.68	26.15	65.90	177.25
5396	-3.59	-6.16	7.03	54.45	30.97	127.79	16.11	179.12	182.63	222.05	46.24	163.58	22.83	58.27	183.00
5397	-4.61	-6.16	7.03	53.62	33.01	133.13	18.09	176.19	188.04	205.56	43.44	156.99	20.93	54.41	188.22
5398	-5.63	-6.17	7.03	52.93	35.24	139.42	20.60	172.32	192.85	190.30	40.81	150.49	20.62	54.83	192.86
5399	-6.66	-6.17	7.03	52.28	37.60	146.44	23.45	167.60	197.07	176.08	38.37	144.72	21.75	59.12	196.95
5400	-7.68	-6.17	7.03	51.61	40.05	154.04	26.47	162.11	200.78	162.64	36.14	140.45	23.90	66.17	200.54
5401	-8.71	-6.17	7.03	50.85	42.56	162.04	29.54	155.95	204.09	149.69	34.15	138.56	26.66	74.66	203.76
5402	-9.73	-6.18	7.03	49.97	45.17	170.33	32.61	149.23	207.12	136.91	32.50	140.07	29.78	83.53	206.73
5403	-10.76	-6.18	7.03	48.93	47.87	178.81	35.68	142.02	209.99	123.99	31.27	145.96	33.12	91.95	209.58
5404	-11.78	-6.18	7.03	47.76	50.72	187.40	38.77	134.45	212.78	110.65	30.57	157.05	36.67	99.34	212.40
5405	-12.81	-6.19	7.03	46.52	53.75	196.04	41.93	126.62	215.54	96.76	30.52	173.75	40.42	105.24	215.25
5406	-13.83	-6.19	7.03	45.31	56.99	204.68	45.24	118.69	218.30	82.38	31.18	195.99	44.38	109.38	218.17
5407	-14.86	-6.19	7.03	44.31	60.47	213.26	48.74	110.93	221.07	67.98	32.62	223.26	48.59	111.60	221.17
5408	-15.88	-6.19	7.03	43.80	64.28	221.78	52.37	103.91	223.70	54.97	34.81	254.78	52.90	112.14	224.10
5409	-0.50	-7.25	7.03	59.10	26.82	128.39	16.78	182.16	158.90	270.29	53.99	187.33	39.49	88.35	160.77
5410	-1.49	-7.25	7.03	57.98	27.77	129.34	16.42	182.51	165.22	250.86	51.25	183.41	33.51	77.16	166.57
5411	-2.49	-7.25	7.03	57.26	29.21	131.56	16.55	181.87	171.24	233.00	48.55	178.21	28.28	68.36	172.18
5412	-3.49	-7.25	7.03	56.82	31.03	134.98	17.30	180.28	176.84	216.54	45.93	172.08	24.01	62.45	177.45
5413	-4.48	-7.26	7.03	56.55	33.11	139.49	18.69	177.77	181.96	201.30	43.43	165.45	21.02	59.98	182.30
5414	-5.48	-7.26	7.03	56.32	35.37	144.94	20.65	174.43	186.57	187.10	41.07	158.83	19.62	61.14	186.67
5415	-6.48	-7.26	7.03	56.10	37.72	151.19	23.03	170.32	190.68	173.79	38.84	152.79	19.87	65.52	190.60
5416	-7.47	-7.26	7.03	55.78	40.15	158.06	25.66	165.53	194.37	161.13	36.78	148.01	21.47	72.22	194.12
5417	-8.47	-7.26	7.03	55.36	42.63	165.43	28.44	160.14	197.71	148.91	34.93	145.27	23.97	80.24	197.33
5418	-9.46	-7.26	7.03	54.77	45.19	173.16	31.30	154.24	200.80	136.85	33.35	145.46	27.02	88.71	200.33
5419	-10.46	-7.26	7.03	54.02	47.84	181.14	34.22	147.93	203.72	124.70	32.14	149.51	30.43	96.93	203.21
5420	-11.46	-7.26	7.03	53.13	50.63	189.28	37.22	141.30	206.55	112.25	31.40	158.23	34.14	104.38	206.06
5421	-12.45	-7.27	7.03	52.17	53.60	197.52	40.32	134.49	209.31	99.42	31.27	172.09	38.09	110.65	208.92
5422	-13.45	-7.27	7.03	51.27	56.82	205.78	43.54	127.68	212.02	86.34	31.85	191.17	42.25	115.49	211.80
5423	-14.45	-7.27	7.03	50.53	60.31	214.01	46.92	121.08	214.63	73.42	33.18	215.08	46.57	118.71	214.69
5424	-15.44	-7.27	7.03	50.16	64.05	222.27	50.56	115.02	217.50	61.73	35.43	243.23	51.11	120.36	217.92
5425	-0.55	-3.95	5.34	60.16	28.03	119.68	9.82	206.20	190.31	301.84	52.54	191.94	26.66	81.42	190.45
5426	-1.64	-3.95	5.34	56.19	28.81	122.90	10.49	205.83	196.78	274.49	48.92	187.91	23.22	68.50	196.86
5427	-2.74	-3.95	5.34	52.91	30.03	128.22	11.94	204.06	202.91	250.51	45.39	182.52	20.71	57.21	202.93
5428	-3.83	-3.95	5.34	50.25	31.62	135.31	14.11	200.92	208.58	229.44	42.05	176.10	19.42	48.20	208.56
5429	-4.92	-3.95	5.34	48.11	33.52	143.78	16.86	196.46	213.72	210.86	38.99	169.06	19.51	42.71	213.65
5430	-6.02	-3.96	5.34	46.38	35.65	153.24	20.02	190.77	218.30	194.38	36.27	161.91	20.89	42.06	218.19
5431	-7.11	-3.96	5.34	44.96	37.98	163.37	23.44	183.94	222.33	179.59	33.99	155.35	23.25	46.42	222.17
5432	-8.21	-3.96	5.34	43.74	40.47	173.93	27.01	176.10	225.87	166.03	32.23	150.34	26.24	54.42	225.67
5433	-9.30	-3.96	5.34	42.61	43.11	184.73	30.66	167.40	229.00	153.21	31.07	148.19	29.61	64.41	228.76
5434	-10.40	-3.96	5.34	41.44	45.87	195.70	34.36	157.97	231.84	140.55	30.58	150.63	33.24	75.08	231.57
5435	-11.49	-3.96	5.34	40.15	48.77	206.83	38.10	147.97	234.48	127.48	30.79	159.50	37.05	85.47	234.20
5436	-12.59	-3.96	5.34	38.66	51.80	218.19	41.89	137.50	237.01	113.41	31.66	176.28	41.05	94.77	236.74
5437	-13.68	-3.96	5.34	36.97	54.99	229.84	45.77	126.60	239.46	97.93	33.12	201.58	45.21	102.19	239.23
5438	-14.77	-3.96	5.34	35.18	58.36	241.77	49.75	115.30	241.82	80.93	35.04	234.95	49.54	106.96	241.67
5439	-15.87	-3.97	5.34	33.50	61.96	253.82	53.86	103.71	243.98	62.92	37.34	275.07	54.03	108.47	243.97
5440	-16.96	-3.97	5.34	32.31	65.80	265.66	58.20	92.25	246.09	45.31	39.89	319.49	58.70	106.18	246.30
5441	-0.54	-5.05	5.34	60.11	28.25	127.63	12.15	205.83	187.15	294.37	52.14	198.04	32.79	80.90	187.41
5442	-1.61	-5.05	5.34	56.77	29.09	130.31	12.38	205.59	193.33	268.56	48.75	193.98	28.22	68.98	193.48
5443	-2.69	-5.06	5.34	54.11	30.37	134.93	13.31	204.01	199.20	245.87	45.47	188.59	24.54	58.88	199.26
5444	-3.77	-5.06	5.34	52.02	32.02	141.22	14.97	201.14	204.66	225.87	42.38	182.18	21.98	51.26	204.64
5445	-4.84	-5.06	5.34	50.39	33.96	148.88	17.27	197.03	209.64	208.17	39.55	175.16	20.79	47.16	209.54
5446	-5.92	-5.06	5.34	49.13	36.13	157.58	20.07	191.77	214.11	192.39	37.06	167.99	21.06	47.45	213.94
5447	-6.99	-5.07	5.34	48.12	38.48	167.03	23.19	185.44	218.10	178.17	34.97	161.33	22.59	52.00	217.85
5448	-8.07	-5.07	5.34	47.26	40.98	177.01	26.53	178.18	221.64	165.08	33.35	156.07	25.05	59.71	221.32
5449	-9.15	-5.07	5.34	46.44	43.61	187.34	30.00	170.12	224.81	152.67	32.26	153.43	28.12	69.25	224.44
5450	-10.22	-5.07	5.34	45.57	46.36	197.93	33.56	161.40	227.71	140.42	31.77	154.98	31.60	79.52	227.29
5451	-11.30	-5.08	5.34	44.58	49.23	208.77	37.18	152.15	230.42	127.81	31.89	162.47	35.38	89.62	229.97
5452	-12.37	-5.08	5.34	43.41	52.23	219.88	40.88	142.49	232.99	114.34	32.61	177.36	39.42	98.81	232.55
5453	-13.45	-5.08	5.34	42.08	55.39	231.29	44.66	132.47	235.45	99.66	33.88	200.32	43.68	106.35	235.08
5454	-14.53	-5.08	5.34	40.68	58.74	242.95	48.54	122.16	237.80	83.75	35.61	231.03	48.14	111.54	237.55
5455	-15.60	-5.09	5.34	39.42	62.34	254.69	52.52	111.71	239.95	67.17	37.76	268.30	52.72	113.86	239.92
5456	-16.68	-5.09	5.34	38.45	66.18	266.15	56.63	101.37	241.78	51.18	40.20	309.84	57.37	112.64	242.08
5457	-0.53	-6.15	5.34	60.16	28.56	136.90	14.70	205.37	183.23	285.25	51.65	205.53	38.10	80.16	183.67
5458	-1.58	-6.15	5.34	57.55	29.46	139.02	14.59	205.27	189.08	261.33	48.56	201.42	32.57	69.42	189.34
5459	-2.63	-6.16	5.34	55.56	30.80	142.89	15.07	203.93	194.64	240.22	45.58	196.03	27.89	60.67	194.77
5460	-3.69	-6.16	5.34	54.07	32.49	148.33	16.22	201.38	199.85	221.51	42.78	189.66	24.26	54.55	199.85
5461	-4.74	-6.16	5.34	52.99	34.48	155.11	18.02	197.69	204.64	204.86	40.22	182.66	21.92	51.83	204.52
5462	-5.79	-6.16	5.34	52.20	36										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
5489	0.45	-3.95	17.16	6.47	4.95	19.76	12.06	127.53	7.27	48.83	11.20	25.13	13.23	132.95	42.42
5490	0.44	-5.05	17.16	23.90	22.07	6.49	35.14	134.35	12.62	47.92	55.95	8.52	35.12	136.93	37.96
5491	0.43	-6.15	17.16	49.90	16.92	7.56	2.88	138.47	10.18	67.25	36.63	16.63	2.86	139.57	39.19
5492	0.41	-7.25	17.16	66.32	19.24	10.01	2.60	173.79	8.00	79.22	25.80	18.75	2.61	174.25	42.49
5493	1.36	-3.95	17.16	7.18	4.14	14.43	11.25	124.44	34.47	48.85	10.51	25.04	12.85	138.61	56.34
5494	1.32	-5.06	17.16	62.88	26.78	3.66	25.40	139.07	25.05	70.33	41.58	3.70	26.98	146.70	53.63
5495	1.28	-6.16	17.16	139.84	28.36	8.47	20.30	155.54	29.98	141.76	36.38	15.64	27.74	160.48	63.88
5496	1.23	-7.25	17.16	176.51	35.49	15.45	19.80	196.19	36.19	178.24	38.95	28.80	31.84	200.79	74.12
5497	2.26	-3.95	17.16	8.20	5.86	9.65	12.41	124.02	71.71	49.92	11.53	28.81	14.97	150.08	86.21
5498	2.20	-5.06	17.16	9.50	7.66	11.25	2.77	158.53	74.36	46.33	15.30	15.27	5.98	175.07	95.28
5499	2.13	-6.16	17.16	10.15	11.08	13.56	2.16	198.97	79.23	44.59	19.09	15.13	7.18	209.91	107.61
5500	2.05	-7.25	17.16	10.39	13.42	15.08	1.38	246.52	84.13	42.76	22.06	31.57	7.88	253.56	119.37
5501	3.16	-3.96	17.16	10.82	5.79	9.67	14.25	127.21	111.52	53.41	13.83	37.61	17.61	166.78	122.84
5502	3.08	-5.06	17.16	55.83	43.06	4.87	8.94	150.16	103.73	90.89	52.70	13.58	11.72	176.46	117.60
5503	2.99	-6.16	17.16	108.93	21.72	11.91	48.63	177.87	89.76	140.63	30.88	11.94	58.88	194.67	109.60
5504	2.87	-7.26	17.16	110.18	8.05	13.29	43.31	227.06	98.31	133.25	13.74	21.65	55.33	237.38	124.48
5505	4.07	-3.96	17.16	17.39	7.35	11.44	16.53	132.22	157.13	59.64	17.75	46.85	20.12	185.55	166.87
5506	3.97	-5.07	17.16	23.98	99.07	16.76	18.87	141.55	133.25	59.43	112.76	18.46	21.19	176.14	142.86
5507	3.84	-6.17	17.16	13.53	12.31	14.09	18.01	177.94	128.30	46.14	13.64	15.97	22.55	200.61	146.55
5508	3.69	-7.26	17.16	39.56	16.54	35.51	21.96	256.59	157.39	46.37	20.35	43.65	22.10	275.57	181.35
5509	4.97	-3.96	17.16	31.50	17.79	16.62	28.95	139.65	219.07	72.62	25.52	52.32	32.32	207.04	228.20
5510	4.85	-5.07	17.16	31.66	81.42	29.80	13.10	166.77	211.94	41.56	92.37	33.05	14.72	212.63	223.87
5511	4.69	-6.17	17.16	13.72	9.54	32.84	29.75	219.60	235.76	37.77	14.71	33.23	35.54	252.30	257.39
5512	4.51	-7.26	17.16	90.30	68.18	59.38	34.15	292.35	265.81	113.57	77.50	68.34	41.17	318.76	293.09
5513	5.87	-3.96	17.16	59.52	38.31	35.32	75.03	151.34	318.66	104.15	44.62	57.04	78.28	235.67	328.33
5514	5.73	-5.07	17.16	78.42	62.12	37.38	69.97	204.80	326.14	115.50	69.56	44.06	73.64	268.45	341.31
5515	5.54	-6.18	17.16	225.86	278.39	46.24	98.07	203.64	285.49	271.39	298.47	46.28	101.73	244.87	303.74
5516	5.33	-7.26	17.16	463.61	196.46	21.07	239.36	183.44	212.15	517.67	214.08	21.18	261.47	204.26	230.96
5517	6.78	-3.96	17.16	262.08	112.18	12.53	371.34	87.31	219.56	394.67	115.08	59.36	379.52	182.13	224.60
5518	6.61	-5.08	17.16	360.58	172.45	15.01	357.02	110.74	214.95	464.95	181.60	45.50	368.91	179.40	222.54
5519	6.40	-6.18	17.16	338.40	356.96	23.76	211.86	98.79	169.02	406.79	381.03	27.40	217.64	139.42	177.03
5520	6.14	-7.26	17.16	338.34	223.12	18.81	158.16	99.29	98.18	381.44	242.21	19.65	171.96	118.63	106.62
5521	7.68	-3.96	17.16	193.63	95.64	17.72	237.19	50.97	64.36	288.79	115.16	35.15	240.70	121.68	65.45
5522	7.49	-5.08	17.16	226.79	139.46	16.96	200.30	56.95	55.76	301.76	158.76	28.83	204.10	112.01	57.03
5523	7.25	-6.18	17.16	231.62	158.01	17.05	160.37	51.07	49.54	284.99	174.24	23.30	164.65	89.38	51.54
5524	6.96	-7.27	17.16	242.97	184.59	16.50	131.37	54.90	47.74	279.90	200.56	18.15	140.28	77.20	53.29
5525	8.59	-3.97	17.16	137.51	83.32	15.49	165.71	30.65	24.30	199.00	117.69	25.36	167.51	86.63	25.85
5526	8.37	-5.09	17.16	158.87	101.82	15.79	144.42	34.27	21.25	208.93	128.98	23.06	146.76	80.37	23.49
5527	8.10	-6.19	17.16	168.66	117.94	15.71	120.73	34.28	19.90	207.16	138.35	20.10	123.99	69.79	23.45
5528	7.78	-7.27	17.16	178.77	129.41	15.84	100.17	36.36	21.08	207.92	144.65	17.82	106.16	60.99	27.55
5529	9.49	-3.97	17.16	99.90	72.70	14.19	124.32	20.13	11.30	132.98	117.45	21.04	125.39	65.19	15.64
5530	9.25	-5.09	17.16	114.81	83.70	14.42	110.19	22.75	10.71	143.31	118.29	19.78	111.75	61.59	16.82
5531	8.96	-6.19	17.16	124.86	93.14	14.63	94.45	24.29	10.90	148.73	118.02	18.28	96.83	56.32	18.74
5532	8.60	-7.27	17.16	133.20	101.21	14.81	78.70	26.24	11.99	153.19	118.10	16.85	82.81	51.04	21.84
5533	10.39	-3.97	17.16	73.40	65.90	13.67	95.31	14.11	6.71	84.37	116.06	19.76	95.82	49.45	14.59
5534	10.13	-5.09	17.16	83.96	71.76	13.84	85.67	16.02	7.34	94.99	111.00	18.77	86.50	47.71	17.33
5535	9.81	-6.20	17.16	92.29	77.10	14.05	74.66	17.69	8.24	103.15	105.38	17.63	76.01	45.26	19.83
5536	9.42	-7.27	17.16	99.17	81.55	14.27	63.03	19.55	9.40	109.91	100.15	16.52	65.40	42.57	22.24
5537	11.30	-3.97	17.16	53.62	61.30	13.52	72.54	10.10	5.59	50.21	111.86	19.81	72.54	35.56	15.64
5538	11.01	-5.10	17.16	60.96	63.44	13.66	66.04	11.55	6.72	59.94	103.77	18.82	66.07	35.38	18.97
5539	10.66	-6.20	17.16	67.34	65.33	13.84	58.50	13.07	7.92	68.33	94.86	17.71	58.65	34.93	21.69
5540	10.24	-7.27	17.16	72.79	66.78	14.06	50.29	14.83	9.18	75.60	86.19	16.63	50.81	34.34	23.83
5541	12.20	-3.97	17.16	37.74	58.09	13.44	53.08	7.09	6.12	29.25	104.36	19.86	52.68	22.10	16.75
5542	11.90	-5.10	17.16	42.77	57.37	13.58	49.09	8.28	7.44	36.41	94.97	18.87	48.41	23.37	20.38
5543	11.51	-6.20	17.16	47.45	56.39	13.77	44.42	9.70	8.80	43.03	84.44	17.76	43.40	24.68	23.27
5544	11.06	-7.27	17.16	51.64	55.14	13.98	39.26	11.44	10.17	49.15	73.74	16.70	37.93	25.99	25.39
5545	13.11	-3.97	17.16	23.91	55.77	13.15	35.32	4.94	8.22	18.42	93.56	18.13	34.91	9.70	17.68
5546	12.78	-5.11	17.16	27.35	53.02	13.33	33.72	6.02	9.59	22.05	84.18	17.40	32.84	12.17	21.39
5547	12.37	-6.21	17.16	30.75	49.76	13.56	31.78	7.45	11.01	25.75	73.33	16.61	30.13	14.96	24.41
5548	11.88	-7.28	17.16	33.97	46.27	13.81	29.56	9.29	12.42	29.56	61.91	15.88	26.88	17.95	26.63
5549	14.01	-3.97	17.16	10.90	54.19	12.28	19.22	4.31	13.62	9.91	80.55	12.60	20.38	4.44	19.49
5550	13.66	-5.11	17.16	13.27	50.29	12.57	20.48	5.46	14.69	11.70	71.99	12.87	21.29	5.66	22.61
5551	13.22	-6.21	17.16	15.90	45.77	12.93	21.49	7.09	15.83	13.51	62.07	13.16	21.27	8.58	25.41
5552	12.70	-7.28	17.16	18.50	40.74	13.28	22.17	9.11	17.04	15.26	50.98	13.46	20.23	12.25	27.88
5553	0.47	-3.95	15.47	24.14	16.38	20.18	19.28	95.53	34.40	120.79	36.99	25.24	22.57	103.01	44.05
5554	0.45	-5.05	15.47	22.75	14.09	20.96	13.88	131.43	33.26	115.61	30.40	33.91	18.82	135.65	50.41
5555	0.44	-6.15	15.47	22.31	15.68	23.13	3.95	165.50	30.02	110.25	34.94	42.79	13.72	167.24	58.23
5556	0.42	-7.25	15.47	22.78	17.59	26.67	11.05	197.05	26.49	105.68	37.33	50.40	18.13	196.97	64.10
5557	1.40	-3.95	15.47	24.47	15.14	20.18	18.83	93.59	15.51	122.23	38.16	21.83	23.07	112.51	36.12
5558	1.36	-5.06	15.47	25.27	15.38	17.69	10.63	122.10	12.23	119.59	35.44	26.95	18.26	134.86	43.16
5559	1.32	-6.16	15.47	31.95	18.65	20.88	3.61	147.66	9.51	118.83	39.13	38.16	18.85	155.82	52.70
5560	1.27	-7.25	15.47	36.62	22.13	26.03	7.27	175.02	9.72	116.55	41.89	49.56	22.32	179.98	60.60
5561	2.33	-3.95	15.47	26.55	14.80	22.05	21.16								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
5587	7.49	-6.18	15.47	108.28	89.80	46.41	89.45	73.45	48.95	171.33	108.82	59.90	95.78	150.57	64.25
5588	7.21	-7.26	15.47	119.88	96.08	48.63	70.68	82.54	46.75	173.44	110.98	52.90	79.63	138.77	68.72
5589	8.84	-3.96	15.47	74.30	61.55	43.96	104.48	50.18	31.70	155.14	93.88	75.17	106.30	167.38	41.86
5590	8.64	-5.08	15.47	85.76	70.68	45.29	92.66	55.80	29.84	155.11	96.65	68.38	95.49	156.04	44.99
5591	8.37	-6.19	15.47	95.34	78.51	45.90	79.56	60.63	29.24	153.92	98.36	60.20	83.93	142.40	49.75
5592	8.06	-7.27	15.47	103.18	85.49	46.99	64.57	66.75	29.56	152.57	100.32	53.58	71.39	129.88	55.92
5593	9.78	-3.97	15.47	63.05	57.81	42.49	86.55	41.30	17.95	131.28	92.73	71.10	87.69	148.38	34.70
5594	9.54	-5.09	15.47	72.00	63.35	43.54	77.12	45.70	18.57	131.28	91.27	65.93	79.00	140.15	40.94
5595	9.26	-6.19	15.47	79.07	68.33	44.42	66.61	49.82	19.98	129.95	89.31	59.86	69.64	130.15	47.15
5596	8.91	-7.27	15.47	84.71	72.52	45.44	55.14	54.58	21.79	128.31	87.54	54.15	60.09	120.09	53.20
5597	10.71	-3.97	15.47	50.60	54.89	41.93	69.23	33.69	12.83	102.81	89.67	71.22	69.90	125.97	35.28
5598	10.45	-5.09	15.47	57.47	57.61	42.71	62.20	37.21	14.98	103.75	85.70	66.40	63.34	121.01	42.86
5599	10.14	-6.19	15.47	63.00	60.03	43.53	54.29	40.87	17.35	103.77	81.22	60.87	56.20	114.88	49.41
5600	9.76	-7.27	15.47	67.30	62.04	44.47	45.72	45.04	19.74	103.30	76.96	55.35	48.94	108.31	54.85
5601	11.64	-3.97	15.47	38.71	53.23	41.79	53.41	27.15	12.21	74.11	84.83	72.62	53.62	101.25	37.46
5602	11.36	-5.10	15.47	43.85	53.71	42.41	48.57	30.13	14.96	76.10	79.57	67.79	48.96	99.50	45.67
5603	11.02	-6.20	15.47	48.18	54.01	43.13	43.08	33.51	17.70	77.60	73.70	62.31	43.80	97.13	52.39
5604	10.61	-7.27	15.47	51.61	54.08	43.98	37.12	37.45	20.32	78.67	67.89	56.74	38.49	94.36	57.50
5605	12.57	-3.97	15.47	27.87	52.71	41.40	39.01	21.47	13.89	47.72	78.36	71.64	38.62	75.07	39.22
5606	12.27	-5.10	15.47	31.62	51.55	42.00	36.21	24.19	16.88	50.42	72.69	67.11	35.60	76.39	47.78
5607	11.90	-6.20	15.47	34.96	50.16	42.72	33.00	27.48	19.82	53.02	66.32	62.01	32.19	77.60	54.70
5608	11.46	-7.27	15.47	37.76	48.63	43.56	29.49	31.42	22.60	55.41	59.80	56.79	28.60	78.62	59.81
5609	13.50	-3.97	15.47	18.08	53.10	40.05	26.09	16.66	18.10	25.42	70.71	63.43	24.77	48.92	40.57
5610	13.18	-5.10	15.47	20.77	50.89	40.82	25.32	19.35	21.05	28.28	65.33	60.27	23.21	52.91	49.16
5611	12.78	-6.21	15.47	23.37	48.28	41.71	24.37	22.71	24.00	31.34	59.10	56.76	21.37	57.29	56.27
5612	12.31	-7.27	15.47	25.75	45.55	42.70	23.24	26.80	26.76	34.49	52.57	53.19	19.36	61.82	61.56
5613	14.43	-3.97	15.47	9.28	54.23	37.14	15.90	12.90	25.61	9.85	62.76	43.69	13.10	24.68	43.04
5614	14.09	-5.11	15.47	11.26	51.42	38.28	17.25	15.61	28.17	12.06	57.96	43.94	13.01	30.51	51.02
5615	13.66	-6.21	15.47	13.45	48.14	39.60	18.45	19.15	30.76	14.68	52.39	44.15	12.70	37.51	57.96
5616	13.16	-7.28	15.47	15.61	44.47	41.00	19.41	23.40	33.30	17.66	46.20	44.33	12.12	44.84	63.68
5617	0.48	-3.95	13.78	35.09	18.73	38.09	13.49	99.47	61.25	175.65	48.64	52.30	19.83	106.47	67.81
5618	0.47	-5.05	13.78	35.10	19.73	42.47	9.42	115.78	59.89	171.40	48.44	60.17	20.09	118.77	69.84
5619	0.46	-6.15	13.78	35.07	19.72	47.70	6.65	132.82	58.39	166.50	46.81	69.89	21.12	132.35	72.58
5620	0.44	-7.25	13.78	35.23	20.11	53.15	11.93	148.72	56.16	161.09	46.61	80.74	24.12	145.23	75.24
5621	1.44	-3.95	13.78	35.66	20.47	38.59	14.51	97.91	43.41	181.11	52.57	49.20	22.08	120.26	53.93
5622	1.41	-5.06	13.78	34.88	21.87	42.05	10.77	113.63	42.10	176.00	52.02	56.46	23.07	129.12	57.40
5623	1.37	-6.16	13.78	33.88	23.39	46.51	7.11	130.03	40.40	170.21	51.10	66.04	23.74	139.43	61.45
5624	1.32	-7.25	13.78	32.74	25.78	51.73	11.37	145.00	38.49	164.29	51.48	77.38	26.39	149.09	65.74
5625	2.40	-3.95	13.78	37.86	23.31	40.03	17.29	96.17	25.73	187.11	56.96	45.37	25.81	135.17	43.57
5626	2.34	-5.06	13.78	37.38	24.58	42.65	13.82	110.84	25.07	181.80	55.86	51.96	27.41	140.63	49.15
5627	2.28	-6.16	13.78	37.13	28.11	46.32	8.56	126.08	23.04	175.84	56.15	61.44	27.67	147.32	54.84
5628	2.20	-7.25	13.78	37.36	32.83	51.52	9.77	138.99	22.43	169.85	57.76	73.48	29.62	152.37	60.87
5629	3.35	-3.96	13.78	41.69	26.95	42.17	23.24	94.13	9.92	193.50	61.22	41.81	32.30	150.03	39.42
5630	3.28	-5.06	13.78	42.93	29.88	44.72	19.25	106.19	11.03	188.81	61.71	47.69	33.23	151.02	46.46
5631	3.19	-6.16	13.78	45.12	35.10	48.54	14.04	117.67	11.00	184.06	62.84	57.01	33.73	151.61	53.38
5632	3.07	-7.26	13.78	47.03	41.17	54.29	9.44	127.05	12.74	178.19	64.80	69.75	33.74	150.66	59.99
5633	4.31	-3.96	13.78	47.46	31.59	45.21	33.23	90.75	10.73	199.48	65.75	41.88	42.35	163.34	41.21
5634	4.22	-5.07	13.78	49.99	37.48	48.51	27.71	100.51	10.58	194.38	69.09	46.48	41.24	160.78	48.04
5635	4.10	-6.17	13.78	51.33	40.71	53.34	21.92	110.06	12.46	187.82	67.78	54.88	40.52	157.38	55.26
5636	3.95	-7.26	13.78	50.58	49.38	60.31	13.23	117.54	13.93	179.50	71.69	67.54	37.10	152.10	62.27
5637	5.27	-3.96	13.78	52.96	36.99	50.08	45.47	85.30	16.61	202.12	71.08	51.63	54.09	175.45	42.58
5638	5.15	-5.07	13.78	54.88	42.47	53.74	38.35	93.78	16.36	195.71	73.45	52.31	51.08	170.77	49.86
5639	5.01	-6.17	13.78	56.15	44.88	58.25	31.39	103.22	17.90	188.27	71.12	56.34	48.67	165.97	57.37
5640	4.83	-7.26	13.78	55.39	54.43	64.29	20.37	112.57	19.72	179.19	75.82	65.60	42.81	160.45	65.84
5641	6.23	-3.96	13.78	51.67	41.37	55.06	50.94	80.28	19.91	195.33	76.18	66.70	58.71	192.25	43.12
5642	6.09	-5.07	13.78	55.23	44.00	58.80	45.12	87.87	21.57	191.04	74.57	63.41	56.70	185.02	52.17
5643	5.92	-6.17	13.78	61.24	55.50	63.11	38.20	94.51	20.75	188.10	80.60	62.54	53.74	174.38	58.82
5644	5.71	-7.26	13.78	67.21	57.77	68.09	32.62	101.37	20.00	183.97	78.19	66.44	53.23	163.22	65.86
5645	7.19	-3.96	13.78	54.90	45.80	60.06	62.75	74.22	18.21	195.97	79.59	83.07	69.29	206.21	41.85
5646	7.03	-5.08	13.78	61.35	49.70	63.23	57.30	80.52	19.33	192.75	78.90	76.40	67.38	195.84	50.95
5647	6.83	-6.18	13.78	62.81	59.43	67.00	45.32	86.79	19.40	184.06	83.65	71.53	59.13	182.89	59.00
5648	6.59	-7.26	13.78	62.43	58.88	71.46	34.75	92.01	19.27	174.09	78.44	70.77	53.51	168.47	65.91
5649	8.15	-3.96	13.78	50.69	47.38	64.24	61.61	68.20	14.38	184.01	81.11	97.74	67.07	215.35	41.11
5650	7.96	-5.08	13.78	55.06	51.77	66.66	54.64	72.89	15.56	179.26	80.56	89.06	63.23	202.74	50.45
5651	7.74	-6.18	13.78	58.78	54.95	69.84	47.13	78.33	17.71	173.29	78.36	81.59	59.54	188.79	59.87
5652	7.47	-7.26	13.78	60.73	59.55	73.59	38.08	84.06	19.72	165.73	78.00	76.93	54.94	174.17	67.93
5653	9.10	-3.96	13.78	47.46	48.63	67.28	60.31	62.37	12.23	172.41	80.68	110.71	64.93	218.63	42.63
5654	8.90	-5.08	13.78	51.65	51.91	69.43	53.80	66.44	14.76	167.37	79.11	101.45	61.29	205.86	52.93
5655	8.65	-6.18	13.78	55.04	54.89	71.72	46.30	70.95	17.48	161.22	76.97	91.70	57.31	191.31	62.33
5656	8.34	-7.27	13.78	56.89	57.26	74.44	37.81	75.84	20.08	153.99	74.47	83.62	52.97	176.12	70.43
5657	10.06	-3.97	13.78	42.71	49.17	69.21	54.38	56.13	12.03	153.88	78.45	122.16	58.45	211.12	45.67
5658	9.84	-5.09	13.78	46.34	51.20	70.93	48.75	59.63	15.29	149.52	76.00	112.33	55.40	200.01	56.62
5659	9.56	-6.19	13.78	49.16	52.95	72.78	42.33	63.52	18.34	144.19	72.94				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
5685	1.48	-3.95	12.09	45.21	22.58	56.57	12.42	111.07	74.55	234.13	60.32	76.97	24.48	128.87	79.98
5686	1.45	-5.05	12.09	44.13	23.19	61.59	10.55	118.38	73.52	227.33	59.14	84.58	27.54	130.30	81.87
5687	1.41	-6.16	12.09	42.86	23.63	67.41	9.93	125.87	72.04	219.29	57.44	93.90	30.40	131.53	83.81
5688	1.36	-7.25	12.09	41.54	23.76	73.85	12.55	132.41	70.35	210.20	55.06	104.64	33.07	131.84	85.95
5689	2.46	-3.95	12.09	47.08	24.61	58.62	14.89	108.94	60.96	244.15	63.84	72.43	28.36	147.19	68.66
5690	2.41	-5.06	12.09	45.58	25.95	63.53	12.57	115.52	60.42	236.44	62.92	80.33	31.62	145.82	71.97
5691	2.35	-6.16	12.09	43.75	26.97	69.33	11.15	122.12	59.75	227.36	61.12	90.11	34.64	143.74	75.50
5692	2.27	-7.25	12.09	41.62	27.79	75.83	12.46	127.95	58.91	217.04	58.68	101.43	37.13	140.81	79.21
5693	3.45	-3.95	12.09	49.39	27.34	61.78	18.79	106.16	48.95	253.21	67.44	67.24	33.04	166.50	59.62
5694	3.38	-5.06	12.09	47.79	29.13	66.65	15.98	111.98	48.90	244.56	66.45	75.40	36.34	162.63	61.98
5695	3.29	-6.16	12.09	45.72	30.65	72.42	13.43	117.89	49.02	234.20	64.62	85.50	39.10	157.65	69.69
5696	3.18	-7.26	12.09	43.20	32.07	78.87	13.04	123.16	49.00	222.58	62.21	97.16	41.33	151.61	74.92
5697	4.43	-3.96	12.09	51.45	30.47	65.97	23.75	102.77	39.31	260.19	70.82	63.94	38.22	187.13	53.43
5698	4.34	-5.06	12.09	49.98	32.31	70.71	20.55	107.82	39.65	250.90	69.40	71.51	41.48	180.84	59.87
5699	4.22	-6.17	12.09	48.07	34.70	76.22	17.04	112.96	40.47	239.79	68.03	81.12	43.96	173.00	66.56
5700	4.08	-7.26	12.09	45.58	36.16	82.28	14.96	117.78	41.45	227.24	65.29	92.42	46.02	164.04	73.14
5701	5.42	-3.96	12.09	52.57	33.63	70.67	28.75	98.88	31.97	264.32	73.54	65.82	43.07	209.61	49.88
5702	5.31	-5.07	12.09	51.61	35.82	75.25	25.34	103.23	33.06	254.85	72.20	71.17	46.27	200.66	57.95
5703	5.16	-6.17	12.09	50.14	38.68	80.62	21.30	107.57	34.55	243.31	70.94	78.91	48.62	189.53	65.93
5704	4.99	-7.26	12.09	47.86	39.98	86.47	18.10	111.54	36.62	230.02	67.79	88.85	50.53	177.00	73.49
5705	6.41	-3.96	12.09	53.45	36.77	75.73	34.37	94.34	27.84	266.84	75.27	75.09	48.16	231.96	49.11
5706	6.27	-5.07	12.09	52.82	39.55	79.98	30.31	98.07	29.83	256.66	74.52	76.60	50.84	220.49	58.51
5707	6.10	-6.17	12.09	51.07	40.78	84.92	25.66	102.14	31.40	243.73	71.58	80.56	52.94	207.04	67.36
5708	5.90	-7.26	12.09	48.29	43.05	90.38	20.81	105.95	33.36	229.00	69.31	87.48	53.72	191.97	75.47
5709	7.39	-3.96	12.09	52.28	39.53	80.78	36.82	89.39	26.09	263.62	76.05	91.11	50.28	253.40	50.28
5710	7.23	-5.07	12.09	51.72	41.77	84.64	32.54	92.64	28.12	253.05	74.74	88.43	52.82	239.83	60.66
5711	7.04	-6.18	12.09	50.90	42.86	89.03	28.52	96.17	29.99	240.75	71.62	87.48	55.62	223.87	70.24
5712	6.81	-7.26	12.09	49.13	45.06	93.80	23.94	99.86	31.89	226.50	69.36	89.58	56.98	206.41	78.80
5713	8.38	-3.96	12.09	50.64	42.21	85.74	38.59	84.09	25.73	256.90	75.28	112.56	51.68	271.32	52.81
5714	8.20	-5.08	12.09	50.60	43.68	89.13	34.73	87.03	27.59	246.56	73.48	105.99	54.66	256.31	64.06
5715	7.98	-6.18	12.09	49.74	45.18	92.88	30.14	90.24	29.63	233.86	71.12	99.97	57.00	238.53	74.29
5716	7.72	-7.26	12.09	47.86	45.84	96.94	25.54	93.53	31.59	219.39	67.60	96.42	58.46	219.00	83.04
5717	9.36	-3.96	12.09	47.31	44.56	90.60	37.48	78.57	25.78	242.25	72.88	138.48	50.54	282.59	56.18
5718	9.16	-5.08	12.09	47.41	45.44	93.37	33.99	81.13	27.64	232.66	70.96	128.29	53.88	266.99	68.30
5719	8.92	-6.18	12.09	46.88	46.14	96.51	30.10	84.05	29.47	221.04	68.20	117.60	56.82	248.59	79.08
5720	8.62	-7.26	12.09	45.46	46.50	99.92	26.13	87.21	31.29	207.82	64.76	108.37	58.69	228.37	87.93
5721	10.35	-3.96	12.09	42.70	46.97	95.34	34.80	72.81	25.19	219.55	68.82	168.06	48.04	285.04	59.75
5722	10.13	-5.08	12.09	43.02	47.23	97.55	31.94	75.09	27.11	211.57	66.86	154.52	51.91	269.96	72.80
5723	9.86	-6.19	12.09	42.82	47.32	100.04	28.82	77.76	29.00	201.92	64.13	139.41	55.28	252.09	84.14
5724	9.53	-7.27	12.09	41.87	47.13	102.77	25.67	80.78	30.84	190.95	60.75	124.69	57.53	232.37	93.11
5725	11.33	-3.97	12.09	36.75	49.61	99.65	30.80	66.58	23.65	187.97	63.35	198.59	44.35	275.61	63.12
5726	11.09	-5.09	12.09	37.34	49.29	101.37	28.78	68.68	25.85	182.59	61.41	182.02	48.73	262.40	77.14
5727	10.80	-6.19	12.09	37.52	48.81	103.31	26.60	71.20	28.06	176.00	58.81	163.08	52.44	246.59	89.03
5728	10.44	-7.27	12.09	37.12	48.08	105.46	24.46	74.15	30.18	168.38	55.70	143.66	54.91	228.95	98.14
5729	12.32	-3.97	12.09	29.70	52.54	102.95	26.03	59.55	21.18	149.09	56.80	225.19	39.62	325.11	65.97
5730	12.06	-5.09	12.09	30.59	51.77	104.37	25.01	61.62	24.07	147.01	54.88	206.46	44.35	324.18	80.86
5731	11.73	-6.19	12.09	31.22	50.79	105.98	23.90	64.15	26.96	144.27	52.47	184.88	48.20	330.09	93.22
5732	11.35	-7.27	12.09	31.44	49.56	107.77	22.84	67.18	29.70	140.82	49.77	162.23	50.75	316.34	102.49
5733	13.30	-3.97	12.09	22.18	55.81	104.37	21.04	51.44	18.74	107.25	49.56	240.99	33.83	213.78	67.97
5734	13.02	-5.09	12.09	23.36	54.68	105.82	21.09	53.64	22.77	108.41	47.67	221.92	38.61	208.39	83.42
5735	12.67	-6.20	12.09	24.43	53.29	107.46	21.14	56.37	26.62	109.48	45.52	199.95	42.42	201.58	96.03
5736	12.25	-7.27	12.09	25.23	51.65	109.27	21.20	59.65	30.16	110.21	43.30	176.55	44.96	193.44	105.45
5737	14.29	-3.97	12.09	14.75	59.29	102.81	16.33	41.94	18.59	65.72	42.75	237.21	27.24	159.86	69.10
5738	13.99	-5.10	12.09	16.13	57.92	104.74	17.54	44.42	23.65	69.40	40.99	220.75	31.83	160.00	84.64
5739	13.61	-6.20	12.09	17.53	56.14	106.93	18.76	47.51	28.34	73.56	39.13	201.82	35.54	159.62	97.29
5740	13.16	-7.27	12.09	18.81	54.14	109.28	19.91	51.22	32.49	77.81	37.37	181.31	38.10	158.55	106.73
5741	15.28	-3.97	12.09	9.27	63.01	97.54	12.54	31.17	22.99	35.22	37.09	207.58	19.24	94.89	69.05
5742	14.95	-5.10	12.09	10.57	61.43	100.46	14.81	33.92	28.21	39.93	35.50	197.51	23.28	100.62	83.71
5743	14.55	-6.20	12.09	12.08	59.36	103.78	17.00	37.49	33.09	45.67	33.91	185.75	26.65	107.33	95.81
5744	14.07	-7.27	12.09	13.55	56.82	107.31	19.12	41.73	37.50	51.72	32.32	172.65	29.25	113.82	105.62
5745	0.51	-3.95	10.41	51.73	23.42	72.11	10.46	132.48	115.05	266.27	61.29	108.21	24.08	116.06	117.38
5746	0.50	-5.05	10.41	51.38	23.16	78.08	10.62	135.92	113.15	258.88	59.77	115.24	28.36	116.14	116.92
5747	0.48	-6.15	10.41	51.07	22.62	84.85	11.74	139.49	110.67	249.95	57.66	123.61	32.03	115.90	116.23
5748	0.47	-7.25	10.41	50.91	21.81	92.09	14.08	142.78	107.48	239.70	55.08	133.02	34.90	115.05	115.22
5749	1.52	-3.95	10.41	53.77	24.25	73.31	10.96	130.75	103.60	282.53	64.66	105.84	27.38	135.92	106.77
5750	1.49	-5.05	10.41	52.65	24.20	79.37	11.17	133.98	102.23	273.84	63.01	113.30	32.48	133.95	107.29
5751	1.45	-6.15	10.41	51.42	23.89	86.24	12.32	137.34	100.39	263.37	60.72	122.18	36.78	131.36	107.74
5752	1.41	-7.25	10.41	50.25	23.29	93.63	14.65	140.42	98.02	251.41	57.87	132.13	40.10	128.03	108.05
5753	2.53	-3.95	10.41	56.21	25.73	75.78	12.30	128.28	92.81	298.97	67.87	101.31	31.08	157.79	97.10
5754	2.48	-5.06	10.41	54.50	25.89	81.80	12.31	131.28	91.93	288.90	66.08	109.32	36.89	153.74	98.70
5755	2.42	-6.16	10.41	52.53	25.87	88.63	13.18	134.39	90.68	276.77	63.65	118.79	41.75	148.74	100.34
5756	2.34	-7.25	10.41	50.51	25.54	95.99	15.22	137.28	89.10	262.96	60.60	129.35	45.45	142.81	102.01

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
5783	9.19	-6.18	10.41	57.76	44.07	120.49	24.10	99.11	52.12	322.20	63.00	135.66	71.48	312.16	97.04
5784	8.90	-7.26	10.41	54.39	43.44	124.66	23.97	101.17	52.62	299.23	59.93	127.26	78.15	285.42	106.33
5785	10.63	-3.96	10.41	58.10	48.43	120.62	24.40	90.47	46.71	338.12	58.92	203.23	52.48	374.50	75.53
5786	10.42	-5.08	10.41	56.53	47.75	123.39	24.21	91.76	47.62	323.71	58.71	188.01	63.41	354.25	89.13
5787	10.16	-6.18	10.41	54.32	46.96	126.51	24.25	93.31	48.44	305.79	57.44	170.48	72.99	329.34	101.79
5788	9.84	-7.27	10.41	51.45	46.03	129.87	24.50	95.16	49.16	284.99	54.96	152.89	80.00	300.94	112.16
5789	11.65	-3.96	10.41	51.30	52.30	128.40	22.93	84.90	41.74	301.97	51.30	260.58	52.38	381.05	77.15
5790	11.41	-5.09	10.41	50.29	51.35	130.55	23.36	85.94	43.06	290.75	51.34	239.55	63.70	361.07	92.79
5791	11.12	-6.19	10.41	48.77	50.25	132.91	23.97	87.24	44.32	276.67	50.55	214.56	73.44	336.34	107.03
5792	10.78	-7.27	10.41	46.70	48.99	135.41	24.68	88.88	45.52	260.15	48.74	187.84	80.42	307.99	118.41
5793	12.66	-3.97	10.41	41.85	56.40	135.76	21.01	78.09	35.72	248.30	44.13	320.14	51.73	366.52	79.61
5794	12.41	-5.09	10.41	41.59	55.30	137.38	22.15	79.05	37.75	241.83	43.93	293.68	63.06	348.76	97.15
5795	12.09	-6.19	10.41	41.00	53.98	139.10	23.37	80.29	39.83	233.50	43.24	261.99	72.45	326.66	112.65
5796	11.72	-7.27	10.41	40.03	52.41	140.87	24.52	81.91	41.86	223.43	41.92	227.36	78.92	301.21	124.69
5797	13.67	-3.97	10.41	30.59	60.65	140.76	18.73	68.84	28.94	181.33	39.60	366.88	49.60	322.11	83.36
5798	13.40	-5.09	10.41	31.19	59.54	142.20	20.62	70.07	32.17	180.74	38.73	336.95	60.42	309.52	102.19
5799	13.06	-6.19	10.41	31.68	58.11	143.70	22.42	71.63	35.52	179.48	37.62	301.38	68.91	293.69	118.12
5800	12.65	-7.27	10.41	31.95	56.33	145.21	23.99	73.62	38.79	177.29	36.29	262.41	74.50	275.26	130.07
5801	14.68	-3.97	10.41	20.53	65.20	141.53	16.03	57.01	22.94	118.95	40.16	385.54	43.67	250.31	86.67
5802	14.39	-5.09	10.41	21.75	64.21	143.42	18.59	58.81	27.91	123.06	39.13	356.38	53.26	245.58	105.43
5803	14.03	-6.20	10.41	23.02	62.69	145.46	20.97	61.07	32.90	127.51	37.63	322.43	60.59	239.19	120.46
5804	13.59	-7.27	10.41	24.22	60.73	147.55	23.03	63.85	37.57	131.74	35.72	285.30	65.35	231.25	131.35
5805	15.70	-3.97	10.41	11.05	69.53	135.97	13.35	42.42	21.32	52.26	45.47	355.74	36.26	150.64	88.88
5806	15.38	-5.10	10.41	12.39	68.68	139.04	16.55	44.90	27.64	59.13	45.38	333.65	45.01	154.50	106.19
5807	14.99	-6.20	10.41	13.93	67.16	142.53	19.49	48.08	33.79	67.18	43.96	308.87	51.91	158.92	119.33
5808	14.53	-7.27	10.41	15.60	64.82	146.23	22.15	51.87	39.45	75.43	41.08	282.10	56.81	162.77	129.65
5809	0.52	-3.95	8.72	58.05	25.38	87.80	10.09	155.42	139.37	301.28	62.64	137.55	26.91	115.40	140.73
5810	0.51	-5.05	8.72	57.51	25.07	94.50	11.55	156.87	137.11	292.67	61.18	144.17	32.55	113.97	139.36
5811	0.50	-6.15	8.72	56.98	24.60	102.15	13.53	158.39	134.20	282.21	59.28	152.09	37.32	112.06	137.58
5812	0.48	-7.25	8.72	56.57	23.98	110.49	15.98	159.84	130.57	270.12	57.01	161.12	40.95	109.63	135.35
5813	1.56	-3.95	8.72	61.34	25.88	89.02	10.35	153.39	130.03	324.67	65.97	136.13	30.70	136.44	131.89
5814	1.53	-5.05	8.72	60.12	25.62	95.86	12.02	154.76	128.22	314.40	64.34	143.14	37.35	133.38	131.26
5815	1.49	-6.15	8.72	58.78	25.19	103.64	14.17	156.20	125.86	301.94	62.20	151.49	42.96	129.56	130.38
5816	1.45	-7.25	8.72	57.49	24.59	112.11	16.73	157.57	122.90	287.59	59.59	160.98	47.22	125.02	129.16
5817	2.60	-3.95	8.72	65.04	26.97	91.68	11.06	150.40	121.07	349.61	68.98	132.31	34.78	159.95	123.60
5818	2.55	-5.06	8.72	63.23	26.78	98.47	12.80	151.71	119.67	337.49	67.23	139.84	42.46	155.18	123.78
5819	2.49	-6.16	8.72	61.16	26.43	106.21	14.99	153.09	117.84	322.80	64.87	148.75	48.93	149.32	123.84
5820	2.42	-7.25	8.72	59.03	25.88	114.63	17.56	154.43	115.48	305.91	61.96	158.81	53.81	142.52	123.67
5821	3.64	-3.95	8.72	69.03	28.60	95.54	12.14	146.49	112.72	376.06	71.45	126.17	39.03	186.29	116.15
5822	3.57	-5.06	8.72	66.72	28.47	102.15	13.85	147.76	111.70	361.91	69.66	134.30	47.77	179.67	117.21
5823	3.49	-6.16	8.72	64.02	28.18	109.70	15.99	149.13	110.32	344.71	67.14	143.87	55.15	171.61	118.28
5824	3.38	-7.25	8.72	61.12	27.69	117.93	18.49	150.49	108.49	324.98	63.95	154.64	60.71	162.33	119.17
5825	4.68	-3.96	8.72	73.19	30.71	100.34	13.50	141.70	105.15	403.83	73.11	118.03	43.31	215.82	109.75
5826	4.59	-5.06	8.72	70.47	30.58	106.67	15.13	142.98	104.43	387.49	71.36	126.80	53.17	207.19	111.79
5827	4.48	-6.16	8.72	67.20	30.33	113.92	17.19	144.38	103.42	367.56	68.80	137.08	61.56	196.68	113.94
5828	4.35	-7.26	8.72	63.59	29.86	121.85	19.57	145.81	102.03	344.68	65.39	148.60	67.88	184.65	115.91
5829	5.72	-3.96	8.72	77.37	33.22	105.83	15.00	136.14	98.37	432.45	73.61	108.90	47.43	248.89	104.51
5830	5.61	-5.07	8.72	74.30	33.04	111.81	16.57	137.45	97.91	413.86	72.09	118.12	58.52	238.03	107.65
5831	5.48	-6.17	8.72	70.55	32.76	118.69	18.55	138.92	97.19	391.04	69.61	128.93	68.05	224.77	110.99
5832	5.32	-7.26	8.72	66.30	32.27	126.25	20.83	140.46	96.14	364.77	66.08	141.10	75.24	209.59	114.10
5833	6.76	-3.96	8.72	81.41	36.12	111.85	16.50	130.01	92.33	461.23	72.56	101.19	51.22	285.68	100.41
5834	6.63	-5.07	8.72	78.07	35.82	117.44	18.06	131.36	92.06	440.38	71.52	110.13	63.63	272.38	104.86
5835	6.47	-6.17	8.72	73.88	35.40	123.90	20.02	132.91	91.54	414.55	69.27	120.81	74.47	256.05	109.53
5836	6.28	-7.26	8.72	69.04	34.87	131.02	22.22	134.57	90.72	384.67	65.82	133.06	82.68	237.30	113.86
5837	7.80	-3.96	8.72	85.05	39.42	118.38	17.77	123.60	86.81	488.54	69.59	100.25	54.44	326.29	97.30
5838	7.65	-5.07	8.72	81.49	38.89	123.55	19.42	124.96	86.68	465.67	69.25	107.03	68.28	310.35	103.28
5839	7.47	-6.17	8.72	76.96	38.29	129.54	21.48	126.55	86.30	437.03	67.54	115.77	80.63	290.57	109.55
5840	7.25	-7.26	8.72	71.60	37.65	136.15	23.71	128.30	85.65	403.58	64.35	126.55	90.09	267.73	115.28
5841	8.84	-3.96	8.72	87.92	43.15	125.53	18.78	117.35	81.48	512.10	64.32	114.34	56.99	370.45	94.88
5842	8.67	-5.07	8.72	84.25	42.33	130.24	20.61	118.64	81.49	487.71	64.92	116.11	72.33	351.74	102.73
5843	8.47	-6.18	8.72	79.45	41.50	135.70	22.85	120.15	81.25	456.66	64.09	119.63	86.35	328.19	110.94
5844	8.22	-7.26	8.72	73.65	40.65	141.73	25.21	121.88	80.75	419.97	61.42	125.73	97.27	300.69	118.35
5845	9.88	-3.96	8.72	89.37	47.38	133.57	19.49	111.77	75.94	527.90	56.76	150.24	58.87	417.25	92.78
5846	9.69	-5.08	8.72	85.71	46.24	137.78	21.58	112.83	76.16	502.85	58.38	145.00	75.65	395.76	102.89
5847	9.46	-6.18	8.72	80.83	45.11	142.63	24.10	114.08	76.11	470.39	58.62	140.00	91.42	368.21	113.47
5848	9.18	-7.26	8.72	74.80	44.01	147.96	26.67	115.57	75.79	431.42	56.82	137.07	103.96	335.58	122.97
5849	10.92	-3.96	8.72	88.46	52.15	142.93	20.01	107.31	69.74	530.06	48.04	210.52	60.39	464.28	90.69
5850	10.71	-5.08	8.72	85.02	50.72	146.57	22.40	107.95	70.32	505.64	50.05	197.66	78.41	440.22	103.45
5851	10.46	-6.18	8.72	80.31	49.25	150.70	25.23	108.70	70.61	473.42	51.22	182.49	95.76	408.74	116.87
5852	10.15	-7.26	8.72	74.34	47.85	155.15	28.05	109.66	70.59	433.99	50.50	167.13	109.88	370.80	128.92
5853	11.96	-3.96	8.72	83.77	57.44	154.11	20.45	103.93	62.42	509.76	42.32	296.22	62.27	505.79	88.70
5854	11.73	-5.08	8.72	80.83	55.82										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
5881	2.67	-3.95	7.03	72.44	28.20	107.27	10.78	173.94	146.58	389.46	67.26	163.93	38.23	150.31	147.94
5882	2.62	-5.06	7.03	70.49	28.03	114.77	13.53	174.30	144.73	375.86	65.90	170.87	47.31	146.01	146.97
5883	2.56	-6.16	7.03	68.25	27.80	123.41	16.40	174.67	142.36	359.25	64.00	179.23	55.08	140.69	145.71
5884	2.49	-7.25	7.03	65.88	27.51	132.96	19.36	175.03	139.44	340.05	61.58	188.91	61.09	134.47	144.10
5885	3.73	-3.95	7.03	78.28	29.69	111.59	11.52	169.21	139.21	427.13	69.55	158.83	43.01	175.44	141.10
5886	3.67	-5.06	7.03	75.73	29.48	118.85	14.44	169.66	137.67	410.91	68.22	166.25	53.49	169.69	140.78
5887	3.59	-6.16	7.03	72.72	29.22	127.25	17.46	170.14	135.68	391.02	66.20	175.16	62.50	162.61	140.28
5888	3.49	-7.25	7.03	69.44	28.89	136.55	20.51	170.64	133.20	368.00	63.50	185.43	69.48	154.35	139.50
5889	4.80	-3.96	7.03	84.77	31.73	116.97	12.39	163.34	132.23	469.04	70.84	151.14	47.83	204.08	134.85
5890	4.72	-5.06	7.03	81.65	31.44	123.88	15.48	163.92	130.97	449.89	69.73	159.16	59.87	196.71	135.26
5891	4.61	-6.16	7.03	77.88	31.11	131.93	18.66	164.58	129.32	426.24	67.74	168.75	70.35	187.60	135.61
5892	4.48	-7.26	7.03	73.64	30.74	140.89	21.81	165.30	127.23	398.76	64.85	179.77	78.48	176.99	135.74
5893	5.87	-3.96	7.03	91.93	34.32	123.08	13.35	156.43	125.66	515.52	70.74	140.91	52.46	236.95	129.28
5894	5.76	-5.06	7.03	88.27	33.89	129.60	16.63	157.18	124.64	493.18	70.11	149.65	66.28	227.73	130.55
5895	5.63	-6.17	7.03	83.72	33.44	137.24	20.00	158.07	123.27	465.27	68.37	160.05	78.52	216.25	131.88
5896	5.48	-7.26	7.03	78.49	32.99	145.80	23.27	159.07	121.50	432.63	65.43	171.94	88.10	202.83	133.02
5897	6.94	-3.96	7.03	99.77	37.47	129.69	14.34	148.65	119.44	566.70	68.73	128.75	56.59	274.98	124.36
5898	6.81	-5.07	7.03	95.58	36.81	135.80	17.85	149.61	118.63	541.02	68.94	138.21	72.46	263.63	126.69
5899	6.66	-6.17	7.03	90.25	36.19	143.01	21.46	150.75	117.49	508.42	67.80	149.42	86.86	249.33	129.21
5900	6.48	-7.26	7.03	83.96	35.61	151.14	24.92	152.06	116.00	469.85	65.02	162.21	98.28	232.49	131.56
5901	8.00	-3.96	7.03	108.26	41.25	136.66	15.32	140.36	113.39	622.42	64.29	116.94	59.86	319.32	119.96
5902	7.86	-5.07	7.03	103.58	40.27	142.37	19.08	141.49	112.79	593.45	65.75	126.65	78.03	305.56	123.63
5903	7.68	-6.17	7.03	97.45	39.37	149.15	23.01	142.86	111.87	555.83	65.64	138.24	95.09	287.89	127.70
5904	7.47	-7.26	7.03	90.04	38.62	156.84	26.76	144.45	110.61	510.54	63.38	151.55	108.95	266.79	131.56
5905	9.07	-3.96	7.03	117.24	45.76	144.03	16.25	132.09	107.30	681.81	57.12	112.05	61.82	371.49	115.84
5906	8.91	-5.07	7.03	112.15	44.37	149.36	20.27	133.31	106.95	649.91	60.08	120.20	82.48	355.05	121.24
5907	8.71	-6.17	7.03	105.26	43.10	155.72	24.62	134.79	106.26	607.23	61.47	130.39	102.81	333.34	127.33
5908	8.47	-7.26	7.03	96.66	42.08	162.96	28.76	136.54	105.20	554.58	60.20	142.65	119.91	306.89	133.20
5909	10.14	-3.96	7.03	126.35	51.16	152.03	17.17	124.76	100.84	742.82	48.33	127.26	62.14	433.38	111.57
5910	9.96	-5.08	7.03	121.00	49.30	156.99	21.42	125.87	100.84	708.79	51.97	130.11	85.28	414.05	119.13
5911	9.73	-6.18	7.03	113.45	47.53	162.93	26.23	127.20	100.44	661.53	54.98	134.75	109.47	387.59	127.93
5912	9.46	-7.26	7.03	103.66	46.12	169.68	30.90	128.80	99.63	601.21	55.20	141.88	130.80	354.36	136.59
5913	11.20	-3.96	7.03	134.83	57.66	161.23	18.24	119.70	93.55	801.09	44.59	175.92	60.93	507.09	106.56
5914	11.01	-5.08	7.03	129.41	55.33	165.82	22.58	120.41	94.13	766.22	44.48	170.46	86.09	484.82	116.71
5915	10.76	-6.18	7.03	121.45	52.95	171.29	27.84	121.15	94.19	715.72	46.95	164.93	114.43	452.96	129.01
5916	10.46	-7.26	7.03	110.62	50.98	177.43	33.15	122.05	93.70	648.28	48.49	160.76	141.12	411.23	141.59
5917	12.27	-3.96	7.03	141.13	65.39	172.78	19.80	118.64	84.76	847.97	60.05	266.00	59.41	594.18	100.19
5918	12.05	-5.08	7.03	135.93	62.77	176.93	23.97	118.56	86.27	813.89	49.89	251.25	85.48	569.08	113.16
5919	11.78	-6.18	7.03	128.00	59.77	181.78	29.53	118.15	87.14	762.65	43.80	233.18	117.45	531.54	129.68
5920	11.46	-7.26	7.03	116.57	57.06	187.05	35.49	117.50	87.21	690.39	42.63	212.72	150.18	479.57	147.68
5921	13.34	-3.96	7.03	142.23	74.31	188.76	22.24	122.83	73.44	866.01	97.72	409.11	60.67	693.00	92.56
5922	13.10	-5.08	7.03	137.60	71.85	192.27	26.07	121.65	76.40	834.48	80.90	383.64	86.26	665.08	108.28
5923	12.81	-6.19	7.03	130.37	68.52	196.25	31.64	119.65	78.67	786.27	62.31	351.10	120.01	622.30	128.99
5924	12.45	-7.27	7.03	119.23	65.02	200.14	38.02	116.58	79.78	714.29	49.13	310.27	157.89	559.34	153.75
5925	14.41	-3.97	7.03	132.07	83.81	212.64	25.65	130.78	58.02	818.78	149.53	627.84	70.25	788.82	87.14
5926	14.15	-5.09	7.03	128.52	82.32	215.09	29.39	128.39	62.94	791.85	133.39	587.73	95.12	757.48	105.48
5927	13.83	-6.19	7.03	122.95	79.47	217.73	34.86	124.86	67.44	751.63	109.14	536.75	127.96	710.57	128.65
5928	13.45	-7.27	7.03	113.63	75.69	219.51	41.24	119.31	70.68	689.13	84.04	470.24	167.37	639.21	158.81
5929	15.47	-3.97	7.03	98.31	92.48	249.10	28.82	132.22	36.87	624.17	202.77	954.44	95.31	814.86	100.80
5930	15.20	-5.09	7.03	96.83	93.02	249.30	33.55	129.07	43.72	607.16	194.68	887.35	122.69	780.07	122.46
5931	14.86	-6.19	7.03	94.44	92.16	249.51	39.50	124.93	51.01	583.20	175.52	806.17	153.64	731.43	143.93
5932	14.45	-7.27	7.03	89.11	89.40	248.14	45.89	118.62	57.98	543.60	147.20	704.86	189.23	660.10	170.70
5933	16.54	-3.97	7.03	14.54	91.54	253.08	27.25	80.16	14.40	63.90	179.26	1032.07	130.12	418.43	188.44
5934	16.25	-5.09	7.03	16.95	96.25	253.49	34.81	81.31	20.20	80.06	191.24	948.21	166.22	409.24	222.16
5935	15.88	-6.19	7.03	19.65	100.86	253.69	42.45	82.11	28.20	97.26	199.52	849.99	200.35	390.75	241.31
5936	15.44	-7.27	7.03	21.13	102.79	252.08	49.76	81.88	39.37	107.48	195.24	739.49	231.08	355.89	248.00
5937	0.55	-3.95	5.34	64.91	27.75	118.77	9.80	205.13	183.61	333.12	56.12	194.33	30.79	95.78	183.85
5938	0.54	-5.05	5.34	64.21	27.92	127.04	12.46	204.71	180.75	323.78	55.53	200.53	38.07	94.39	181.17
5939	0.53	-6.15	5.34	63.48	28.18	136.63	15.27	204.18	177.19	312.36	54.75	208.13	44.38	92.58	177.87
5940	0.51	-7.25	5.34	62.86	28.52	147.33	18.20	203.55	172.95	299.09	53.79	217.11	49.42	90.37	173.97
5941	1.64	-3.95	5.34	70.50	28.02	120.15	10.22	202.63	176.82	368.93	59.49	194.86	35.41	111.67	177.19
5942	1.61	-5.05	5.34	69.14	28.15	128.48	13.14	202.21	174.26	357.37	58.77	201.22	43.96	109.44	174.89
5943	1.58	-6.15	5.34	67.61	28.34	138.15	16.14	201.69	171.07	343.22	57.74	209.00	51.38	106.63	172.06
5944	1.54	-7.25	5.34	66.07	28.62	148.90	19.20	201.08	167.25	326.78	56.42	218.18	57.28	103.24	168.72
5945	2.74	-3.95	5.34	77.02	28.89	123.59	10.88	198.66	170.06	410.06	62.45	193.29	40.40	129.35	170.61
5946	2.69	-5.06	5.34	75.00	28.94	131.76	14.02	198.32	167.80	395.89	61.68	199.88	50.37	126.29	168.73
5947	2.63	-6.16	5.34	72.63	29.07	141.25	17.21	197.90	164.97	378.47	60.48	207.93	59.05	122.45	166.41
5948	2.56	-7.25	5.34	70.10	29.29	151.84	20.40	197.41	161.57	358.22	58.83	217.41	65.97	117.86	163.65
5949	3.83	-3.95	5.34	84.59	30.36	128.71	11.65	193.24	163.42	457.40	64.71	189.40	45.60	149.24	164.23
5950	3.77	-5.06	5.34	81.89	30.32	136.53	15.03	193.04	161.44	440.20	64.06	196.30	57.20	145.29	162.81
5951	3.69	-6.16	5.34	78.65	30.36	145.68	18.42	192.80	158.96	418.91	62.80	204.73			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
5979	11.06	-6.18	5.34	171.00	57.24	191.33	29.08	128.77	118.63	984.48	46.53	142.88	121.20	398.12	141.40
5980	10.77	-7.26	5.34	155.08	54.29	198.99	37.35	131.11	118.05	889.60	49.53	152.95	164.97	368.12	150.83
5981	12.59	-3.96	5.34	215.17	75.61	188.49	18.19	118.97	108.99	1248.11	103.59	184.78	40.08	523.19	119.46
5982	12.37	-5.08	5.34	208.75	72.06	193.27	22.25	120.22	110.66	1210.38	80.30	178.85	67.93	508.97	128.26
5983	12.11	-6.18	5.34	198.04	67.00	199.36	29.84	121.59	111.73	1145.32	56.55	175.09	113.91	485.24	140.11
5984	11.80	-7.26	5.34	180.01	62.07	206.77	40.05	123.02	111.76	1036.40	46.94	174.52	173.59	446.76	154.94
5985	13.68	-3.96	5.34	247.15	89.73	199.76	23.41	121.35	96.87	1439.25	178.30	296.43	31.56	650.07	110.42
5986	13.45	-5.08	5.34	240.80	87.20	204.14	24.52	121.65	100.25	1403.17	152.19	277.61	50.03	634.68	121.05
5987	13.16	-6.18	5.34	230.77	81.60	209.75	30.51	121.67	103.20	1342.49	109.57	258.65	94.61	608.93	135.99
5988	12.82	-7.26	5.34	211.88	73.91	216.60	42.15	120.70	104.55	1225.79	67.39	240.83	171.86	560.75	158.22
5989	14.77	-3.96	5.34	284.67	106.10	218.42	33.93	140.21	78.34	1671.71	282.87	500.29	35.32	841.44	99.55
5990	14.53	-5.08	5.34	277.88	106.22	221.95	31.67	138.57	84.11	1632.47	266.84	464.52	39.31	821.86	111.34
5991	14.22	-6.19	5.34	268.97	103.19	226.60	33.77	136.53	90.27	1579.41	222.84	426.40	67.78	794.91	126.75
5992	13.85	-7.27	5.34	251.66	94.34	231.92	43.99	131.68	94.80	1469.16	148.18	382.86	152.64	737.17	156.80
5993	15.87	-3.97	5.34	326.18	124.27	258.11	50.56	185.67	45.76	1956.12	421.31	904.32	53.54	1160.72	96.55
5994	15.60	-5.09	5.34	318.69	127.04	259.86	46.13	181.20	54.46	1906.69	424.39	843.43	51.68	1128.52	110.18
5995	15.27	-6.19	5.34	310.26	129.77	262.82	45.30	176.25	64.71	1853.35	401.37	779.10	61.26	1094.17	120.77
5996	14.87	-7.27	5.34	297.62	128.37	265.24	50.74	167.58	75.50	1767.57	334.11	698.10	127.12	1028.72	151.17
5997	16.96	-3.97	5.34	351.56	153.34	424.81	71.22	270.97	23.51	2194.83	661.17	2266.65	108.58	1734.34	178.28
5998	16.68	-5.09	5.34	344.79	154.86	416.65	66.43	264.02	8.54	2138.25	669.24	2106.89	121.00	1670.83	201.78
5999	16.32	-6.19	5.34	339.22	160.23	409.83	67.69	256.51	8.16	2087.23	660.79	1942.28	136.42	1609.54	206.73
6000	15.90	-7.27	5.34	333.94	170.07	400.42	74.77	244.86	23.12	2033.01	629.38	1745.14	194.28	1524.45	221.52
6001	-12.23	-8.10	17.16	46.99	44.05	14.15	43.60	27.49	37.07	48.60	28.17	14.83	40.43	30.05	39.27
6002	-11.83	-8.70	17.16	52.85	41.94	14.37	45.39	30.07	36.63	54.86	27.99	14.89	42.65	32.69	38.78
6003	-11.44	-8.10	17.16	73.83	38.23	13.75	49.52	27.27	31.39	81.81	17.80	14.31	47.90	30.50	32.14
6004	-11.07	-8.70	17.16	79.69	35.46	13.95	49.39	29.65	30.85	87.72	15.71	14.36	48.05	32.64	31.54
6005	-10.65	-8.10	17.16	102.65	36.91	13.48	54.92	28.55	28.40	117.85	15.87	13.75	54.20	32.28	28.32
6006	-10.30	-8.70	17.16	108.72	34.38	13.66	52.66	30.95	27.62	123.26	13.09	13.82	52.16	34.16	27.48
6007	-9.86	-8.10	17.16	135.04	40.89	13.35	60.33	31.33	27.25	157.54	24.48	13.48	60.12	35.26	26.71
6008	-9.54	-8.70	17.16	141.98	39.29	13.54	55.54	33.86	26.18	162.91	23.46	13.58	55.54	36.99	25.60
6009	-9.07	-8.10	17.16	173.15	50.78	13.44	66.31	36.02	28.02	202.45	39.25	13.61	66.37	39.90	27.26
6010	-8.78	-8.70	17.16	180.96	50.22	13.65	58.42	38.98	26.47	207.61	39.48	13.69	58.71	41.82	25.69
6011	-8.28	-8.10	17.16	220.25	67.85	13.95	73.85	43.82	31.68	255.31	60.06	14.31	74.03	47.47	30.89
6012	-8.01	-8.70	17.16	229.60	68.02	14.23	60.89	47.84	28.95	260.96	61.04	14.36	61.33	50.26	28.14
6013	-7.49	-8.10	17.16	282.68	97.34	15.17	83.66	57.98	40.76	322.08	92.69	15.84	83.90	61.39	40.07
6014	-7.25	-8.70	17.16	294.15	92.13	15.99	60.94	63.90	34.16	329.16	88.06	16.27	61.44	66.05	33.44
6015	-6.70	-8.10	17.16	373.00	132.18	18.56	90.69	87.21	56.99	415.85	130.56	19.51	91.05	90.78	56.54
6016	-6.49	-8.70	17.16	379.61	121.20	20.09	58.91	92.63	43.28	417.66	119.54	20.53	59.27	94.92	42.72
6017	-5.92	-8.10	17.16	500.03	172.84	23.40	99.34	144.35	87.45	547.81	173.90	24.65	99.39	149.41	87.60
6018	-5.72	-8.70	17.16	489.49	146.10	26.83	66.38	137.62	69.00	529.31	146.16	27.28	66.45	140.37	69.02
6019	-5.13	-8.10	17.16	719.80	200.00	24.78	222.74	238.87	225.35	772.97	202.62	24.25	226.30	246.80	230.11
6020	-4.96	-8.70	17.16	656.68	327.69	26.17	68.19	222.12	209.75	698.37	336.59	26.63	66.86	226.00	215.42
6021	-4.34	-8.10	17.16	158.81	73.67	99.73	25.66	402.25	306.14	178.21	76.62	106.09	26.05	413.52	316.22
6022	-4.20	-8.70	17.16	358.17	231.55	80.99	64.17	375.99	306.58	380.27	240.82	89.88	65.65	382.47	318.71
6023	-3.55	-8.10	17.16	56.83	15.55	60.00	15.83	358.09	200.76	76.92	15.27	68.07	15.82	364.30	211.33
6024	-3.43	-8.70	17.16	118.87	48.03	73.53	5.94	405.67	222.53	133.79	52.34	87.55	5.89	410.63	236.31
6025	-2.76	-8.10	17.16	108.74	38.13	27.89	37.27	315.46	134.36	125.06	38.31	41.75	38.46	317.35	148.37
6026	-2.67	-8.70	17.16	67.54	22.03	45.91	8.82	374.09	149.61	82.86	28.15	65.86	8.98	375.80	167.12
6027	-1.97	-8.10	17.16	25.86	7.89	22.55	4.09	311.32	102.62	49.58	16.59	47.19	6.27	311.32	125.08
6028	-1.91	-8.70	17.16	32.61	10.28	24.46	10.13	350.88	103.03	52.77	19.87	56.83	11.44	350.58	128.43
6029	-1.18	-8.10	17.16	183.68	26.04	43.70	14.64	250.83	57.39	186.50	26.86	54.69	39.44	250.38	83.31
6030	-1.14	-8.70	17.16	193.48	23.63	46.20	11.25	282.65	61.80	196.33	23.65	60.29	35.55	282.40	90.47
6031	-0.39	-8.10	17.16	54.95	3.97	26.50	4.17	210.66	20.47	70.55	5.10	31.57	15.86	209.14	49.73
6032	-0.38	-8.70	17.16	51.52	5.42	26.13	7.01	235.97	23.82	66.65	10.57	31.75	14.66	234.29	57.99
6033	-12.70	-8.10	15.47	49.64	40.78	43.65	42.31	66.98	93.78	53.21	17.07	48.11	39.76	72.55	96.40
6034	-12.31	-8.70	15.47	54.77	38.68	44.14	42.89	72.41	91.87	58.51	16.24	47.67	40.41	77.61	94.33
6035	-11.88	-8.10	15.47	65.93	38.57	42.01	45.25	67.22	85.22	75.38	13.45	44.73	43.38	73.87	86.40
6036	-11.52	-8.70	15.47	70.83	36.47	42.41	44.56	72.36	83.18	79.86	12.12	44.40	42.70	78.12	84.22
6037	-11.06	-8.10	15.47	83.95	37.77	41.10	48.87	69.21	79.49	99.73	14.74	42.31	47.52	76.10	79.61
6038	-10.73	-8.70	15.47	88.77	36.03	41.44	46.64	74.31	77.22	103.40	13.59	42.11	45.26	79.87	77.25
6039	-10.24	-8.10	15.47	103.67	39.79	40.50	52.86	73.27	76.71	125.40	22.11	40.84	51.93	79.64	73.42
6040	-9.93	-8.70	15.47	108.82	38.59	40.86	48.84	78.40	74.03	128.68	21.61	40.76	47.87	83.03	76.14
6041	-9.42	-8.10	15.47	125.17	45.42	40.29	57.15	79.61	77.18	152.00	33.13	40.34	56.55	84.74	76.25
6042	-9.14	-8.70	15.47	130.40	44.86	40.71	51.09	84.94	73.76	154.68	33.20	40.30	50.47	88.07	72.85
6043	-8.60	-8.10	15.47	148.20	55.02	40.76	61.58	88.72	81.78	178.99	47.06	40.92	61.26	92.01	80.80
6044	-8.34	-8.70	15.47	153.33	54.84	41.37	52.84	94.53	76.95	181.06	47.30	40.96	52.52	95.74	76.05
6045	-7.78	-8.10	15.47	171.55	67.67	42.45	65.29	101.46	92.07	205.13	63.00	42.89	65.21	102.53	91.32
6046	-7.55	-8.70	15.47	176.13	68.12	43.59	53.73	107.90	84.50	206.35	63.72	43.31	53.70	107.06	83.90
6047	-6.96	-8.10	15.47	189.95	82.67	46.08	67.44	118.41	109.67	225.32	80.61	46.79	67.63	117.18	109.51
6048	-6.75	-8.70	15.47	194.42	82.60	48.41	53.50	124.83	97.47	226.25	80.80	48.26	53.84	122.01	97.58
6049	-6.14	-8.10	15.47	191.57	91.17	52.11	65.62	135.71	133.48	227.56	91.45	52.68	66.21	131.98	134.51
6050	-5.96	-8.70	15.47	200.13	9										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
6077	-8.07	-8.10	13.78	106.53	47.15	64.37	46.79	109.51	118.30	145.28	41.24	61.57	45.81	100.58	118.13
6078	-7.84	-8.70	13.78	109.64	46.88	65.01	40.64	114.71	112.34	145.78	41.09	62.18	39.40	104.32	112.38
6079	-7.22	-8.10	13.78	111.00	49.52	63.23	44.03	114.71	123.47	154.12	46.96	60.71	43.06	100.87	123.81
6080	-7.02	-8.70	13.78	113.71	49.95	64.12	37.25	119.72	116.39	154.21	47.35	62.08	35.95	105.12	117.06
6081	-6.37	-8.10	13.78	112.69	50.81	61.38	37.51	119.05	128.71	160.81	51.23	59.95	36.32	100.76	129.84
6082	-6.19	-8.70	13.78	114.91	50.20	62.74	30.98	124.10	120.51	160.28	50.25	62.54	29.29	105.87	122.12
6083	-5.52	-8.10	13.78	121.61	49.69	59.59	33.97	127.94	133.89	174.79	52.73	60.86	32.83	107.75	136.09
6084	-5.37	-8.70	13.78	119.50	55.60	61.09	21.64	130.83	123.51	170.15	58.62	64.43	19.04	110.71	126.34
6085	-4.67	-8.10	13.78	100.53	43.30	57.90	19.85	134.72	134.23	161.80	49.44	64.08	17.42	113.64	137.74
6086	-4.54	-8.70	13.78	108.09	50.75	59.66	12.48	135.77	122.57	165.69	56.41	68.86	6.89	114.92	126.84
6087	-3.82	-8.10	13.78	102.24	36.63	57.31	12.76	134.28	127.57	170.58	45.93	70.36	9.92	112.67	132.53
6088	-3.72	-8.70	13.78	103.75	40.35	59.53	10.54	139.95	118.46	168.70	49.00	76.26	4.25	119.28	124.45
6089	-2.97	-8.10	13.78	96.15	28.86	60.51	9.18	143.42	119.60	171.62	42.57	80.74	8.35	123.53	126.34
6090	-2.89	-8.70	13.78	98.21	32.68	61.45	14.24	146.66	113.23	170.11	45.30	85.18	12.73	127.27	121.27
6091	-2.12	-8.10	13.78	82.23	21.64	61.87	14.35	154.59	106.22	165.58	40.99	87.18	16.32	137.38	115.30
6092	-2.06	-8.70	13.78	87.61	22.64	62.99	20.67	157.92	100.92	166.35	40.93	92.06	21.31	140.96	111.52
6093	-1.27	-8.10	13.78	61.13	16.24	60.64	18.16	159.49	89.42	158.25	40.40	89.81	22.46	145.35	101.53
6094	-1.24	-8.70	13.78	63.56	16.13	62.71	25.79	163.85	85.87	156.96	39.73	95.83	28.38	149.60	99.80
6095	-0.42	-8.10	13.78	48.91	16.24	58.63	20.34	160.35	71.84	157.12	42.66	90.55	26.14	150.07	88.22
6096	-0.41	-8.70	13.78	50.82	15.42	61.14	28.88	164.54	69.49	155.15	41.47	97.24	32.69	153.61	88.03
6097	-13.64	-8.10	12.09	53.68	49.10	105.12	43.33	102.01	158.46	60.84	17.68	120.85	41.94	107.44	159.45
6098	-13.28	-8.70	12.09	57.80	48.09	105.26	42.58	108.85	154.71	65.23	17.91	116.90	41.04	113.10	155.51
6099	-12.76	-8.10	12.09	58.00	47.11	102.12	42.06	102.99	153.21	72.09	18.48	108.50	40.36	106.65	153.88
6100	-12.42	-8.70	12.09	61.74	45.91	102.25	40.93	109.19	149.13	75.53	18.52	105.77	39.04	111.27	149.66
6101	-11.88	-8.10	12.09	62.57	45.15	99.44	41.15	105.01	148.29	84.03	20.28	99.18	39.25	105.71	148.61
6102	-11.57	-8.70	12.09	66.11	44.09	99.59	39.52	110.91	144.11	86.67	20.14	97.47	37.35	109.75	144.36
6103	-11.00	-8.10	12.09	67.22	43.58	96.80	40.38	107.83	144.36	96.02	22.98	92.30	38.37	104.32	144.44
6104	-10.71	-8.70	12.09	70.67	42.63	97.01	38.20	113.42	140.10	98.11	22.70	91.47	35.86	107.90	140.16
6105	-10.12	-8.10	12.09	71.67	42.40	94.09	39.55	111.13	141.61	107.62	26.35	87.31	37.48	102.23	141.56
6106	-9.85	-8.70	12.09	74.89	41.57	94.43	36.92	116.34	137.13	109.03	26.00	87.26	34.46	105.55	137.12
6107	-9.24	-8.10	12.09	75.56	41.58	91.32	38.38	114.64	139.99	118.46	30.08	83.81	36.25	99.42	139.97
6108	-9.00	-8.70	12.09	78.54	40.85	91.81	35.30	119.48	135.14	119.27	29.62	84.53	32.69	102.69	135.23
6109	-8.36	-8.10	12.09	78.67	40.94	88.51	36.50	118.17	139.26	128.51	33.77	81.58	34.26	96.05	139.44
6110	-8.14	-8.70	12.09	81.44	40.34	89.20	33.07	122.62	133.96	128.85	33.26	83.10	30.24	99.49	134.32
6111	-7.48	-8.10	12.09	80.91	40.21	85.74	33.67	121.63	139.00	137.99	37.09	80.64	31.25	92.71	139.53
6112	-7.28	-8.70	12.09	83.45	39.69	86.67	30.09	125.71	133.22	137.89	36.54	83.02	26.92	96.49	134.03
6113	-6.60	-8.10	12.09	82.42	38.81	83.07	29.99	125.26	138.64	147.23	39.51	81.18	27.30	90.60	139.70
6114	-6.43	-8.70	12.09	84.63	38.86	84.29	26.33	128.89	132.42	146.60	39.44	84.47	22.64	94.55	133.86
6115	-5.72	-8.10	12.09	80.06	36.86	80.74	24.27	127.90	137.32	153.83	41.38	83.69	21.04	88.78	139.07
6116	-5.57	-8.70	12.09	83.03	35.90	82.28	22.21	131.50	131.09	153.50	40.00	87.75	17.80	93.40	133.37
6117	-4.84	-8.10	12.09	81.28	34.35	79.03	19.62	130.91	134.80	164.00	42.66	88.30	16.24	89.70	137.44
6118	-4.71	-8.70	12.09	82.53	33.02	80.72	17.96	134.50	128.81	161.90	40.85	92.65	12.88	94.62	132.16
6119	-3.96	-8.10	12.09	76.04	30.25	77.92	14.68	134.79	130.66	169.35	42.77	94.27	11.81	94.09	134.40
6120	-3.86	-8.70	12.09	78.51	29.71	79.77	14.02	137.27	124.59	167.87	41.52	98.74	9.20	97.57	129.21
6121	-3.08	-8.10	12.09	71.43	25.61	77.18	12.27	137.10	123.53	175.73	42.63	100.47	12.34	98.46	128.60
6122	-3.00	-8.70	12.09	73.34	25.15	79.55	13.30	139.88	117.77	173.40	41.36	105.46	11.76	102.11	123.94
6123	-2.20	-8.10	12.09	65.21	21.38	77.33	12.57	139.23	114.56	181.52	42.98	106.80	16.58	104.35	121.23
6124	-2.14	-8.70	12.09	66.51	21.13	79.93	14.99	141.63	109.73	178.41	41.85	111.88	17.38	107.11	117.76
6125	-1.32	-8.10	12.09	58.50	18.53	77.55	14.38	141.00	103.97	186.71	44.31	111.53	21.71	111.37	112.69
6126	-1.29	-8.70	12.09	60.16	17.91	80.44	17.34	143.17	99.97	183.36	42.83	116.83	22.93	113.26	110.34
6127	-0.44	-8.10	12.09	50.34	17.90	77.70	15.98	141.23	92.35	191.46	46.37	114.14	26.73	118.17	103.66
6128	-0.43	-8.70	12.09	51.34	17.08	80.92	19.08	143.45	89.34	187.39	44.68	119.78	28.07	119.33	102.63
6129	-14.11	-8.10	10.41	54.22	54.74	140.03	44.67	110.76	179.14	63.09	24.05	156.61	43.90	115.32	179.69
6130	-13.76	-8.70	10.41	58.10	54.12	139.97	43.69	117.69	175.02	67.36	24.46	151.10	42.79	120.75	175.42
6131	-13.20	-8.10	10.41	56.12	52.00	136.03	42.40	112.68	175.23	73.15	23.56	140.45	40.99	113.37	175.62
6132	-12.88	-8.70	10.41	59.62	51.10	136.06	41.28	118.83	170.75	76.44	23.79	136.62	39.66	117.74	171.02
6133	-12.29	-8.10	10.41	58.30	49.28	132.06	40.32	115.46	171.11	84.13	24.02	127.56	38.33	110.88	171.31
6134	-11.99	-8.70	10.41	61.62	48.45	132.21	38.96	121.18	166.54	86.64	24.09	125.26	36.64	114.71	166.67
6135	-11.38	-8.10	10.41	60.58	46.87	128.04	38.30	118.87	167.39	95.36	25.38	117.76	35.83	107.74	167.44
6136	-11.10	-8.70	10.41	63.81	46.11	128.33	36.69	124.17	162.83	97.33	25.34	116.85	33.76	111.12	162.87
6137	-10.47	-8.10	10.41	62.77	44.71	123.93	36.30	122.57	164.20	106.48	27.44	110.73	33.42	103.72	164.19
6138	-10.21	-8.70	10.41	65.82	44.02	124.42	34.55	127.38	159.56	107.80	27.33	111.06	31.10	106.84	159.57
6139	-9.56	-8.10	10.41	64.69	42.72	119.76	34.22	126.32	161.47	117.29	29.91	106.17	30.98	98.88	161.49
6140	-9.32	-8.70	10.41	67.53	42.09	120.49	32.32	130.66	156.69	118.00	29.68	107.61	28.37	101.94	156.78
6141	-8.65	-8.10	10.41	66.20	40.83	115.60	31.87	129.99	159.08	127.83	32.52	103.83	28.29	93.50	159.23
6142	-8.44	-8.70	10.41	68.88	40.25	116.61	29.91	133.88	154.12	128.05	32.19	106.26	25.44	96.68	154.40
6143	-7.74	-8.10	10.41	67.21	38.92	111.55	29.16	133.49	156.82	138.21	35.08	103.53	25.25	88.09	157.22
6144	-7.55	-8.70	10.41	69.66	38.39	112.86	27.27	136.92	151.64	137.90	34.69	106.84	22.25	91.49	152.23
6145	-6.83	-8.10	10.41	67.46	36.90	107.77	26.04	136.65	154.39	148.38	37.49	105.21	21.82	83.16	155.13
6146	-6.66	-8.70	10.41	69.77	36.30	109.40	24.37	139.69	149.05	147.60	36.86	109.21	18.82	86.88	150.06
6147	-5.92	-8.10	10.41	67.66	34.51	104.35	22.88	139.63	151.48	159.02	39.45	108.62	18.62	79.89	152.69
6148	-5.77	-8.70	10.41	69.59</											



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
6175	-8.00	-8.10	8.72	61.16	40.32	139.35	27.69	147.87	174.74	143.30	35.13	127.39	22.47	85.55	174.78
6176	-7.81	-8.70	8.72	63.59	39.93	141.21	26.77	150.79	169.96	142.87	35.07	131.59	20.23	88.67	170.10
6177	-7.05	-8.10	8.72	61.46	37.95	134.14	25.06	151.71	171.54	154.65	37.28	129.96	19.73	79.10	171.81
6178	-6.89	-8.70	8.72	63.68	37.61	136.40	24.35	154.19	166.73	153.69	37.15	134.75	17.52	82.45	167.15
6179	-6.11	-8.10	8.72	61.32	35.58	129.40	22.45	155.09	167.97	166.18	39.46	134.27	17.63	73.90	168.55
6180	-5.97	-8.70	8.72	63.38	35.21	132.07	22.10	157.18	163.17	164.68	39.16	139.45	15.73	77.41	163.96
6181	-5.17	-8.10	8.72	61.06	33.16	125.25	20.13	157.97	163.89	178.20	41.62	139.80	16.94	70.80	164.84
6182	-5.06	-8.70	8.72	62.88	32.77	128.34	20.17	159.71	159.19	176.06	41.16	145.18	15.54	74.28	160.42
6183	-4.23	-8.10	8.72	60.33	30.70	121.79	18.27	160.28	159.20	190.51	43.72	146.00	18.11	70.42	160.62
6184	-4.14	-8.70	8.72	61.99	30.35	125.30	18.73	161.69	154.67	187.73	43.16	151.46	17.35	73.51	156.45
6185	-3.29	-8.10	8.72	59.51	28.34	119.13	17.09	161.92	153.83	203.37	45.85	152.28	21.13	72.92	155.82
6186	-3.22	-8.70	8.72	60.88	28.00	123.05	17.96	163.08	149.54	199.80	45.16	157.77	20.93	75.38	151.98
6187	-2.35	-8.10	8.72	58.48	26.25	117.33	16.65	162.86	147.83	216.67	48.06	158.15	25.52	78.22	150.52
6188	-2.30	-8.70	8.72	59.57	25.91	121.61	17.85	163.80	143.86	212.25	47.22	163.64	25.72	79.77	147.12
6189	-1.41	-8.10	8.72	57.51	24.61	116.41	16.83	163.02	141.28	230.51	50.35	163.08	30.79	85.93	144.85
6190	-1.38	-8.70	8.72	58.31	24.24	120.99	18.24	163.81	137.70	225.12	49.32	168.59	31.24	86.45	141.96
6191	-0.47	-8.10	8.72	56.72	23.62	116.39	17.40	162.36	134.35	244.90	52.70	166.70	36.63	95.73	139.02
6192	-0.46	-8.70	8.72	57.14	23.21	121.21	18.93	163.04	131.22	238.42	51.46	172.29	37.26	95.14	136.71
6193	-15.05	-8.10	7.03	55.26	63.81	222.63	48.69	124.00	211.03	67.38	35.66	233.76	49.20	126.84	211.40
6194	-14.73	-8.70	7.03	59.05	63.63	222.87	47.49	130.83	206.69	71.75	35.92	226.64	47.96	131.63	207.00
6195	-14.08	-8.10	7.03	55.40	60.09	214.68	45.40	129.24	208.96	77.94	33.64	208.59	44.84	124.26	208.96
6196	-13.78	-8.70	7.03	58.76	59.68	215.18	44.35	135.06	204.49	81.19	33.88	203.84	43.59	127.97	204.42
6197	-13.11	-8.10	7.03	55.86	56.54	206.78	42.20	134.90	206.41	89.66	32.34	187.61	40.46	120.22	206.12
6198	-12.83	-8.70	7.03	59.04	56.20	207.56	41.17	140.11	201.85	92.04	32.57	185.20	39.01	123.42	201.49
6199	-12.14	-8.10	7.03	56.53	53.36	198.86	39.03	140.88	203.72	101.71	31.81	171.28	36.11	114.86	203.25
6200	-11.88	-8.70	7.03	59.61	53.05	199.91	38.03	145.56	199.21	103.54	32.08	171.06	34.48	117.69	198.68
6201	-11.17	-8.10	7.03	57.29	50.45	191.00	36.01	146.90	200.97	113.68	32.01	159.84	31.97	108.30	200.40
6202	-10.93	-8.70	7.03	60.18	50.20	192.37	35.15	150.98	196.47	114.84	32.38	161.50	30.30	110.95	195.86
6203	-10.20	-8.10	7.03	57.96	47.71	183.27	33.15	152.75	198.12	125.37	32.79	153.10	28.16	100.80	197.55
6204	-9.98	-8.70	7.03	60.69	47.50	184.99	32.42	156.29	193.63	125.90	33.16	156.28	26.40	103.42	193.02
6205	-9.22	-8.10	7.03	58.49	45.11	175.74	30.41	158.34	195.17	136.84	33.99	150.55	24.67	92.72	194.66
6206	-9.03	-8.70	7.03	61.07	44.93	177.83	29.85	161.34	190.69	136.88	34.35	154.84	22.87	95.43	190.16
6207	-8.25	-8.10	7.03	58.85	42.59	168.52	27.78	163.56	192.05	148.28	35.51	151.40	21.65	84.52	191.66
6208	-8.08	-8.70	7.03	61.24	42.44	171.00	27.43	166.06	187.58	147.79	35.84	156.45	19.87	87.40	187.20
6209	-7.28	-8.10	7.03	59.02	40.14	161.70	25.29	168.32	188.71	159.85	37.27	154.80	19.35	76.79	188.49
6210	-7.13	-8.70	7.03	61.23	40.00	164.61	25.18	170.35	184.25	158.86	37.50	160.33	17.70	79.87	184.08
6211	-6.31	-8.10	7.03	59.07	37.73	155.42	23.01	172.55	185.06	171.82	39.18	159.96	18.21	70.30	185.05
6212	-6.18	-8.70	7.03	61.09	37.63	158.78	23.17	174.15	180.65	170.29	39.33	165.74	16.88	73.48	180.73
6213	-5.34	-8.10	7.03	58.99	35.38	149.81	21.05	176.15	181.05	184.34	41.22	166.19	18.65	65.82	181.28
6214	-5.23	-8.70	7.03	60.81	35.31	153.64	21.53	177.38	176.73	182.21	41.26	172.07	17.83	68.92	177.09
6215	-4.37	-8.10	7.03	58.88	33.13	145.00	19.54	179.05	176.61	197.64	43.39	172.87	20.84	64.11	177.14
6216	-4.28	-8.70	7.03	60.47	33.06	149.30	20.34	179.95	172.43	194.82	43.29	178.76	20.56	66.85	173.14
6217	-3.40	-8.10	7.03	58.75	31.03	141.14	18.59	181.19	171.74	211.82	45.65	179.49	24.55	65.59	172.61
6218	-3.33	-8.70	7.03	60.10	30.96	145.87	19.68	181.81	167.76	208.21	45.39	185.34	24.70	67.66	168.87
6219	-2.43	-8.10	7.03	58.73	29.18	138.30	18.22	182.49	166.45	227.04	48.00	185.61	29.40	70.21	167.74
6220	-2.38	-8.70	7.03	59.80	29.10	143.43	19.53	182.90	162.72	222.50	47.54	191.42	29.87	71.41	164.32
6221	-1.46	-8.10	7.03	58.92	27.70	136.59	18.36	182.91	160.81	243.43	50.42	190.83	35.11	77.62	162.62
6222	-1.43	-8.70	7.03	59.64	27.60	142.04	19.82	183.16	157.37	237.80	49.75	196.63	35.82	77.83	159.56
6223	-0.49	-8.10	7.03	59.46	26.69	136.02	18.89	182.42	154.91	261.14	52.84	194.84	41.50	87.41	157.37
6224	-0.48	-8.70	7.03	59.79	26.57	141.72	20.44	182.56	151.79	254.23	51.95	200.68	42.39	86.60	154.72
6225	-15.52	-8.10	5.34	55.85	66.73	268.22	51.00	130.31	224.33	69.73	40.87	275.93	52.12	132.54	224.76
6226	-15.21	-8.70	5.34	59.58	66.65	268.75	49.70	136.92	219.93	74.09	40.94	268.39	50.83	136.88	220.34
6227	-14.52	-8.10	5.34	56.16	62.98	258.34	47.51	137.69	223.20	81.45	38.86	245.55	47.37	130.57	223.00
6228	-14.23	-8.70	5.34	59.45	62.82	259.32	46.49	143.25	218.99	84.59	39.03	240.83	46.15	133.82	218.73
6229	-13.52	-8.10	5.34	56.54	59.43	247.94	44.15	144.96	221.41	93.80	37.24	219.25	42.56	125.90	220.81
6230	-13.25	-8.70	5.34	59.64	59.34	249.28	43.20	149.87	217.11	96.03	37.46	217.27	41.16	128.68	216.44
6231	-12.52	-8.10	5.34	57.04	56.19	237.46	40.77	152.32	219.23	106.15	36.12	198.70	37.71	119.38	218.40
6232	-12.27	-8.70	5.34	60.04	56.16	239.11	39.89	156.70	214.99	107.83	36.46	199.23	36.15	121.87	214.08
6233	-11.52	-8.10	5.34	57.54	53.21	227.17	37.50	159.57	216.81	118.04	35.50	184.49	33.10	111.41	215.87
6234	-11.29	-8.70	5.34	60.37	53.25	229.16	36.83	163.35	212.60	119.06	36.03	187.10	31.55	113.82	211.57
6235	-10.51	-8.10	5.34	57.94	50.37	217.22	34.40	166.60	214.17	129.30	35.32	176.45	28.91	102.49	213.23
6236	-10.31	-8.70	5.34	60.61	50.47	219.56	33.93	169.81	209.96	129.73	35.94	180.63	27.32	104.95	208.93
6237	-9.51	-8.10	5.34	58.18	47.66	207.68	31.46	173.32	211.35	140.08	35.52	173.75	25.23	93.11	210.46
6238	-9.32	-8.70	5.34	60.74	47.80	210.39	31.20	175.99	207.16	140.10	36.23	178.98	23.65	95.71	206.20
6239	-8.51	-8.10	5.34	58.27	45.03	198.62	28.69	179.66	208.32	150.69	36.10	175.15	22.23	83.83	207.55
6240	-8.34	-8.70	5.34	60.66	45.21	201.71	28.67	181.79	204.15	150.25	36.84	181.00	20.75	86.59	203.32
6241	-7.51	-8.10	5.34	58.26	42.49	190.08	26.12	185.49	205.08	161.43	37.03	179.39	20.70	75.20	204.45
6242	-7.36	-8.70	5.34	60.48	42.71	193.60	26.36	187.13	200.92	160.55	37.74	185.55	18.92	78.10	200.26
6243	-6.51	-8.10	5.34	58.18	40.05	182.18	23.83	190.73	201.57	172.63	38.28	185.37	19.52	67.90	201.12
6244	-6.38	-8.70	5.34	60.24	40.30	186.16	24.33	191.92	197.46	171.28	38.92	191.65	18.62	70.83	197.00
6245	-5.51	-8.10	5.34	58.12	37.71	175.03	21.90	195.26	197.79	184.62	39.82	192.25	20.48	62.61	197.52
6246	-5.40	-8.70	5.34	59.											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]
6273	11.83	-8.70	17.16	22.53	33.70	13.87	22.11	12.90	18.58	18.35	35.63	13.92	16.96	18.47	29.82
6274	11.07	-8.70	17.16	38.37	41.21	14.29	25.85	12.72	14.42	35.50	46.70	15.10	21.61	22.42	28.44
6275	10.30	-8.70	17.16	56.96	53.14	14.45	31.19	14.67	12.03	57.42	60.64	15.52	29.87	28.02	27.02
6276	9.54	-8.70	17.16	79.88	67.93	14.56	37.38	18.19	10.79	85.34	76.35	15.47	39.45	34.03	25.65
6277	8.78	-8.70	17.16	108.62	85.56	14.84	44.17	23.58	10.67	119.92	94.36	15.50	49.62	40.21	24.84
6278	8.01	-8.70	17.16	146.80	107.77	15.53	51.05	32.09	12.16	163.99	117.17	15.95	59.93	47.76	25.15
6279	7.25	-8.70	17.16	199.88	134.40	17.26	56.40	46.72	16.30	222.41	145.14	17.45	68.86	60.07	28.00
6280	6.49	-8.70	17.16	272.08	164.85	20.70	61.69	72.18	25.02	299.05	177.92	20.72	78.01	82.76	35.96
6281	5.72	-8.70	17.16	366.88	191.31	25.95	80.17	111.15	51.68	396.54	207.61	26.08	101.80	119.00	64.05
6282	4.96	-8.70	17.16	516.07	375.27	27.81	102.11	184.57	189.37	549.73	414.54	42.15	132.08	191.07	214.70
6283	4.20	-8.70	17.16	268.44	265.21	77.41	33.51	327.33	284.54	285.02	298.18	105.04	42.25	339.68	320.20
6284	3.43	-8.70	17.16	80.78	63.76	61.58	2.23	360.17	206.41	96.69	73.60	90.29	15.62	371.35	240.57
6285	2.67	-8.70	17.16	38.46	36.53	33.92	6.52	340.30	137.23	57.43	45.55	67.48	13.23	346.97	173.46
6286	1.91	-8.70	17.16	12.38	22.67	21.20	8.78	327.77	92.77	40.27	32.46	61.28	11.10	331.26	135.26
6287	1.14	-8.70	17.16	212.44	36.01	28.60	15.78	269.06	52.17	214.29	36.42	50.20	27.75	273.25	94.01
6288	0.38	-8.70	17.16	75.60	8.62	11.94	7.69	231.62	14.71	85.84	11.73	21.81	7.61	231.37	58.26
6289	12.70	-8.10	15.47	17.42	41.62	42.16	19.74	27.38	34.95	20.35	41.27	44.43	11.40	51.09	66.54
6290	11.88	-8.10	15.47	27.53	43.29	43.57	22.13	30.59	28.85	37.09	47.38	50.55	17.67	65.51	64.71
6291	11.06	-8.10	15.47	39.69	47.29	44.34	26.47	35.06	24.68	57.26	54.83	52.98	25.69	79.40	62.77
6292	10.24	-8.10	15.47	53.85	53.95	44.79	31.99	41.08	22.25	79.46	63.67	52.76	34.23	92.19	60.51
6293	9.42	-8.10	15.47	70.07	63.20	45.40	38.22	48.93	21.43	102.96	73.96	51.66	43.05	103.44	58.31
6294	8.60	-8.10	15.47	88.26	75.07	46.64	44.71	59.18	22.86	127.14	86.29	50.93	51.95	113.14	57.30
6295	7.78	-8.10	15.47	107.58	88.71	49.04	50.53	72.82	28.64	151.07	100.32	51.46	60.21	122.28	59.80
6296	6.96	-8.10	15.47	123.68	103.72	53.20	54.84	90.77	41.55	170.78	116.03	54.02	67.03	132.64	69.35
6297	6.14	-8.10	15.47	127.04	111.81	59.59	54.74	110.48	60.80	177.53	125.18	59.44	69.54	143.34	86.93
6298	5.32	-8.10	15.47	89.52	104.17	55.66	19.50	117.42	64.95	148.52	117.72	56.56	35.85	142.31	90.66
6299	4.51	-8.10	15.47	153.43	104.66	46.04	31.75	126.74	66.61	211.49	120.64	53.28	52.17	144.96	93.28
6300	3.69	-8.10	15.47	107.35	85.89	36.31	5.80	173.63	74.74	168.90	103.47	56.21	32.07	189.82	105.16
6301	2.87	-8.10	15.47	48.80	64.02	34.36	14.19	187.23	54.88	124.61	81.12	59.05	26.57	199.17	90.72
6302	2.05	-8.10	15.47	29.32	40.25	31.44	12.91	181.04	29.75	116.30	55.95	59.36	23.96	188.88	72.82
6303	1.23	-8.10	15.47	41.76	25.76	30.46	15.88	199.86	11.62	115.55	44.88	59.28	26.75	202.90	65.79
6304	0.41	-8.10	15.47	23.24	19.87	29.99	20.44	223.96	23.45	101.86	39.70	57.27	24.93	222.77	67.46
6305	12.31	-8.70	15.47	18.77	39.51	43.08	19.94	30.83	36.30	22.57	37.59	44.54	10.81	55.92	68.55
6306	11.52	-8.70	15.47	28.68	41.62	44.28	21.22	33.82	30.24	39.05	43.72	48.90	16.40	68.07	66.19
6307	10.73	-8.70	15.47	40.72	46.36	44.99	24.11	38.19	26.02	58.52	51.58	50.57	23.55	79.86	63.99
6308	9.93	-8.70	15.47	55.05	53.77	45.50	27.95	44.23	23.44	80.02	61.01	50.32	31.14	90.76	61.81
6309	9.14	-8.70	15.47	71.29	63.60	46.27	32.22	52.28	22.39	102.51	71.90	49.65	38.69	100.30	60.10
6310	8.34	-8.70	15.47	89.36	75.75	47.86	36.21	62.96	23.17	125.68	84.79	49.70	45.77	108.90	59.47
6311	7.55	-8.70	15.47	108.14	90.05	50.97	39.42	77.16	27.06	148.35	99.85	51.52	52.04	117.74	61.49
6312	6.75	-8.70	15.47	124.11	104.61	56.30	41.37	95.08	36.02	167.46	115.51	56.06	57.10	128.02	68.46
6313	5.96	-8.70	15.47	130.52	117.86	61.54	39.58	113.97	51.25	177.39	130.29	61.65	57.89	138.63	82.40
6314	5.16	-8.70	15.47	108.92	81.42	59.83	30.61	124.95	57.60	162.22	90.38	63.55	48.99	142.53	87.93
6315	4.37	-8.70	15.47	138.57	80.82	52.05	30.15	140.48	63.11	195.46	91.30	64.14	50.85	153.79	93.31
6316	3.58	-8.70	15.47	118.03	88.01	42.07	8.79	171.92	69.33	175.80	102.90	66.54	32.27	183.05	101.94
6317	2.78	-8.70	15.47	69.16	63.05	37.70	17.60	196.27	52.17	137.23	77.90	70.28	30.60	204.66	89.98
6318	1.99	-8.70	15.47	32.90	47.51	35.70	23.22	199.78	33.35	116.31	62.38	70.78	30.01	205.58	77.31
6319	1.19	-8.70	15.47	47.57	30.44	34.00	26.04	219.88	13.92	115.51	49.23	67.95	32.87	221.50	68.54
6320	0.40	-8.70	15.47	23.67	23.54	33.50	29.63	244.72	21.43	99.87	44.29	64.87	32.42	242.75	68.20
6321	13.17	-8.10	13.78	14.91	48.27	74.65	19.16	37.13	39.15	33.89	38.04	91.75	14.99	83.25	90.00
6322	12.32	-8.10	13.78	21.32	47.50	76.17	19.82	43.78	33.23	52.74	43.07	98.86	21.95	109.33	89.36
6323	11.47	-8.10	13.78	28.37	47.48	76.87	21.65	50.17	28.99	73.33	48.81	99.86	29.02	129.84	87.69
6324	10.62	-8.10	13.78	35.98	48.76	76.97	24.22	56.80	26.24	94.81	54.82	96.32	35.48	145.57	85.08
6325	9.77	-8.10	13.78	43.71	51.31	76.83	26.98	63.90	24.45	115.03	60.92	90.54	41.25	156.36	81.93
6326	8.92	-8.10	13.78	50.98	54.84	76.78	29.34	71.59	23.09	132.86	66.93	84.58	46.04	162.42	78.62
6327	8.07	-8.10	13.78	56.94	58.78	76.88	30.58	79.81	21.94	147.55	72.59	79.65	49.41	164.20	75.66
6328	7.22	-8.10	13.78	60.66	61.78	76.68	29.73	88.17	21.17	158.75	76.88	76.04	50.59	162.29	73.51
6329	6.37	-8.10	13.78	61.92	63.55	74.62	25.68	96.25	20.63	166.95	79.62	72.92	48.52	157.93	72.01
6330	5.52	-8.10	13.78	68.01	63.22	72.89	24.36	107.67	21.06	176.96	80.33	73.19	49.30	156.24	72.12
6331	4.67	-8.10	13.78	52.22	57.07	70.77	14.49	117.65	19.19	170.57	74.98	75.90	40.48	153.85	70.89
6332	3.82	-8.10	13.78	51.92	51.55	66.46	11.49	121.80	14.59	174.61	70.44	78.93	37.61	146.69	66.94
6333	2.97	-8.10	13.78	46.66	44.25	59.30	12.03	133.31	14.60	172.48	64.65	80.94	34.53	149.50	65.09
6334	2.12	-8.10	13.78	37.76	36.37	56.38	16.76	146.76	22.82	165.32	58.84	84.13	32.79	154.60	65.29
6335	1.27	-8.10	13.78	31.80	27.99	56.24	19.65	154.69	37.44	159.56	51.93	87.30	30.74	155.17	68.90
6336	0.42	-8.10	13.78	35.59	20.54	57.55	20.75	158.78	54.28	156.95	46.47	89.98	29.31	153.20	76.88
6337	12.80	-8.70	13.78	15.91	46.70	76.32	19.82	40.71	40.83	36.94	36.37	88.92	15.34	87.97	92.99
6338	11.97	-8.70	13.78	21.99	46.02	77.40	19.74	47.02	34.85	54.72	41.08	93.48	21.85	110.38	91.59
6339	11.15	-8.70	13.78	28.70	46.43	77.92	20.66	53.23	30.51	73.96	46.72	93.42	28.45	127.95	89.53
6340	10.32	-8.70	13.78	36.04	48.11	78.03	22.18	59.77	27.63	93.92	52.70	90.07	34.57	141.26	86.90
6341	9.49	-8.70	13.78	43.37	50.96	78.06	23.85	66.81	25.75	112.43	58.70	85.47	39.89	149.97	84.11
6342	8.67	-8.70	13.78	50.18	54.79	78.28	25.07	74.44	24.35	128.79	64.84	81.26	44.10	154.60	81.19
6343	7.84	-8.70	13.78	55.72	59.00	78.76	25.29	82.60	23.14	142.40	70.73	78.45	46.85	155.68	78.66
6344	7.02	-8.70	13.78	58.99	62.64	78.99	23.86	90.87	22.12	152.92	75.68	77.21	47.71	153.84	76.81
6345	6.19	-8.70	13.78	59.82	63.29	78.11									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
6371	11.57	-8.70	12.09	25.77	48.88	112.00	21.57	65.07	34.37	110.40	40.51	145.37	46.25	180.51	113.14
6372	10.71	-8.70	12.09	30.95	47.45	110.53	21.91	72.22	33.08	135.25	46.09	133.50	51.90	196.08	109.79
6373	9.85	-8.70	12.09	35.52	46.56	108.72	22.22	78.96	32.91	156.99	51.05	120.79	55.90	203.54	105.70
6374	9.00	-8.70	12.09	39.25	46.13	106.78	22.24	85.44	33.23	174.80	55.48	109.69	58.21	204.23	101.01
6375	8.14	-8.70	12.09	42.01	45.98	104.77	21.80	91.78	33.72	188.50	59.22	101.92	59.00	199.73	96.25
6376	7.28	-8.70	12.09	43.77	45.72	102.61	20.85	98.05	34.32	198.40	62.06	98.09	58.56	191.63	91.78
6377	6.43	-8.70	12.09	44.60	45.34	100.25	19.47	104.35	35.21	205.00	64.12	97.94	57.04	181.52	87.92
6378	5.57	-8.70	12.09	43.77	42.61	97.38	18.04	110.27	36.73	208.17	63.17	100.42	54.45	170.23	84.80
6379	4.71	-8.70	12.09	43.06	40.10	94.24	16.83	116.54	39.19	209.96	62.27	104.56	51.29	159.86	82.56
6380	3.86	-8.70	12.09	41.10	37.14	90.91	16.63	122.48	43.37	208.59	60.84	109.23	47.36	150.18	81.61
6381	3.00	-8.70	12.09	39.37	32.53	87.64	17.46	128.34	50.09	205.78	57.66	113.83	43.66	141.96	82.34
6382	2.14	-8.70	12.09	38.81	28.05	84.67	18.87	133.44	58.16	201.87	54.50	117.52	39.97	135.03	84.75
6383	1.29	-8.70	12.09	40.03	23.15	82.55	19.82	138.22	67.85	197.04	50.85	119.87	36.44	129.65	89.23
6384	0.43	-8.70	12.09	44.95	19.21	81.30	19.94	141.79	78.44	192.14	47.47	120.60	32.38	124.73	95.37
6385	14.11	-8.10	10.41	16.73	62.76	149.06	23.98	55.35	43.13	81.96	37.72	258.91	59.56	165.40	135.16
6386	13.20	-8.10	10.41	25.04	58.83	149.23	24.48	66.45	40.97	134.40	33.93	254.89	67.87	223.88	137.77
6387	12.29	-8.10	10.41	31.96	54.60	146.47	25.17	75.58	41.27	174.64	35.17	231.23	76.97	259.44	136.64
6388	11.38	-8.10	10.41	39.00	50.99	142.36	25.44	83.55	43.44	214.53	40.56	200.22	81.77	279.78	131.27
6389	10.47	-8.10	10.41	44.75	47.86	137.50	25.33	90.50	46.44	245.95	46.72	167.85	83.61	284.21	124.80
6390	9.56	-8.10	10.41	48.83	45.15	132.65	24.90	96.87	49.69	267.27	52.29	141.13	83.23	277.17	118.17
6391	8.65	-8.10	10.41	51.36	42.78	128.10	24.17	102.98	52.96	279.79	56.81	123.41	81.21	263.12	111.89
6392	7.74	-8.10	10.41	52.62	40.59	123.87	23.18	108.96	56.25	285.44	60.12	115.04	77.99	245.22	106.40
6393	6.83	-8.10	10.41	52.84	38.47	119.79	21.96	114.76	59.72	285.94	62.23	113.97	73.86	225.54	102.02
6394	5.92	-8.10	10.41	52.45	36.12	115.87	20.70	120.42	63.57	282.95	63.07	117.48	69.22	205.64	99.00
6395	5.01	-8.10	10.41	51.46	33.46	112.05	19.50	125.77	68.16	277.10	62.78	123.02	63.94	186.36	97.54
6396	4.10	-8.10	10.41	50.39	30.74	108.32	18.53	130.68	73.73	269.74	61.79	128.91	58.53	168.31	97.77
6397	3.19	-8.10	10.41	49.46	27.88	104.79	17.89	135.27	80.15	260.95	60.10	134.07	52.95	152.16	99.65
6398	2.28	-8.10	10.41	49.02	25.05	101.87	17.49	139.24	87.58	251.35	57.88	138.01	47.40	137.70	103.20
6399	1.37	-8.10	10.41	49.52	22.63	99.51	17.10	142.50	95.78	241.32	55.36	140.28	41.89	125.00	108.15
6400	0.46	-8.10	10.41	50.95	21.02	97.86	16.56	144.98	104.46	231.04	52.81	140.74	36.48	113.93	114.19
6401	13.76	-8.70	10.41	17.93	61.19	151.05	25.22	58.30	45.86	88.45	35.46	240.73	59.68	167.30	138.85
6402	12.88	-8.70	10.41	25.42	57.07	150.42	25.56	68.57	43.21	134.94	32.52	232.31	68.89	216.95	141.17
6403	11.99	-8.70	10.41	31.76	53.18	147.47	25.98	77.28	42.95	171.84	34.32	209.19	77.30	247.13	139.22
6404	11.10	-8.70	10.41	38.11	49.82	143.51	26.05	85.07	44.54	207.66	39.44	181.58	82.27	263.76	133.90
6405	10.21	-8.70	10.41	43.17	46.91	139.08	25.81	91.94	47.11	235.14	44.96	155.01	84.33	266.44	127.68
6406	9.32	-8.70	10.41	46.74	44.35	134.73	25.27	98.31	50.06	253.92	50.06	134.70	83.98	259.46	120.99
6407	8.44	-8.70	10.41	49.00	42.10	130.63	24.48	104.43	53.18	265.28	54.27	122.74	81.89	246.58	114.63
6408	7.55	-8.70	10.41	50.15	39.99	126.78	23.51	110.38	56.40	270.75	57.46	118.59	78.65	230.37	109.08
6409	6.66	-8.70	10.41	50.41	37.83	123.06	22.45	116.13	59.82	271.73	59.41	120.02	74.51	212.60	104.61
6410	5.77	-8.70	10.41	50.10	35.76	119.41	21.40	121.71	63.64	269.58	60.58	124.59	69.76	194.67	101.47
6411	4.88	-8.70	10.41	49.40	33.29	115.74	20.55	126.93	68.12	264.87	60.57	130.33	64.56	177.23	99.80
6412	4.00	-8.70	10.41	48.62	30.44	112.18	19.92	131.89	73.39	258.61	59.58	136.01	59.19	161.15	99.65
6413	3.11	-8.70	10.41	48.09	27.49	108.90	19.57	136.39	79.38	251.07	57.99	140.83	53.67	146.60	101.00
6414	2.22	-8.70	10.41	48.12	24.50	106.05	19.32	140.41	86.31	242.67	55.81	144.35	48.15	133.76	103.88
6415	1.33	-8.70	10.41	49.20	22.02	103.71	19.04	143.70	93.90	233.76	53.49	146.25	42.62	122.50	108.03
6416	0.44	-8.70	10.41	51.10	20.38	101.99	18.51	146.20	101.98	224.52	51.13	146.40	37.17	112.72	113.24
6417	14.58	-8.10	8.72	29.96	76.04	193.15	29.54	67.76	48.43	171.84	90.82	401.51	94.67	241.84	165.01
6418	13.64	-8.10	8.72	35.15	68.15	191.16	32.70	80.42	49.74	206.91	56.11	379.77	122.58	317.22	174.15
6419	12.70	-8.10	8.72	49.98	61.61	184.87	33.03	91.52	54.55	297.53	41.08	327.36	126.74	374.68	163.93
6420	11.76	-8.10	8.72	60.46	55.87	175.25	32.44	98.72	59.93	357.81	37.38	255.43	126.17	382.35	154.27
6421	10.82	-8.10	8.72	66.37	50.97	166.37	31.37	104.71	65.30	388.60	42.02	196.35	122.75	365.26	144.84
6422	9.88	-8.10	8.72	68.99	46.79	158.83	30.02	110.70	70.47	399.32	48.43	157.29	117.22	338.03	136.18
6423	8.94	-8.10	8.72	69.48	43.16	152.39	28.53	116.96	75.41	397.62	54.01	137.61	110.35	307.67	128.76
6424	8.00	-8.10	8.72	68.64	39.95	146.74	26.99	123.39	80.20	388.50	58.16	132.73	102.74	277.34	122.96
6425	7.05	-8.10	8.72	67.03	37.03	141.63	25.48	129.79	84.97	375.10	60.88	136.39	94.81	248.42	118.94
6426	6.11	-8.10	8.72	64.99	34.33	136.89	24.05	135.93	89.88	359.34	62.37	143.56	86.77	221.49	116.69
6427	5.17	-8.10	8.72	62.82	31.79	132.44	22.74	141.68	95.08	342.55	62.80	151.33	78.83	196.82	116.14
6428	4.23	-8.10	8.72	60.72	29.37	128.33	21.60	146.91	100.67	325.36	62.30	158.25	71.06	174.51	117.17
6429	3.29	-8.10	8.72	58.87	27.17	124.64	20.62	151.49	106.74	308.32	61.10	163.65	63.56	154.49	119.63
6430	2.35	-8.10	8.72	57.47	25.34	121.47	19.75	155.39	113.25	291.63	59.39	167.24	56.34	136.74	123.30
6431	1.41	-8.10	8.72	56.62	24.03	118.99	18.94	158.53	120.13	275.46	57.33	168.93	49.45	121.11	127.94
6432	0.47	-8.10	8.72	56.41	23.42	117.26	18.14	160.86	127.23	259.88	55.05	168.72	42.86	107.46	133.28
6433	14.25	-8.70	8.72	30.11	73.90	194.46	31.27	70.10	52.05	170.36	83.08	368.56	101.07	238.12	169.80
6434	13.33	-8.70	8.72	35.68	66.08	191.28	33.48	81.67	52.64	208.41	82.50	340.02	121.09	302.33	175.74
6435	12.41	-8.70	8.72	48.43	59.97	184.89	33.96	91.72	56.19	286.04	39.11	289.42	127.43	347.41	168.26
6436	11.49	-8.70	8.72	57.39	54.56	176.23	33.51	99.00	60.71	337.05	36.31	228.47	128.39	352.21	158.74
6437	10.57	-8.70	8.72	62.48	49.96	168.36	32.51	105.40	65.55	363.16	40.48	181.37	125.34	336.98	148.90
6438	9.65	-8.70	8.72	64.84	45.97	161.58	31.16	111.72	70.36	372.77	46.24	152.46	119.55	313.26	139.55
6439	8.73	-8.70	8.72	65.44	42.46	155.70	29.66	118.16	75.10	372.06	51.41	140.04	112.33	286.68	131.54
6440	7.81	-8.70	8.72	64.90	39.33	150.47	28.15	124.62	79.73	364.88	55.37	139.13	104.45	259.82	125.26
6441	6.89	-8.70	8.72	63.66	36.48	145.68	26.68	130.94	84.36	353.80	58.08	144.31	96.30	233.94	120.82
6442	5.97	-8.70	8.72	62.											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
6469	10.93	-8.70	7.03	96.09	54.52	194.62	41.72	117.47	86.75	564.04	40.49	187.63	179.12	392.04	165.62
6470	9.98	-8.70	7.03	92.35	49.20	186.57	38.63	124.14	92.65	536.68	44.97	161.35	162.85	344.00	153.76
6471	9.03	-8.70	7.03	87.88	44.78	179.81	35.79	131.66	98.16	505.22	50.22	156.63	147.27	302.33	144.91
6472	8.08	-8.70	7.03	83.29	41.03	173.82	33.25	139.40	103.37	473.03	54.38	162.53	132.62	266.23	138.87
6473	7.13	-8.70	7.03	78.85	37.75	168.31	31.01	146.95	108.41	441.64	57.35	172.01	119.09	234.71	135.26
6474	6.18	-8.70	7.03	74.73	34.86	163.16	29.04	154.06	113.42	411.82	59.14	181.64	106.61	207.03	133.68
6475	5.23	-8.70	7.03	71.03	32.32	158.35	27.33	160.55	118.49	383.87	59.90	189.97	95.11	182.60	133.79
6476	4.28	-8.70	7.03	67.79	30.14	153.94	25.82	166.32	123.70	357.88	59.81	196.49	84.52	161.00	135.28
6477	3.33	-8.70	7.03	65.08	28.35	150.01	24.50	171.30	129.08	333.81	59.03	201.04	74.73	141.90	137.86
6478	2.38	-8.70	7.03	62.93	27.03	146.69	23.32	175.44	134.63	311.54	57.72	203.64	65.69	125.04	141.31
6479	1.43	-8.70	7.03	61.35	26.27	144.12	22.25	178.70	140.32	290.95	56.02	204.36	57.31	110.26	145.41
6480	0.48	-8.70	7.03	60.31	26.11	142.43	21.27	181.07	146.07	271.89	54.07	203.32	49.55	97.43	149.95
6481	15.52	-8.10	5.34	329.63	180.48	385.25	85.29	226.70	40.09	1970.87	597.01	1525.25	306.25	1392.09	254.40
6482	14.52	-8.10	5.34	273.70	118.42	264.21	66.03	152.76	81.91	1603.09	235.02	604.62	263.75	914.22	204.53
6483	13.52	-8.10	5.34	225.48	84.39	236.50	58.97	125.04	96.08	1303.80	91.06	345.08	257.42	656.43	190.81
6484	12.52	-8.10	5.34	188.13	68.75	222.76	53.50	119.55	104.29	1081.86	51.72	228.38	241.02	503.72	178.33
6485	11.52	-8.10	5.34	160.18	59.55	213.39	48.09	124.47	111.22	918.95	46.19	176.63	217.65	406.51	166.38
6486	10.51	-8.10	5.34	139.06	53.03	205.79	43.22	133.33	117.28	795.79	49.37	162.75	193.59	339.03	157.63
6487	9.51	-8.10	5.34	122.66	47.87	198.96	39.09	143.38	122.83	698.81	53.74	167.80	171.60	288.68	151.92
6488	8.51	-8.10	5.34	109.60	43.66	192.51	35.58	153.45	128.05	619.92	57.16	179.51	151.78	249.18	148.82
6489	7.51	-8.10	5.34	99.02	40.10	186.28	32.59	163.01	133.09	554.25	59.42	192.04	134.03	216.97	147.84
6490	6.51	-8.10	5.34	90.32	37.04	180.26	30.04	171.80	138.06	498.55	60.60	203.14	118.22	189.96	148.52
6491	5.51	-8.10	5.34	83.11	34.46	174.53	27.86	179.67	143.06	450.70	60.81	212.11	104.10	166.85	150.46
6492	4.51	-8.10	5.34	77.12	32.33	169.22	25.97	186.53	148.13	409.18	60.22	218.79	91.45	146.82	153.39
6493	3.50	-8.10	5.34	72.18	30.68	164.54	24.33	192.32	153.29	372.89	58.99	223.27	80.09	129.28	157.04
6494	2.50	-8.10	5.34	68.16	29.53	160.67	22.89	197.00	158.55	340.99	57.29	225.69	69.86	113.85	161.24
6495	1.50	-8.10	5.34	64.97	28.92	157.84	21.63	200.56	163.87	312.81	55.24	226.20	60.63	100.27	165.80
6496	0.50	-8.10	5.34	62.52	28.86	156.23	20.56	203.00	169.21	287.82	52.97	224.95	52.29	88.41	170.58
6497	15.21	-8.70	5.34	285.90	180.21	354.78	115.49	186.44	54.17	1659.56	542.44	1237.59	541.40	1123.48	322.63
6498	14.23	-8.70	5.34	233.56	106.74	262.62	81.53	134.57	85.54	1349.04	173.72	523.98	371.17	766.82	240.15
6499	13.25	-8.70	5.34	194.16	80.41	240.35	69.11	118.96	95.74	1114.94	78.93	317.78	319.79	570.87	212.83
6500	12.27	-8.70	5.34	164.56	67.30	227.60	59.75	119.08	104.00	943.79	50.18	220.30	275.68	451.20	188.92
6501	11.29	-8.70	5.34	142.70	59.10	218.60	52.21	125.97	110.80	817.74	44.75	179.62	237.46	372.40	172.29
6502	10.31	-8.70	5.34	125.77	52.79	211.11	46.29	135.26	116.68	719.16	46.94	170.95	205.97	315.29	161.19
6503	9.32	-8.70	5.34	112.41	47.74	204.36	41.60	145.17	122.06	639.53	50.97	177.52	179.92	271.39	154.03
6504	8.34	-8.70	5.34	101.64	43.61	198.01	37.74	154.90	127.09	573.36	54.30	179.57	157.57	236.18	149.99
6505	7.36	-8.70	5.34	92.79	40.07	191.93	34.58	164.08	131.92	517.14	56.77	201.02	138.37	206.90	148.30
6506	6.38	-8.70	5.34	85.46	37.06	186.10	31.93	172.50	136.68	468.69	58.19	211.45	121.63	182.02	148.40
6507	5.40	-8.70	5.34	79.37	34.51	180.58	29.68	180.04	141.45	426.53	58.68	219.81	106.88	160.53	149.85
6508	4.42	-8.70	5.34	74.32	32.43	175.50	27.76	186.61	146.29	389.55	58.39	226.00	93.81	141.75	152.32
6509	3.44	-8.70	5.34	70.18	30.81	171.01	26.09	192.18	151.20	356.93	57.47	230.09	82.13	125.25	155.57
6510	2.45	-8.70	5.34	66.87	29.70	167.29	24.63	196.71	156.20	328.01	56.06	232.20	71.65	110.71	159.37
6511	1.47	-8.70	5.34	64.29	29.14	164.53	23.35	200.18	161.26	302.29	54.30	232.49	62.20	97.94	163.56
6512	0.49	-8.70	5.34	62.39	29.12	162.89	22.25	202.59	166.33	279.32	52.32	231.11	53.65	86.84	167.99
6513	-7.92	-9.28	17.16	222.94	61.43	14.45	47.00	48.64	25.20	250.67	54.40	14.43	47.77	50.25	24.40
6514	-8.62	-9.26	17.16	179.30	46.83	13.90	49.85	40.62	24.68	203.19	36.31	13.85	50.41	42.72	23.93
6515	-9.33	-9.23	17.16	143.59	36.93	13.80	50.49	35.76	25.23	162.81	21.42	13.78	50.73	38.28	24.67
6516	-7.99	-9.85	17.16	199.92	49.63	14.43	38.26	46.40	21.93	223.61	41.35	14.33	39.55	47.53	21.11
6517	-8.62	-9.77	17.16	167.18	39.93	14.10	43.59	40.82	23.07	187.87	28.38	14.00	44.50	42.47	22.34
6518	-9.23	-9.68	17.16	138.93	33.19	14.04	46.80	37.00	24.54	156.08	17.00	14.00	47.35	39.10	24.01
6519	-8.07	-10.41	17.16	176.22	38.67	14.49	33.63	44.60	20.29	196.34	29.01	14.38	35.69	45.39	19.47
6520	-8.60	-10.27	17.16	153.44	33.20	14.33	39.27	41.03	22.16	171.31	20.48	14.23	40.71	42.33	21.49
6521	-9.13	-10.13	17.16	132.19	29.27	14.27	43.68	38.34	24.13	147.42	12.49	14.21	44.58	40.12	23.67
6522	-0.38	-9.50	17.16	16.26	6.57	24.53	52.16	349.92	30.19	44.10	32.76	52.86	53.08	347.85	66.62
6523	-1.14	-9.50	17.16	78.35	28.06	36.61	7.73	377.72	73.05	86.90	27.91	69.17	22.33	376.43	103.59
6524	-1.90	-9.49	17.16	58.54	23.34	34.16	30.08	421.76	114.41	71.76	32.82	74.16	30.56	421.09	142.74
6525	-2.66	-9.47	17.16	102.43	45.04	53.21	31.61	455.32	169.21	114.33	52.10	81.96	31.61	456.66	189.72
6526	-3.42	-9.46	17.16	161.34	81.29	87.81	22.03	489.30	243.35	174.33	87.15	109.37	21.92	493.39	259.72
6527	-4.18	-9.44	17.16	768.08	111.96	39.67	137.99	327.09	212.41	798.55	116.59	44.86	147.17	328.60	222.45
6528	-4.93	-9.41	17.16	566.61	232.15	24.62	60.54	190.59	117.33	598.29	238.62	25.28	64.83	191.50	121.29
6529	-5.69	-9.38	17.16	441.87	143.58	24.51	37.11	117.93	52.30	474.63	143.99	24.52	38.81	118.65	52.72
6530	-6.44	-9.35	17.16	349.87	103.46	19.70	32.99	84.16	30.95	382.31	101.18	19.78	33.99	85.12	30.30
6531	-7.19	-9.31	17.16	278.61	80.34	16.08	41.12	62.24	26.78	309.27	75.89	16.11	42.00	63.46	25.98
6532	-0.39	-10.50	17.16	33.40	10.24	40.57	91.00	526.25	26.84	45.12	33.99	106.27	90.83	523.48	108.20
6533	-1.17	-10.49	17.16	60.78	24.92	40.31	89.84	537.42	73.06	70.41	41.81	101.92	89.81	535.07	125.25
6534	-1.95	-10.46	17.16	105.27	53.78	51.09	87.75	552.82	135.91	114.45	65.51	105.03	87.63	551.60	170.38
6535	-2.73	-10.42	17.16	498.08	124.52	38.68	133.11	466.64	183.09	507.81	146.41	78.35	133.26	465.66	207.79
6536	-3.50	-10.37	17.16	385.10	378.25	67.49	303.23	369.81	204.60	398.90	406.14	90.21	304.76	370.11	225.24
6537	-4.27	-10.31	17.16	666.88	273.66	30.06	113.77	218.20	108.32	692.09	288.12	37.87	114.57	217.50	119.72
6538	-5.04	-10.23	17.16	486.78	154.71	26.30	47.25	140.51	31.79	513.39	158.04	26.78	48.13	139.91	34.71
6539	-5.80	-10.15	17.16	367.34	112.18	21.08	6.51	93.05	25.03	394.51	111.59	21.11	13.		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
6567	-4.56	-12.93	17.16	169.74	29.84	16.24	38.59	54.03	10.00	193.82	28.13	19.04	44.79	51.66	14.50
6568	-5.36	-12.71	17.16	167.98	28.35	16.12	18.77	52.25	10.87	189.99	24.56	17.74	29.46	50.11	12.08
6569	-6.15	-12.45	17.16	159.33	24.79	15.95	10.07	50.33	12.74	179.30	19.65	16.81	24.00	48.70	12.27
6570	-6.92	-12.16	17.16	149.14	22.02	15.81	17.51	48.46	15.59	166.96	15.46	16.17	26.69	47.53	14.66
6571	-7.67	-11.84	17.16	135.96	20.28	15.60	27.75	46.28	19.12	151.48	11.53	15.70	33.29	46.15	18.30
6572	-0.43	-14.50	17.16	60.53	5.69	15.90	49.29	55.03	6.19	125.29	15.54	25.19	48.73	52.29	14.56
6573	-1.29	-14.45	17.16	78.73	5.50	16.03	42.65	54.79	6.28	133.55	13.16	24.44	43.26	52.02	13.13
6574	-2.14	-14.36	17.16	93.85	8.56	16.27	32.91	53.71	7.29	140.34	11.69	23.40	36.19	50.93	11.86
6575	-2.99	-14.22	17.16	103.86	10.05	16.60	22.86	52.78	8.37	143.38	9.80	22.24	30.66	50.00	10.71
6576	-3.83	-14.04	17.16	111.52	10.39	17.05	14.06	52.38	9.58	144.63	8.28	21.15	27.69	49.68	10.07
6577	-4.66	-13.81	17.16	115.57	10.49	17.40	9.36	52.46	11.39	143.17	8.36	20.12	27.13	49.95	10.72
6578	-5.47	-13.54	17.16	117.17	10.51	17.63	13.29	52.32	14.05	140.03	9.19	19.27	28.86	50.17	12.93
6579	-6.26	-13.22	17.16	115.17	10.84	17.61	21.14	51.68	17.22	134.14	10.03	18.49	32.63	50.08	16.09
6580	-7.04	-12.87	17.16	110.35	12.33	17.40	28.68	50.59	20.65	125.94	11.31	17.79	36.95	49.70	19.73
6581	-7.79	-12.47	17.16	103.69	15.25	17.06	35.21	49.06	24.21	116.27	13.34	17.19	41.04	48.95	23.65
6582	-11.39	-9.32	17.16	58.32	39.43	14.64	46.62	32.89	36.17	60.82	27.50	15.00	44.48	35.49	38.18
6583	-10.90	-9.94	17.16	64.46	36.38	15.01	47.24	35.88	35.35	67.66	26.67	15.23	45.87	38.35	37.11
6584	-10.37	-10.54	17.16	70.87	32.91	15.39	47.46	39.02	34.35	74.99	25.37	15.50	47.09	41.26	35.75
6585	-10.70	-9.28	17.16	84.24	33.01	14.21	48.67	32.19	30.38	92.21	14.49	14.49	47.70	34.93	31.02
6586	-10.35	-9.82	17.16	87.87	30.46	14.52	47.71	34.69	29.93	95.80	14.02	14.70	47.22	37.13	30.52
6587	-9.98	-10.34	17.16	91.06	27.82	14.83	46.40	37.31	29.44	99.08	13.91	14.93	46.57	39.41	29.94
6588	-10.02	-9.23	17.16	111.77	32.06	13.89	50.04	33.20	27.04	125.45	10.85	13.97	49.80	35.98	26.92
6589	-9.81	-9.70	17.16	112.03	29.60	14.15	45.91	35.09	26.64	124.72	8.88	14.18	48.01	37.48	26.52
6590	-9.58	-10.15	17.16	112.24	27.14	14.45	47.73	36.93	26.28	124.23	7.87	14.47	46.33	38.92	26.16
6591	-8.50	-12.04	17.16	96.10	19.13	16.63	40.48	47.05	27.45	106.04	16.27	16.65	44.37	47.67	27.31
6592	-8.34	-11.50	17.16	122.93	20.07	15.41	35.54	43.98	22.45	136.21	9.11	15.40	39.05	44.55	21.87
6593	-8.19	-10.96	17.16	149.70	27.89	14.75	33.00	43.59	20.36	166.34	16.60	14.68	35.90	44.22	19.58
6594	-9.16	-11.58	17.16	87.88	23.79	16.21	44.43	44.67	30.25	95.59	19.60	16.21	46.80	45.96	30.62
6595	-8.93	-11.15	17.16	110.91	21.67	15.25	40.85	41.83	25.28	122.19	9.32	15.23	43.07	43.01	25.07
6596	-8.71	-10.73	17.16	134.01	25.85	14.66	38.69	41.13	22.76	148.75	11.35	14.58	40.63	42.28	22.21
6597	-9.79	-11.08	17.16	79.03	28.66	15.82	46.78	42.00	32.64	84.74	23.18	15.86	47.77	43.82	33.55
6598	-9.50	-10.79	17.16	98.95	24.70	15.12	44.56	39.70	27.90	108.20	12.43	15.15	45.74	41.38	28.10
6599	-9.22	-10.49	17.16	118.89	25.61	14.60	42.79	38.96	25.06	131.58	7.97	14.56	43.94	40.58	24.83
6600	-8.25	-9.30	15.47	150.87	51.08	41.78	43.91	97.10	70.71	175.50	43.27	41.05	43.59	97.01	69.92
6601	-8.99	-9.27	15.47	130.15	42.40	41.19	44.77	88.47	70.03	151.83	30.72	40.51	44.12	90.22	69.21
6602	-9.73	-9.24	15.47	110.52	36.86	41.32	44.70	82.44	71.61	128.52	20.21	40.95	43.73	85.74	71.04
6603	-8.35	-9.90	15.47	140.70	43.76	42.00	36.96	96.78	64.94	161.81	34.45	41.17	36.68	96.08	64.19
6604	-8.99	-9.82	15.47	124.15	37.94	41.72	39.70	90.34	66.85	142.88	25.05	40.96	39.08	91.28	66.11
6605	-9.63	-9.72	15.47	108.40	34.32	41.88	41.48	85.46	69.80	124.32	17.10	41.42	40.56	87.85	69.30
6606	-8.43	-10.50	15.47	129.11	36.50	42.54	32.46	96.94	61.30	147.06	25.43	41.82	32.45	95.79	60.59
6607	-8.98	-10.36	15.47	117.08	33.55	42.44	35.83	92.41	64.65	133.17	19.36	41.74	35.39	92.68	64.00
6608	-9.53	-10.20	15.47	105.05	31.68	42.56	38.67	88.65	68.33	119.05	14.08	42.06	37.88	90.26	67.87
6609	-0.40	-9.53	15.47	52.62	14.60	48.59	70.76	257.57	49.62	109.92	43.95	84.96	71.44	252.20	79.44
6610	-1.19	-9.53	15.47	96.08	17.51	55.19	59.27	243.95	79.24	140.48	40.11	89.56	59.70	237.38	99.13
6611	-1.99	-9.52	15.47	110.27	37.14	55.23	49.33	227.21	102.88	155.59	49.55	88.96	49.62	220.05	117.94
6612	-2.78	-9.50	15.47	161.99	59.20	52.17	42.29	211.73	118.17	200.36	68.40	83.67	41.75	204.34	130.14
6613	-3.57	-9.49	15.47	223.51	85.28	44.62	25.49	162.33	116.05	258.78	91.88	65.52	24.31	154.28	124.80
6614	-4.36	-9.46	15.47	138.40	108.65	47.95	31.35	156.83	119.77	174.69	113.35	57.69	29.79	148.89	126.24
6615	-5.15	-9.44	15.47	195.96	84.28	56.99	16.63	155.96	113.34	227.02	85.79	58.70	17.07	149.34	117.44
6616	-5.93	-9.41	15.47	202.31	86.85	53.28	32.10	140.75	93.99	231.91	86.80	53.21	33.01	135.31	95.76
6617	-6.71	-9.37	15.47	190.82	75.83	48.02	38.60	124.26	81.10	219.26	73.54	47.55	39.09	120.42	81.39
6618	-7.50	-9.33	15.47	172.02	62.53	43.80	41.88	109.03	74.00	198.87	57.71	43.15	41.91	107.03	73.51
6619	-0.41	-10.60	15.47	59.16	11.53	50.40	117.30	228.98	43.03	117.50	39.52	103.97	116.98	223.18	78.92
6620	-1.23	-10.59	15.47	99.93	32.43	54.20	112.26	219.36	64.55	145.27	50.14	103.93	111.88	212.58	91.29
6621	-2.05	-10.56	15.47	153.01	59.68	49.53	102.94	190.39	81.77	190.39	71.60	94.24	102.27	183.19	102.66
6622	-2.86	-10.52	15.47	128.65	80.05	48.93	75.44	184.15	97.07	169.62	86.57	85.09	74.38	176.59	113.55
6623	-3.67	-10.46	15.47	207.15	46.66	52.69	9.45	164.42	87.39	239.12	48.47	72.69	13.05	157.05	99.55
6624	-4.47	-10.39	15.47	160.71	71.14	53.65	12.47	150.70	78.24	191.36	72.74	62.75	12.42	143.14	86.48
6625	-5.27	-10.31	15.47	190.85	83.34	55.73	10.44	147.01	76.13	217.98	84.10	58.40	14.53	140.23	80.94
6626	-6.07	-10.22	15.47	191.27	73.29	50.05	16.87	131.98	68.64	217.14	71.82	50.59	18.82	126.11	70.62
6627	-6.85	-10.12	15.47	177.14	62.58	45.74	25.60	117.82	64.64	201.81	58.90	45.42	26.42	113.42	64.97
6628	-7.63	-10.00	15.47	158.87	52.05	43.16	32.43	105.80	63.95	181.97	45.78	42.45	32.57	103.25	63.45
6629	-0.42	-11.67	15.47	63.48	7.90	51.74	98.18	197.06	34.16	125.37	28.87	108.97	97.16	190.73	89.60
6630	-1.26	-11.65	15.47	103.97	24.14	52.76	85.64	187.78	47.83	151.46	35.71	104.56	84.34	180.93	90.89
6631	-2.10	-11.60	15.47	143.67	31.45	50.16	60.03	163.85	52.30	182.99	38.27	92.70	58.79	156.84	85.99
6632	-2.94	-11.53	15.47	113.94	56.05	50.43	60.36	161.15	57.32	154.30	61.69	81.86	59.03	153.84	83.72
6633	-3.76	-11.44	15.47	164.05	70.56	50.77	52.94	161.91	63.24	193.42	75.53	71.21	52.84	154.67	81.96
6634	-4.58	-11.33	15.47	188.16	71.26	49.12	31.28	143.23	59.15	214.37	73.17	59.72	32.72	135.76	70.32
6635	-5.39	-11.19	15.47	178.89	65.13	48.24	13.75	130.61	53.34	203.48	64.55	52.65	18.33	123.30	58.98
6636	-6.20	-11.04	15.47	169.35	55.82	46.39	11.97	120.91	52.32	192.30	52.81	47.95	16.30	114.56	54.48
6637	-6.99	-10.87	15.47	157.49	47.87	44.35	19.00	111.62	54.27	178.94	42.48	44.55	20.89	106.82	54.59
6638	-7.77	-10.68	15.47	142.82	41.22	43.08	26.92	103.25	57.69	162.55	33.16	42.60	27.54	100.34	57.18
6639	-0.43	-12.74	1												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
6665	-5.73	-13.85	15.47	99.14	15.65	50.42	15.10	113.52	38.30	120.31	10.28	58.54	25.50	105.12	37.46
6666	-6.56	-13.51	15.47	98.40	16.68	50.73	18.56	112.77	44.64	115.50	10.37	55.45	26.46	105.73	42.98
6667	-7.37	-13.13	15.47	96.20	17.96	50.63	23.19	111.22	51.56	110.02	10.28	52.94	28.39	105.86	49.74
6668	-8.16	-12.70	15.47	92.59	19.59	50.19	28.04	108.71	58.79	103.74	10.00	51.02	31.04	105.21	57.23
6669	-11.87	-9.34	15.47	59.59	36.27	44.78	42.97	78.02	89.55	63.55	15.18	47.35	40.67	82.65	91.71
6670	-11.37	-10.00	15.47	65.03	33.31	45.67	42.41	84.04	86.20	69.39	14.00	47.32	40.42	87.87	87.89
6671	-10.83	-10.64	15.47	70.64	30.25	46.72	41.40	90.23	82.48	75.57	12.73	47.59	39.88	93.05	83.57
6672	-11.16	-9.29	15.47	74.84	34.52	42.93	43.39	77.58	81.07	83.42	11.17	44.27	41.61	82.40	81.97
6673	-10.80	-9.87	15.47	78.31	32.30	43.65	42.02	82.80	78.90	86.51	10.47	44.46	40.43	86.60	79.60
6674	-10.42	-10.43	15.47	81.47	29.97	44.53	40.31	88.05	76.47	89.48	9.94	44.89	39.04	90.77	76.91
6675	-10.45	-9.25	15.47	91.57	34.35	41.88	44.16	78.95	75.24	104.98	12.48	42.15	42.80	83.36	75.25
6676	-10.23	-9.74	15.47	92.56	32.47	42.45	42.07	83.01	73.66	104.77	11.24	42.49	40.83	86.42	73.63
6677	-10.01	-10.22	15.47	93.49	30.54	43.19	39.89	87.05	72.03	104.82	10.31	43.08	38.90	89.43	71.93
6678	-8.89	-12.24	15.47	88.15	21.56	49.45	32.54	105.23	65.64	97.18	9.97	49.57	33.85	103.56	64.55
6679	-8.73	-11.67	15.47	101.35	24.75	45.56	30.80	100.41	61.66	113.19	10.67	45.44	31.71	98.92	60.81
6680	-8.56	-11.09	15.47	115.35	29.65	43.57	30.53	97.91	60.13	130.17	16.56	43.11	30.96	96.53	59.36
6681	-9.58	-11.75	15.47	82.87	24.11	48.58	36.43	100.93	71.95	90.24	10.36	48.57	36.58	100.97	71.54
6682	-9.34	-11.30	15.47	94.40	25.97	45.33	34.91	96.69	67.25	104.66	9.54	45.09	34.91	96.76	66.76
6683	-9.10	-10.85	15.47	106.71	29.02	43.51	34.38	94.29	64.60	119.98	13.21	42.99	34.18	94.32	63.99
6684	-10.24	-11.22	15.47	76.83	27.03	47.72	39.43	95.93	77.71	82.80	11.45	48.01	38.68	97.47	78.05
6685	-9.93	-10.90	15.47	87.02	27.71	45.14	38.15	92.69	72.55	95.80	9.50	45.12	37.49	94.17	72.55
6686	-9.63	-10.59	15.47	97.90	29.31	43.54	37.44	90.81	69.04	109.60	10.73	43.21	36.76	92.14	68.76
6687	-8.59	-9.32	13.78	103.09	41.69	66.72	37.25	113.35	104.46	131.97	31.62	63.68	35.67	106.32	104.32
6688	-9.36	-9.29	13.78	95.07	39.58	67.71	38.63	108.92	105.62	119.94	25.54	64.77	36.95	105.38	105.35
6689	-10.12	-9.26	13.78	86.39	38.55	68.90	39.40	105.23	108.33	106.92	20.18	66.75	37.59	104.72	108.18
6690	-8.70	-9.96	13.78	100.60	38.79	67.86	33.29	116.14	99.20	125.54	27.01	65.05	31.51	109.18	99.09
6691	-9.37	-9.87	13.78	93.79	37.57	68.68	35.43	112.47	101.99	115.50	22.39	65.85	33.60	108.42	101.77
6692	-10.03	-9.77	13.78	86.62	37.15	69.65	37.10	109.22	105.60	105.01	18.43	67.41	35.21	107.78	105.45
6693	-8.80	-10.60	13.78	97.21	35.78	69.19	30.52	119.11	95.05	118.51	22.27	66.85	28.73	112.20	94.91
6694	-9.37	-10.44	13.78	91.96	35.55	69.82	32.89	116.13	98.88	110.82	19.31	67.29	31.02	111.60	98.65
6695	-9.93	-10.27	13.78	86.27	35.65	70.54	35.12	113.28	102.91	102.62	16.77	68.32	33.19	111.03	102.70
6696	-0.41	-9.57	13.78	53.66	13.40	64.88	38.80	165.57	64.81	152.55	37.90	107.13	40.66	153.48	87.87
6697	-1.24	-9.56	13.78	69.80	16.45	65.59	36.28	163.23	79.18	156.43	37.68	104.45	36.82	148.39	96.66
6698	-2.07	-9.55	13.78	89.79	24.85	64.85	29.91	156.54	92.09	164.12	40.37	98.98	28.99	139.38	105.39
6699	-2.89	-9.54	13.78	99.27	33.27	62.20	20.27	146.66	101.72	166.56	43.65	89.56	17.26	127.56	111.89
6700	-3.72	-9.52	13.78	98.97	39.20	61.73	13.26	146.61	109.15	160.10	46.08	81.51	5.68	126.87	116.87
6701	-4.54	-9.49	13.78	124.30	41.76	62.03	15.82	138.66	108.82	175.46	45.74	73.83	11.43	118.45	114.19
6702	-5.36	-9.46	13.78	115.30	50.19	63.11	19.00	131.10	107.51	162.14	51.99	68.65	15.35	111.20	110.94
6703	-6.18	-9.43	13.78	115.60	49.34	64.58	25.34	127.75	107.99	157.04	48.55	65.76	23.05	110.10	110.01
6704	-6.99	-9.39	13.78	114.24	47.68	65.35	30.97	123.33	106.23	151.08	44.25	64.07	29.25	108.83	107.16
6705	-7.80	-9.35	13.78	109.85	44.72	65.96	34.90	118.31	104.71	142.63	38.21	63.43	33.35	107.52	104.91
6706	-0.43	-10.71	13.78	56.59	11.59	68.72	47.31	162.09	57.58	148.96	34.66	116.35	47.23	148.35	88.73
6707	-1.29	-10.69	13.78	75.38	15.60	67.77	42.02	158.68	69.98	154.47	33.98	111.56	40.64	142.79	93.91
6708	-2.14	-10.66	13.78	85.66	24.14	67.18	33.06	156.24	79.63	155.92	36.37	105.28	30.30	138.65	98.04
6709	-2.99	-10.61	13.78	108.15	31.61	65.28	24.11	147.35	83.72	166.65	40.14	95.71	19.69	128.35	97.59
6710	-3.83	-10.55	13.78	102.44	46.65	64.66	23.33	142.74	89.74	156.50	52.36	86.69	18.44	122.93	99.70
6711	-4.67	-10.48	13.78	119.33	46.86	64.93	13.99	139.44	94.15	164.90	49.67	78.83	6.25	119.80	100.94
6712	-5.50	-10.39	13.78	115.16	45.68	65.47	15.34	132.58	93.70	156.03	45.75	72.79	10.12	113.63	97.94
6713	-6.33	-10.30	13.78	114.59	45.27	66.26	20.64	129.58	93.96	150.61	42.85	68.74	17.88	112.89	96.32
6714	-7.15	-10.19	13.78	112.15	43.25	66.68	25.79	125.37	95.02	144.07	38.04	66.23	23.77	111.65	96.07
6715	-7.96	-10.06	13.78	107.12	40.82	67.18	30.18	120.53	96.82	135.38	32.46	65.07	28.38	110.25	97.07
6716	-0.44	-11.85	13.78	58.14	11.28	71.13	55.49	150.44	48.42	144.08	34.91	120.76	53.78	134.63	86.37
6717	-1.33	-11.82	13.78	74.89	15.52	69.75	50.64	149.12	56.82	148.39	34.39	115.42	48.00	131.72	87.06
6718	-2.20	-11.76	13.78	85.30	26.02	68.91	44.82	148.69	65.22	149.40	38.53	108.63	41.56	130.11	88.51
6719	-3.07	-11.69	13.78	105.65	31.24	67.77	32.17	143.42	71.09	158.75	38.88	100.01	28.21	123.82	88.19
6720	-3.94	-11.59	13.78	105.81	34.22	66.89	21.55	137.00	72.92	153.68	37.90	90.61	16.71	116.76	84.94
6721	-4.79	-11.47	13.78	107.55	37.02	67.00	16.39	136.32	75.61	149.04	37.95	82.67	11.71	116.73	83.57
6722	-5.64	-11.33	13.78	110.80	38.73	67.30	15.25	133.68	79.31	146.57	37.02	76.39	11.68	115.46	84.11
6723	-6.47	-11.17	13.78	110.38	38.72	67.63	18.09	130.42	82.58	141.66	34.34	71.74	15.71	114.39	85.11
6724	-7.30	-10.98	13.78	107.45	37.64	68.05	22.56	126.83	86.31	134.92	30.36	68.74	20.68	113.70	87.36
6725	-8.11	-10.78	13.78	102.59	36.47	68.59	27.08	122.75	90.77	126.69	26.05	67.18	25.32	112.90	90.97
6726	-0.45	-12.99	13.78	58.58	10.17	72.72	48.49	138.95	39.51	138.09	31.04	122.77	45.24	120.86	80.06
6727	-1.36	-12.95	13.78	72.70	12.52	71.57	44.19	139.70	45.55	141.15	29.52	117.86	40.37	120.46	78.44
6728	-2.26	-12.88	13.78	84.97	17.74	70.22	37.15	138.69	50.91	143.64	29.09	110.76	33.19	118.59	76.38
6729	-3.15	-12.77	13.78	91.62	22.99	69.36	30.43	137.83	55.83	142.38	29.57	102.96	26.83	117.32	74.63
6730	-4.04	-12.64	13.78	99.02	27.31	68.91	24.04	136.57	60.56	141.99	29.97	94.87	21.27	116.27	73.54
6731	-4.91	-12.47	13.78	103.01	30.05	68.77	18.56	134.99	64.71	139.74	29.28	87.04	16.80	115.51	72.90
6732	-5.77	-12.27	13.78	104.14	31.32	68.98	16.49	133.50	69.13	135.61	27.50	80.49	15.55	115.65	73.74
6733	-6.61	-12.04	13.78	103.55	31.91	69.38	17.90	131.45	74.36	130.62	25.21	75.52	17.11	115.94	76.56
6734	-7.44	-11.78	13.78	101.12	32.20	69.87	21.39	128.81	80.22	124.49	22.66	72.06	20.37	116.17	80.95
6735	-8.25	-11.50	13.78	97.12	32.45	70.44	25.57	125.59	86.56	117.27	19.94	70.01	24.26	116.13	86.50
6736	-0.47	-14.13	13.78	59.38	9.53	74.05	42.26	132.74	31.47	130.75	27.45	127.12	37		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
6763	-10.66	-9.79	13.78	79.19	37.10	70.96	38.18	107.67	109.43	93.49	15.11	69.91	36.19	108.30	109.48
6764	-10.43	-10.30	13.78	80.96	35.67	71.74	36.29	112.35	106.30	94.39	14.49	70.36	34.34	111.64	106.21
6765	-9.29	-12.45	13.78	84.05	29.10	78.22	29.69	131.34	90.21	94.71	13.72	78.14	29.17	125.35	88.34
6766	-9.11	-11.83	13.78	88.15	30.71	73.65	28.95	126.35	90.97	102.20	14.68	72.73	27.83	120.03	90.08
6767	-8.93	-11.22	13.78	92.73	32.90	70.96	29.11	122.40	92.26	110.34	17.80	69.26	27.56	115.73	91.86
6768	-10.00	-11.92	13.78	80.48	31.14	77.86	32.98	127.03	98.20	89.50	13.08	77.01	31.80	123.66	96.87
6769	-9.74	-11.44	13.78	84.29	32.15	73.89	32.08	122.79	97.47	96.56	13.81	72.41	30.57	118.92	96.75
6770	-9.49	-10.96	13.78	88.57	33.53	71.41	31.84	119.45	97.22	104.24	16.19	69.34	30.09	115.04	96.81
6771	-10.68	-11.36	13.78	76.20	33.30	77.42	35.94	121.85	105.80	83.87	12.47	77.14	34.30	120.82	105.13
6772	-10.36	-11.02	13.78	79.87	33.74	74.11	34.84	118.70	103.77	90.56	13.04	73.00	33.09	117.07	103.37
6773	-10.04	-10.69	13.78	83.99	34.47	71.91	34.28	116.30	102.25	97.83	14.76	70.08	32.40	114.00	102.00
6774	-8.93	-9.34	12.09	80.30	39.86	92.99	32.68	123.70	130.21	117.58	28.08	86.18	29.56	106.69	130.42
6775	-9.73	-9.31	12.09	76.98	40.64	95.27	34.64	120.92	132.83	108.45	24.97	88.18	31.79	109.24	132.90
6776	-10.52	-9.27	12.09	73.16	41.73	97.55	36.27	118.30	136.22	98.82	22.12	91.55	33.65	111.42	136.29
6777	-9.05	-10.01	12.09	81.01	38.95	94.87	30.79	127.53	125.37	113.23	25.50	88.56	27.30	111.64	125.60
6778	-9.74	-9.91	12.09	78.04	39.84	96.64	32.93	125.06	128.81	105.68	23.19	89.89	29.80	113.54	128.86
6779	-10.43	-9.81	12.09	74.75	40.98	98.43	34.83	122.59	132.66	97.94	21.19	92.39	32.03	115.07	132.67
6780	-9.16	-10.69	12.09	81.32	37.94	96.80	29.54	131.55	120.78	108.81	22.95	91.22	25.92	116.61	120.80
6781	-9.75	-10.52	12.09	78.87	39.01	98.08	31.56	129.29	124.82	102.94	21.49	91.85	28.31	117.88	124.90
6782	-10.34	-10.35	12.09	76.03	40.17	99.40	33.65	126.92	128.87	96.74	20.36	93.41	30.74	118.89	128.77
6783	-0.43	-9.60	12.09	52.88	15.86	85.27	24.17	145.07	84.21	180.67	42.11	127.70	29.99	119.00	100.84
6784	-1.29	-9.60	12.09	61.74	17.08	84.35	21.77	145.21	93.85	177.14	40.44	124.03	24.36	114.28	106.93
6785	-2.15	-9.58	12.09	68.91	20.84	83.46	18.69	144.06	102.40	172.93	39.82	118.41	18.00	109.34	112.58
6786	-3.01	-9.57	12.09	75.50	25.69	83.16	16.03	142.72	109.55	168.27	40.21	111.98	11.47	105.43	117.32
6787	-3.87	-9.55	12.09	82.28	30.38	82.90	14.80	139.21	114.74	164.41	40.70	104.59	5.91	100.31	120.50
6788	-4.72	-9.52	12.09	81.75	34.50	83.45	15.87	137.26	119.51	155.57	41.04	97.84	6.27	98.71	123.67
6789	-5.57	-9.49	12.09	86.07	36.10	84.66	19.47	135.21	122.75	150.63	39.03	92.28	12.68	98.77	125.62
6790	-6.42	-9.46	12.09	86.04	37.88	86.42	23.39	132.22	124.37	142.98	37.36	88.42	18.23	99.16	126.19
6791	-7.27	-9.42	12.09	85.00	38.74	88.47	27.09	129.43	126.11	134.90	34.63	86.16	22.96	101.17	127.16
6792	-8.11	-9.37	12.09	83.07	39.35	90.71	30.22	126.55	127.99	126.44	31.48	85.46	26.72	103.87	128.49
6793	-0.45	-10.81	12.09	55.06	14.49	90.69	29.93	144.80	76.03	171.17	39.18	137.43	31.69	115.90	97.39
6794	-1.34	-10.79	12.09	63.61	16.33	89.49	27.36	145.89	84.11	168.02	37.90	133.07	26.05	113.16	101.04
6795	-2.23	-10.75	12.09	72.84	20.58	88.11	23.86	144.76	91.46	165.36	37.58	126.53	19.50	109.10	104.56
6796	-3.12	-10.70	12.09	76.83	25.51	87.30	20.25	143.87	98.45	159.80	37.76	119.11	12.53	106.53	108.34
6797	-4.00	-10.64	12.09	84.17	28.27	86.89	17.00	141.98	103.41	156.63	36.30	111.20	3.42	104.15	110.67
6798	-4.87	-10.56	12.09	84.49	32.05	87.16	16.91	139.66	107.15	149.00	36.33	103.77	2.90	102.70	112.24
6799	-5.73	-10.47	12.09	87.23	34.71	88.03	18.72	138.19	111.19	143.54	35.48	97.49	9.45	103.81	114.59
6800	-6.59	-10.37	12.09	86.99	36.26	89.45	21.68	135.60	114.75	136.35	33.53	92.89	15.06	104.84	116.86
6801	-7.44	-10.25	12.09	85.84	37.31	91.14	25.02	133.05	118.16	128.89	31.05	89.85	19.99	106.98	119.33
6802	-8.28	-10.12	12.09	83.78	38.16	93.02	28.20	130.23	121.79	121.08	28.27	88.43	24.14	109.39	122.33
6803	-0.46	-12.02	12.09	57.02	13.22	95.64	32.64	143.17	66.59	161.01	36.22	146.41	30.54	111.39	92.26
6804	-1.39	-11.99	12.09	65.34	15.03	94.10	30.05	144.85	73.54	158.52	34.77	141.50	25.18	110.16	94.03
6805	-2.30	-11.93	12.09	73.82	18.54	92.56	26.14	144.67	79.78	156.11	33.61	134.61	18.57	107.99	95.64
6806	-3.21	-11.85	12.09	77.91	22.95	91.35	22.83	144.28	85.38	151.08	33.38	126.52	12.78	106.80	97.28
6807	-4.11	-11.74	12.09	83.27	27.12	90.83	20.04	143.89	91.08	146.99	33.32	118.27	7.60	106.90	99.65
6808	-5.00	-11.62	12.09	86.03	30.20	90.89	18.54	142.22	96.18	141.78	32.41	110.39	5.53	106.76	102.05
6809	-5.88	-11.47	12.09	86.98	32.31	91.44	19.08	140.78	100.81	135.61	30.80	103.40	9.21	108.18	104.59
6810	-6.75	-11.29	12.09	86.92	34.00	92.48	21.11	139.01	105.65	129.17	28.94	97.87	13.98	110.28	107.90
6811	-7.60	-11.10	12.09	85.83	35.44	93.83	23.91	136.78	110.71	122.42	26.92	93.95	18.54	112.62	111.88
6812	-8.44	-10.88	12.09	83.77	36.77	95.36	26.97	134.09	116.01	115.32	24.84	91.72	22.73	114.86	116.47
6813	-0.48	-13.23	12.09	59.09	12.13	100.03	34.05	141.45	56.34	150.31	33.32	156.28	28.22	107.06	84.20
6814	-1.43	-13.19	12.09	66.74	13.67	98.17	31.63	143.58	62.09	148.40	31.62	150.86	23.82	107.09	84.50
6815	-2.37	-13.11	12.09	73.29	17.06	96.64	28.53	144.82	67.99	145.56	30.30	143.79	19.29	107.32	85.32
6816	-3.30	-13.00	12.09	79.07	20.71	95.40	25.02	145.15	73.74	142.32	29.03	135.45	14.75	107.68	86.57
6817	-4.22	-12.85	12.09	82.55	23.96	94.63	22.11	145.04	79.26	137.78	27.69	126.60	11.51	108.69	88.29
6818	-5.13	-12.67	12.09	84.82	26.88	94.45	20.52	144.72	85.00	132.67	26.48	118.02	10.85	110.62	91.00
6819	-6.02	-12.46	12.09	86.05	29.46	94.80	20.36	143.94	91.04	127.31	25.32	110.25	12.49	113.06	94.73
6820	-6.90	-12.22	12.09	86.15	31.66	95.55	21.59	142.69	97.32	121.64	24.08	103.71	15.49	115.78	99.32
6821	-7.76	-11.95	12.09	85.25	33.61	96.60	23.80	140.85	103.85	115.68	22.82	98.73	19.01	118.41	104.70
6822	-8.60	-11.64	12.09	83.40	35.43	97.84	26.56	138.38	110.58	109.41	21.58	95.53	22.68	120.62	110.72
6823	-0.49	-14.44	12.09	61.31	10.41	103.96	33.69	140.90	45.31	139.40	27.59	170.33	24.65	104.59	72.48
6824	-1.46	-14.39	12.09	67.90	11.99	102.08	31.58	143.63	50.28	137.88	25.87	164.40	21.94	105.96	72.10
6825	-2.42	-14.30	12.09	73.67	14.88	100.45	28.96	145.56	55.78	135.48	24.24	156.65	19.46	107.63	72.47
6826	-3.38	-14.15	12.09	78.21	18.16	99.23	26.29	146.88	61.71	132.17	22.82	147.67	17.59	109.75	73.80
6827	-4.32	-13.97	12.09	81.63	21.40	98.46	24.01	147.68	68.03	128.26	21.66	138.01	16.57	112.33	76.22
6828	-5.24	-13.74	12.09	83.83	24.40	98.18	22.52	148.00	74.72	123.83	20.77	128.28	16.49	113.34	79.78
6829	-6.15	-13.47	12.09	84.99	27.17	98.36	22.12	147.85	81.82	119.09	20.16	119.14	17.33	118.64	84.54
6830	-7.04	-13.15	12.09	85.21	29.74	98.91	22.84	147.09	89.35	114.17	19.78	111.13	18.95	121.89	90.41
6831	-7.91	-12.80	12.09	84.52	32.14	99.72	24.53	145.60	97.21	109.05	19.52	104.70	21.22	124.75	97.19
6832	-8.75	-12.41	12.09	82.96	34.41	100.69	26.90	143.32	105.26	103.71	19.29	100.22	23.97	126.92	104.64
6833	-0.50	-15.66	12.09	63.89	8.39	108.00	33.93	142.34	33.75	128.42	18.30	192.98	24.21	105.15	58.48
6834	-1.49	-15.60	12.09	69.56	10.49										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
6861	-9.27	-9.35	10.41	69.89	41.57	122.26	31.02	134.58	151.88	116.34	28.74	110.14	26.35	106.35	152.05
6862	-10.09	-9.32	10.41	68.34	43.45	125.67	33.26	131.71	155.04	107.31	26.77	112.59	29.30	110.78	155.09
6863	-10.92	-9.29	10.41	66.53	45.48	129.08	35.40	128.89	158.53	98.12	25.08	117.11	32.10	114.71	158.56
6864	-9.40	-10.06	10.41	72.01	41.53	125.10	30.40	138.30	146.91	112.19	27.15	113.51	25.27	112.37	147.07
6865	-10.12	-9.96	10.41	70.52	43.29	127.72	32.50	135.76	150.50	104.83	25.78	115.07	28.24	115.82	150.51
6866	-10.83	-9.86	10.41	68.84	45.18	130.35	34.57	133.14	154.28	97.52	24.71	118.31	31.07	118.75	154.24
6867	-9.52	-10.78	10.41	73.99	41.45	127.92	30.16	142.31	141.65	108.24	25.67	117.07	24.91	118.45	141.71
6868	-10.13	-10.60	10.41	72.63	43.10	129.77	31.98	139.96	145.70	102.55	24.83	117.69	27.57	120.88	145.64
6869	-10.74	-10.42	10.41	70.97	44.84	131.69	33.98	137.43	149.63	96.63	24.41	119.62	30.35	122.97	149.47
6870	-0.45	-9.64	10.41	55.20	18.95	106.88	20.84	149.32	104.66	205.61	46.33	153.35	31.71	103.24	115.79
6871	-1.34	-9.63	10.41	59.01	20.13	105.95	19.58	150.26	111.97	197.20	44.59	149.47	25.85	97.27	120.76
6872	-2.24	-9.62	10.41	62.91	22.44	105.56	18.30	150.41	118.83	188.68	43.09	144.19	20.06	92.48	125.67
6873	-3.13	-9.60	10.41	66.30	25.27	105.63	17.47	149.70	124.99	180.04	41.67	137.80	14.74	88.85	130.23
6874	-4.02	-9.58	10.41	68.51	28.24	106.43	17.58	148.73	130.47	170.85	40.32	131.11	10.87	87.30	134.39
6875	-4.90	-9.55	10.41	71.05	31.00	107.87	18.85	147.06	134.94	162.28	38.82	124.56	10.09	87.19	137.78
6876	-5.79	-9.52	10.41	71.61	33.69	109.93	20.85	145.04	138.80	152.83	37.35	118.74	12.24	88.90	140.77
6877	-6.67	-9.48	10.41	72.18	35.90	112.52	23.38	142.84	142.35	143.81	35.42	114.09	15.84	92.35	143.63
6878	-7.55	-9.44	10.41	71.98	37.92	115.55	26.04	140.26	145.54	134.72	33.33	110.99	19.61	96.68	146.30
6879	-8.42	-9.39	10.41	71.19	39.82	118.86	28.63	137.44	148.70	125.54	31.09	109.61	23.18	101.52	149.08
6880	-9.29	-9.32	10.41	69.99	41.69	122.26	31.02	134.58	151.88	116.34	28.74	110.14	26.35	106.35	152.05
6881	-1.40	-10.89	10.41	61.55	19.02	113.61	23.26	151.89	102.75	184.89	41.50	160.66	24.11	96.92	114.05
6882	-2.33	-10.85	10.41	65.40	21.61	112.71	21.61	152.46	109.13	177.23	40.11	154.48	17.82	94.06	117.91
6883	-3.25	-10.80	10.41	69.38	24.64	112.32	20.21	152.14	114.90	169.71	38.81	147.24	11.68	92.27	121.56
6884	-4.16	-10.73	10.41	71.48	27.95	112.58	19.61	151.32	120.31	161.36	37.75	139.59	6.69	92.06	125.23
6885	-5.06	-10.65	10.41	73.79	30.77	113.50	19.95	150.11	125.36	153.50	36.26	132.14	5.38	93.47	128.87
6886	-5.96	-10.55	10.41	74.48	33.30	115.07	21.24	148.30	129.88	145.03	34.60	125.44	8.88	95.97	132.27
6887	-6.85	-10.44	10.41	74.87	35.58	117.13	23.24	146.28	134.24	136.84	32.80	119.88	13.44	99.74	135.75
6888	-7.73	-10.32	10.41	74.45	37.69	119.62	25.60	143.81	138.54	128.53	30.91	115.88	17.83	103.96	139.39
6889	-8.60	-10.18	10.41	73.44	39.71	122.37	28.10	141.01	142.88	120.19	29.02	113.68	21.88	108.35	143.28
6890	-9.48	-12.20	10.41	59.14	16.16	123.03	28.19	151.30	85.91	178.04	39.74	178.50	27.46	98.70	103.15
6891	-1.45	-12.16	10.41	63.88	17.76	121.20	26.58	153.02	91.88	172.09	38.26	173.04	21.25	96.32	105.59
6892	-2.41	-12.10	10.41	67.88	20.52	119.84	24.82	154.04	97.84	165.53	36.92	166.01	15.11	95.33	108.47
6893	-3.35	-12.01	10.41	71.68	23.64	119.04	23.13	154.29	103.69	158.92	35.52	157.94	8.92	95.50	111.71
6894	-4.29	-11.90	10.41	74.10	26.72	118.80	22.02	153.86	109.25	151.73	34.05	149.33	2.96	96.80	115.10
6895	-5.21	-11.76	10.41	75.87	29.66	119.20	21.75	153.08	114.70	144.43	32.61	140.84	2.74	99.49	118.79
6896	-6.13	-11.60	10.41	76.82	32.44	120.23	22.37	151.74	120.18	137.08	31.18	133.04	7.93	102.97	122.88
6897	-7.03	-11.42	10.41	77.02	34.95	121.76	23.78	149.94	125.64	129.68	29.69	126.37	12.81	107.02	127.28
6898	-7.91	-11.21	10.41	76.52	37.28	123.68	25.75	147.67	131.14	122.26	28.21	121.25	17.34	111.24	132.00
6899	-8.78	-10.98	10.41	75.40	39.53	125.86	28.07	144.91	136.74	114.80	26.86	118.04	21.57	115.25	137.06
6900	-9.65	-10.74	10.41	74.13	41.80	128.10	30.37	151.85	141.10	114.01	25.42	116.04	23.17	96.66	139.66
6901	-1.49	-13.43	10.41	66.21	16.25	128.56	29.31	154.13	79.55	159.17	34.00	187.83	17.80	96.22	95.17
6902	-2.47	-13.35	10.41	70.32	18.98	126.84	27.53	155.62	85.24	153.83	32.52	179.90	12.69	97.02	97.34
6903	-3.45	-13.23	10.41	73.56	22.15	125.61	25.87	156.47	91.12	147.95	31.10	170.78	8.41	99.02	100.18
6904	-4.40	-13.07	10.41	76.14	25.43	124.95	24.60	156.72	97.22	141.83	29.79	161.04	6.18	102.03	103.73
6905	-5.35	-12.88	10.41	77.85	28.56	124.87	23.93	156.36	103.48	135.51	28.53	151.25	7.48	105.78	107.91
6906	-6.28	-12.66	10.41	78.74	31.49	125.35	24.05	155.48	109.89	129.06	27.36	142.00	10.83	110.06	112.68
6907	-7.19	-12.40	10.41	78.91	34.26	126.33	24.94	154.02	116.49	122.58	26.35	133.85	14.67	114.49	118.05
6908	-8.08	-12.11	10.41	78.40	36.88	127.70	26.48	151.97	123.26	116.09	25.51	127.30	18.58	118.73	123.93
6909	-8.95	-11.79	10.41	77.25	39.40	129.35	28.50	149.30	130.11	109.55	24.83	122.81	22.44	122.44	130.20
6910	-9.81	-11.46	10.41	74.48	42.63	137.83	33.34	152.79	140.50	150.28	29.30	124.02	19.52	95.88	81.92
6911	-1.53	-14.70	10.41	68.82	14.63	135.53	31.83	155.61	65.47	146.52	28.02	206.91	16.22	97.27	82.63
6912	-2.53	-14.60	10.41	72.63	17.54	133.55	30.16	157.73	71.10	142.16	26.71	197.84	13.85	99.89	84.33
6913	-3.53	-14.45	10.41	75.76	20.83	131.98	28.55	159.17	77.29	137.34	25.51	187.31	12.72	103.50	87.04
6914	-4.51	-14.25	10.41	78.11	24.18	130.91	27.21	159.99	83.96	132.16	24.50	175.90	12.93	107.85	90.75
6915	-5.47	-14.01	10.41	79.71	27.49	130.38	26.36	160.21	91.10	126.78	23.78	164.25	14.22	112.67	95.47
6916	-6.41	-13.72	10.41	80.58	30.69	130.38	26.12	159.79	98.64	121.30	23.38	153.01	16.22	117.63	101.12
6917	-7.34	-13.39	10.41	80.75	33.74	130.86	26.57	158.70	106.52	115.80	23.23	142.83	18.68	122.39	107.60
6918	-8.24	-13.01	10.41	80.25	36.66	131.72	27.67	156.88	114.65	110.26	23.28	134.36	21.47	126.63	114.77
6919	-9.11	-12.60	10.41	79.12	39.43	132.87	29.33	154.29	122.92	104.69	23.45	128.20	24.49	130.04	122.46
6920	-10.02	-12.24	10.41	77.65	42.24	134.12	31.04	152.45	131.23	97.23	23.63	124.64	26.61	96.72	69.50
6921	-1.55	-15.98	10.41	71.71	13.23	142.10	34.48	157.68	49.85	134.43	19.78	232.37	20.13	99.85	69.16
6922	-2.58	-15.86	10.41	75.24	16.39	139.94	32.88	160.45	55.37	131.05	19.13	221.71	20.21	104.11	70.09
6923	-3.59	-15.68	10.41	78.12	19.85	138.12	31.32	162.56	61.91	127.19	18.85	209.20	20.65	109.17	72.40
6924	-4.59	-15.44	10.41	80.32	23.38	136.73	29.97	164.02	69.31	123.01	18.99	195.45	21.30	114.71	76.14
6925	-5.58	-15.14	10.41	81.83	26.88	135.82	28.98	164.80	77.44	118.63	19.53	181.17	22.09	120.41	81.30
6926	-6.54	-14.79	10.41	82.65	30.28	135.40	28.47	164.87	86.20	114.16	20.38	167.12	23.02	125.94	87.80
6927	-7.47	-14.38	10.41	82.82	33.57	135.42	28.53	164.13	95.46	109.66	21.38	154.12	24.18	130.94	95.47
6928	-8.38	-13.92	10.41	82.32	36.72	135.81	29.20	162.50	105.09	105.12	22.40	142.99	25.67	135.10	104.11
6929	-9.26	-13.41	10.41	81.34	39.70	136.48	30.44	159.93	114.94	100.45	23.29	134.53	27.54	138.17	113.46
6930	-13.33	-9.40	10.41	61.90	53.11	139.91	42.42	124.79	169.61	71.39	24.83	144.80	41.36	125.98	169.76
6931	-12.79	-10.19	10.41	66.22	51.36	139.75	40.54	132.46	161.26	76.28	24.89				



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
6959	-2.32	-9.65	8.72	61.39	25.46	128.74	20.03	165.11	137.51	203.21	45.41	172.37	24.64	81.21	141.66
6960	-3.25	-9.63	8.72	62.97	27.72	129.70	19.75	164.61	142.98	191.84	43.62	166.01	19.33	78.33	146.11
6961	-4.17	-9.61	8.72	64.40	30.18	131.43	20.04	163.41	147.99	180.86	41.82	159.18	15.16	77.69	150.27
6962	-5.09	-9.58	8.72	65.29	32.68	133.92	20.96	161.67	152.59	170.03	40.01	152.36	12.87	79.38	154.18
6963	-6.00	-9.54	8.72	66.05	35.11	137.09	22.46	159.41	156.78	159.63	38.10	146.04	13.03	83.04	157.81
6964	-6.91	-9.50	8.72	66.30	37.51	140.87	24.38	156.67	160.62	149.39	36.21	140.71	15.14	88.14	161.20
6965	-7.82	-9.46	8.72	66.26	39.84	145.10	26.55	153.55	164.26	139.37	34.30	136.84	18.26	94.18	164.48
6966	-8.73	-9.41	8.72	65.90	42.19	149.69	28.87	150.08	167.77	129.47	32.49	134.88	21.75	100.58	167.74
6967	-0.49	-11.02	8.72	59.72	21.27	140.55	25.27	165.03	116.46	210.20	45.84	196.64	34.96	91.16	125.59
6968	-1.46	-10.99	8.72	62.01	22.70	139.43	24.18	166.31	122.29	199.84	44.30	191.57	28.03	86.05	129.41
6969	-2.42	-10.95	8.72	64.30	24.81	138.99	23.20	166.77	127.95	189.71	42.71	185.08	21.52	83.09	133.41
6970	-3.38	-10.89	8.72	66.15	27.33	139.30	22.52	166.52	133.42	179.66	41.09	177.65	15.65	82.33	137.52
6971	-4.32	-10.82	8.72	67.82	29.95	140.36	22.33	165.60	138.62	169.92	39.39	169.72	10.90	83.62	141.59
6972	-5.26	-10.73	8.72	68.82	32.62	142.16	22.73	164.06	143.55	160.26	37.71	161.80	8.54	86.68	145.60
6973	-6.19	-10.63	8.72	69.55	35.23	144.62	23.74	162.02	148.29	150.92	36.00	154.41	9.73	91.20	149.61
6974	-7.11	-10.52	8.72	69.72	37.76	147.66	25.24	159.44	152.88	141.70	34.31	148.04	13.08	96.59	153.61
6975	-8.03	-10.39	8.72	69.53	40.22	151.14	27.11	156.44	157.37	132.67	32.68	143.18	17.09	102.44	157.66
6976	-8.93	-10.24	8.72	68.96	42.68	154.94	29.25	153.02	161.83	123.76	31.21	140.35	21.20	108.28	161.81
6977	-0.51	-12.37	8.72	61.96	19.82	152.27	28.82	165.84	105.52	193.37	42.09	213.52	30.55	88.90	116.99
6978	-1.51	-12.33	8.72	64.72	21.46	150.68	27.63	167.50	111.01	184.72	40.80	207.52	23.56	86.06	120.01
6979	-2.51	-12.26	8.72	67.31	23.80	149.68	26.47	168.36	116.54	176.11	39.37	199.97	16.92	85.41	123.47
6980	-3.49	-12.17	8.72	69.40	26.53	149.34	25.53	168.48	122.07	167.48	37.89	191.33	10.75	86.78	127.26
6981	-4.46	-12.05	8.72	71.11	29.43	149.71	24.97	167.93	127.60	158.96	36.39	182.12	5.44	89.87	131.35
6982	-5.42	-11.90	8.72	72.25	32.32	150.76	24.93	166.73	133.11	150.55	34.89	172.86	3.94	94.22	135.67
6983	-6.37	-11.74	8.72	72.89	35.13	152.44	25.45	164.96	138.59	142.27	33.42	164.08	7.85	99.47	140.21
6984	-7.30	-11.54	8.72	73.03	37.86	154.67	26.52	162.63	144.08	134.13	32.06	156.35	12.54	105.14	144.96
6985	-8.22	-11.33	8.72	72.70	40.52	157.33	28.06	159.77	149.59	126.10	30.85	150.21	17.15	110.81	149.92
6986	-9.12	-11.08	8.72	71.93	43.14	160.30	29.95	156.39	155.15	118.17	29.88	146.22	21.60	116.11	155.09
6987	-0.52	-13.72	8.72	64.74	18.01	164.13	32.24	166.59	92.36	176.88	37.36	233.63	24.29	87.27	106.40
6988	-1.56	-13.67	8.72	67.78	19.87	162.14	31.01	168.70	97.51	169.91	36.27	226.62	17.81	86.79	108.62
6989	-2.58	-13.58	8.72	70.47	22.49	160.63	29.77	170.04	102.99	162.77	35.04	217.83	11.72	88.46	111.59
6990	-3.59	-13.45	8.72	72.73	25.49	159.67	28.66	170.63	108.76	155.55	33.76	207.76	6.12	91.87	115.20
6991	-4.59	-13.29	8.72	74.43	28.62	159.31	27.84	170.52	114.77	148.29	32.49	196.94	2.27	96.56	119.39
6992	-5.57	-13.09	8.72	75.59	31.78	159.58	27.45	169.75	121.01	141.06	31.33	185.94	5.41	102.08	124.13
6993	-6.53	-12.85	8.72	76.20	34.89	160.43	27.56	168.34	127.46	133.90	30.33	175.37	10.02	107.99	129.37
6994	-7.47	-12.58	8.72	76.28	37.91	161.81	28.20	166.29	134.06	126.82	29.53	165.85	14.53	113.88	135.04
6995	-8.40	-12.27	8.72	75.85	40.83	163.61	29.35	163.61	140.79	119.82	28.95	158.02	18.88	119.39	141.10
6996	-9.30	-11.93	8.72	74.94	43.67	165.73	30.94	160.28	147.57	112.87	28.58	152.53	23.09	124.21	147.43
6997	-0.53	-15.07	8.72	67.99	15.95	175.85	35.61	167.40	76.66	161.28	31.10	258.13	17.97	86.69	94.03
6998	-1.59	-15.01	8.72	71.14	18.10	173.54	34.36	170.03	81.47	155.83	30.23	249.98	13.43	88.59	95.41
6999	-2.64	-14.90	8.72	73.89	21.01	171.56	33.07	171.92	86.99	150.09	29.29	239.70	10.18	92.45	97.83
7000	-3.68	-14.74	8.72	76.13	24.32	170.01	31.87	173.07	93.14	144.16	28.41	227.82	9.03	97.73	101.24
7001	-4.69	-14.53	8.72	77.84	27.79	168.97	30.87	173.50	99.87	138.13	27.69	214.94	10.14	103.87	105.61
7002	-5.70	-14.28	8.72	78.98	31.27	168.46	30.19	173.23	107.08	132.07	27.20	201.68	12.62	110.39	110.86
7003	-6.68	-13.97	8.72	79.56	34.70	168.48	29.94	172.23	114.71	126.03	26.98	188.75	15.66	116.87	116.91
7004	-7.63	-13.62	8.72	79.58	38.02	169.00	30.17	170.51	122.65	120.03	27.01	176.87	18.92	122.94	123.68
7005	-8.56	-13.23	8.72	79.07	41.22	169.94	30.90	168.02	130.84	114.06	27.25	166.84	22.27	128.28	131.02
7006	-9.47	-12.79	8.72	78.03	44.28	171.21	32.13	164.76	139.14	108.11	27.65	159.40	25.70	132.62	138.81
7007	-0.54	-16.43	8.72	71.60	13.96	187.08	39.08	168.27	58.79	146.99	23.25	288.11	17.62	87.36	81.67
7008	-1.62	-16.36	8.72	74.79	16.45	184.55	37.82	171.52	63.13	142.84	22.73	278.67	17.09	91.56	81.87
7009	-2.69	-16.23	8.72	77.53	19.72	182.21	36.49	174.05	68.71	138.37	22.37	266.62	17.52	97.45	83.39
7010	-3.74	-16.04	8.72	79.75	23.35	180.16	35.19	175.86	75.38	133.67	22.29	252.53	18.59	104.39	86.29
7011	-4.78	-15.79	8.72	81.42	27.13	178.49	34.03	176.92	82.98	128.81	22.57	237.04	19.98	111.80	90.56
7012	-5.80	-15.47	8.72	82.53	30.93	177.27	33.11	177.21	91.37	123.90	23.19	220.89	21.54	119.20	96.16
7013	-6.80	-15.10	8.72	83.08	34.66	176.51	32.52	176.69	100.38	118.97	24.10	204.89	23.22	126.17	102.99
7014	-7.78	-14.67	8.72	83.05	38.28	176.21	32.35	175.32	109.89	114.04	25.18	189.95	25.03	132.37	110.90
7015	-8.72	-14.19	8.72	82.43	41.73	176.30	32.64	173.04	119.75	109.09	26.34	177.01	27.04	137.50	119.69
7016	-9.63	-13.65	8.72	81.22	44.99	176.74	33.45	169.82	129.79	104.04	27.45	167.04	29.28	141.36	129.13
7017	-13.81	-9.42	8.72	62.27	58.56	179.49	44.07	131.87	186.31	73.64	30.72	179.78	43.70	131.50	186.43
7018	-13.27	-10.25	8.72	66.64	57.00	179.42	42.19	139.93	177.53	78.73	30.58	171.64	41.57	136.51	177.42
7019	-12.67	-11.05	8.72	70.89	55.27	179.27	40.36	147.80	168.47	84.00	30.33	165.03	39.44	140.89	168.04
7020	-12.98	-9.37	8.72	62.26	55.10	174.22	41.27	133.49	183.15	81.55	28.96	164.92	39.74	127.24	183.14
7021	-12.60	-10.08	8.72	66.05	54.22	174.78	39.95	140.21	176.34	84.93	29.11	161.26	38.15	131.65	176.16
7022	-12.18	-10.78	8.72	69.69	53.11	175.30	38.57	146.61	169.01	88.40	29.14	158.42	36.49	135.49	168.65
7023	-12.15	-9.31	8.72	62.66	52.10	169.08	38.63	135.93	180.39	90.52	28.26	152.99	35.98	122.71	180.27
7024	-11.93	-9.92	8.72	65.73	51.71	170.26	37.81	140.98	175.11	91.87	28.50	152.61	34.94	126.61	174.87
7025	-11.70	-10.52	8.72	68.70	51.20	171.38	36.89	145.94	169.41	93.65	28.65	152.60	33.79	130.10	169.06
7026	-10.47	-13.07	8.72	79.61	47.98	177.37	34.74	165.68	139.63	99.29	28.58	160.88	31.73	143.60	138.65
7027	-10.27	-12.33	8.72	76.68	46.97	172.52	33.63	161.01	146.91	102.84	28.26	155.32	28.85	135.43	146.28
7028	-10.06	-11.61	8.72	73.81	46.09	167.74	32.61	156.91	153.46	106.92	28.57	150.05	26.62	127.64	153.06
7029	-11.26	-12.45	8.72	77.27	50.67	178.02	36.41	160.63	149.34	94.38	29.33	158.70	34.34	144.24	148.40
7030															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
7057	-3.50	-10.99	7.03	65.79	31.11	167.44	24.90	183.61	152.01	186.72	42.58	208.57	19.61	74.89	154.15
7058	-4.49	-10.91	7.03	66.71	33.52	169.47	24.84	182.20	156.93	175.98	40.94	200.20	14.62	77.60	158.34
7059	-5.46	-10.82	7.03	67.43	36.00	172.34	25.24	180.09	161.69	165.78	39.31	191.73	11.54	82.24	162.50
7060	-6.42	-10.71	7.03	67.84	38.52	175.96	26.10	177.34	166.30	155.98	37.74	183.67	11.32	88.23	166.62
7061	-7.38	-10.59	7.03	68.00	41.05	180.21	27.40	174.01	170.79	146.52	36.29	176.59	13.69	95.04	170.71
7062	-8.32	-10.46	7.03	67.86	43.60	184.98	29.06	170.16	175.18	137.26	35.00	171.10	17.38	102.17	174.79
7063	-9.25	-10.31	7.03	67.46	46.17	190.12	31.01	165.85	179.49	128.13	33.95	167.90	21.55	109.19	178.90
7064	-10.17	-10.15	7.03	66.48	48.74	195.78	33.24	160.78	183.84	119.06	32.92	165.61	25.82	116.24	183.01
7065	-11.07	-10.00	7.03	65.48	51.32	201.92	35.66	155.84	188.64	110.14	31.96	163.28	30.08	123.27	187.08
7066	-11.95	-9.85	7.03	64.46	53.91	208.52	38.25	150.98	193.96	101.24	31.03	160.92	34.23	130.28	191.14
7067	-12.81	-9.70	7.03	63.43	56.50	215.76	40.99	146.19	199.73	92.34	30.13	158.54	38.37	137.14	195.19
7068	-13.65	-9.55	7.03	62.39	59.09	223.45	43.87	141.47	206.04	83.44	29.26	156.11	42.40	143.86	199.14
7069	-14.47	-9.40	7.03	61.34	61.68	231.58	46.88	136.82	212.89	74.54	28.41	153.64	46.33	150.33	203.08
7070	-15.27	-9.25	7.03	60.28	64.27	240.15	49.99	132.18	220.26	65.64	27.57	151.13	50.16	157.22	206.99
7071	-16.05	-9.10	7.03	59.21	66.86	249.16	53.19	127.57	228.16	56.74	26.72	148.58	53.90	164.06	210.87
7072	-16.81	-8.95	7.03	58.13	69.45	258.52	56.56	123.00	236.57	47.84	25.88	146.00	57.53	170.81	214.72
7073	-17.55	-8.80	7.03	57.04	72.04	268.23	60.00	118.47	245.50	38.94	25.03	143.44	61.06	177.41	218.44
7074	-18.27	-8.65	7.03	55.94	74.63	278.30	63.59	114.00	254.95	30.04	24.18	140.90	64.50	183.81	222.03
7075	-18.97	-8.50	7.03	54.83	77.22	288.73	67.31	109.57	264.92	21.14	23.33	138.38	67.83	189.99	225.56
7076	-19.65	-8.35	7.03	53.71	79.80	299.52	71.14	105.18	275.40	12.24	22.48	135.86	71.06	196.14	229.02
7077	-20.31	-8.20	7.03	52.58	82.37	310.66	75.05	100.83	286.48	3.29	21.63	133.34	74.19	202.25	232.44
7078	-20.95	-8.05	7.03	51.44	84.94	322.15	79.00	96.52	298.16	-5.70	20.78	130.80	77.22	208.44	235.74
7079	-21.57	-7.90	7.03	50.29	87.50	333.98	83.07	92.16	310.54	-12.74	19.93	128.26	80.16	214.61	238.94
7080	-22.17	-7.75	7.03	49.13	90.05	346.15	87.17	87.79	323.62	-19.74	19.08	125.70	82.99	220.76	242.04
7081	-22.75	-7.60	7.03	47.96	92.59	358.66	91.38	83.40	337.39	-26.74	18.23	123.14	85.77	226.81	245.04
7082	-23.31	-7.45	7.03	46.78	95.12	371.50	95.59	79.01	351.76	-33.74	17.38	120.58	88.50	232.81	247.94
7083	-23.85	-7.30	7.03	45.59	97.64	384.73	100.00	74.62	366.82	-40.74	16.53	118.02	91.19	238.76	250.74
7084	-24.37	-7.15	7.03	44.39	100.15	398.37	104.60	70.23	382.56	-47.74	15.68	115.46	93.78	244.57	253.44
7085	-24.87	-7.00	7.03	43.18	102.64	412.41	109.37	65.84	398.96	-54.74	14.83	112.90	96.27	250.28	256.04
7086	-25.35	-6.85	7.03	41.96	105.12	426.86	114.30	61.45	416.08	-61.74	13.98	110.34	98.67	255.97	258.54
7087	-25.81	-6.70	7.03	40.73	107.59	441.70	119.39	57.06	433.92	-68.74	13.13	107.78	100.97	261.76	261.04
7088	-26.25	-6.55	7.03	39.49	110.04	456.93	124.58	52.67	452.50	-75.74	12.28	105.22	103.27	267.54	263.44
7089	-26.67	-6.40	7.03	38.24	112.47	472.51	130.06	48.28	471.72	-82.74	11.43	102.70	105.57	273.31	265.74
7090	-27.07	-6.25	7.03	36.98	114.88	488.42	135.73	43.89	491.58	-89.74	10.58	100.18	107.81	279.06	267.94
7091	-27.45	-6.10	7.03	35.71	117.27	504.63	141.57	39.50	512.08	-96.74	9.73	97.66	109.81	284.76	270.14
7092	-27.81	-5.95	7.03	34.43	119.64	521.04	147.47	35.11	533.32	-103.74	8.88	95.14	111.76	290.41	272.24
7093	-28.15	-5.80	7.03	33.14	121.99	537.65	153.47	30.72	555.30	-110.74	8.03	92.62	113.57	296.01	274.24
7094	-28.47	-5.65	7.03	31.84	124.32	553.46	159.66	26.33	578.02	-117.74	7.18	90.10	115.34	301.57	276.14
7095	-28.77	-5.50	7.03	30.53	126.63	569.76	166.07	21.94	601.48	-124.74	6.33	87.58	117.07	307.00	277.94
7096	-29.05	-5.35	7.03	29.21	128.92	586.55	172.69	17.55	625.68	-131.74	5.48	85.06	118.76	312.41	279.64
7097	-29.31	-5.20	7.03	27.88	131.19	603.83	179.50	13.16	650.62	-138.74	4.63	82.54	120.41	317.76	281.14
7098	-29.55	-5.05	7.03	26.54	133.44	621.50	186.50	8.77	676.30	-145.74	3.78	80.02	122.02	323.00	282.54
7099	-29.77	-4.90	7.03	25.19	135.67	639.65	193.61	4.40	702.72	-152.74	2.93	77.50	123.50	328.14	283.84
7100	-30.00	-4.75	7.03	23.83	137.88	658.17	200.93	0.03	730.00	-159.74	2.08	75.00	124.94	333.14	285.04
7101	-30.20	-4.60	7.03	22.46	140.07	677.04	208.46	-4.36	758.14	-166.74	1.23	72.50	126.34	338.00	286.14
7102	-30.38	-4.45	7.03	21.08	142.24	696.26	216.20	-8.60	787.14	-173.74	0.38	70.00	127.70	342.76	287.14
7103	-30.53	-4.30	7.03	19.69	144.39	715.83	224.15	-12.74	817.00	-180.74	-0.47	67.50	129.02	347.31	288.04
7104	-30.65	-4.15	7.03	18.29	146.52	735.76	232.31	-16.74	847.72	-187.74	-1.12	65.00	130.30	351.76	288.84
7105	-30.75	-4.00	7.03	16.88	148.63	756.04	240.68	-20.60	879.30	-194.74	-1.77	62.50	131.54	356.00	289.54
7106	-30.83	-3.85	7.03	15.46	150.72	776.77	248.86	-24.33	911.74	-201.74	-2.42	60.00	132.74	360.14	290.14
7107	-30.89	-3.70	7.03	14.03	152.79	798.85	257.25	-27.94	945.04	-208.74	-3.07	57.50	133.90	364.14	290.64
7108	-30.92	-3.55	7.03	12.59	154.84	821.29	265.98	-31.41	979.28	-215.74	-3.72	55.00	135.02	368.00	291.04
7109	-30.93	-3.40	7.03	11.14	156.87	844.10	274.93	-34.74	1014.46	-222.74	-4.37	52.50	136.10	371.76	291.34
7110	-30.92	-3.25	7.03	9.68	158.88	867.28	284.40	-38.00	1050.58	-229.74	-5.02	50.00	137.14	375.31	291.54
7111	-30.89	-3.10	7.03	8.21	160.87	890.83	294.19	-41.19	1087.64	-236.74	-5.67	47.50	138.14	378.76	291.64
7112	-30.83	-2.95	7.03	6.73	162.84	914.74	304.29	-44.33	1125.64	-243.74	-6.32	45.00	139.10	382.00	291.64
7113	-30.75	-2.80	7.03	5.24	164.79	939.01	314.69	-47.43	1164.58	-250.74	-6.97	42.50	140.02	385.14	291.54
7114	-30.65	-2.65	7.03	3.74	166.72	963.65	325.39	-50.49	1204.46	-257.74	-7.62	40.00	140.90	388.14	291.34
7115	-30.53	-2.50	7.03	2.23	168.63	993.56	336.39	-53.50	1245.28	-264.74	-8.27	37.50	141.74	391.00	291.04
7116	-30.38	-2.35	7.03	0.71	170.52	1024.33	347.68	-56.47	1287.04	-271.74	-8.92	35.00	142.54	393.76	290.64
7117	-30.20	-2.20	7.03	-0.81	172.39	1055.94	359.26	-59.30	1329.74	-278.74	-9.57	32.50	143.30	396.31	290.14
7118	-30.00	-2.05	7.03	-2.30	174.24	1088.40	371.13	-62.00	1373.38	-285.74	-10.22	30.00	144.02	398.76	289.54
7119	-29.77	-1.90	7.03	-3.78	176.07	1121.71	383.28	-64.57	1417.96	-292.74	-10.87	27.50	144.70	401.00	288.84
7120	-29.51	-1.75	7.03	-5.24	177.88	1155.90	395.70	-67.00	1463.46	-299.74	-11.52	25.00	145.34	403.14	287.94
7121	-29.22	-1.60	7.03	-6.68	179.67	1191.07	408.39	-69.29	1509.88	-306.74	-12.17	22.50	145.94	405.14	286.94
7122	-28.91	-1.45	7.03	-8.10	181.44	1227.22	421.33	-71.44	1557.14	-313.74	-12.82	20.00	146.50	407.00	285.84
7123	-28.57	-1.30	7.03	-9.50	183.19	1263.65	434.53	-73.46	1605.24	-320.74	-13.47	17.50	147.02	408.76	284.64
7124	-28.20	-1.15	7.03	-10.88	184.92	1301.26	447.98	-75.35	1654.18	-327.74	-14.12	15.00	147.50	410.31	283.34
7125	-27.81	-1.00	7.03	-12.24	186.63	1339.97	461.67	-77.11	1703.96	-334.74	-14.77	12.50	147.94	411.76	281.94
7126	-27.40	-0.85	7.03	-13.58	188.32	1379.74	475.60	-78.74	1754.58	-341.74	-15.42	10.00	148.34	413.00	280.44
7127	-26.97	-0.70	7.03	-14.90	189.99	1421.59	489.67	-80.24	1806.04	-348					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
7155	-4.81	-12.35	5.34	71.40	38.51	216.93	30.58	200.33	163.71	166.44	41.36	248.15	12.11	81.28	164.40
7156	-5.84	-12.19	5.34	72.06	41.01	219.90	30.63	197.81	168.77	157.92	40.28	237.57	9.39	88.55	168.88
7157	-6.86	-12.01	5.34	72.43	43.57	223.63	31.07	194.54	173.87	149.79	39.32	227.35	10.42	96.47	173.48
7158	-7.85	-11.79	5.34	72.50	46.14	228.02	31.89	190.59	178.96	141.90	38.53	218.21	14.05	104.57	178.20
7159	-8.83	-11.55	5.34	72.24	48.72	232.94	33.08	186.02	184.03	134.11	37.92	210.93	18.62	112.48	183.00
7160	-9.79	-11.29	5.34	71.66	51.30	238.23	34.61	180.87	189.08	126.30	37.57	206.41	23.46	119.85	187.90
7161	-10.56	-11.21	5.34	70.42	29.23	237.62	38.02	201.19	130.34	189.83	42.04	312.65	30.80	68.93	137.01
7162	-1.69	-14.15	5.34	72.30	30.90	236.35	36.92	202.69	134.80	180.61	41.54	304.42	23.01	70.68	139.92
7163	-2.79	-14.05	5.34	73.94	33.08	235.77	35.91	203.20	139.65	172.04	40.85	294.27	15.89	75.39	143.44
7164	-3.88	-13.90	5.34	75.29	35.61	235.93	35.05	202.78	144.86	164.00	40.07	282.70	9.47	82.13	147.48
7165	-4.95	-13.72	5.34	76.32	38.34	236.84	34.41	201.46	150.37	156.40	39.28	270.22	4.52	90.08	151.98
7166	-6.01	-13.50	5.34	76.98	41.18	238.46	34.04	199.32	156.14	149.12	38.56	257.44	5.37	98.57	156.90
7167	-7.04	-13.24	5.34	77.27	44.05	240.71	34.01	196.39	162.11	142.06	37.96	245.04	10.16	107.10	162.18
7168	-8.05	-12.93	5.34	77.17	46.91	243.51	34.36	192.72	168.23	135.11	37.54	233.77	15.33	115.28	167.76
7169	-9.04	-12.60	5.34	76.68	49.73	246.73	35.10	188.34	174.43	128.17	37.30	224.52	20.43	122.79	173.61
7170	-10.00	-12.22	5.34	75.79	52.49	250.26	36.24	183.27	180.62	121.15	37.26	218.21	25.41	129.39	179.63
7171	-0.58	-15.70	5.34	74.73	26.36	263.15	42.51	200.79	112.50	174.06	36.71	347.27	20.32	68.25	123.46
7172	-1.72	-15.63	5.34	76.98	28.35	261.43	41.39	202.78	116.76	166.92	36.52	337.59	13.56	73.40	125.57
7173	-2.86	-15.51	5.34	78.86	30.97	260.08	40.27	203.80	121.76	160.11	36.22	325.52	7.50	81.07	128.61
7174	-3.97	-15.33	5.34	80.35	33.99	259.16	39.21	203.90	127.45	153.57	35.89	311.61	3.12	90.11	132.54
7175	-5.07	-15.10	5.34	81.42	37.25	258.71	38.27	203.08	133.75	147.25	35.63	296.51	5.40	99.68	137.27
7176	-6.15	-14.81	5.34	82.04	40.61	258.75	37.54	201.40	140.55	141.08	35.49	280.92	10.16	109.17	142.76
7177	-7.20	-14.48	5.34	82.21	43.97	259.24	37.07	198.86	147.78	134.99	35.52	265.62	14.96	118.14	148.91
7178	-8.23	-14.09	5.34	81.92	47.28	260.14	36.94	195.48	155.31	128.91	35.73	251.52	19.62	126.28	155.63
7179	-9.22	-13.65	5.34	81.17	50.47	261.38	37.21	191.29	163.04	122.77	36.10	239.59	24.16	133.32	162.82
7180	-10.19	-13.17	5.34	79.97	53.50	262.86	37.91	186.29	170.85	116.54	36.61	230.84	28.58	139.08	170.35
7181	-0.58	-17.20	5.34	79.49	22.43	289.34	46.73	200.23	89.88	160.74	29.84	386.47	13.44	68.94	108.87
7182	-1.75	-17.12	5.34	81.97	24.80	287.31	45.61	202.81	93.95	155.24	29.89	375.32	11.55	77.52	109.91
7183	-2.90	-16.98	5.34	84.00	27.98	285.25	44.41	204.47	99.29	149.85	30.00	361.14	11.98	87.90	112.26
7184	-4.04	-16.77	5.34	85.54	31.65	283.25	43.20	205.20	105.79	144.54	30.26	344.60	14.03	98.94	115.92
7185	-5.16	-16.49	5.34	86.60	35.56	281.41	42.05	205.00	113.30	139.29	30.74	326.43	16.84	109.87	120.83
7186	-6.26	-16.14	5.34	87.14	39.56	279.76	41.01	203.86	121.63	134.07	31.44	307.46	19.93	120.17	126.91
7187	-7.34	-15.73	5.34	87.18	43.52	278.36	40.17	201.78	130.60	128.85	32.35	288.63	23.12	129.44	134.06
7188	-8.38	-15.25	5.34	86.69	47.36	277.20	39.61	198.74	140.04	123.57	33.42	271.01	26.33	137.43	142.11
7189	-9.39	-14.72	5.34	85.68	51.00	276.27	39.41	194.75	149.78	118.19	34.60	255.72	29.57	143.92	150.89
7190	-10.36	-14.12	5.34	84.11	54.38	275.57	39.64	189.82	159.64	112.60	35.80	243.92	32.84	148.80	160.18
7191	-11.78	-13.54	5.34	83.65	58.35	269.74	48.38	144.58	214.66	78.59	40.94	259.13	49.40	141.57	215.07
7192	-14.22	-10.38	5.34	68.37	65.41	271.10	46.56	153.45	206.17	84.30	40.48	249.21	47.24	146.30	206.56
7193	-13.60	-11.25	5.34	72.85	64.16	272.61	44.88	162.14	197.29	90.11	39.84	241.43	45.03	150.30	197.61
7194	-13.89	-9.40	5.34	63.08	62.69	260.92	45.27	149.44	213.59	87.63	38.97	236.44	44.61	137.53	213.30
7195	-13.50	-10.19	5.34	67.19	62.36	263.15	44.08	156.35	206.69	91.30	38.98	232.82	43.04	141.49	206.37
7196	-13.07	-10.96	5.34	71.16	61.69	265.47	42.89	163.05	199.27	95.10	38.79	230.28	41.36	144.91	198.95
7197	-13.01	-9.34	5.34	62.85	59.39	251.56	42.33	154.69	212.32	97.57	37.58	216.89	39.89	132.00	211.62
7198	-12.78	-10.01	5.34	66.26	59.54	254.75	41.73	159.47	206.81	98.94	37.94	218.10	39.00	135.66	206.06
7199	-12.54	-10.67	5.34	69.60	59.49	257.92	41.04	164.33	200.86	100.86	38.13	219.72	37.92	138.92	200.12
7200	-11.26	-13.48	5.34	82.23	57.42	274.95	40.39	184.06	169.26	107.31	37.13	236.62	36.10	151.75	169.45
7201	-11.04	-12.67	5.34	78.51	56.16	264.19	38.94	180.98	178.18	110.94	37.36	226.15	32.50	142.93	177.52
7202	-10.80	-11.87	5.34	74.73	54.86	253.41	37.54	178.38	185.98	115.02	37.52	215.66	29.62	134.16	184.92
7203	-12.10	-12.79	5.34	79.65	60.05	274.24	41.60	177.52	178.71	101.78	38.11	233.97	39.28	152.93	178.86
7204	-11.78	-12.16	5.34	76.55	58.33	265.14	40.16	175.51	185.10	105.51	37.86	225.02	35.85	145.14	184.51
7205	-11.46	-11.53	5.34	73.51	56.74	255.92	38.75	173.94	190.69	109.72	37.74	215.89	32.89	137.32	189.72
7206	-12.89	-12.06	5.34	76.65	62.42	273.61	43.11	170.27	187.99	96.12	39.13	236.03	42.27	152.51	188.21
7207	-12.49	-11.61	5.34	74.24	60.44	266.11	41.51	169.51	191.93	99.97	38.49	227.29	38.95	146.16	191.51
7208	-12.10	-11.18	5.34	71.98	58.45	258.36	40.07	169.14	195.51	104.27	37.80	218.50	36.01	139.70	194.73
7209	7.92	-9.28	17.16	139.10	101.08	15.81	35.94	32.22	11.10	154.79	108.11	15.90	46.84	45.44	25.43
7210	8.63	-9.25	17.16	105.17	82.05	15.10	34.27	24.48	10.79	116.02	88.21	15.37	40.88	38.91	25.43
7211	9.33	-9.23	17.16	78.99	65.90	14.82	31.20	19.40	11.26	84.90	71.47	15.26	33.87	33.70	26.40
7212	8.01	-9.84	17.16	118.26	86.83	15.82	24.46	29.42	10.57	131.63	91.02	15.78	36.21	41.03	25.39
7213	8.63	-9.76	17.16	93.84	72.83	15.32	25.91	23.91	11.07	103.45	76.34	15.38	32.66	36.58	25.71
7214	9.24	-9.67	17.16	73.75	60.29	15.06	26.04	19.96	11.89	79.40	63.22	15.25	28.62	32.80	26.33
7215	8.10	-10.40	17.16	97.37	72.03	15.81	17.00	27.11	10.91	109.01	73.53	15.70	28.60	37.32	25.28
7216	8.62	-10.26	17.16	81.37	62.93	15.47	19.71	23.47	11.68	90.02	64.06	15.40	26.17	34.61	25.67
7217	9.14	-10.12	17.16	67.18	53.68	15.27	21.50	20.60	12.73	72.74	54.19	15.29	23.57	32.00	26.50
7218	0.38	-9.50	17.16	41.55	13.43	21.28	51.37	344.98	26.14	57.64	34.81	52.46	51.41	340.72	68.47
7219	1.15	-9.49	17.16	103.74	41.02	31.91	5.55	362.99	70.36	109.33	40.84	71.36	11.18	364.31	111.96
7220	1.91	-9.48	17.16	28.01	41.84	33.25	27.87	394.84	112.50	46.85	52.28	83.33	28.35	397.04	157.17
7221	2.67	-9.47	17.16	65.06	64.97	53.33	27.88	415.79	165.58	78.93	76.09	95.82	29.73	421.00	205.48
7222	3.43	-9.45	17.16	114.29	101.82	90.52	17.17	435.58	237.91	127.77	114.32	130.16	24.82	444.02	276.86
7223	4.19	-9.43	17.16	616.15	143.73	33.94	162.82	279.23	199.63	639.98	162.58	58.29	196.23	282.29	229.08
7224	4.94	-9.40	17.16	443.32	282.18	23.31	77.57	160.16	103.19	469.72	308.53	29.75	108.57	163.96	123.39
7225	5.70	-9.38	17.16	325.35	193.54	23.80	48.01	94.24	38.23	349.81	209.39	24.55	76.85	99.06	53.68
7226	6														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
7253	4.52	-12.03	17.16	153.28	118.09	18.29	67.46	52.95	12.49	176.85	128.09	23.06	79.22	51.61	39.03
7254	5.30	-11.86	17.16	131.71	98.22	17.76	38.69	43.63	10.88	153.77	103.46	20.34	56.30	43.86	31.67
7255	6.08	-11.66	17.16	119.27	82.37	17.50	23.91	38.37	9.98	138.86	84.36	18.70	42.77	40.98	26.80
7256	6.84	-11.44	17.16	104.49	72.36	16.85	12.28	33.71	10.11	121.50	72.69	17.30	32.21	38.95	24.68
7257	7.58	-11.19	17.16	88.17	62.78	16.26	10.19	29.07	11.08	101.82	62.18	16.35	26.01	36.57	24.42
7258	0.43	-13.50	17.16	34.14	39.32	15.97	134.68	60.72	12.74	108.92	67.48	27.45	133.95	58.23	41.43
7259	1.28	-13.45	17.16	15.71	60.20	15.96	121.40	55.57	15.82	104.41	81.87	27.14	121.36	52.97	43.07
7260	2.13	-13.37	17.16	32.18	71.03	15.95	102.33	49.50	16.15	105.34	87.92	26.34	104.03	46.77	41.89
7261	2.96	-13.26	17.16	53.87	71.21	16.26	81.29	44.27	13.94	109.86	83.34	24.84	86.00	41.59	37.78
7262	3.79	-13.10	17.16	64.31	67.17	16.46	62.83	41.35	11.52	109.34	74.28	23.04	71.06	39.23	32.41
7263	4.60	-12.92	17.16	74.56	63.00	16.85	47.17	38.99	10.57	109.76	66.09	21.53	58.08	38.03	27.82
7264	5.40	-12.69	17.16	75.84	58.43	16.86	30.99	36.05	10.50	104.85	59.02	19.94	44.85	36.74	24.64
7265	6.18	-12.44	17.16	71.55	52.20	16.72	19.79	33.14	10.91	95.14	51.28	18.62	35.20	35.80	22.86
7266	6.95	-12.15	17.16	66.68	46.79	16.52	13.40	30.51	11.83	85.08	44.85	17.57	27.57	35.21	22.47
7267	7.70	-11.82	17.16	60.04	42.01	16.19	11.75	27.83	13.24	73.58	39.27	16.69	21.65	34.32	23.24
7268	0.43	-14.50	17.16	40.32	12.42	15.80	51.30	53.71	7.70	116.86	19.90	25.55	50.57	51.02	16.27
7269	1.30	-14.45	17.16	22.65	19.33	15.74	48.36	50.81	9.75	110.07	24.60	25.48	48.41	48.19	17.83
7270	2.15	-14.36	17.16	12.41	23.54	15.73	41.93	47.01	11.16	104.35	26.98	24.95	43.93	44.52	18.62
7271	3.00	-14.22	17.16	15.35	25.14	15.80	34.70	43.35	11.73	98.10	26.84	24.08	39.78	41.14	18.52
7272	3.84	-14.03	17.16	22.54	25.12	15.99	28.08	40.40	11.94	90.99	25.30	22.95	36.52	38.73	17.93
7273	4.67	-13.80	17.16	28.32	24.72	16.20	22.29	38.27	12.40	82.99	23.82	21.67	33.33	37.49	17.57
7274	5.48	-13.53	17.16	32.83	24.14	16.36	17.40	36.38	13.39	74.85	22.57	20.40	29.58	36.85	17.96
7275	6.27	-13.22	17.16	35.00	23.18	16.37	13.69	34.40	14.69	66.41	20.96	19.18	25.32	36.36	19.10
7276	7.05	-12.86	17.16	35.30	22.06	16.22	12.36	32.32	16.11	57.70	18.90	18.06	21.05	35.86	20.81
7277	7.80	-12.46	17.16	34.55	21.23	15.97	13.04	30.12	17.61	49.33	16.70	17.12	16.93	35.13	22.92
7278	11.39	-9.32	17.16	24.03	30.71	14.21	21.65	14.98	19.39	19.95	29.38	14.21	15.03	21.16	30.27
7279	10.90	-9.94	17.16	25.43	27.58	14.52	20.85	17.42	20.10	21.78	23.43	14.53	12.88	24.18	30.25
7280	10.38	-10.53	17.16	26.69	24.68	14.79	19.85	20.13	20.59	24.03	18.37	14.86	10.99	27.20	29.85
7281	10.71	-9.27	17.16	39.46	39.10	14.57	23.94	14.49	15.22	37.50	41.41	14.97	19.12	24.11	28.51
7282	10.36	-9.81	17.16	39.68	36.31	14.82	21.99	16.46	16.07	38.66	35.75	14.94	16.61	25.86	28.51
7283	9.99	-10.33	17.16	39.36	33.40	15.02	20.08	18.68	16.81	39.41	30.61	15.01	14.47	27.71	28.17
7284	10.03	-9.23	17.16	57.25	51.36	14.71	27.48	16.12	12.73	58.66	55.84	15.28	26.19	28.60	27.14
7285	9.82	-9.69	17.16	55.59	47.95	14.94	24.27	17.41	13.48	57.58	49.70	15.19	22.80	28.98	27.32
7286	9.60	-10.14	17.16	53.66	44.11	15.14	21.37	18.87	14.21	56.37	43.60	15.17	19.92	29.60	27.11
7287	8.51	-12.03	17.16	33.04	20.71	15.67	14.74	27.80	18.95	41.45	14.55	16.33	13.31	33.98	25.19
7288	8.36	-11.49	17.16	53.42	37.83	15.87	13.67	25.28	14.67	62.51	34.35	16.06	17.72	33.05	24.69
7289	8.21	-10.95	17.16	75.01	54.97	15.87	13.72	25.50	12.25	85.22	53.71	15.81	22.62	34.48	25.06
7290	9.16	-11.57	17.16	31.10	21.19	15.35	16.70	25.34	19.90	34.62	13.77	15.72	11.03	32.22	27.13
7291	8.95	-11.14	17.16	47.68	35.03	15.57	16.13	23.00	15.79	53.19	31.16	15.61	15.42	31.51	26.06
7292	8.73	-10.72	17.16	65.41	49.36	15.61	16.65	22.89	13.24	72.76	47.82	15.53	20.53	32.71	25.88
7293	9.80	-11.08	17.16	28.68	22.27	15.05	18.48	22.80	20.54	28.46	14.47	15.24	10.22	30.05	28.73
7294	9.51	-10.78	17.16	42.09	32.51	15.28	18.35	20.88	16.73	44.42	28.43	15.27	14.29	29.72	27.30
7295	9.23	-10.48	17.16	56.48	44.71	15.33	18.97	20.66	14.14	60.99	43.38	15.28	18.94	30.79	26.59
7296	8.26	-9.30	15.47	84.20	72.18	48.52	27.13	63.61	22.92	117.71	79.39	48.93	38.63	103.20	60.87
7297	8.99	-9.27	15.47	68.23	61.24	46.94	25.77	53.96	23.15	97.39	67.58	48.41	33.39	96.19	61.45
7298	9.73	-9.24	15.47	53.76	52.35	46.11	23.85	46.54	24.51	77.63	57.66	48.67	27.65	88.63	62.72
7299	8.36	-9.90	15.47	72.85	63.88	48.60	19.81	61.14	23.25	103.14	68.81	48.28	31.88	95.95	61.61
7300	9.00	-9.81	15.47	60.86	55.73	47.41	20.48	53.76	24.27	87.52	59.84	47.74	28.11	91.06	62.31
7301	9.64	-9.72	15.47	49.83	48.93	46.64	20.60	47.83	25.87	72.16	52.04	47.76	24.21	85.76	63.45
7302	8.45	-10.50	15.47	60.60	54.77	48.69	15.76	59.26	24.47	88.32	57.39	48.06	26.71	89.76	61.76
7303	9.00	-10.35	15.47	52.73	49.79	47.82	17.09	53.90	25.74	77.36	51.81	47.44	23.85	86.78	62.48
7304	9.54	-10.20	15.47	45.18	45.03	47.18	18.13	49.24	27.43	66.41	46.02	47.30	20.83	83.20	63.78
7305	0.40	-9.53	15.47	25.65	28.10	40.21	70.46	254.88	19.38	100.21	52.21	81.58	71.00	251.88	68.47
7306	1.20	-9.53	15.47	39.35	42.85	40.29	58.07	236.39	17.98	110.90	60.80	84.68	59.63	236.24	72.38
7307	1.99	-9.52	15.47	49.41	64.29	41.93	48.53	215.66	37.81	121.93	78.31	87.56	51.23	218.41	83.69
7308	2.78	-9.50	15.47	93.39	86.87	43.70	41.47	197.36	51.31	152.08	101.31	88.28	47.69	202.00	92.78
7309	3.58	-9.48	15.47	146.24	113.19	49.88	25.51	148.26	48.56	197.56	127.65	80.24	41.37	152.96	87.78
7310	4.37	-9.46	15.47	76.55	133.34	54.65	37.49	137.22	55.64	137.73	146.72	73.52	43.63	145.53	93.89
7311	5.15	-9.43	15.47	121.80	106.06	64.20	10.82	128.29	53.47	168.08	116.42	70.48	40.56	140.01	90.83
7312	5.94	-9.40	15.47	127.18	109.13	61.35	22.34	110.57	38.18	169.77	119.21	62.36	46.60	129.32	75.56
7313	6.72	-9.37	15.47	116.78	98.50	56.32	26.64	92.50	28.72	156.50	107.52	55.92	46.65	119.20	66.22
7314	7.50	-9.33	15.47	101.03	84.69	51.54	27.48	76.39	24.35	137.92	92.55	51.21	43.08	110.56	62.03
7315	0.41	-10.60	15.47	27.68	33.67	47.69	117.06	226.51	21.12	105.62	52.64	104.79	116.71	222.30	72.93
7316	1.24	-10.58	15.47	33.23	63.10	48.27	111.53	212.12	16.39	111.73	78.33	107.39	111.33	209.72	77.30
7317	2.06	-10.55	15.47	78.04	90.79	49.10	101.40	179.30	28.43	139.29	105.51	104.56	102.01	177.79	84.91
7318	2.88	-10.51	15.47	59.06	104.64	50.29	80.31	168.32	43.85	130.24	115.46	99.78	81.34	168.45	95.30
7319	3.69	-10.45	15.47	127.87	63.88	58.21	14.04	143.13	36.96	178.49	69.38	89.71	41.39	142.96	87.29
7320	4.49	-10.38	15.47	88.14	91.60	59.71	20.56	124.81	32.26	140.64	99.40	77.20	39.88	127.83	81.78
7321	5.29	-10.30	15.47	111.66	107.26	63.03	9.70	115.47	32.56	153.78	116.87	69.73	43.01	123.45	78.81
7322	6.08	-10.21	15.47	111.83	96.64	58.54	10.28	98.89	26.46	150.39	104.53	60.31	40.47	113.94	69.35
7323	6.87	-10.11	15.47	100.50	85.25	54.17	14.31	83.81	23.59	136.62	91.87	54.00	38.07	106.64	64.02
7324	7.65	-10.00	15.47	86.34	73.61	50.77	17.83	70.99	22.93	119.71	79.17	50.14	35.12	100.90	61.98
7325	0.43	-11.67	15.47	28.38	21.85	50.91	98.94	194.37	22.00</						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
7351	5.65	-12.95	15.47	38.21	41.90	50.71	25.64	77.87	23.52	88.14	44.28	62.51	36.94	81.70	57.81
7352	6.47	-12.68	15.47	39.12	40.03	50.79	20.76	72.84	24.63	81.06	40.56	58.31	31.59	81.90	56.41
7353	7.27	-12.37	15.47	38.43	38.30	50.42	17.61	67.86	26.32	73.52	37.43	54.65	26.40	82.28	56.62
7354	8.04	-12.02	15.47	36.65	36.65	49.74	16.24	62.73	28.48	65.61	34.68	51.64	21.64	82.07	58.17
7355	0.45	-14.88	15.47	44.17	9.51	46.62	41.26	110.20	15.63	117.33	19.74	82.97	38.77	100.63	41.58
7356	1.36	-14.83	15.47	30.75	13.99	46.75	40.03	105.22	17.71	112.08	22.26	83.00	37.91	96.14	44.00
7357	2.26	-14.73	15.47	20.94	17.72	47.07	36.80	99.11	20.12	106.54	23.80	81.64	36.00	90.85	45.63
7358	3.15	-14.58	15.47	15.87	20.19	47.69	32.78	92.85	22.05	100.09	24.07	79.04	34.04	85.94	46.30
7359	4.03	-14.38	15.47	15.30	21.80	48.55	28.99	87.22	23.60	92.49	23.56	75.48	32.34	82.44	46.39
7360	4.89	-14.14	15.47	16.98	22.97	49.49	25.74	82.31	25.20	84.12	22.87	71.31	30.42	80.60	46.60
7361	5.74	-13.85	15.47	19.12	23.91	50.20	22.97	77.86	27.06	75.54	22.27	66.86	27.86	80.07	47.51
7362	6.57	-13.51	15.47	21.03	24.78	50.53	20.84	73.55	29.20	67.18	21.83	62.44	24.69	80.27	49.39
7363	7.38	-13.13	15.47	22.47	25.72	50.42	19.32	69.15	31.55	59.40	21.63	58.29	21.06	80.59	52.25
7364	8.16	-12.70	15.47	23.29	26.66	49.92	18.43	64.48	33.98	52.25	21.60	54.64	17.30	80.42	55.82
7365	11.87	-9.34	15.47	19.87	37.35	44.09	19.88	34.66	37.60	24.96	34.02	44.82	9.99	60.12	69.61
7366	11.37	-10.00	15.47	20.81	34.82	45.15	19.60	39.20	38.60	27.53	30.27	45.29	9.04	64.80	69.48
7367	10.84	-10.64	15.47	21.56	32.52	46.18	19.29	44.21	39.23	30.36	27.07	46.13	8.50	69.44	68.57
7368	11.16	-9.29	15.47	29.29	40.08	45.01	20.17	37.19	31.55	40.49	40.56	47.57	14.92	70.02	66.75
7369	10.80	-9.87	15.47	29.22	38.06	45.75	19.19	40.83	32.89	41.29	36.83	46.71	13.42	71.91	66.93
7370	10.42	-10.43	15.47	28.72	36.00	46.49	18.38	44.77	33.99	41.86	33.38	46.51	12.34	73.92	66.36
7371	10.45	-9.25	15.47	40.52	45.10	45.61	21.75	40.98	27.28	58.23	48.53	48.79	21.21	79.60	64.58
7372	10.24	-9.74	15.47	39.02	42.93	46.18	19.85	43.45	28.66	56.41	44.34	47.65	19.04	79.00	65.05
7373	10.01	-10.22	15.47	37.24	40.57	46.74	18.34	46.20	29.96	54.64	40.25	47.01	17.33	78.88	64.86
7374	8.90	-12.24	15.47	23.53	27.57	49.15	18.17	59.63	36.18	45.68	21.61	51.60	13.75	79.38	59.76
7375	8.74	-11.66	15.47	34.46	35.40	48.94	16.20	57.92	30.61	58.17	32.49	49.46	17.74	81.09	60.53
7376	8.57	-11.08	15.47	47.17	44.56	48.84	14.99	57.98	26.87	72.70	44.36	48.41	22.06	84.64	61.39
7377	9.58	-11.75	15.47	23.26	28.92	48.21	18.33	54.62	37.85	39.97	22.69	49.22	10.94	77.16	63.35
7378	9.35	-11.29	15.47	32.29	34.97	48.13	16.79	53.44	32.32	51.87	31.71	48.02	14.98	79.30	62.81
7379	9.11	-10.84	15.47	42.79	42.08	48.10	16.10	53.59	28.37	65.16	41.36	47.58	19.49	82.72	62.72
7380	10.24	-11.22	15.47	22.43	30.43	47.19	18.81	49.44	39.03	34.65	24.17	47.44	9.12	73.90	66.43
7381	9.94	-10.90	15.47	29.82	34.74	47.29	17.64	49.03	33.81	45.61	31.24	47.04	13.07	76.65	64.91
7382	9.64	-10.59	15.47	38.36	40.37	47.36	17.21	49.51	29.81	57.49	39.65	47.07	17.33	80.12	63.95
7383	8.59	-9.32	13.78	47.01	52.99	79.67	21.13	75.53	25.79	120.91	60.90	79.82	41.29	146.29	83.73
7384	9.36	-9.29	13.78	41.12	49.55	79.24	20.94	68.50	27.17	106.60	55.37	82.41	37.60	142.83	86.08
7385	10.12	-9.26	13.78	34.84	47.05	79.04	20.38	61.99	29.02	90.72	50.20	85.71	33.06	136.21	88.28
7386	8.70	-9.96	13.78	41.48	49.57	80.89	18.57	74.63	27.67	108.90	54.72	79.59	37.76	137.31	85.79
7387	9.37	-9.87	13.78	37.08	47.10	80.40	19.03	68.72	29.00	97.57	50.39	80.98	34.55	134.90	87.60
7388	10.03	-9.77	13.78	32.42	45.33	80.04	19.30	63.22	30.76	85.17	46.33	83.12	31.03	130.40	89.42
7389	8.80	-10.59	13.78	35.50	45.61	82.01	18.00	73.93	29.75	96.98	47.98	80.00	34.15	128.92	86.70
7390	9.37	-10.44	13.78	32.74	44.45	81.50	18.45	69.10	30.97	88.72	45.42	80.33	31.59	127.66	88.11
7391	9.94	-10.27	13.78	29.75	43.37	81.09	18.95	64.39	32.60	79.84	42.30	81.53	28.62	124.73	89.92
7392	0.41	-9.57	13.78	36.75	19.74	64.26	39.44	163.72	50.46	150.46	42.22	107.76	43.13	154.91	80.65
7393	1.24	-9.56	13.78	29.73	30.29	63.85	38.43	157.63	36.87	152.17	49.90	106.32	44.08	152.84	75.77
7394	2.07	-9.55	13.78	34.27	40.11	65.17	33.74	147.32	25.88	156.50	57.67	103.73	42.73	147.31	73.91
7395	2.90	-9.54	13.78	40.50	48.10	69.76	26.07	133.94	19.80	160.11	63.54	100.12	40.21	139.36	74.67
7396	3.72	-9.52	13.78	41.69	52.92	73.18	19.76	129.17	18.68	157.83	66.96	95.16	39.53	141.95	77.24
7397	4.54	-9.49	13.78	60.44	55.20	77.01	13.56	117.65	19.68	164.59	68.31	89.81	43.26	138.69	77.12
7398	5.36	-9.46	13.78	54.97	63.77	79.11	14.49	106.97	20.89	156.88	76.31	84.76	43.13	138.59	77.30
7399	6.18	-9.43	13.78	55.60	62.48	81.23	16.41	99.35	22.37	150.54	74.09	81.92	44.60	141.92	78.95
7400	6.99	-9.39	13.78	54.94	60.38	81.17	18.91	91.36	23.57	143.09	70.96	79.49	45.00	145.09	80.21
7401	7.81	-9.35	13.78	51.86	56.81	80.41	20.57	83.24	24.70	133.10	66.09	78.73	43.87	146.89	81.83
7402	0.43	-10.71	13.78	37.89	17.79	68.57	48.27	159.80	44.96	145.82	38.72	117.77	49.75	148.57	84.58
7403	1.29	-10.69	13.78	27.88	27.63	69.56	44.99	151.76	33.85	146.55	44.88	116.92	48.74	143.46	82.27
7404	2.14	-10.66	13.78	28.35	37.02	70.51	38.43	144.39	26.57	147.87	51.45	113.76	45.51	140.08	82.16
7405	2.99	-10.61	13.78	40.12	45.38	74.14	30.46	131.04	24.47	151.78	58.89	108.95	43.88	131.11	82.16
7406	3.84	-10.55	13.78	37.73	61.67	77.25	31.59	121.92	22.74	147.24	74.66	102.76	45.47	128.84	82.65
7407	4.68	-10.48	13.78	50.50	60.96	80.56	20.80	114.15	22.85	149.33	72.47	96.75	43.49	129.22	82.82
7408	5.51	-10.39	13.78	48.75	58.82	81.88	17.13	103.68	23.80	142.98	68.77	90.20	42.73	128.50	82.15
7409	6.33	-10.30	13.78	49.26	58.26	83.21	15.72	96.63	24.79	136.58	67.31	85.55	42.92	132.24	82.36
7410	7.15	-10.19	13.78	48.33	55.74	82.69	16.45	89.09	25.69	128.96	63.61	81.65	42.08	135.53	83.00
7411	7.96	-10.06	13.78	45.47	52.50	81.69	17.66	81.45	26.65	119.45	58.98	79.59	40.26	137.48	84.31
7412	0.44	-11.85	13.78	40.53	17.87	71.83	56.60	147.66	39.63	140.67	39.19	122.87	56.19	133.72	85.66
7413	1.33	-11.82	13.78	28.56	28.12	73.30	53.93	140.76	32.69	139.55	45.84	122.37	55.41	129.11	85.63
7414	2.21	-11.76	13.78	25.69	40.26	74.41	50.26	134.54	27.50	138.72	55.26	119.20	54.02	126.30	86.09
7415	3.08	-11.69	13.78	32.48	44.74	76.52	39.37	124.20	25.46	140.25	57.33	114.09	48.19	120.27	85.64
7416	3.95	-11.59	13.78	33.90	46.75	79.89	30.69	113.19	25.63	137.67	57.06	107.93	44.37	115.08	84.41
7417	4.80	-11.47	13.78	36.27	49.82	82.90	25.07	107.44	25.90	132.60	59.08	101.75	43.30	117.29	83.99
7418	5.65	-11.33	13.78	39.66	51.50	83.85	20.93	100.39	26.25	127.80	59.53	94.84	42.31	119.58	83.66
7419	6.48	-11.17	13.78	40.76	51.09	84.04	18.25	93.39	26.85	121.80	57.73	88.71	40.84	122.90	83.42
7420	7.30	-10.98	13.78	40.08	49.33	83.56	17.31	86.56	27.62	114.35	54.51	83.96	38.95	126.28	83.91
7421	8.11	-10.78	13.78	38.05	47.19	82.73	17.47	79.73	28.63	105.56	50.83	80.96	36.58	128.50	85.25
7422	0.46	-12.99	13.78	43.84	14.64	73.78	49.78	135.76	33.96	135.06	34.28	125.15	47.67	119.16	81.43
7423	1.37	-12.95	13.78	31.76	22.02	75.03	48.00	130.19	2						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
7449	6.87	-13.80	13.78	19.55	27.48	87.28	27.79	88.64	34.95	82.55	24.52	110.95	27.75	102.82	70.17
7450	7.71	-13.39	13.78	19.18	29.74	87.51	26.41	83.17	37.34	75.75	25.25	102.69	25.82	105.18	74.41
7451	8.53	-12.94	13.78	19.04	31.90	87.17	25.15	77.49	39.63	69.22	26.08	95.21	23.58	106.82	79.00
7452	12.36	-9.36	13.78	16.71	44.91	78.19	20.38	44.64	42.39	40.13	34.71	86.16	15.46	91.60	94.68
7453	11.85	-10.07	13.78	17.33	42.59	80.15	20.97	49.38	43.51	43.39	32.79	83.61	15.42	95.63	94.71
7454	11.29	-10.74	13.78	17.81	40.38	82.01	21.70	54.60	44.23	46.75	31.15	82.28	15.76	99.56	93.74
7455	11.62	-9.31	13.78	22.30	44.67	78.70	19.70	50.32	36.36	56.08	39.45	88.62	21.41	110.34	92.62
7456	11.25	-9.92	13.78	22.14	42.97	80.05	19.90	53.86	37.92	56.94	37.21	84.70	20.75	110.03	93.06
7457	10.86	-10.52	13.78	21.71	41.17	81.41	20.29	57.66	39.16	57.73	35.05	82.30	20.33	109.86	92.40
7458	10.88	-9.26	13.78	28.35	45.37	78.97	19.83	55.88	31.99	73.23	44.77	88.36	27.43	125.07	90.54
7459	10.66	-9.79	13.78	27.29	43.93	79.99	19.43	58.17	33.63	71.25	41.89	84.77	26.22	121.72	91.33
7460	10.43	-10.30	13.78	26.03	42.36	81.00	19.42	60.70	35.16	69.44	39.09	82.30	25.20	118.96	91.18
7461	9.29	-12.45	13.78	18.95	33.86	86.34	24.09	71.78	41.63	62.89	26.71	89.14	21.19	107.26	83.75
7462	9.12	-11.83	13.78	23.53	37.23	84.43	21.33	72.31	36.40	73.21	33.16	84.13	25.35	113.91	85.65
7463	8.94	-11.22	13.78	29.16	41.11	83.16	19.17	73.07	32.58	84.69	40.09	81.41	29.85	121.01	86.71
7464	10.00	-11.92	13.78	18.75	36.01	85.12	23.19	66.08	43.12	57.12	28.02	84.91	19.03	106.16	87.92
7465	9.75	-11.44	13.78	22.96	38.35	83.58	20.93	67.26	37.88	67.40	33.29	82.14	23.22	113.36	88.43
7466	9.50	-10.96	13.78	27.84	41.09	82.56	19.27	68.54	33.88	78.52	38.85	80.82	27.68	120.47	88.58
7467	10.68	-11.36	13.78	18.30	38.13	83.66	22.47	60.28	44.16	51.58	29.28	82.64	17.17	103.61	91.41
7468	10.36	-11.02	13.78	22.04	39.56	82.60	20.69	62.21	39.17	61.48	33.46	81.54	21.39	111.42	90.83
7469	10.04	-10.69	13.78	26.22	41.48	81.87	19.42	64.10	35.15	71.94	38.50	81.11	25.57	118.59	90.09
7470	8.93	-9.34	12.09	36.84	45.13	109.02	21.51	86.24	34.08	163.85	51.98	107.87	56.95	192.21	103.99
7471	9.73	-9.31	12.09	33.72	45.58	110.51	21.75	80.15	33.94	148.47	48.15	115.64	54.62	192.07	108.06
7472	10.52	-9.27	12.09	29.92	46.48	111.92	21.80	73.86	34.34	130.09	44.12	125.35	50.97	186.66	111.49
7473	9.04	-10.02	12.09	33.32	43.97	111.77	21.66	85.44	35.01	148.40	47.14	118.52	54.31	179.76	106.77
7474	9.74	-9.92	12.09	30.98	44.58	112.69	21.95	80.02	35.16	136.28	44.15	110.50	52.00	179.84	110.03
7475	10.43	-9.82	12.09	28.17	45.54	113.54	22.13	74.55	35.81	122.11	41.01	120.37	49.04	176.45	112.90
7476	9.15	-10.69	12.09	29.84	42.52	114.43	22.67	84.65	36.23	133.21	42.13	109.91	50.53	167.42	108.16
7477	9.75	-10.53	12.09	28.26	43.47	114.85	22.72	79.95	36.61	124.47	40.41	112.40	48.70	168.18	110.69
7478	10.33	-10.35	12.09	26.35	44.44	115.28	22.87	75.09	37.40	114.48	37.87	116.87	46.16	166.33	113.41
7479	0.43	-9.60	12.09	45.56	17.94	86.23	25.15	143.17	74.21	184.55	44.68	129.23	34.46	123.11	95.11
7480	1.29	-9.60	12.09	39.79	22.17	87.77	24.65	139.52	64.69	188.46	47.83	128.83	38.18	126.82	90.57
7481	2.15	-9.59	12.09	37.40	27.40	89.99	23.24	134.61	56.32	192.22	51.41	126.59	41.55	130.87	87.60
7482	3.01	-9.57	12.09	37.17	32.82	92.36	21.55	129.47	49.44	195.02	55.28	122.72	44.96	136.72	86.17
7483	3.86	-9.55	12.09	38.62	37.67	95.72	19.72	122.53	44.55	197.38	58.57	118.08	48.41	142.44	86.10
7484	4.72	-9.52	12.09	39.11	41.56	98.93	19.19	116.88	40.26	196.65	60.86	112.93	51.18	151.32	87.21
7485	5.57	-9.49	12.09	40.96	42.71	101.75	18.66	111.10	37.55	195.42	60.27	107.88	54.36	161.14	89.34
7486	6.42	-9.46	12.09	41.16	44.15	103.85	19.30	104.78	36.33	191.62	59.70	103.67	56.50	170.98	92.22
7487	7.27	-9.42	12.09	40.58	44.63	105.81	20.18	98.60	35.33	185.19	57.78	101.84	57.79	180.34	95.81
7488	8.11	-9.38	12.09	39.14	44.86	107.49	20.97	92.38	34.61	175.96	55.00	103.10	57.97	187.94	99.94
7489	0.45	-10.81	12.09	46.79	16.58	92.35	31.05	142.47	67.71	174.06	41.62	139.78	36.28	118.52	94.08
7490	1.34	-10.79	12.09	40.27	21.38	94.00	30.67	138.89	59.99	176.79	44.97	139.64	39.96	121.33	91.65
7491	2.23	-10.76	12.09	35.76	26.91	96.46	29.06	133.30	53.27	179.30	48.59	137.54	43.16	123.63	90.19
7492	3.11	-10.71	12.09	34.84	32.15	99.00	27.03	127.95	47.26	180.78	51.70	133.58	45.88	128.36	89.66
7493	3.99	-10.65	12.09	35.04	34.60	101.88	23.50	121.80	43.39	181.72	52.24	128.39	48.64	134.08	90.28
7494	4.86	-10.57	12.09	35.53	38.40	104.55	22.25	115.44	40.86	180.34	54.20	122.30	51.25	141.41	91.66
7495	5.72	-10.48	12.09	36.57	40.98	106.91	21.07	109.85	38.53	178.06	54.92	116.21	53.60	150.84	93.64
7496	6.58	-10.38	12.09	36.74	42.20	108.42	20.78	103.57	37.01	173.74	53.89	110.57	55.08	160.01	96.30
7497	7.43	-10.26	12.09	36.31	42.90	109.76	20.92	97.45	36.00	167.40	52.05	106.87	55.80	168.81	99.60
7498	8.28	-10.13	12.09	35.15	43.39	110.82	21.28	91.25	35.34	158.78	49.55	106.03	55.53	175.95	103.36
7499	0.46	-12.02	12.09	48.68	14.95	97.57	33.84	140.40	59.91	163.03	38.40	149.24	34.99	112.69	91.01
7500	1.38	-11.99	12.09	41.56	19.23	99.46	33.60	136.57	53.73	164.65	41.11	149.53	38.61	114.39	90.24
7501	2.29	-11.94	12.09	35.87	23.64	101.87	31.74	131.15	48.78	165.83	43.36	147.68	41.47	116.05	90.15
7502	3.20	-11.86	12.09	33.74	28.64	104.54	30.08	125.60	44.92	166.03	46.15	143.87	44.40	119.59	90.69
7503	4.10	-11.75	12.09	32.39	33.10	106.97	27.97	120.20	41.63	165.18	48.48	138.40	47.09	125.40	91.66
7504	4.99	-11.63	12.09	32.24	36.03	109.11	25.83	113.96	39.43	163.46	49.02	131.74	49.19	132.03	93.11
7505	5.87	-11.48	12.09	32.39	37.90	111.06	24.23	108.10	38.05	160.29	48.49	124.76	50.84	140.32	95.19
7506	6.74	-11.30	12.09	32.42	39.33	112.40	23.27	102.18	37.03	155.70	47.39	118.02	51.89	149.01	97.92
7507	7.59	-11.11	12.09	32.04	40.46	113.32	22.80	96.15	36.38	149.57	45.75	112.57	52.17	157.16	101.23
7508	8.44	-10.89	12.09	31.12	41.47	113.95	22.64	90.01	36.14	141.60	43.72	109.61	51.66	163.77	104.99
7509	0.47	-13.23	12.09	51.27	13.53	102.05	35.31	138.26	51.01	151.57	35.35	159.48	32.05	107.19	84.35
7510	1.42	-13.19	12.09	44.12	17.06	104.22	35.33	134.11	46.48	152.20	37.48	160.27	35.32	107.78	84.96
7511	2.36	-13.12	12.09	38.45	21.39	106.46	34.43	129.25	42.82	152.08	39.50	158.73	38.23	109.38	85.92
7512	3.29	-13.01	12.09	34.09	25.31	108.87	32.63	123.72	40.23	151.20	40.78	155.06	40.67	112.17	87.16
7513	4.21	-12.86	12.09	31.67	28.56	111.26	30.65	118.04	38.62	149.45	41.31	149.57	42.83	116.83	88.77
7514	5.12	-12.68	12.09	30.30	31.44	113.32	28.94	112.39	37.56	146.61	41.49	142.71	44.74	123.19	90.91
7515	6.01	-12.47	12.09	29.50	33.92	114.91	27.43	106.64	36.96	142.87	41.19	134.90	46.10	130.61	93.57
7516	6.89	-12.23	12.09	28.93	35.95	116.01	26.25	100.80	36.78	138.14	40.38	126.89	46.82	138.45	96.82
7517	7.75	-11.95	12.09	28.31	37.73	116.69	25.39	94.82	36.95	132.28	39.21	119.68	46.87	145.82	100.59
7518	8.59	-11.65	12.09	27.42	39.38	117.05	24.81	88.70	37.46	125.07	37.76	114.48	46.25	151.79	104.71
7519	0.49	-14.44	12.09	54.36	11.12	106.03	35.01	137.31	41.17	140.06	29.31	174.00	27.36	103.62	73.52
7520	1.45	-14.39	12.09	47.72	13.73	108.23	35.45	132.93	38.08	139.89</					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
7547	10.85	-10.38	12.09	23.79	45.21	116.13	23.27	70.84	39.18	101.64	35.30	120.61	42.67	159.07	115.01
7548	9.68	-12.66	12.09	20.97	38.14	123.18	29.21	79.89	45.67	89.09	26.72	122.62	32.43	132.47	105.62
7549	9.49	-12.00	12.09	23.38	39.43	120.05	26.65	81.65	41.19	102.87	31.34	116.62	38.93	143.74	107.53
7550	9.30	-11.36	12.09	26.36	40.83	117.18	24.46	83.30	38.17	117.62	36.26	112.56	45.12	155.25	108.48
7551	10.42	-12.10	12.09	19.70	40.96	122.15	27.96	73.87	46.66	83.05	27.50	118.21	31.81	133.43	110.41
7552	10.15	-11.59	12.09	22.35	41.53	119.53	25.91	76.36	42.09	96.82	31.33	115.28	38.06	145.28	111.22
7553	9.88	-11.08	12.09	25.31	42.23	117.15	24.17	78.67	38.82	111.20	35.34	113.27	43.86	156.67	111.37
7554	11.12	-11.50	12.09	18.54	43.71	120.78	26.72	67.90	47.26	76.81	28.07	118.48	31.16	132.55	114.19
7555	10.78	-11.14	12.09	21.22	43.69	118.82	25.15	71.11	42.86	90.24	31.21	117.28	37.18	144.97	114.18
7556	10.45	-10.79	12.09	24.05	43.81	116.97	23.81	74.06	39.48	103.91	35.10	116.13	42.42	156.19	113.51
7557	9.26	-9.36	10.41	43.81	43.73	137.99	25.96	98.60	49.70	235.92	46.44	133.33	83.47	242.42	124.46
7558	10.09	-9.32	10.41	40.77	46.13	141.56	26.42	92.50	47.28	219.81	42.15	147.87	83.37	248.55	130.63
7559	10.91	-9.29	10.41	36.59	48.86	145.20	26.64	86.01	45.34	197.13	37.73	168.35	81.24	247.33	136.08
7560	9.39	-10.08	10.41	39.86	43.59	142.47	27.08	97.33	48.83	212.34	41.51	135.50	81.06	225.29	127.95
7561	10.11	-9.97	10.41	37.44	45.80	144.98	27.33	91.77	47.22	199.73	38.26	145.35	80.44	230.21	133.15
7562	10.83	-9.86	10.41	34.32	48.27	147.50	27.42	86.07	46.06	182.69	35.01	160.17	78.66	230.37	137.77
7563	9.50	-10.79	10.41	36.08	43.26	146.89	28.39	95.99	48.35	189.01	36.73	138.26	76.29	207.79	129.73
7564	10.12	-10.62	10.41	34.30	45.36	148.38	28.34	91.10	47.49	180.29	34.89	143.86	75.87	212.42	133.91
7565	10.73	-10.43	10.41	32.07	47.54	149.96	28.30	86.01	46.95	168.92	32.43	153.88	74.20	213.71	138.13
7566	0.45	-9.64	10.41	51.60	19.28	108.31	21.77	147.49	97.20	213.81	48.32	155.48	37.53	110.36	111.12
7567	1.34	-9.63	10.41	48.93	21.02	110.21	22.29	144.78	89.90	221.84	50.47	155.68	43.24	118.70	107.10
7568	2.23	-9.62	10.41	47.16	23.65	112.56	22.44	141.30	83.01	229.47	52.55	154.03	48.89	128.53	104.02
7569	3.12	-9.60	10.41	46.39	26.60	115.44	22.39	137.07	76.75	236.60	54.24	150.69	54.49	139.83	102.14
7570	4.01	-9.58	10.41	46.43	29.54	118.47	22.43	132.56	71.14	242.72	55.45	145.82	59.97	153.13	101.56
7571	4.89	-9.56	10.41	46.71	32.27	121.67	22.56	127.46	66.49	247.93	55.97	139.89	65.42	167.72	102.43
7572	5.78	-9.52	10.41	47.09	34.95	124.90	23.09	122.08	62.44	251.35	55.93	133.56	70.41	183.55	104.63
7573	6.66	-9.49	10.41	47.25	37.19	128.13	23.75	116.51	58.76	252.73	54.79	127.92	75.01	200.03	108.09
7574	7.54	-9.44	10.41	46.89	39.34	131.30	24.53	110.67	55.52	251.27	52.75	124.51	78.90	216.23	112.76
7575	8.41	-9.40	10.41	45.81	41.49	134.58	25.30	104.65	52.50	245.96	49.77	125.68	81.84	231.04	118.45
7576	0.46	-10.92	10.41	52.71	17.80	116.84	25.83	148.43	89.43	198.95	44.82	168.12	36.55	106.59	107.63
7577	1.39	-10.90	10.41	49.01	19.58	119.02	26.31	145.29	83.06	205.56	46.62	168.75	42.51	113.23	104.63
7578	2.31	-10.86	10.41	46.51	22.34	121.45	26.36	141.54	77.11	211.67	48.29	167.25	48.31	121.66	102.99
7579	3.22	-10.81	10.41	44.63	25.46	124.19	26.07	137.03	71.89	217.20	49.67	163.81	54.05	131.66	102.46
7580	4.13	-10.75	10.41	43.96	28.84	127.01	25.92	132.11	67.17	221.84	50.79	158.59	59.52	143.56	102.98
7581	5.04	-10.67	10.41	43.54	31.66	129.80	25.66	126.88	62.99	225.52	50.90	152.02	64.79	157.12	104.54
7582	5.94	-10.57	10.41	43.46	34.23	132.45	25.70	121.23	59.48	227.75	50.25	144.65	69.60	171.70	107.65
7583	6.83	-10.46	10.41	43.26	36.63	135.03	25.92	115.44	56.34	228.21	48.91	137.56	73.89	186.98	111.54
7584	7.71	-10.34	10.41	42.72	38.93	137.48	26.29	109.40	53.51	226.20	46.83	132.24	77.40	201.93	116.56
7585	8.59	-10.20	10.41	41.62	41.27	139.98	26.69	103.20	50.97	221.01	44.12	130.98	79.91	215.56	122.40
7586	0.48	-12.20	10.41	54.47	16.24	125.10	29.30	148.68	80.12	183.62	41.27	181.83	33.53	102.34	101.29
7587	1.43	-12.17	10.41	50.18	17.96	127.45	29.82	145.23	74.82	188.74	42.73	182.86	39.44	107.43	100.21
7588	2.38	-12.11	10.41	46.84	20.78	129.95	29.94	141.17	69.94	193.29	44.05	181.58	45.20	114.37	99.90
7589	3.32	-12.03	10.41	44.06	23.92	132.53	29.61	136.50	65.60	197.19	44.87	178.09	50.76	123.16	100.48
7590	4.26	-11.92	10.41	42.35	27.02	135.12	29.17	131.32	61.94	200.35	45.11	172.59	56.08	133.68	102.06
7591	5.18	-11.78	10.41	41.18	30.06	137.56	28.78	125.90	58.76	202.53	44.92	165.38	61.10	145.96	104.65
7592	6.09	-11.62	10.41	40.35	32.95	139.74	28.51	120.13	55.95	203.58	44.16	156.98	65.66	159.31	108.25
7593	7.00	-11.44	10.41	39.62	35.64	141.71	28.37	114.12	53.52	203.17	42.76	148.33	69.62	173.19	112.84
7594	7.89	-11.23	10.41	38.75	38.24	143.53	28.35	107.91	51.43	200.78	40.82	140.91	72.83	186.80	118.32
7595	8.76	-11.00	10.41	37.54	40.85	145.29	28.37	101.56	49.66	195.76	38.52	136.91	75.17	199.15	124.46
7596	0.49	-13.48	10.41	56.88	14.39	132.96	32.02	148.81	69.15	168.30	36.76	197.97	28.64	98.55	92.95
7597	1.47	-13.44	10.41	52.35	15.93	135.40	32.67	145.06	64.82	172.02	37.90	199.40	34.09	102.12	93.07
7598	2.45	-13.36	10.41	48.26	18.55	137.94	32.83	140.66	61.13	175.09	38.71	198.34	39.46	107.53	94.00
7599	3.41	-13.24	10.41	44.92	21.70	140.44	32.71	135.78	58.06	177.46	39.18	194.81	44.69	114.96	95.78
7600	4.37	-13.09	10.41	42.16	25.03	142.79	32.38	130.47	55.52	179.09	39.24	188.91	49.70	124.24	98.42
7601	5.31	-12.90	10.41	39.98	28.26	144.90	31.92	124.80	53.51	179.96	38.78	180.90	54.37	135.06	101.99
7602	6.24	-12.68	10.41	38.25	31.37	146.72	31.47	118.85	51.93	179.90	37.87	171.29	58.61	146.98	106.49
7603	7.16	-12.42	10.41	36.77	34.39	148.23	31.05	112.65	50.68	178.71	36.60	160.89	62.30	159.38	111.87
7604	8.05	-12.13	10.41	35.37	37.35	149.49	30.68	106.25	49.70	176.03	35.03	151.08	65.33	171.53	117.96
7605	8.93	-11.80	10.41	33.86	40.30	150.59	30.33	99.71	48.97	171.34	33.23	144.02	67.54	182.54	124.46
7606	0.50	-14.76	10.41	59.87	12.22	140.30	34.52	149.27	56.37	153.43	30.48	218.65	23.43	96.02	82.22
7607	1.51	-14.71	10.41	55.25	13.55	142.84	35.30	145.11	53.18	155.89	31.43	220.49	27.70	97.93	83.47
7608	2.51	-14.61	10.41	50.86	16.12	145.37	35.68	140.39	50.86	157.65	32.06	219.52	32.15	101.84	85.61
7609	3.50	-14.46	10.41	46.84	19.29	147.80	35.72	135.17	49.36	158.70	32.33	215.69	36.64	107.76	88.60
7610	4.48	-14.27	10.41	43.28	22.69	150.03	35.51	129.57	48.56	159.04	32.25	209.08	41.02	115.58	92.46
7611	5.44	-14.02	10.41	40.17	26.16	151.94	35.12	123.65	48.28	158.68	31.88	199.93	45.20	124.94	97.18
7612	6.39	-13.74	10.41	37.44	29.61	153.46	34.58	117.46	48.36	157.58	31.27	188.66	49.06	135.33	102.74
7613	7.31	-13.40	10.41	35.04	33.00	154.59	33.96	111.04	48.66	155.67	30.47	176.04	52.52	146.17	109.02
7614	8.22	-13.03	10.41	32.88	36.34	155.37	33.26	104.43	49.07	152.75	29.56	163.38	55.47	156.79	115.83
7615	9.09	-12.61	10.41	30.87	39.64	155.86	32.50	97.71	49.50	148.45	28.59	152.80	57.77	166.42	122.82
7616	0.52	-16.04	10.41	63.23	9.96	147.08	37.19	150.16	42.56	139.39	21.55	246.03	21.76	95.07	70.97
7617	1.55	-15.98	10.41	58.65	11.02	149.67	38.11	145.50	41.03	140.81	22.41	248.22	23.61	95.26</	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
7645	10.46	-9.34	8.72	57.74	49.41	171.85	33.60	105.33	64.96	332.75	37.69	174.21	125.70	310.12	153.13
7646	11.31	-9.30	8.72	53.57	53.64	178.28	34.35	98.97	60.97	311.69	34.94	209.80	128.16	323.02	162.39
7647	9.73	-10.14	8.72	53.72	46.24	172.80	34.05	109.87	66.82	303.95	36.95	158.75	119.40	268.90	148.62
7648	10.48	-10.03	8.72	51.88	49.61	176.89	34.71	104.05	63.76	296.63	34.28	173.09	122.92	283.93	156.83
7649	11.22	-9.91	8.72	48.81	53.37	181.45	35.10	98.29	60.91	281.21	33.55	198.74	124.85	294.79	164.85
7650	9.86	-10.89	8.72	47.69	46.65	179.38	35.25	108.07	64.92	265.87	32.58	164.11	113.52	245.85	151.09
7651	10.50	-10.70	8.72	46.33	49.62	181.90	35.46	102.88	62.95	261.48	31.84	172.59	116.53	258.08	157.89
7652	11.13	-10.51	8.72	44.30	52.92	184.82	35.57	97.62	61.08	252.75	32.61	189.89	117.47	267.55	164.96
7653	0.46	-9.67	8.72	56.65	22.11	130.45	22.50	162.25	119.29	239.05	50.87	184.62	43.85	102.69	128.11
7654	1.39	-9.67	8.72	55.71	22.67	132.36	23.33	159.74	113.14	251.61	52.54	185.39	50.89	113.69	124.25
7655	2.31	-9.66	8.72	55.36	24.01	134.85	24.08	156.48	107.18	264.44	53.98	184.30	58.19	126.59	121.11
7656	3.23	-9.64	8.72	55.57	25.93	137.78	24.81	152.54	101.51	277.43	55.07	181.29	65.75	141.48	118.90
7657	4.15	-9.62	8.72	56.22	28.22	141.11	25.58	147.93	96.20	290.51	55.65	176.46	73.57	158.30	117.87
7658	5.07	-9.59	8.72	57.25	30.73	144.69	26.47	142.77	91.20	303.36	55.56	169.97	81.59	177.10	118.16
7659	5.99	-9.55	8.72	58.41	33.36	148.47	27.48	137.10	86.51	315.71	54.64	162.25	89.79	197.75	119.97
7660	6.90	-9.51	8.72	59.52	36.13	152.43	28.65	131.02	82.05	326.90	52.85	154.22	98.04	220.02	123.43
7661	7.81	-9.47	8.72	60.36	39.08	156.64	29.92	124.63	77.69	336.02	50.06	147.70	106.19	243.59	128.64
7662	8.72	-9.42	8.72	60.61	42.28	161.19	31.23	118.07	73.38	341.67	46.27	145.99	113.93	267.82	135.62
7663	0.48	-11.02	8.72	57.52	20.82	142.23	26.27	162.96	110.72	220.67	47.28	199.89	42.18	98.42	122.24
7664	1.44	-11.01	8.72	55.71	21.41	144.33	27.11	160.12	105.20	231.28	48.55	201.02	49.60	107.75	119.54
7665	2.39	-10.97	8.72	54.34	22.89	146.85	27.80	156.52	99.92	242.01	49.53	200.05	57.25	119.15	117.64
7666	3.34	-10.92	8.72	53.61	25.02	149.65	28.42	152.25	94.90	252.78	50.09	196.91	65.11	132.68	116.70
7667	4.28	-10.85	8.72	53.30	27.53	152.64	28.99	147.35	90.22	263.52	50.08	191.66	73.17	148.22	116.94
7668	5.22	-10.76	8.72	53.47	30.30	155.73	29.65	141.89	85.87	274.03	49.48	184.47	81.37	165.68	118.53
7669	6.16	-10.66	8.72	53.86	33.22	158.89	30.39	135.96	81.74	284.03	48.16	175.76	89.65	184.89	121.58
7670	7.08	-10.54	8.72	54.33	36.25	162.08	31.25	129.62	77.81	293.00	46.06	166.40	97.89	205.56	126.23
7671	8.00	-10.41	8.72	54.64	39.44	165.41	32.19	122.99	74.00	300.20	43.23	158.17	105.92	227.33	132.50
7672	8.90	-10.26	8.72	54.55	42.86	169.00	33.15	116.20	70.28	304.48	39.85	154.27	113.40	249.55	140.36
7673	0.49	-12.37	8.72	59.15	19.24	154.28	29.88	163.39	100.33	201.97	43.22	217.45	37.80	94.07	114.66
7674	1.48	-12.34	8.72	56.58	19.83	156.53	30.72	160.20	95.51	210.53	44.09	218.97	45.23	101.56	113.13
7675	2.47	-12.28	8.72	54.31	21.44	159.04	31.36	156.28	91.01	219.03	44.60	218.12	52.86	111.34	112.47
7676	3.44	-12.20	8.72	52.57	23.78	161.68	31.87	151.69	86.86	227.45	44.68	214.81	60.67	123.34	112.85
7677	4.41	-12.08	8.72	51.24	26.58	164.33	32.31	146.51	83.03	235.71	44.24	209.05	68.63	137.44	114.39
7678	5.37	-11.94	8.72	50.36	29.63	166.92	32.72	140.78	79.50	243.73	43.21	201.01	76.68	153.37	117.24
7679	6.32	-11.77	8.72	49.79	32.84	169.43	33.18	134.58	76.22	251.27	41.56	191.08	84.77	170.91	121.51
7680	7.26	-11.57	8.72	49.41	36.17	171.86	33.69	128.00	73.14	257.95	39.36	180.07	92.78	189.73	127.27
7681	8.18	-11.35	8.72	49.05	39.65	174.30	34.25	121.13	70.18	263.18	36.75	169.70	100.54	209.41	134.49
7682	9.09	-11.11	8.72	48.49	43.30	176.86	34.80	114.12	67.34	265.97	34.10	163.07	107.85	229.35	143.06
7683	0.51	-13.73	8.72	61.54	17.30	166.40	33.32	163.72	87.74	183.68	38.25	238.28	31.05	90.20	105.06
7684	1.53	-13.68	8.72	58.38	17.91	168.78	34.16	160.13	83.73	190.26	38.83	240.22	38.03	95.67	104.70
7685	2.54	-13.60	8.72	55.41	19.66	171.24	34.80	155.86	80.19	196.61	39.03	239.44	45.23	103.69	105.33
7686	3.54	-13.48	8.72	52.71	22.23	173.68	35.24	150.95	77.12	202.74	38.78	235.83	52.60	114.08	107.04
7687	4.53	-13.32	8.72	50.37	25.29	175.99	35.54	145.45	74.48	208.61	38.03	229.38	60.10	126.60	109.94
7688	5.51	-13.12	8.72	48.39	28.66	178.11	35.75	139.44	72.19	214.17	36.82	220.21	67.70	140.91	114.10
7689	6.48	-12.88	8.72	46.73	32.20	179.99	35.91	132.98	70.16	219.30	35.18	208.69	75.33	156.67	119.59
7690	7.43	-12.61	8.72	45.34	35.86	181.67	36.04	126.15	68.31	223.75	33.21	195.62	82.90	173.50	126.40
7691	8.36	-12.30	8.72	44.12	39.64	183.22	36.17	119.06	66.58	227.07	31.18	182.62	90.23	190.97	134.42
7692	9.27	-11.96	8.72	42.93	43.56	184.78	36.26	111.82	64.89	228.54	29.55	172.72	97.11	208.49	143.44
7693	0.52	-15.08	8.72	64.57	15.06	178.31	36.70	164.03	72.72	166.46	31.82	263.58	23.28	87.26	93.77
7694	1.57	-15.02	8.72	61.03	15.67	180.77	37.57	159.99	69.69	171.26	32.28	265.92	29.10	90.56	94.66
7695	2.61	-14.92	8.72	57.48	17.60	183.18	38.20	155.30	67.45	175.70	32.39	265.10	35.30	96.66	96.66
7696	3.64	-14.76	8.72	54.04	20.45	185.42	38.62	150.02	65.90	179.77	32.12	260.97	41.77	105.35	99.81
7697	4.65	-14.56	8.72	50.79	23.84	187.40	38.82	144.18	64.92	183.48	31.47	253.50	48.46	116.26	104.12
7698	5.65	-14.30	8.72	47.77	27.53	189.06	38.85	137.86	64.37	186.81	30.44	242.79	55.29	128.94	109.61
7699	6.64	-14.00	8.72	45.01	31.39	190.37	38.72	131.13	64.08	189.71	29.15	229.20	62.21	142.95	116.27
7700	7.60	-13.64	8.72	42.54	35.35	191.34	38.46	124.06	63.91	192.07	27.76	213.51	69.16	157.83	124.01
7701	8.53	-13.25	8.72	40.34	39.40	192.07	38.10	116.76	63.73	193.67	26.58	197.30	75.99	173.13	132.67
7702	9.44	-12.81	8.72	38.38	43.53	192.66	37.65	109.36	63.44	194.01	26.16	183.55	82.46	188.33	141.90
7703	0.54	-16.43	8.72	68.06	12.83	189.65	40.20	164.32	55.81	150.79	23.82	294.40	19.33	85.50	82.74
7704	1.61	-16.36	8.72	64.26	13.45	192.15	41.11	159.75	54.22	154.10	24.29	297.14	22.20	86.51	85.03
7705	2.67	-16.24	8.72	60.30	15.61	194.47	41.77	154.57	53.85	156.95	24.59	296.13	26.04	90.56	88.45
7706	3.73	-16.05	8.72	56.28	18.76	196.52	42.17	148.84	54.47	159.32	24.64	291.19	30.63	97.47	92.96
7707	4.77	-15.80	8.72	52.28	22.47	198.22	42.30	142.62	55.77	161.22	24.45	282.27	35.75	106.79	98.53
7708	5.79	-15.48	8.72	48.38	26.46	199.49	42.16	135.96	57.46	162.64	24.03	269.49	41.27	117.94	105.12
7709	6.79	-15.11	8.72	44.64	30.59	200.31	41.76	128.95	59.27	163.60	23.46	253.20	47.10	130.34	112.67
7710	7.76	-14.68	8.72	41.14	34.79	200.69	41.12	121.67	60.97	164.05	22.90	234.22	53.15	143.45	121.04
7711	8.71	-14.20	8.72	37.94	39.04	200.70	40.26	114.23	62.40	163.95	22.64	214.11	59.35	156.78	130.03
7712	9.62	-13.66	8.72	35.10	43.32	200.45	39.23	106.73	63.44	163.38	23.17	195.88	65.55	169.82	139.22
7713	13.81	-9.42	8.72	27.83	70.66	195.80	32.98	72.52	56.06	155.46	71.70	327.40	102.86	225.02	171.59
7714	13.27	-10.26	8.72	26.79	65.64	197.26	33.34	76.36	59.44	148.43	55.88	280.47	94.45	215.83	169.82
7715	12.67	-11.05	8.72	28.22	60.95	198.46	34.52	80.98	61.96	154.46	44.35	237.86	89.06	209.86	167.26
7716	12.														



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
7743	3.34	-9.67	7.03	62.83	27.99	160.25	27.34	171.11	124.70	311.93	55.29	212.80	76.58	135.26	135.63
7744	4.30	-9.65	7.03	64.70	29.87	163.91	28.61	166.10	119.70	333.03	55.55	208.24	86.80	153.15	133.91
7745	5.25	-9.62	7.03	67.07	32.16	167.95	30.03	160.33	114.86	355.70	55.12	201.62	97.87	173.35	133.36
7746	6.20	-9.58	7.03	69.91	34.83	172.30	31.66	153.86	110.13	379.92	53.87	193.09	109.84	196.08	134.27
7747	7.14	-9.54	7.03	73.14	37.86	176.91	33.53	146.79	105.45	405.58	51.68	183.14	122.84	221.66	136.95
7748	8.08	-9.50	7.03	76.67	41.28	181.82	35.67	139.26	100.72	432.37	48.49	173.05	136.92	250.48	141.76
7749	9.02	-9.44	7.03	80.34	45.17	187.15	38.09	131.49	95.86	459.53	44.44	165.86	152.08	283.06	149.06
7750	0.50	-11.13	7.03	61.22	25.01	168.15	28.11	181.10	131.45	236.25	48.51	232.42	48.40	89.75	138.40
7751	1.48	-11.11	7.03	60.48	25.12	170.12	29.13	178.32	126.54	250.61	49.50	234.01	57.06	99.84	136.44
7752	2.47	-11.07	7.03	60.16	25.99	172.63	30.17	174.68	121.78	265.97	50.12	233.48	66.35	112.23	133.13
7753	3.45	-11.02	7.03	60.31	27.55	175.58	31.23	170.20	117.20	282.43	50.26	230.70	76.32	126.85	131.67
7754	4.43	-10.95	7.03	60.99	29.69	178.83	32.36	164.94	112.79	300.08	49.83	225.56	87.03	143.67	131.27
7755	5.41	-10.86	7.03	62.17	32.30	182.29	33.61	158.93	108.53	319.00	48.70	218.07	98.58	162.74	132.17
7756	6.37	-10.75	7.03	63.85	35.31	185.89	35.04	152.25	104.38	339.18	46.82	208.39	111.06	184.16	134.66
7757	7.33	-10.63	7.03	65.97	38.68	189.62	36.67	144.99	100.27	360.55	44.19	197.09	124.56	208.14	139.00
7758	8.28	-10.49	7.03	68.46	42.44	193.52	38.55	137.29	96.12	382.84	41.00	185.54	139.16	234.96	145.51
7759	9.22	-10.33	7.03	71.20	46.67	197.73	40.69	129.37	91.83	405.58	37.90	176.93	154.86	265.04	154.50
7760	0.51	-12.55	7.03	62.88	23.80	184.63	32.09	180.96	120.42	215.23	44.64	253.58	43.34	85.15	129.73
7761	1.53	-12.52	7.03	61.21	23.92	186.73	33.09	177.85	116.08	226.85	45.14	255.52	52.02	93.41	127.79
7762	2.55	-12.46	7.03	59.80	24.92	189.17	34.04	173.90	111.99	239.15	45.22	255.00	61.28	104.31	126.65
7763	3.56	-12.37	7.03	58.74	26.73	191.84	34.96	169.15	108.15	252.22	44.77	251.85	71.19	117.63	126.49
7764	4.57	-12.24	7.03	58.10	29.18	194.62	35.88	163.62	104.55	266.12	43.74	245.96	81.82	133.20	127.52
7765	5.56	-12.09	7.03	57.91	32.15	197.43	36.87	157.37	101.12	280.93	42.09	237.33	93.25	150.92	129.93
7766	6.54	-11.92	7.03	58.19	35.54	200.21	37.96	150.47	97.82	296.65	39.86	226.16	105.56	170.76	132.96
7767	7.51	-11.71	7.03	58.93	39.30	202.97	39.21	143.03	94.56	313.21	37.24	213.04	118.87	192.76	139.83
7768	8.47	-11.48	7.03	60.11	43.45	205.76	40.66	135.17	91.26	330.40	34.79	199.48	133.25	217.10	147.78
7769	9.41	-11.22	7.03	61.64	48.04	208.72	42.33	127.09	87.85	347.74	33.86	188.75	148.89	244.06	158.03
7770	0.53	-13.97	7.03	65.40	21.92	202.06	36.02	180.78	106.88	195.08	39.77	278.83	35.22	80.88	119.26
7771	1.58	-13.93	7.03	62.99	22.08	204.22	36.97	177.29	103.22	204.07	39.93	281.15	43.42	87.01	118.44
7772	2.63	-13.84	7.03	60.64	23.28	206.52	37.81	172.99	100.00	213.42	39.65	280.56	52.15	96.19	118.61
7773	3.67	-13.71	7.03	58.46	25.40	208.84	38.56	167.91	97.19	223.19	38.87	276.88	61.48	108.09	119.90
7774	4.70	-13.54	7.03	56.54	28.24	211.08	39.24	162.09	94.70	233.42	37.56	269.96	71.46	122.33	122.45
7775	5.71	-13.33	7.03	54.94	31.61	213.16	39.88	155.59	92.47	244.17	35.75	259.82	82.17	138.63	126.41
7776	6.72	-13.09	7.03	53.73	35.40	215.04	40.53	148.48	90.41	255.45	33.62	246.68	93.68	156.79	131.95
7777	7.70	-12.80	7.03	52.96	39.55	216.75	41.25	140.86	88.41	267.24	31.58	231.20	106.08	176.71	139.18
7778	8.66	-12.47	7.03	52.64	44.05	218.34	42.09	132.85	86.35	279.34	30.61	214.95	119.43	198.39	148.22
7779	9.60	-12.11	7.03	52.75	49.00	219.99	43.10	124.64	84.12	291.33	32.43	201.33	133.77	221.94	159.15
7780	0.54	-15.39	7.03	68.68	19.37	220.02	39.91	180.51	90.26	176.63	33.61	308.74	25.17	77.33	107.20
7781	1.63	-15.34	7.03	65.70	19.61	222.17	40.80	176.58	87.49	183.31	33.64	311.45	32.27	81.00	107.67
7782	2.70	-15.23	7.03	62.61	21.11	224.26	41.55	171.87	85.47	190.05	33.30	310.69	39.94	88.24	109.32
7783	3.77	-15.06	7.03	59.51	23.65	226.16	42.12	166.42	84.09	196.89	32.54	306.24	48.19	98.60	112.20
7784	4.83	-14.85	7.03	56.49	26.93	227.78	42.54	160.28	83.22	203.84	31.34	297.97	57.04	111.52	116.39
7785	5.86	-14.58	7.03	53.63	30.72	229.08	42.82	153.51	82.70	210.95	29.81	285.88	66.55	126.49	121.94
7786	6.88	-14.26	7.03	51.02	34.90	230.01	43.00	146.19	82.38	218.23	28.18	270.22	76.78	143.11	128.90
7787	7.88	-13.89	7.03	48.76	39.37	230.62	43.11	138.42	82.09	225.69	27.04	251.72	87.79	161.10	137.30
7788	8.85	-13.47	7.03	46.93	44.15	231.00	43.22	130.32	81.68	233.30	27.48	232.05	99.60	180.31	147.11
7789	9.79	-13.00	7.03	45.59	49.26	231.29	43.38	122.06	81.00	240.74	31.04	214.72	112.14	200.71	158.20
7790	0.56	-16.81	7.03	72.51	16.46	237.69	43.80	180.05	70.61	160.47	26.30	343.48	17.86	74.76	95.32
7791	1.67	-16.75	7.03	69.11	16.88	239.76	44.67	175.59	69.12	165.25	26.40	346.58	22.03	75.64	97.30
7792	2.78	-16.61	7.03	65.46	18.81	241.57	45.33	170.41	68.83	169.86	26.30	345.55	27.38	80.64	100.53
7793	3.87	-16.41	7.03	61.65	21.86	243.01	45.76	164.55	69.51	174.30	25.91	340.12	33.65	89.37	105.01
7794	4.95	-16.15	7.03	57.76	25.62	244.01	45.95	158.07	70.87	178.57	25.22	330.15	40.72	101.05	110.73
7795	6.01	-15.82	7.03	53.88	29.82	244.53	45.90	151.03	72.63	182.66	24.31	315.66	48.52	114.89	117.67
7796	7.05	-15.43	7.03	50.12	34.31	244.56	45.61	143.52	74.52	186.60	23.41	296.94	57.05	130.26	125.81
7797	8.06	-14.98	7.03	46.58	39.01	244.15	45.12	135.66	76.29	190.38	23.05	274.77	66.34	146.71	135.05
7798	9.04	-14.46	7.03	43.39	43.91	243.37	44.48	127.55	77.76	194.08	24.21	250.92	76.42	163.92	145.25
7799	9.98	-13.89	7.03	40.70	49.06	242.42	43.76	119.36	78.76	198.05	28.15	229.06	87.28	181.72	156.16
7800	14.30	-9.45	7.03	38.38	91.47	246.30	44.75	87.02	65.12	226.77	147.85	508.34	177.51	322.32	214.90
7801	13.74	-10.32	7.03	44.79	83.80	243.32	45.98	89.33	71.88	263.80	123.22	406.16	174.40	302.53	206.75
7802	13.13	-11.16	7.03	38.55	74.83	240.79	43.39	92.12	75.90	224.29	90.37	313.13	144.60	263.75	197.96
7803	13.43	-9.39	7.03	69.01	79.85	235.33	49.71	100.70	68.31	415.27	101.02	422.27	211.04	436.62	220.54
7804	13.04	-10.15	7.03	59.54	74.73	232.38	48.38	97.46	71.73	355.17	86.25	335.86	196.15	355.69	215.10
7805	12.61	-10.88	7.03	50.45	70.28	232.58	46.40	98.08	74.85	297.61	75.98	278.10	173.80	298.29	203.43
7806	12.57	-9.33	7.03	82.69	68.70	219.85	48.88	106.13	73.89	493.89	60.52	308.16	210.62	432.74	205.11
7807	12.35	-9.98	7.03	70.93	67.44	221.92	48.72	103.99	74.83	421.46	61.85	273.53	203.26	370.99	205.62
7808	12.10	-10.61	7.03	60.29	65.73	224.48	47.55	103.81	76.20	355.66	61.30	246.29	187.63	320.35	199.43
7809	10.86	-13.28	7.03	38.68	54.49	241.41	43.10	111.52	79.22	201.48	36.52	216.24	98.53	200.00	167.38
7810	10.62	-12.52	7.03	44.92	54.37	231.47	43.62	114.59	80.12	247.69	38.77	206.36	124.70	221.03	169.55
7811	10.39	-11.77	7.03	53.15	53.65	221.52	44.08	117.56	82.04	301.41	37.89	196.48	146.63	243.83	170.08
7812	11.67	-12.63	7.03	37.40	60.31	240.51	42.66	104.26	78.96	205.39	48.32	221.15	110.96	218.81	178.44
7813	11.35	-12.03	7.03	45.04	59.39	231.70	44.09	108.09	78.90	256.45	48.73	211.74	137.8		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
7841	4.58	-11.04	5.34	66.22	33.66	205.68	35.24	183.76	134.65	323.93	49.71	257.71	98.28	128.92	145.71
7842	5.59	-10.95	5.34	66.56	36.13	209.64	37.01	177.13	130.84	351.07	48.48	250.16	113.00	146.47	145.59
7843	6.59	-10.84	5.34	71.80	39.15	213.82	39.10	169.64	127.10	381.84	46.55	240.06	129.69	166.40	146.81
7844	7.58	-10.71	5.34	76.08	42.73	218.12	41.62	161.35	123.34	416.96	44.06	227.65	148.84	189.11	149.73
7845	8.56	-10.56	5.34	81.63	46.92	222.53	44.72	152.40	119.48	457.46	41.53	213.79	171.14	215.28	154.76
7846	9.53	-10.40	5.34	88.78	51.86	227.08	48.65	142.94	115.41	505.01	40.37	200.77	197.53	246.01	162.49
7847	0.53	-12.73	5.34	65.44	29.76	215.67	34.51	199.65	140.10	220.19	46.21	288.30	48.05	75.28	145.61
7848	1.58	-12.69	5.34	64.26	29.68	217.59	35.61	196.61	136.25	234.03	46.51	290.46	57.63	82.85	143.34
7849	2.64	-12.63	5.34	63.34	30.36	220.04	36.76	192.61	132.65	249.33	46.36	290.12	68.16	93.12	141.75
7850	3.68	-12.53	5.34	62.78	31.80	222.85	37.95	187.64	129.30	266.33	45.68	287.06	79.80	105.80	140.99
7851	4.72	-12.41	5.34	62.70	33.96	225.89	39.24	181.75	126.16	285.28	44.42	281.09	92.76	120.68	141.23
7852	5.75	-12.25	5.34	63.23	36.78	229.05	40.68	174.97	123.17	306.50	42.59	272.11	107.32	137.69	142.69
7853	6.77	-12.06	5.34	64.51	40.22	232.24	42.37	167.38	120.25	330.40	40.36	260.17	123.83	156.88	145.63
7854	7.77	-11.85	5.34	66.69	44.28	235.40	44.44	159.05	117.33	357.49	38.29	245.64	142.79	178.49	150.35
7855	8.76	-11.60	5.34	69.99	49.02	238.52	47.06	150.11	114.30	388.50	37.73	229.63	164.90	203.01	157.21
7856	9.74	-11.33	5.34	74.67	54.62	241.65	50.50	140.72	111.05	424.44	41.31	214.93	191.44	231.36	166.70
7857	0.55	-14.22	5.34	68.40	28.30	239.32	39.10	198.73	126.47	199.74	42.28	318.24	39.19	70.82	134.91
7858	1.63	-14.17	5.34	66.34	28.24	241.24	40.11	195.35	123.23	210.38	42.16	320.77	48.22	76.41	133.71
7859	2.72	-14.08	5.34	64.32	29.09	243.41	41.08	191.03	120.43	221.97	41.60	320.27	58.10	85.39	133.40
7860	3.79	-13.95	5.34	62.43	30.82	245.68	42.01	185.79	118.01	234.66	40.53	316.47	68.97	97.29	134.10
7861	4.86	-13.77	5.34	60.79	33.36	247.96	42.93	179.67	115.91	248.62	38.97	309.19	81.02	111.63	135.95
7862	5.91	-13.55	5.34	59.53	36.61	250.13	43.90	172.71	114.04	264.03	37.04	298.32	94.49	128.10	139.12
7863	6.95	-13.29	5.34	58.79	40.52	252.12	44.98	165.00	112.29	281.14	35.17	283.97	109.69	146.53	143.81
7864	7.97	-12.99	5.34	58.74	45.05	253.90	46.31	156.62	110.55	300.28	34.37	266.65	127.01	166.96	150.22
7865	8.97	-12.65	5.34	59.58	50.28	255.49	48.06	147.69	108.69	321.83	36.61	247.74	147.03	189.66	158.62
7866	9.94	-12.27	5.34	61.52	56.45	257.00	50.45	138.38	106.56	346.22	44.72	230.49	170.56	215.23	169.36
7867	0.56	-15.71	5.34	72.22	25.33	265.00	43.55	197.86	109.14	181.58	36.72	353.81	27.66	66.83	122.41
7868	1.68	-15.65	5.34	69.49	25.38	266.79	44.45	194.05	106.70	189.46	36.43	356.72	35.62	69.83	122.51
7869	2.80	-15.54	5.34	66.60	26.55	268.52	45.23	189.35	104.98	197.83	35.78	355.92	44.33	77.17	123.71
7870	3.91	-15.36	5.34	63.65	28.75	270.08	45.87	183.78	103.89	206.76	34.72	351.13	53.91	88.17	126.10
7871	5.00	-15.14	5.34	60.73	31.82	271.37	46.40	177.38	103.28	216.34	33.29	342.12	64.48	102.02	129.76
7872	6.07	-14.85	5.34	57.94	35.60	272.32	46.84	170.22	103.02	226.64	31.70	328.84	76.23	118.07	134.77
7873	7.13	-14.52	5.34	55.43	39.97	272.88	47.24	162.37	102.92	237.81	30.51	311.45	89.38	135.92	141.24
7874	8.16	-14.13	5.34	53.37	44.89	273.07	47.69	153.94	102.84	250.03	30.91	290.59	104.20	155.38	149.25
7875	9.17	-13.69	5.34	51.94	50.42	272.94	48.34	145.07	102.61	263.61	34.81	267.90	121.05	176.46	158.92
7876	10.14	-13.20	5.34	51.38	56.71	272.61	49.35	135.91	102.06	278.69	44.19	247.10	140.28	199.51	170.36
7877	0.58	-17.20	5.34	76.62	21.29	291.20	47.73	196.76	87.18	166.38	29.78	393.96	17.38	63.73	109.11
7878	1.73	-17.13	5.34	73.39	21.57	292.73	48.55	192.44	85.86	172.05	29.58	397.23	22.80	63.45	110.72
7879	2.88	-16.99	5.34	69.86	23.27	293.88	49.18	187.28	85.74	177.84	29.17	396.02	29.37	68.61	113.63
7880	4.02	-16.78	5.34	66.10	26.14	294.57	49.59	181.32	86.59	183.77	28.48	390.00	36.95	78.55	117.84
7881	5.14	-16.50	5.34	62.19	29.85	294.73	49.77	174.62	88.15	189.84	27.53	378.94	45.51	92.00	123.36
7882	6.24	-16.15	5.34	58.25	34.17	294.32	49.73	167.25	90.12	196.06	26.51	362.82	55.10	107.87	130.21
7883	7.31	-15.74	5.34	54.39	38.94	293.35	49.50	159.29	92.26	202.48	25.91	341.87	65.82	125.44	138.38
7884	8.36	-15.27	5.34	50.75	44.10	291.85	49.12	150.87	94.33	209.16	26.74	316.85	77.85	144.28	147.86
7885	9.37	-14.73	5.34	47.52	49.69	289.91	48.70	142.12	96.12	216.33	30.56	289.60	91.39	164.22	158.60
7886	10.34	-14.13	5.34	44.93	55.86	287.72	48.38	133.20	97.46	224.76	38.93	264.22	106.72	185.26	170.53
7887	14.78	-9.47	5.34	170.31	160.63	311.23	120.60	125.65	77.67	967.51	435.36	834.95	568.24	682.69	308.05
7888	14.21	-10.38	5.34	69.50	120.12	284.70	73.34	99.63	89.72	402.68	256.47	514.56	306.68	380.25	258.28
7889	13.59	-11.26	5.34	51.04	96.64	282.02	56.84	102.86	95.02	303.57	161.56	379.22	212.30	302.48	231.89
7890	13.89	-9.40	5.34	172.86	100.50	263.97	91.00	115.98	86.18	990.31	155.64	448.98	431.57	580.76	267.19
7891	13.49	-10.20	5.34	109.81	98.69	266.95	81.06	106.99	90.81	629.78	172.22	377.94	368.70	415.19	252.19
7892	13.05	-10.97	5.34	71.47	89.76	269.75	65.68	107.92	95.29	418.75	142.26	315.27	274.59	326.51	228.35
7893	13.00	-9.34	5.34	157.72	80.29	245.71	74.80	114.31	95.55	903.42	85.62	297.00	350.42	480.38	225.80
7894	12.77	-10.03	5.34	120.65	81.68	252.33	73.75	112.39	96.27	692.87	103.63	281.73	337.63	399.08	226.11
7895	12.52	-10.69	5.34	89.45	80.99	258.45	67.73	113.27	97.89	518.66	109.87	265.51	295.26	336.58	216.91
7896	11.25	-13.49	5.34	43.29	62.84	285.41	48.40	124.57	98.25	233.78	54.09	249.00	123.82	207.68	183.24
7897	11.00	-12.69	5.34	51.96	63.51	272.05	50.86	127.50	101.26	294.94	60.03	235.80	161.37	223.38	182.49
7898	10.76	-11.90	5.34	64.27	62.66	258.25	53.19	130.22	104.46	370.37	58.27	221.97	194.16	240.20	180.66
7899	12.09	-12.80	5.34	42.89	70.93	283.22	49.15	116.47	98.28	245.32	75.10	255.05	144.20	232.29	197.10
7900	11.75	-12.18	5.34	54.08	70.73	271.39	53.28	120.05	100.05	315.90	79.75	240.12	186.04	248.78	195.44
7901	11.42	-11.56	5.34	68.25	68.67	259.30	56.40	123.50	102.40	398.13	74.36	224.82	218.70	264.51	192.14
7902	12.88	-12.07	5.34	43.84	81.31	281.79	51.31	108.97	97.47	259.65	106.95	294.81	170.69	262.42	212.23
7903	12.47	-11.63	5.34	58.04	79.76	271.28	57.44	113.06	98.17	343.20	107.89	267.89	219.25	279.67	210.16
7904	12.07	-11.20	5.34	73.80	75.13	260.63	61.10	117.11	99.98	431.64	91.27	242.68	251.46	293.81	205.19
7905	0.57	1.65	4.00	65.73	27.19	119.11	4.12	227.19	204.04	338.37	50.33	205.80	13.46	84.91	204.05
7906	0.57	0.55	4.00	65.94	27.11	116.59	1.93	227.43	204.82	340.56	50.33	204.22	4.72	85.09	204.82
7907	0.57	-0.55	4.00	65.94	27.11	116.59	1.93	227.43	204.82	340.56	50.32	204.22	4.71	85.09	204.82
7908	0.57	-1.65	4.00	65.73	27.19	119.11	4.11	227.19	204.05	338.36	50.32	205.81	13.45	84.90	204.05
7909	1.71	1.65	4.00	72.73	27.54	120.80	4.15	224.63	197.57	379.65	53.68	206.39	15.37	96.75	197.59
7910	1.71	0.55	4.00	73.10	27.48	118.28	1.39	224.87	198.28	382.36	53.65	204.79	5.15	97.04	198.28
7911	1.71	-0.55	4.00	73.10	27.48	118.28	1.40	224.87	198.						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
7939	9.71	-0.55	4.00	169.51	53.75	176.33	1.96	159.86	152.29	953.89	45.30	133.06	6.58	219.71	152.35
7940	9.68	-1.65	4.00	168.57	53.17	177.64	5.44	160.09	152.13	948.44	44.67	135.97	20.53	218.97	152.67
7941	10.82	1.65	4.00	195.06	61.90	185.79	6.35	145.24	145.04	1098.47	61.06	116.64	16.83	246.67	145.92
7942	10.86	0.55	4.00	195.99	62.50	184.59	4.83	144.90	145.10	1103.47	64.32	113.59	6.85	247.49	145.20
7943	10.86	-0.55	4.00	195.99	62.50	184.59	4.85	144.90	145.10	1103.47	64.32	113.58	6.81	247.49	145.20
7944	10.82	-1.65	4.00	195.06	61.90	185.78	6.38	145.24	145.06	1098.47	61.06	116.63	16.77	246.68	145.94
7945	11.95	1.65	4.00	228.40	72.58	193.27	10.61	129.77	137.29	1281.93	101.13	113.17	13.95	278.42	138.76
7946	12.00	0.55	4.00	229.33	73.08	192.15	10.87	129.32	137.21	1286.21	105.84	111.54	11.17	279.31	137.38
7947	12.00	-0.55	4.00	229.33	73.08	192.15	10.88	129.32	137.22	1286.21	105.84	111.53	11.15	279.31	137.38
7948	11.95	-1.65	4.00	228.40	72.59	193.27	10.62	129.78	137.31	1281.93	101.13	113.16	13.90	278.43	138.78
7949	13.09	1.65	4.00	271.90	85.39	200.53	19.42	114.42	128.42	1514.83	163.62	154.03	18.94	314.44	130.93
7950	13.14	0.55	4.00	272.78	85.72	199.45	20.90	113.88	128.15	1517.66	169.10	155.88	20.84	315.10	128.43
7951	13.14	-0.55	4.00	272.78	85.72	199.45	20.90	113.89	128.16	1517.66	169.10	155.89	20.84	315.10	128.43
7952	13.09	-1.65	4.00	271.90	85.40	200.54	19.43	114.43	128.44	1514.83	163.62	154.04	18.93	314.45	130.94
7953	14.23	1.65	4.00	331.34	100.57	208.81	34.46	100.62	117.55	1828.00	249.97	257.76	35.29	353.99	121.79
7954	14.28	0.55	4.00	331.97	100.94	207.71	37.01	100.01	116.96	1826.51	257.90	262.81	37.29	352.65	117.39
7955	14.28	-0.55	4.00	331.97	100.95	207.72	37.01	100.02	116.97	1826.51	257.90	262.81	37.29	352.65	117.39
7956	14.23	-1.65	4.00	331.34	100.57	208.82	34.46	100.63	117.57	1828.00	249.97	257.77	35.30	354.00	121.80
7957	15.37	1.65	4.00	417.21	118.96	221.57	59.48	91.23	102.60	2282.93	368.67	454.98	65.45	394.53	109.02
7958	15.43	0.55	4.00	417.48	119.76	220.32	63.08	90.20	101.46	2269.99	384.38	459.97	64.55	384.23	101.93
7959	15.43	-0.55	4.00	417.48	119.77	220.33	63.08	90.20	101.47	2270.00	384.37	459.98	64.56	384.23	101.93
7960	15.37	-1.65	4.00	417.21	118.97	221.59	59.48	91.23	102.62	2282.94	368.66	455.00	65.48	394.53	109.02
7961	16.51	1.65	4.00	547.37	143.95	256.81	103.20	90.62	77.13	2988.19	545.86	895.72	116.39	421.73	85.31
7962	16.57	0.55	4.00	549.26	144.53	254.86	107.64	88.27	76.42	2957.95	577.16	887.16	110.83	386.03	76.71
7963	16.57	-0.55	4.00	549.26	144.53	254.87	107.64	88.27	76.42	2957.95	577.16	887.17	110.85	386.04	76.70
7964	16.51	-1.65	4.00	547.37	143.95	256.83	103.20	90.63	77.15	2988.21	545.85	895.76	116.43	421.73	85.29
7965	17.65	1.65	4.00	761.03	182.48	365.89	192.76	146.96	17.50	4221.19	852.91	2045.20	204.99	757.76	17.03
7966	17.71	0.55	4.00	768.45	182.24	368.61	199.76	147.52	19.61	4186.59	918.23	2014.44	203.77	689.08	22.32
7967	17.71	-0.55	4.00	768.45	182.24	368.62	199.76	147.52	19.62	4186.60	918.22	2014.47	203.79	689.09	22.37
7968	17.65	-1.65	4.00	761.03	182.48	365.91	192.76	146.96	17.54	4221.23	852.91	2045.26	205.03	757.78	17.04
7969	0.58	1.65	3.00	63.80	26.27	128.78	3.75	243.47	216.13	321.69	44.01	218.23	13.10	75.53	216.13
7970	0.58	0.55	3.00	63.99	26.16	126.12	1.31	243.81	216.96	323.71	43.91	216.58	4.41	75.61	216.96
7971	0.58	-0.55	3.00	63.99	26.16	126.12	1.31	243.81	216.96	323.71	43.91	216.58	4.40	75.60	216.96
7972	0.58	-1.65	3.00	63.81	26.28	128.78	3.75	243.47	216.13	321.68	43.99	218.24	13.09	75.53	216.13
7973	1.73	1.65	3.00	70.95	26.62	130.92	4.24	240.98	210.12	363.13	47.20	218.48	15.08	82.95	210.12
7974	1.74	0.55	3.00	71.29	26.52	128.29	1.97	241.31	210.89	365.65	47.09	216.80	5.23	83.07	210.89
7975	1.74	-0.55	3.00	71.29	26.52	128.28	1.98	241.31	210.89	365.65	47.08	216.81	5.23	83.07	210.89
7976	1.73	-1.65	3.00	70.95	26.62	130.91	4.25	240.98	210.13	363.12	47.19	218.49	15.07	82.95	210.13
7977	2.89	1.65	3.00	79.30	27.63	136.29	5.19	236.67	204.00	411.93	49.89	216.68	17.27	90.31	204.00
7978	2.90	0.55	3.00	79.78	27.56	133.78	3.30	236.99	204.71	415.02	49.70	214.96	6.42	90.45	204.71
7979	2.90	-0.55	3.00	79.78	27.56	133.77	3.31	236.99	204.71	415.01	49.69	214.97	6.41	90.44	204.71
7980	2.89	-1.65	3.00	79.30	27.62	136.28	5.21	236.67	204.01	411.92	49.88	216.69	17.25	90.31	204.01
7981	4.04	1.65	3.00	89.05	29.38	144.21	6.12	230.56	197.83	469.33	51.67	212.54	19.42	97.62	197.83
7982	4.05	0.55	3.00	89.66	29.37	141.89	4.38	230.84	198.47	473.01	51.32	210.75	7.55	97.75	198.47
7983	4.05	-0.55	3.00	89.66	29.36	141.88	4.39	230.84	198.47	473.00	51.32	210.76	7.54	97.75	198.47
7984	4.04	-1.65	3.00	89.05	29.38	144.19	6.14	230.56	197.84	469.32	51.66	212.55	19.41	97.62	197.84
7985	5.19	1.65	3.00	100.45	31.97	153.87	6.83	222.65	191.63	536.79	52.03	205.69	21.32	104.85	191.64
7986	5.21	0.55	3.00	101.17	32.03	151.78	5.11	222.89	192.21	541.05	51.44	203.80	8.44	104.96	192.21
7987	5.21	-0.55	3.00	101.17	32.03	151.78	5.12	222.89	192.21	541.05	51.43	203.80	8.42	104.96	192.21
7988	5.19	-1.65	3.00	100.45	31.97	153.85	6.85	222.66	191.64	536.79	52.02	205.69	21.30	104.85	191.66
7989	6.35	1.65	3.00	113.84	35.50	164.49	7.22	213.01	185.41	616.07	50.46	195.66	22.68	111.89	185.45
7990	6.37	0.55	3.00	114.66	35.67	162.64	5.41	213.17	185.92	620.83	49.54	193.60	8.93	111.98	185.93
7991	6.37	-0.55	3.00	114.66	35.67	162.64	5.42	213.17	185.93	620.83	49.54	193.60	8.91	111.98	185.93
7992	6.35	-1.65	3.00	113.85	35.50	164.47	7.25	213.01	185.43	616.07	50.45	195.66	22.66	111.90	185.46
7993	7.50	1.65	3.00	129.71	40.13	175.40	7.19	201.70	179.16	709.28	46.79	181.92	23.12	118.54	179.25
7994	7.53	0.55	3.00	130.57	40.42	173.77	5.17	201.78	179.60	714.36	45.64	179.61	8.87	118.58	179.61
7995	7.53	-0.55	3.00	130.57	40.42	173.76	5.18	201.78	179.61	714.35	45.64	179.61	8.84	118.58	179.62
7996	7.50	-1.65	3.00	129.71	40.12	175.38	7.21	201.70	179.18	709.28	46.78	181.92	23.09	118.54	179.27
7997	8.66	1.65	3.00	148.67	46.04	186.02	6.60	188.86	172.84	819.03	42.69	164.03	22.21	124.33	173.03
7998	8.69	0.55	3.00	149.55	46.47	184.59	4.19	188.84	173.21	824.16	41.97	161.36	8.05	124.35	173.23
7999	8.69	-0.55	3.00	149.55	46.47	184.58	4.20	188.84	173.22	824.16	41.97	161.36	8.01	124.35	173.24
8000	8.66	-1.65	3.00	148.67	46.04	186.01	6.63	188.86	172.86	819.03	42.69	164.02	22.17	124.33	173.05
8001	9.81	1.65	3.00	171.61	53.49	195.95	5.46	174.71	166.42	948.68	45.37	142.53	19.59	128.43	166.82
8002	9.85	0.55	3.00	172.47	54.02	194.68	2.28	174.57	166.72	953.57	46.60	139.45	6.42	128.48	166.77
8003	9.85	-0.55	3.00	172.47	54.02	194.67	2.31	174.57	166.73	953.57	46.60	139.44	6.37	128.48	166.78
8004	9.81	-1.65	3.00	171.61	53.49	195.94	5.51	174.72	166.44	948.68	45.37	142.52	19.54	128.44	166.84
8005	10.97	1.65	3.00	199.85	62.75	204.95	5.04	159.58	159.90	1102.88	65.95	122.50	15.48	129.20	160.70
8006	11.00	0.55	3.00	200.70	63.25	203.79	2.92	159.30	160.14	1107.30	69.41	119.39	5.41	129.38	160.24
8007	11.00	-0.55	3.00	200.70	63.25	203.79	2.94	159.30	160.15	1107.30	69.41	119.38	5.36	129.38	160.25
8008	10.97	-1.65	3.00	199.85	62.75	204.94	5.09	159.58	159.92	1102.88	65.96	122.48	15.42	129.20	160.73
8009	12.12	1.65	3.00	235.42	73.99	213.06	9.12	143.97	153.34	12					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
8037	-1.71	-1.65	4.00	54.62	28.15	125.24	6.80	227.21	216.42	272.79	43.02	199.41	11.47	63.11	216.42
8038	-1.71	-0.55	4.00	54.50	28.04	123.02	6.09	227.40	217.32	274.15	42.97	197.83	6.84	62.98	217.32
8039	-1.71	0.55	4.00	54.50	28.04	123.02	6.10	227.40	217.32	274.16	42.97	197.83	6.84	62.98	217.32
8040	-1.71	1.65	4.00	54.62	28.15	125.24	6.82	227.21	216.42	272.80	43.03	199.39	11.48	63.12	216.42
8041	-2.85	-1.65	4.00	50.35	29.32	132.63	9.31	224.72	222.12	246.96	39.48	194.04	12.05	53.21	222.11
8042	-2.86	-0.55	4.00	50.06	29.19	130.66	8.92	224.87	223.07	248.01	39.37	192.47	9.29	52.83	223.07
8043	-2.86	0.55	4.00	50.05	29.19	130.66	8.93	224.87	223.07	248.01	39.37	192.46	9.29	52.84	223.07
8044	-2.85	1.65	4.00	50.34	29.31	132.62	9.33	224.72	222.12	246.97	39.49	194.03	12.06	53.22	222.12
8045	-3.98	-1.65	4.00	46.84	30.85	142.19	12.32	220.62	227.37	224.92	36.21	187.56	13.78	44.49	227.36
8046	-4.00	-0.55	4.00	46.38	30.70	140.49	12.12	220.70	228.36	225.71	36.04	185.99	12.30	43.77	228.36
8047	-4.00	0.55	4.00	46.38	30.70	140.49	12.12	220.70	228.36	225.72	36.05	185.98	12.30	43.78	228.36
8048	-3.98	1.65	4.00	46.83	30.84	142.17	12.33	220.62	227.37	224.94	36.22	187.55	13.79	44.51	227.36
8049	-5.12	-1.65	4.00	44.01	32.69	153.30	15.69	214.95	232.09	206.14	33.35	180.30	16.40	38.03	232.08
8050	-5.14	-0.55	4.00	43.39	32.53	151.88	15.61	214.94	233.12	206.72	33.13	178.72	15.70	36.87	233.12
8051	-5.14	0.55	4.00	43.39	32.52	151.87	15.62	214.94	233.12	206.72	33.13	178.72	15.70	36.88	233.12
8052	-5.12	1.65	4.00	44.01	32.68	153.29	15.70	214.95	232.10	206.15	33.36	180.29	16.40	38.05	232.08
8053	-6.26	-1.65	4.00	41.79	34.80	165.41	19.33	207.80	236.27	190.07	31.05	172.69	19.61	35.56	236.25
8054	-6.28	-0.55	4.00	41.01	34.62	164.23	19.34	207.68	237.32	190.49	30.77	171.11	19.37	33.98	237.32
8055	-6.28	0.55	4.00	41.01	34.62	164.22	19.34	207.68	237.32	190.50	30.77	171.10	19.37	33.98	237.32
8056	-6.26	1.65	4.00	41.78	34.79	165.39	19.34	207.80	236.28	190.09	31.06	172.67	19.62	35.57	236.26
8057	-7.40	-1.65	4.00	40.05	37.13	178.06	23.16	199.28	239.92	176.21	29.44	165.36	23.21	38.34	239.88
8058	-7.43	-0.55	4.00	39.14	36.94	177.09	23.23	199.02	240.96	176.50	29.10	163.79	23.24	36.58	240.96
8059	-7.43	0.55	4.00	39.14	36.94	177.08	23.23	199.02	240.97	176.51	29.10	163.79	23.24	36.59	240.96
8060	-7.40	1.65	4.00	40.05	37.12	178.05	23.17	199.28	239.92	176.24	29.44	165.34	23.21	38.35	239.89
8061	-8.54	-1.65	4.00	38.68	39.67	190.93	27.14	189.55	243.06	163.98	28.63	159.32	27.06	45.76	243.02
8062	-8.57	-0.55	4.00	37.65	39.47	190.13	27.25	189.13	244.10	164.17	28.26	157.79	27.24	44.08	244.10
8063	-8.57	0.55	4.00	37.65	39.46	190.12	27.25	189.13	244.10	164.19	28.26	157.79	27.24	44.09	244.10
8064	-8.54	1.65	4.00	38.68	39.66	190.91	27.15	189.55	243.07	164.01	28.63	159.30	27.06	45.78	243.03
8065	-9.68	-1.65	4.00	37.54	42.37	203.80	31.24	178.79	245.80	152.74	28.71	156.14	31.09	56.18	245.75
8066	-9.71	-0.55	4.00	36.39	42.17	203.14	31.38	178.20	246.81	152.86	28.34	154.72	31.36	54.66	246.81
8067	-9.71	0.55	4.00	36.39	42.17	203.13	31.38	178.20	246.82	152.88	28.33	154.71	31.36	54.66	246.81
8068	-9.68	1.65	4.00	37.54	42.37	203.79	31.24	178.80	245.81	152.78	28.70	156.13	31.08	56.19	245.76
8069	-10.82	-1.65	4.00	36.45	45.24	216.63	35.44	167.25	248.23	141.77	29.68	158.09	35.27	68.15	248.17
8070	-10.86	-0.55	4.00	35.20	45.03	216.06	35.61	166.46	249.21	141.82	29.32	156.86	35.59	66.79	249.21
8071	-10.86	0.55	4.00	35.20	45.03	216.06	35.61	166.47	249.22	141.84	29.32	156.86	35.59	66.80	249.21
8072	-10.82	1.65	4.00	36.45	45.24	216.62	35.44	167.26	248.23	141.82	29.67	158.08	35.26	68.17	248.18
8073	-11.95	-1.65	4.00	35.26	48.25	229.51	39.76	155.17	250.47	130.21	31.44	167.90	39.59	80.63	250.41
8074	-12.00	-0.55	4.00	33.90	48.04	229.01	39.96	154.17	251.42	130.19	31.13	167.01	39.94	79.42	251.41
8075	-12.00	0.55	4.00	33.91	48.04	229.00	39.95	154.18	251.42	130.21	31.12	167.01	39.93	79.43	251.42
8076	-11.95	1.65	4.00	35.26	48.25	229.50	39.76	155.19	250.47	130.28	31.43	167.89	39.58	80.66	250.41
8077	-13.09	-1.65	4.00	33.77	51.39	242.69	44.19	142.77	252.62	117.13	33.85	188.04	44.05	92.63	252.56
8078	-13.14	-0.55	4.00	32.29	51.19	242.24	44.41	141.54	253.54	117.00	33.59	187.64	44.40	91.53	253.53
8079	-13.14	0.55	4.00	32.29	51.19	242.24	44.42	141.55	253.54	117.02	33.59	187.64	44.40	91.55	253.54
8080	-13.09	1.65	4.00	33.78	51.39	242.70	44.19	142.79	252.62	117.22	33.84	188.03	44.04	92.68	252.56
8081	-14.23	-1.65	4.00	31.78	54.67	256.52	48.71	130.10	254.74	101.60	36.67	219.78	48.62	102.88	254.69
8082	-14.28	-0.55	4.00	30.15	54.47	256.11	48.97	128.64	255.65	101.28	36.49	220.01	48.96	101.84	255.65
8083	-14.28	0.55	4.00	30.15	54.48	256.12	48.98	128.65	255.66	101.30	36.50	220.01	48.96	101.86	255.65
8084	-14.23	1.65	4.00	31.79	54.68	256.55	48.72	130.14	254.76	101.69	36.68	219.79	48.62	102.94	254.70
8085	-15.37	-1.65	4.00	29.25	58.11	271.23	53.26	116.99	256.84	83.19	39.69	262.70	53.25	109.77	256.79
8086	-15.43	-0.55	4.00	27.40	57.92	270.88	53.59	115.26	257.76	82.57	39.60	263.67	53.59	108.71	257.75
8087	-15.43	0.55	4.00	27.40	57.92	270.90	53.60	115.28	257.77	82.60	39.62	263.68	53.59	108.74	257.77
8088	-15.37	1.65	4.00	29.26	58.12	271.29	53.29	117.03	256.87	83.27	39.74	262.74	53.26	109.85	256.83
8089	-16.51	-1.65	4.00	26.33	61.75	286.65	57.81	103.01	258.74	62.14	42.70	314.59	57.87	111.52	258.73
8090	-16.57	-0.55	4.00	24.20	61.53	286.40	58.23	100.96	259.79	61.07	42.70	316.37	58.24	110.29	259.78
8091	-16.57	0.55	4.00	24.20	61.54	286.43	58.24	100.98	259.81	61.08	42.74	316.40	58.25	110.32	259.81
8092	-16.51	1.65	4.00	26.34	61.76	286.75	57.85	103.05	258.81	62.19	42.79	314.68	57.90	111.61	258.80
8093	-17.65	-1.65	4.00	23.70	65.60	302.42	62.51	87.93	260.72	40.02	46.00	374.46	62.64	106.94	260.75
8094	-17.71	-0.55	4.00	21.32	65.44	302.30	62.88	85.50	261.56	38.27	46.06	377.07	62.89	105.39	261.57
8095	-17.71	0.55	4.00	21.32	65.45	302.35	62.89	85.51	261.60	38.27	46.10	377.11	62.90	105.40	261.61
8096	-17.65	1.65	4.00	23.70	65.63	302.58	62.54	87.96	260.82	40.04	46.12	374.60	62.66	106.99	260.86
8097	-0.58	-1.65	3.00	57.73	26.53	130.24	4.40	244.17	221.95	286.58	40.60	216.19	11.62	68.04	221.95
8098	-0.58	-0.55	3.00	57.75	26.39	127.68	2.96	244.49	222.84	288.17	40.50	214.54	4.67	68.04	222.84
8099	-0.58	0.55	3.00	57.75	26.39	127.68	2.97	244.49	222.84	288.17	40.50	214.54	4.68	68.04	222.84
8100	-0.58	1.65	3.00	57.72	26.52	130.24	4.40	244.17	221.95	286.59	40.61	216.17	11.62	68.05	221.95
8101	-1.73	-1.65	3.00	52.62	27.28	135.25	6.24	243.07	227.50	256.94	37.24	212.54	11.04	60.52	227.50
8102	-1.74	-0.55	3.00	52.48	27.14	132.88	5.50	243.37	228.44	258.16	37.11	210.90	6.29	60.40	228.44
8103	-1.74	0.55	3.00	52.48	27.14	132.88	5.50	243.37	228.44	258.17	37.12	210.89	6.30	60.40	228.44
8104	-1.73	1.65	3.00	52.61	27.28	135.24	6.25	243.07	227.50	256.96	37.25	212.52	11.05	60.53	227.50
8105	-2.89	-1.65	3.00	48.40	28.48	143.35	8.86	240.22	232.70	232.04	34.12	207.50	11.67	53.11	232.69
8106	-2.90	-0.55	3.00	48.09	28.32	141.25	8.46	240.46	233.69	232.95	33.95	205.86	8.84	52.81	233.69
8107	-2.90	0.55	3.00	48.09	28.32	141.24	8.46	240.46	233.69	232.96	33.95	205.85	8.84	52.82	233.69
8108	-2.89	1.65	3.00	48.39	28.47	143.34	8.87								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
8135	-11.00	0.55	3.00	35.92	44.62	234.39	36.12	176.43	257.01	140.71	30.73	166.37	36.10	64.41	257.00
8136	-10.97	1.65	3.00	37.15	44.87	234.98	35.97	177.15	256.02	140.73	31.06	167.75	35.80	65.83	255.96
8137	-12.12	-1.65	3.00	36.75	47.99	248.64	40.65	164.15	257.90	131.89	33.92	176.19	40.48	79.45	257.84
8138	-12.16	-0.55	3.00	35.44	47.74	248.11	40.81	163.22	258.86	131.87	33.62	175.11	40.80	78.19	258.85
8139	-12.16	0.55	3.00	35.44	47.73	248.11	40.81	163.22	258.86	131.90	33.62	175.10	40.79	78.19	258.85
8140	-12.12	1.65	3.00	36.76	47.99	248.63	40.64	164.16	257.91	131.97	33.91	176.17	40.47	79.47	257.84
8141	-13.27	-1.65	3.00	36.12	51.24	262.63	45.49	151.13	259.75	121.45	37.30	196.06	45.34	93.71	259.69
8142	-13.32	-0.55	3.00	34.73	50.98	262.13	45.69	149.96	260.66	121.36	37.07	195.44	45.68	92.61	260.66
8143	-13.32	0.55	3.00	34.73	50.98	262.13	45.70	149.97	260.67	121.40	37.07	195.43	45.68	92.62	260.66
8144	-13.27	1.65	3.00	36.13	51.24	262.62	45.50	151.15	259.76	121.55	37.30	196.03	45.34	93.75	259.69
8145	-14.43	-1.65	3.00	34.89	54.60	277.66	50.44	138.35	261.68	107.87	41.00	229.91	50.34	107.22	261.62
8146	-14.48	-0.55	3.00	33.39	54.35	277.18	50.69	136.96	262.56	107.65	40.85	229.94	50.68	106.26	262.55
8147	-14.48	0.55	3.00	33.39	54.35	277.18	50.70	136.97	262.57	107.68	40.87	229.93	50.69	106.28	262.56
8148	-14.43	1.65	3.00	34.90	54.61	277.67	50.46	138.38	261.70	107.98	41.03	229.89	50.35	107.28	261.64
8149	-15.58	-1.65	3.00	32.48	58.08	294.29	55.31	125.46	263.70	89.52	44.64	278.00	55.29	117.27	263.64
8150	-15.64	-0.55	3.00	30.81	57.83	293.85	55.64	123.84	264.58	89.02	44.60	278.83	55.64	116.38	264.57
8151	-15.64	0.55	3.00	30.81	57.83	293.86	55.67	123.85	264.60	89.06	44.64	278.84	55.66	116.41	264.59
8152	-15.58	1.65	3.00	32.50	58.09	294.33	55.37	125.50	263.75	89.62	44.73	278.02	55.33	117.36	263.70
8153	-16.74	-1.65	3.00	29.23	61.73	312.57	59.99	111.66	265.65	67.31	48.11	338.22	60.07	121.07	265.63
8154	-16.80	-0.55	3.00	27.29	61.47	312.24	60.44	109.79	266.66	66.35	48.20	339.98	60.45	120.08	266.65
8155	-16.80	0.55	3.00	27.29	61.47	312.27	60.48	109.80	266.70	66.37	48.26	340.00	60.48	120.11	266.70
8156	-16.74	1.65	3.00	29.23	61.75	312.67	60.08	111.70	265.76	67.38	48.26	338.30	60.14	121.16	265.74
8157	-17.89	-1.65	3.00	25.23	65.53	331.02	64.49	95.98	267.54	41.61	51.01	405.21	64.65	117.12	267.57
8158	-17.95	-0.55	3.00	22.96	65.34	330.83	64.90	93.78	268.36	39.91	51.18	407.89	64.92	115.83	268.36
8159	-17.95	0.55	3.00	22.96	65.36	330.87	64.92	93.78	268.41	39.91	51.24	407.93	64.93	115.85	268.42
8160	-17.89	1.65	3.00	25.23	65.58	331.18	64.55	96.01	267.71	41.64	51.20	405.36	64.71	117.19	267.74
8161	0.57	2.50	4.00	65.47	27.32	122.65	6.05	226.86	202.94	335.35	50.38	208.06	20.18	84.67	202.96
8162	1.70	2.50	4.00	72.25	27.64	124.33	6.32	224.31	196.56	375.91	53.75	208.69	23.14	96.35	196.60
8163	2.83	2.50	4.00	80.17	28.60	128.75	6.93	220.06	190.14	423.29	56.59	207.30	26.33	108.88	190.19
8164	3.97	2.50	4.00	89.39	30.24	135.35	7.60	214.13	183.72	478.71	58.54	203.63	29.56	122.47	183.82
8165	5.10	2.50	4.00	100.16	32.65	143.48	8.20	206.51	177.36	543.59	59.09	197.39	32.56	137.41	177.52
8166	6.23	2.50	4.00	112.80	35.90	152.47	8.63	197.23	171.05	619.71	57.67	188.21	34.99	154.02	171.33
8167	7.36	2.50	4.00	127.75	40.12	161.76	8.84	186.37	164.75	709.24	53.78	175.66	36.33	172.67	165.22
8168	8.50	2.50	4.00	145.61	45.52	170.90	8.76	174.04	158.40	814.93	47.83	159.44	35.92	193.80	159.15
8169	9.63	2.50	4.00	167.20	52.37	179.54	8.47	160.39	151.86	940.45	44.40	140.01	33.04	217.92	153.08
8170	10.76	2.50	4.00	193.72	61.04	187.52	8.55	145.71	144.95	1091.05	56.83	120.88	27.27	245.55	146.93
8171	11.90	2.50	4.00	227.05	71.89	194.89	10.86	130.40	137.40	1275.35	94.66	115.69	19.74	277.15	140.68
8172	13.03	2.50	4.00	270.48	85.09	202.07	17.83	115.17	128.75	1509.35	156.93	151.87	17.62	313.07	134.43
8173	14.16	2.50	4.00	329.92	100.58	210.34	31.39	101.42	118.14	1825.22	243.11	250.79	30.94	353.63	128.48
8174	15.29	2.50	4.00	415.84	118.77	223.09	54.92	92.13	103.60	2287.61	356.98	444.46	58.32	399.68	123.18
8175	16.43	2.50	4.00	544.86	143.33	259.14	97.66	92.88	78.75	3009.56	522.82	896.01	104.50	450.53	116.57
8176	17.56	2.50	4.00	750.09	183.50	362.24	188.47	144.55	17.45	4225.96	792.07	2053.72	189.19	803.69	74.42
8177	0.56	3.10	4.00	65.20	27.44	125.96	7.47	226.53	201.87	332.30	50.37	210.23	24.79	84.40	201.90
8178	1.69	3.10	4.00	71.76	27.74	127.64	7.88	223.98	195.59	372.11	53.74	210.90	28.49	95.93	195.64
8179	2.82	3.10	4.00	79.47	28.66	131.94	8.57	219.76	189.25	418.65	56.64	209.56	32.48	108.32	189.34
8180	3.94	3.10	4.00	88.48	30.25	138.34	9.33	213.87	182.93	473.12	58.74	205.97	36.55	121.80	183.08
8181	5.07	3.10	4.00	99.06	32.57	146.22	10.04	206.33	176.66	537.02	59.58	199.85	40.45	136.64	176.92
8182	6.20	3.10	4.00	111.53	35.69	154.95	10.62	197.15	170.45	612.17	58.61	190.85	43.77	153.15	170.88
8183	7.33	3.10	4.00	126.34	39.74	164.00	10.99	186.41	164.26	700.88	55.26	178.58	45.92	171.71	164.97
8184	8.45	3.10	4.00	144.12	44.92	172.91	11.08	174.21	158.02	806.06	49.57	162.77	46.08	192.78	159.18
8185	9.58	3.10	4.00	165.69	51.56	181.36	10.87	160.72	151.61	931.55	44.76	143.83	43.26	216.84	153.47
8186	10.71	3.10	4.00	192.23	60.10	189.20	10.62	146.20	144.86	1082.66	53.17	124.96	36.61	244.40	147.84
8187	11.83	3.10	4.00	225.55	71.05	196.47	11.66	131.05	137.49	1267.72	88.12	118.32	26.48	275.85	142.38
8188	12.96	3.10	4.00	268.79	84.73	203.59	16.81	115.95	129.04	1501.93	150.50	150.06	18.43	311.33	137.46
8189	14.09	3.10	4.00	327.77	100.89	211.80	28.87	102.20	118.61	1816.74	239.25	243.45	27.14	350.93	134.40
8190	15.22	3.10	4.00	413.08	119.35	224.44	51.14	92.59	104.23	2276.90	355.58	431.08	51.47	395.68	136.51
8191	16.34	3.10	4.00	541.09	143.05	259.96	92.47	92.94	79.89	2996.21	520.17	874.58	92.75	448.05	151.53
8192	17.47	3.10	4.00	743.94	180.71	358.88	180.36	142.92	20.47	4206.38	777.52	2010.79	180.36	798.45	140.57
8193	0.57	2.50	3.00	63.57	26.45	132.51	5.69	243.01	214.94	318.91	44.17	220.59	19.70	75.44	214.94
8194	1.72	2.50	3.00	70.50	26.77	134.62	6.25	240.51	209.02	359.64	47.40	220.87	22.67	82.79	209.02
8195	2.87	2.50	3.00	78.64	27.74	139.82	7.14	236.23	202.99	407.65	50.18	219.13	25.86	90.12	202.99
8196	4.02	2.50	3.00	88.20	29.43	147.48	8.06	230.17	196.91	464.20	52.16	215.08	29.07	97.43	196.92
8197	5.17	2.50	3.00	99.43	31.91	156.83	8.83	222.34	190.80	530.82	52.86	208.38	32.02	104.68	190.84
8198	6.32	2.50	3.00	112.69	35.30	167.13	9.35	212.78	184.69	609.34	51.74	198.57	34.33	111.78	184.77
8199	7.47	2.50	3.00	128.47	39.74	177.73	9.51	201.59	178.54	702.01	48.48	185.17	35.46	118.49	178.73
8200	8.61	2.50	3.00	147.40	45.45	188.08	9.21	188.90	172.32	811.58	44.04	167.75	34.73	124.33	172.74
8201	9.76	2.50	3.00	170.36	52.75	197.79	8.40	174.91	166.00	941.51	44.24	146.81	31.47	128.42	166.87
8202	10.91	2.50	3.00	198.62	62.01	206.63	7.58	159.96	159.56	1096.33	61.36	126.85	25.48	129.05	161.32
8203	12.06	2.50	3.00	234.16	73.52	214.64	9.34	144.56	153.04	1282.79	101.13	126.47	18.50	122.91	156.61
8204	13.21	2.50	3.00	280.31	87.14	222.38	17.08	129.50	146.69	1512.16	161.17	181.77	18.13	103.71	153.87
8205	14.36	2.50	3.00	342.70	102.09	231.51	32.37	116.20	141.16	1803.72	236.60				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
8233	-5.10	2.50	4.00	44.90	32.93	155.31	15.85	214.99	230.64	205.38	33.72	182.51	17.35	39.69	230.60
8234	-5.07	3.10	4.00	45.73	33.15	157.25	16.00	215.00	229.23	204.60	34.04	184.67	18.15	41.15	229.17
8235	-6.23	2.50	4.00	42.88	35.06	167.08	19.37	207.99	234.80	189.55	31.49	174.90	19.96	37.75	234.74
8236	-6.20	3.10	4.00	43.89	35.30	168.70	19.40	208.16	233.37	188.99	31.89	177.05	20.25	39.67	233.28
8237	-7.36	2.50	4.00	41.34	37.41	179.44	23.11	199.66	238.44	175.87	29.94	167.55	23.18	40.76	238.36
8238	-7.33	3.10	4.00	42.51	37.67	180.78	23.05	200.01	237.00	175.48	30.39	169.69	23.13	42.88	236.89
8239	-8.50	2.50	4.00	40.13	39.96	192.07	27.02	190.15	241.60	163.78	29.17	161.45	26.80	48.11	241.51
8240	-8.45	3.10	4.00	41.45	40.22	193.18	26.89	190.72	240.18	163.53	29.67	163.54	26.53	50.19	240.04
8241	-9.63	2.50	4.00	39.14	42.67	204.76	31.06	179.65	244.37	152.67	29.25	158.14	30.69	58.33	244.26
8242	-9.58	3.10	4.00	40.58	42.95	205.69	30.88	180.46	242.97	152.53	29.76	160.11	30.30	60.25	242.80
8243	-10.76	2.50	4.00	38.19	45.55	217.45	35.22	168.39	246.84	141.81	30.19	159.82	34.79	70.10	246.71
8244	-10.71	3.10	4.00	39.76	45.82	218.25	35.00	169.46	245.48	141.77	30.67	161.52	34.33	71.84	245.29
8245	-11.90	2.50	4.00	37.15	48.56	230.24	39.50	156.62	249.12	130.39	31.90	169.17	39.08	82.41	249.98
8246	-11.83	3.10	4.00	38.83	48.83	230.95	39.24	157.97	247.80	130.47	32.31	170.43	38.59	83.99	247.60
8247	-13.03	2.50	4.00	35.82	51.70	243.37	43.90	144.54	251.31	117.50	34.22	188.65	43.54	94.28	251.18
8248	-12.96	3.10	4.00	37.63	51.97	244.03	43.60	146.20	250.04	117.74	34.56	189.24	43.04	95.74	249.82
8249	-14.16	2.50	4.00	34.03	54.98	257.17	48.38	132.22	253.48	102.23	36.96	219.55	48.14	104.48	253.35
8250	-14.09	3.10	4.00	36.02	55.25	257.78	48.02	134.19	252.22	102.73	37.20	219.29	47.66	105.87	252.03
8251	-15.29	2.50	4.00	31.77	58.41	271.85	52.89	119.49	255.59	84.22	39.92	261.51	52.81	111.45	255.50
8252	-15.22	3.10	4.00	33.97	58.67	272.39	52.47	121.80	254.35	85.12	40.06	260.25	52.36	112.89	254.21
8253	-16.43	2.50	4.00	29.19	62.05	287.21	57.34	105.98	257.51	63.76	42.90	312.37	57.46	113.46	257.49
8254	-16.34	3.10	4.00	31.66	62.28	287.65	56.89	108.70	256.30	65.24	42.96	310.04	57.06	115.15	256.26
8255	-17.56	2.50	4.00	26.83	66.03	302.86	61.72	91.43	258.65	42.50	46.05	371.16	62.00	109.31	258.73
8256	-17.47	3.10	4.00	29.73	66.30	303.15	61.10	94.90	257.28	44.99	46.03	367.10	61.53	111.67	257.40
8257	-0.57	2.50	3.00	57.71	26.72	133.84	5.94	243.72	220.68	284.42	40.79	218.51	17.20	68.07	220.68
8258	-0.57	3.10	3.00	57.69	26.91	137.22	7.12	243.27	219.45	282.22	40.93	220.75	21.06	68.05	219.45
8259	-1.72	2.50	3.00	52.83	27.50	138.57	7.25	242.67	226.16	255.30	37.48	214.85	15.45	60.72	226.15
8260	-1.71	3.10	3.00	53.03	27.71	141.71	8.10	242.27	224.85	253.63	37.67	217.09	15.59	60.87	224.85
8261	-2.87	2.50	3.00	48.85	28.72	146.31	9.46	239.89	231.29	230.83	34.42	209.81	14.79	53.57	231.28
8262	-2.86	3.10	3.00	49.27	28.95	149.12	10.01	239.55	229.92	229.58	34.68	212.04	17.14	53.96	229.91
8263	-4.02	2.50	3.00	45.68	30.31	156.45	12.30	235.40	236.01	210.36	31.77	203.59	15.40	47.03	235.98
8264	-4.00	3.10	3.00	46.32	30.56	158.89	12.62	235.15	234.59	209.46	32.11	205.83	16.95	47.76	234.56
8265	-5.17	2.50	3.00	43.27	32.22	168.31	15.59	229.25	240.25	193.35	29.70	196.45	17.20	41.89	240.22
8266	-5.14	3.10	3.00	44.11	32.49	170.38	15.75	229.13	238.80	192.72	30.10	198.70	18.06	43.06	238.75
8267	-6.32	2.50	3.00	41.52	34.40	181.28	19.19	221.55	244.01	179.25	28.34	188.74	19.89	39.43	243.95
8268	-6.29	3.10	3.00	42.55	34.69	183.01	19.24	221.58	242.54	178.83	28.81	190.99	20.25	41.04	242.46
8269	-7.47	2.50	3.00	40.34	36.82	194.84	23.04	212.38	247.27	167.54	27.82	180.99	23.21	40.90	247.20
8270	-7.43	3.10	3.00	41.53	37.13	196.27	23.01	212.60	245.80	167.28	28.33	183.24	23.23	42.84	245.69
8271	-8.61	2.50	3.00	39.59	39.45	208.59	27.10	201.94	250.07	157.66	28.20	174.10	26.96	46.66	249.98
8272	-8.57	3.10	3.00	40.92	39.77	209.77	27.01	202.37	248.62	157.52	28.72	176.33	26.77	48.69	248.48
8273	-9.76	2.50	3.00	39.15	42.27	222.29	31.35	190.43	252.49	148.99	29.48	169.57	31.04	55.98	252.37
8274	-9.71	3.10	3.00	40.59	42.60	223.27	31.21	191.12	251.07	148.92	29.98	171.71	30.71	57.95	250.90
8275	-10.91	2.50	3.00	38.87	45.25	235.85	35.79	178.16	254.61	140.77	31.57	169.73	35.40	67.83	254.48
8276	-10.86	3.10	3.00	40.42	45.59	236.69	35.61	179.13	253.25	140.77	32.03	171.65	34.99	69.64	253.04
8277	-12.06	2.50	3.00	38.58	48.37	249.41	40.43	165.50	256.56	132.09	34.35	177.72	40.01	81.27	256.42
8278	-12.00	3.10	3.00	40.22	48.72	250.17	40.20	166.76	255.25	132.17	34.75	179.24	39.56	82.90	255.03
8279	-13.21	2.50	3.00	38.07	51.63	263.36	45.24	152.81	258.48	121.79	37.66	196.93	44.86	95.35	258.32
8280	-13.14	3.10	3.00	39.80	51.98	264.07	44.96	154.39	257.22	121.98	37.97	197.81	44.39	96.81	256.99
8281	-14.36	2.50	3.00	36.98	54.99	278.38	50.14	140.36	260.47	108.41	41.29	229.91	49.87	108.71	260.32
8282	-14.29	3.10	3.00	38.83	55.34	279.07	49.81	142.24	259.26	108.80	41.49	229.92	49.39	110.01	259.04
8283	-15.51	2.50	3.00	34.80	58.47	295.01	54.97	127.80	262.54	90.43	44.86	276.97	54.88	118.72	262.43
8284	-15.43	3.10	3.00	36.84	58.80	295.66	54.55	129.98	261.36	91.18	44.94	275.89	54.42	119.94	261.19
8285	-16.66	2.50	3.00	31.87	62.11	313.25	59.56	114.39	264.55	68.81	48.29	336.03	59.70	122.69	264.50
8286	-16.57	3.10	3.00	34.18	62.41	313.81	59.10	116.91	263.42	70.17	48.27	333.73	59.30	124.07	263.34
8287	-17.80	2.50	3.00	28.22	66.03	331.58	63.71	99.17	265.62	44.05	51.00	401.84	64.06	119.15	265.69
8288	-17.72	3.10	3.00	31.03	66.35	332.00	63.07	102.36	264.35	46.50	50.88	398.31	63.62	121.18	264.44
8289	17.30	3.97	4.00	738.62	171.51	352.52	162.46	141.46	26.87	4147.80	790.33	1890.87	172.43	747.72	203.67
8290	17.02	5.09	4.00	725.58	163.63	342.42	143.24	138.01	35.30	4041.83	805.39	1730.10	149.32	684.68	209.29
8291	16.67	6.19	4.00	707.95	166.50	331.92	123.76	135.46	41.34	3962.34	786.22	1593.25	118.29	685.17	186.71
8292	16.26	7.27	4.00	697.92	188.12	322.25	110.23	136.15	45.90	3925.73	755.03	1454.79	132.41	736.70	187.80
8293	16.18	3.96	4.00	532.35	143.96	259.78	83.46	91.08	81.42	2938.62	533.77	816.58	82.06	417.89	189.41
8294	15.92	5.08	4.00	519.18	148.36	260.63	70.27	89.79	84.15	2863.02	556.04	740.56	67.32	389.61	204.55
8295	15.60	6.19	4.00	506.37	157.44	263.66	56.26	92.13	87.65	2814.67	548.31	676.75	54.10	401.38	200.00
8296	15.21	7.27	4.00	495.71	165.37	269.21	49.78	98.05	94.00	2765.16	481.35	620.87	54.33	440.16	205.43
8297	15.07	3.96	4.00	406.40	121.42	226.84	45.07	93.30	105.26	2243.80	360.47	405.31	43.03	382.89	153.39
8298	14.82	5.08	4.00	396.51	125.19	230.87	36.33	95.12	107.20	2197.72	359.29	369.22	32.40	370.62	164.75
8299	14.52	6.18	4.00	387.31	125.43	236.43	30.28	98.66	110.58	2158.40	316.56	337.24	20.09	374.62	169.21
8300	14.16	7.27	4.00	371.17	113.60	243.91	39.18	103.38	115.34	2062.04	208.76	310.56	107.70	384.23	179.01
8301	13.95	3.96	4.00	323.12	101.34	214.48	25.17	103.73	119.46	1795.98	231.40	230.52	22.16	345.26	142.49
8302	13.73	5.08	4.00	316.12	100.42	219.03	22.27	106.39	121.04	1763.50	207.47	214.52	22.24	340.12	150.81
8303	13.45	6.18	4.00	306.74	94.02	225.09	26.16	109.90	123.27	1712.93	152.39	202.68			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
8331	5.92	6.16	4.00	99.41	35.11	174.85	21.75	196.71	165.38	540.79	61.39	212.56	88.60	144.86	167.25
8332	5.77	7.26	4.00	92.95	35.42	184.56	25.77	196.59	162.76	502.32	60.28	223.51	101.56	140.21	165.43
8333	5.02	3.95	4.00	96.94	32.49	151.04	12.76	206.01	175.41	524.43	60.13	204.28	51.61	135.13	175.84
8334	4.94	5.06	4.00	93.49	32.49	158.69	16.43	205.54	173.35	503.73	60.57	211.44	65.70	132.64	174.10
8335	4.84	6.16	4.00	89.19	32.70	167.76	20.16	205.01	170.81	477.55	60.25	220.19	78.52	129.41	171.99
8336	4.72	7.26	4.00	84.21	33.18	178.07	23.84	204.43	167.80	446.51	59.03	230.54	89.05	125.41	169.53
8337	3.91	3.95	4.00	86.77	30.31	143.57	11.86	213.41	181.51	462.59	58.88	210.18	46.27	120.51	181.77
8338	3.84	5.06	4.00	84.06	30.49	151.79	15.24	212.71	179.18	445.51	58.85	216.99	58.29	118.37	179.64
8339	3.76	6.16	4.00	80.76	30.86	161.44	18.68	211.89	176.31	424.22	58.31	225.34	69.03	115.62	177.05
8340	3.67	7.26	4.00	77.07	31.46	172.31	22.12	210.96	172.91	399.22	57.20	235.24	77.78	112.22	174.03
8341	2.79	3.95	4.00	78.17	28.80	137.51	10.95	219.20	187.66	409.98	56.58	213.61	40.92	107.25	187.82
8342	2.75	5.06	4.00	76.16	29.11	146.17	14.11	218.34	185.07	396.07	56.36	220.18	51.20	105.49	185.35
8343	2.69	6.16	4.00	73.80	29.59	156.29	17.34	217.31	181.86	378.89	55.83	228.25	60.28	103.21	182.33
8344	2.62	7.26	4.00	71.26	30.28	167.61	20.61	216.14	178.07	358.84	54.96	237.82	67.66	100.39	178.80
8345	1.67	3.95	4.00	70.87	27.94	133.40	10.12	223.37	193.83	365.09	53.61	214.85	35.79	95.10	193.92
8346	1.65	5.05	4.00	69.55	28.32	142.32	13.09	222.42	190.97	353.89	53.40	221.25	44.59	93.74	191.14
8347	1.61	6.15	4.00	68.06	28.88	152.70	16.15	221.27	187.43	340.14	53.00	229.12	52.32	91.97	187.73
8348	1.57	7.25	4.00	66.57	29.65	164.28	19.30	219.96	183.26	324.14	52.44	238.46	58.59	89.76	183.73
8349	0.56	3.95	4.00	64.72	27.68	131.72	9.53	225.91	199.95	326.69	50.28	214.12	31.05	83.85	200.00
8350	0.55	5.05	4.00	64.06	28.12	140.63	12.30	224.94	196.82	317.79	50.18	220.42	38.56	82.96	196.92
8351	0.54	6.15	4.00	63.40	28.74	151.00	15.19	223.77	192.97	306.88	50.00	228.16	45.13	81.76	193.14
8352	0.52	7.25	4.00	62.85	29.57	162.59	18.21	222.42	188.41	294.19	49.79	237.35	50.50	80.23	188.72
8353	17.55	3.96	3.00	698.38	152.67	317.10	202.89	108.37	176.58	3118.22	504.79	1428.13	330.39	214.83	209.07
8354	17.27	5.09	3.00	672.69	134.94	313.51	179.97	114.24	173.26	2917.96	491.06	1281.53	252.23	376.42	183.52
8355	16.93	6.19	3.00	655.30	136.51	299.44	158.49	118.21	160.21	2901.64	495.19	1160.16	215.31	362.19	159.97
8356	16.52	7.27	3.00	652.96	168.94	291.39	131.99	130.04	138.71	3064.46	558.27	1079.51	169.31	191.22	138.23
8357	16.41	3.96	3.00	532.77	136.93	285.14	97.89	110.86	137.77	2569.12	431.87	1045.66	161.26	187.93	235.61
8358	16.16	5.08	3.00	508.45	145.37	285.51	87.79	119.14	134.27	2436.34	483.83	959.21	142.60	240.48	242.18
8359	15.84	6.19	3.00	493.05	159.00	287.24	68.68	124.62	127.62	2408.66	507.59	873.39	84.72	213.69	219.86
8360	15.46	7.27	3.00	498.57	178.35	291.73	50.26	130.56	120.44	2497.05	491.90	793.92	69.39	112.35	207.98
8361	15.28	3.96	3.00	416.38	122.11	251.33	50.48	111.80	135.59	2121.88	333.30	549.92	67.35	66.43	196.45
8362	15.04	5.08	3.00	401.77	130.43	255.63	41.57	116.79	132.57	2058.92	355.33	508.81	54.14	76.05	206.80
8363	14.75	6.18	3.00	393.94	136.18	261.33	29.81	121.34	130.59	2042.17	337.03	464.51	30.15	59.24	203.40
8364	14.39	7.26	3.00	389.34	125.97	268.73	33.49	125.04	132.56	2023.50	327.90	415.64	91.22	44.49	200.05
8365	14.15	3.96	3.00	334.24	104.87	235.95	25.95	119.50	139.70	1768.58	233.32	298.27	31.16	55.88	170.61
8366	13.93	5.08	3.00	326.43	106.71	240.73	21.41	122.91	138.68	1736.66	220.83	277.61	29.72	56.52	177.38
8367	13.65	6.18	3.00	319.81	101.70	246.88	22.81	126.41	139.02	1706.49	171.50	256.47	53.66	69.24	179.00
8368	13.33	7.26	3.00	305.32	87.50	254.58	37.64	129.84	141.53	1622.08	95.07	237.81	148.08	97.09	177.84
8369	13.02	3.96	3.00	274.83	86.82	226.72	15.04	131.95	145.92	1488.53	145.06	174.72	26.59	101.91	160.98
8370	12.81	5.08	3.00	269.17	84.20	231.47	17.44	134.43	145.63	1460.88	119.53	170.68	45.93	104.31	165.00
8371	12.56	6.18	3.00	260.49	77.37	237.63	25.44	137.26	146.14	1412.07	80.59	170.25	92.19	113.68	167.13
8372	12.26	7.26	3.00	242.12	68.76	245.45	39.62	140.45	147.38	1307.09	55.26	175.53	172.73	130.68	168.26
8373	11.89	3.96	3.00	229.72	71.33	219.03	12.82	146.31	152.43	1260.47	82.94	133.09	38.74	122.97	159.87
8374	11.70	5.07	3.00	224.01	67.78	223.84	18.63	148.14	152.11	1228.78	63.94	141.55	67.40	125.47	162.03
8375	11.47	6.18	3.00	214.03	62.73	230.07	27.28	150.36	152.08	1171.32	50.96	153.37	113.37	131.59	163.64
8376	11.19	7.26	3.00	196.36	58.35	237.90	38.39	153.03	152.21	1071.66	52.64	168.42	172.26	140.96	164.99
8377	10.75	3.96	3.00	194.26	59.45	211.23	13.61	161.12	158.79	1071.99	50.98	138.60	50.96	129.67	162.55
8378	10.59	5.07	3.00	188.29	56.53	216.25	19.77	162.37	158.15	1037.61	46.87	150.58	80.44	131.56	163.41
8379	10.38	6.17	3.00	178.39	53.43	222.66	27.39	163.97	157.50	980.79	50.30	164.75	119.06	135.16	164.09
8380	10.13	7.26	3.00	163.11	51.40	230.58	35.87	165.94	156.79	895.13	55.35	180.80	160.87	139.97	164.69
8381	9.62	3.96	3.00	165.91	50.61	202.78	14.42	175.54	164.95	915.77	44.61	158.08	58.14	128.99	166.87
8382	9.47	5.07	3.00	160.04	48.63	208.15	20.03	176.26	163.93	881.82	48.74	169.32	84.89	130.12	166.75
8383	9.28	6.17	3.00	151.04	46.92	214.89	26.43	177.22	162.73	830.41	54.26	182.43	115.69	131.96	166.50
8384	9.06	7.26	3.00	138.39	46.17	223.04	33.06	178.46	161.34	759.57	57.31	197.22	145.79	134.12	166.15
8385	8.49	3.96	3.00	143.03	43.97	193.61	14.67	189.06	170.96	786.16	48.46	177.58	60.38	124.61	171.93
8386	8.36	5.07	3.00	137.60	42.80	199.45	19.58	189.29	169.57	754.82	53.05	187.48	83.46	125.08	171.01
8387	8.19	6.17	3.00	129.81	42.01	206.68	24.94	189.65	167.89	710.44	56.81	199.16	107.80	125.75	170.07
8388	8.00	7.26	3.00	119.56	41.98	215.25	30.33	190.17	165.93	652.80	58.05	212.54	130.04	126.34	168.79
8389	7.36	3.96	3.00	124.39	38.87	183.91	14.40	201.34	176.87	678.33	52.43	193.78	59.03	118.44	177.35
8390	7.24	5.07	3.00	119.59	38.31	190.35	18.70	201.14	175.15	650.68	55.57	202.58	78.59	118.41	175.92
8391	7.10	6.17	3.00	113.06	38.13	198.18	23.28	200.96	173.04	613.37	57.61	213.12	97.99	118.31	174.19
8392	6.93	7.26	3.00	104.88	38.52	207.33	27.84	200.84	170.58	566.82	57.79	225.35	114.94	117.95	172.23
8393	6.23	3.96	3.00	109.06	34.92	174.05	13.76	212.18	182.74	588.23	54.35	206.34	55.46	111.46	182.95
8394	6.13	5.06	3.00	104.97	34.79	181.16	17.58	211.62	180.71	564.59	56.16	214.35	71.99	111.08	181.08
8395	6.01	6.16	3.00	99.64	35.00	189.70	21.59	210.98	178.22	533.76	57.07	224.05	87.68	110.49	178.82
8396	5.86	7.26	3.00	93.23	35.65	199.53	25.60	210.30	175.30	496.30	56.75	235.41	101.00	109.55	176.22
8397	5.09	3.95	3.00	96.33	31.88	164.53	12.90	221.46	188.59	512.64	54.35	215.57	50.70	104.17	188.68
8398	5.01	5.06	3.00	92.98	32.05	172.34	16.35	220.59	186.27	492.86	55.26	223.03	64.70	103.56	186.44
8399	4.92	6.16	3.00	88.76	32.50	181.62	19.96	219.57	183.42	467.69	55.56	232.14	77.60	102.67	183.72
8400	4.80	7.25	3.00	83.85	33.34	192.18	23.59	218.44	180.08	437.66	55.09	242.86	88.37	101.41	180.58
8401	3.96	3.95	3.00</												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
8429	-3.91	3.95	4.00	49.21	31.63	150.90	13.56	220.21	222.11	220.84	37.15	195.81	19.41	48.05	222.05
8430	-3.84	5.06	4.00	50.96	32.26	157.36	14.65	219.89	218.11	217.73	37.89	202.10	22.32	50.42	218.01
8431	-3.76	6.16	4.00	53.05	33.07	165.14	16.12	219.51	213.23	213.93	38.84	209.82	24.95	53.02	213.10
8432	-3.67	7.25	4.00	55.43	34.06	174.13	18.00	219.06	207.55	209.50	39.98	218.96	27.09	55.70	207.38
8433	-5.02	3.95	4.00	47.15	33.55	160.70	16.31	215.01	226.68	203.15	34.60	188.58	19.40	43.56	226.58
8434	-4.94	5.06	4.00	49.40	34.22	166.29	16.96	215.06	222.56	200.88	35.57	194.91	21.08	47.15	222.40
8435	-4.84	6.16	4.00	52.02	35.07	173.10	17.97	215.11	217.54	198.09	36.77	202.70	22.61	51.00	217.32
8436	-4.72	7.26	4.00	54.91	36.07	181.09	19.39	215.15	211.71	194.83	38.19	211.91	23.82	54.92	211.42
8437	-6.14	3.96	4.00	45.62	35.72	171.60	19.48	208.45	230.78	187.96	32.58	180.98	20.68	42.82	230.64
8438	-6.04	5.06	4.00	48.32	36.43	176.36	19.78	208.94	226.58	186.34	33.75	187.35	21.25	47.40	226.36
8439	-5.92	6.16	4.00	51.38	37.31	182.24	20.37	209.51	221.49	184.35	35.17	195.18	21.72	52.23	221.17
8440	-5.77	7.26	4.00	54.70	38.32	189.24	21.34	210.15	215.56	182.01	36.80	204.47	21.95	57.09	215.15
8441	-7.25	3.96	4.00	44.51	38.11	183.20	22.97	200.63	234.40	174.77	31.19	173.60	22.98	46.36	234.22
8442	-7.14	5.07	4.00	47.58	38.85	187.22	22.98	201.65	230.19	173.65	32.52	179.96	22.71	51.42	229.90
8443	-6.99	6.17	4.00	51.03	39.74	192.25	23.21	202.84	225.07	172.28	34.09	187.80	22.28	56.76	224.65
8444	-6.82	7.26	4.00	54.71	40.74	198.33	23.76	204.18	219.13	170.67	35.88	197.11	21.62	62.11	218.57
8445	-8.37	3.96	4.00	43.69	40.68	195.20	26.68	191.72	237.60	163.06	30.53	167.37	26.02	53.62	237.37
8446	-8.24	5.07	4.00	47.09	41.44	198.58	26.47	193.34	233.42	162.34	31.93	173.62	25.17	58.69	233.05
8447	-8.07	6.17	4.00	50.86	42.33	202.88	26.39	195.25	228.33	161.46	33.59	181.34	24.08	64.07	227.81
8448	-7.87	7.26	4.00	54.84	43.32	208.15	26.57	197.37	222.41	160.42	35.44	190.55	22.73	69.51	221.72
8449	-9.49	3.96	4.00	43.02	43.41	207.39	30.56	181.89	240.44	152.25	30.62	163.71	29.55	63.45	240.17
8450	-9.33	5.07	4.00	46.71	44.17	210.27	30.16	184.19	236.33	151.85	32.04	169.63	28.34	68.25	235.89
8451	-9.14	6.17	4.00	50.77	45.05	213.97	29.82	186.89	231.31	151.37	33.68	177.00	26.84	73.42	230.69
8452	-8.92	7.26	4.00	55.01	46.01	218.57	29.66	189.88	225.47	150.82	35.49	185.83	25.03	78.69	224.64
8453	-10.60	3.96	4.00	42.39	46.29	219.72	34.60	171.37	243.01	141.68	31.48	164.66	33.46	74.77	242.70
8454	-10.43	5.07	4.00	46.34	47.04	222.22	34.03	174.41	238.98	141.59	32.81	169.88	32.04	79.21	238.49
8455	-10.22	6.17	4.00	50.64	47.90	225.46	33.46	177.96	234.07	141.48	34.35	176.44	30.29	84.05	233.36
8456	-9.97	7.26	4.00	55.12	48.81	229.52	32.97	181.88	228.31	141.38	36.03	184.44	28.23	89.00	227.38
8457	-11.72	3.96	4.00	41.65	49.29	232.26	38.75	160.39	245.39	130.59	33.02	172.75	37.65	86.66	245.06
8458	-11.53	5.08	4.00	45.85	50.03	234.49	38.03	164.21	241.47	130.85	34.18	176.70	36.14	90.75	240.93
8459	-11.29	6.18	4.00	50.40	50.86	237.39	37.24	168.65	236.65	131.17	35.53	181.81	34.28	95.24	235.89
8460	-11.01	7.26	4.00	55.09	51.71	241.02	36.45	173.52	231.00	131.57	36.97	188.24	32.09	99.84	229.99
8461	-12.83	3.96	4.00	40.66	52.43	245.23	43.02	149.14	247.68	118.17	35.11	190.35	42.10	98.20	247.34
8462	-12.63	5.08	4.00	45.14	53.14	247.27	42.14	153.77	243.84	118.91	36.04	192.39	40.57	102.02	243.29
8463	-12.37	6.18	4.00	49.94	53.92	249.90	41.13	159.11	239.10	119.80	37.11	195.26	38.69	106.20	238.33
8464	-12.06	7.26	4.00	54.86	54.69	253.17	40.06	164.94	233.51	120.86	38.25	199.19	36.49	110.51	232.50
8465	-13.95	3.96	4.00	39.29	55.69	258.88	47.35	137.67	249.91	103.62	37.58	181.81	46.74	108.24	249.60
8466	-13.73	5.08	4.00	44.10	56.38	260.74	46.31	143.13	246.11	105.09	38.23	181.34	45.25	111.92	245.61
8467	-13.45	6.18	4.00	49.20	57.11	263.11	45.07	149.38	241.40	106.84	38.98	181.18	43.42	115.98	240.70
8468	-13.11	7.26	4.00	54.39	57.79	266.03	43.73	156.16	235.83	108.82	39.77	181.68	41.29	120.16	234.91
8469	-15.07	3.96	4.00	37.57	59.10	273.37	51.69	125.87	252.05	86.71	40.26	257.90	51.49	115.36	251.82
8470	-14.82	5.08	4.00	42.77	59.76	274.99	50.48	132.20	248.25	89.24	40.63	254.43	50.09	119.20	247.89
8471	-14.52	6.18	4.00	48.22	60.43	277.03	49.01	139.40	243.52	92.19	41.05	250.64	48.34	123.44	242.99
8472	-14.16	7.27	4.00	53.73	61.04	279.49	47.38	147.18	237.88	95.47	41.50	246.95	46.29	127.84	237.18
8473	-16.18	3.96	4.00	35.63	62.70	288.43	56.00	113.47	253.96	67.81	43.00	305.66	56.24	118.04	253.90
8474	-15.92	5.08	4.00	41.27	63.32	289.73	54.59	120.81	250.17	71.80	43.14	298.94	54.93	122.52	250.05
8475	-15.60	6.19	4.00	47.07	63.92	291.31	52.93	129.04	245.39	76.27	43.28	291.17	53.30	127.41	245.20
8476	-15.21	7.27	4.00	52.87	64.44	293.17	51.00	137.85	239.56	81.12	43.35	282.84	51.31	132.50	239.28
8477	-17.30	3.97	4.00	34.04	66.57	303.68	60.34	100.53	255.83	48.87	46.08	361.23	61.01	115.40	256.02
8478	-17.02	5.09	4.00	39.92	67.13	304.48	58.69	108.92	251.73	54.49	45.99	351.10	59.70	120.93	252.00
8479	-16.67	6.19	4.00	46.06	67.65	305.45	56.80	118.40	246.80	60.76	45.89	339.16	58.14	127.15	247.16
8480	-16.26	7.27	4.00	51.95	68.00	306.54	54.83	128.14	241.18	67.04	45.75	325.94	56.41	133.29	241.59
8481	-0.57	3.95	3.00	57.66	27.28	143.09	8.91	242.44	217.25	278.20	41.14	224.76	26.30	67.97	217.24
8482	-0.56	5.05	3.00	57.73	27.94	152.23	11.39	241.14	213.67	271.84	41.56	231.25	32.63	67.82	213.66
8483	-0.55	6.15	3.00	57.96	28.85	162.90	14.05	239.56	209.27	264.08	42.11	239.21	38.21	67.53	209.27
8484	-0.53	7.25	3.00	58.42	30.07	174.86	16.92	237.73	204.11	255.04	42.83	248.63	42.84	67.03	204.12
8485	-1.70	3.95	3.00	53.40	28.10	147.18	9.49	241.51	222.51	250.57	38.00	221.09	22.92	61.08	222.50
8486	-1.67	5.05	3.00	54.09	28.81	155.76	11.58	240.33	218.72	245.73	38.61	227.56	28.19	61.41	218.70
8487	-1.64	6.15	3.00	55.04	29.77	165.84	13.95	238.90	214.08	239.84	39.42	235.50	32.85	61.69	214.04
8488	-1.60	7.25	3.00	56.29	31.02	177.21	16.59	237.25	208.64	233.00	40.47	244.87	36.71	61.88	208.60
8489	-2.83	3.95	3.00	50.03	29.37	154.05	10.97	238.91	227.47	227.30	35.13	216.05	20.50	54.60	227.44
8490	-2.79	5.06	3.00	51.31	30.12	161.84	12.56	237.94	223.49	223.71	35.95	222.54	24.67	55.59	223.44
8491	-2.73	6.16	3.00	52.92	31.12	171.08	14.51	236.75	218.64	219.34	37.03	230.49	28.41	56.67	218.56
8492	-2.67	7.25	3.00	54.85	32.41	181.61	16.83	235.38	212.97	214.26	38.40	239.87	31.51	57.76	212.86
8493	-3.96	3.95	3.00	47.45	31.02	163.19	13.22	234.69	232.04	207.81	32.70	209.86	19.28	48.98	231.99
8494	-3.90	5.06	3.00	49.28	31.81	170.08	14.32	233.99	227.92	205.22	33.73	216.39	22.29	50.86	227.83
8495	-3.82	6.16	3.00	51.48	32.86	178.34	15.81	233.14	222.90	202.06	35.06	224.37	25.04	52.95	222.76
8496	-3.73	7.25	3.00	54.01	34.17	187.85	17.72	232.16	217.06	198.39	36.71	233.79	27.34	55.13	216.86
8497	-5.09	3.95	3.00	45.58	32.98	174.06	16.07	228.90	236.19	191.57	30.82	202.75	19.41	45.00	236.10
8498	-5.01	5.06	3.00	47.90	33.82	180.01	16.75	228.55	231.97	189.76	32.05	209.33	21.24	47.95	231.82
8499	-4.92	6.16	3.00	50.63	34.91	187.23	17.79	228.14	226.84	187.55	33.61	217.38	22.94	51.17	226.61
8500	-4.80	7.25	3.00	53.66</											



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
8527	-12.56	6.18	3.00	51.70	54.65	270.53	42.74	166.77	246.64	123.56	40.52	206.13	40.18	107.25	245.78
8528	-12.26	7.26	3.00	56.51	55.82	274.18	41.77	172.41	241.31	124.37	41.76	211.17	38.03	111.54	240.17
8529	-14.15	3.96	3.00	41.91	55.93	280.34	49.17	145.58	257.04	109.48	41.81	229.92	48.48	112.20	256.69
8530	-13.93	5.08	3.00	46.48	56.87	282.50	48.17	150.81	253.42	110.62	42.40	230.21	46.99	115.61	252.85
8531	-13.65	6.18	3.00	51.38	57.92	285.27	46.99	156.83	248.96	111.97	43.12	231.01	45.16	119.37	248.14
8532	-13.33	7.26	3.00	56.37	58.97	288.70	45.69	163.39	243.72	113.51	43.92	232.60	43.01	123.24	242.64
8533	-15.28	3.96	3.00	40.21	59.37	296.85	53.78	133.82	259.20	92.52	45.04	273.88	53.53	122.03	258.91
8534	-15.04	5.08	3.00	45.14	60.26	298.85	52.55	139.82	255.63	94.68	45.27	270.97	52.11	125.30	255.17
8535	-14.75	6.18	3.00	50.37	61.22	301.37	51.07	146.67	251.18	97.19	45.55	267.86	50.32	128.92	250.53
8536	-14.39	7.26	3.00	55.67	62.17	304.43	49.41	154.11	245.90	100.00	45.87	264.97	48.24	132.68	245.04
8537	-16.41	3.96	3.00	37.94	62.95	314.81	58.18	121.33	261.23	72.54	48.16	329.44	58.48	126.44	261.11
8538	-16.16	5.08	3.00	43.35	63.77	316.48	56.72	128.19	257.70	76.23	48.08	322.86	57.14	130.15	257.49
8539	-15.84	6.18	3.00	48.95	64.60	318.55	55.00	135.95	253.23	80.40	47.97	315.29	55.49	134.24	252.93
8540	-15.46	7.27	3.00	54.59	65.40	320.99	52.99	144.34	247.76	84.91	47.80	307.21	53.45	138.52	247.34
8541	-17.55	3.96	3.00	35.23	66.72	332.77	62.27	107.59	263.06	50.32	50.78	391.74	63.12	124.36	263.21
8542	-17.27	5.09	3.00	40.99	67.41	333.98	60.55	115.44	259.24	55.84	50.43	381.48	61.85	129.13	259.46
8543	-16.93	6.19	3.00	47.02	68.10	335.47	58.56	124.44	254.65	62.02	50.00	369.43	60.32	134.57	254.94
8544	-16.52	7.27	3.00	52.80	68.65	337.20	56.47	133.80	249.41	68.19	49.53	356.09	58.61	140.00	249.74
8545	15.89	8.10	4.00	707.03	226.25	317.42	115.76	137.59	52.80	3913.14	769.97	1323.91	315.65	769.59	249.39
8546	15.59	8.70	4.00	653.36	257.44	324.50	183.22	132.88	64.13	3450.81	810.66	1206.38	822.03	747.57	380.47
8547	14.87	8.10	4.00	471.81	155.64	275.46	71.19	102.81	101.99	2591.42	346.65	568.99	264.10	458.73	233.78
8548	14.59	8.70	4.00	407.13	131.02	279.35	106.82	104.75	112.77	2190.41	229.00	508.32	485.20	442.01	232.88
8549	13.84	8.10	4.00	339.16	94.14	250.83	64.23	107.51	119.50	1862.08	104.00	289.54	277.64	382.72	189.43
8550	13.58	8.70	4.00	290.36	85.76	257.20	85.74	110.89	120.73	1580.42	78.81	279.47	399.25	368.19	197.64
8551	12.82	8.10	4.00	255.92	72.71	240.76	59.58	118.33	126.57	1412.10	56.11	199.52	271.00	327.63	175.68
8552	12.57	8.70	4.00	221.54	71.33	247.33	70.57	121.77	126.94	1219.93	54.74	203.79	330.18	313.67	181.32
8553	11.79	8.10	4.00	202.53	62.42	233.28	52.94	130.78	132.23	1125.32	50.81	172.28	243.52	282.64	167.12
8554	11.57	8.70	4.00	178.93	62.36	239.51	59.22	133.83	132.12	994.48	49.31	181.28	274.29	271.36	170.65
8555	10.77	8.10	4.00	166.75	55.38	226.43	46.85	143.48	137.27	931.15	52.35	173.23	213.79	246.26	161.76
8556	10.56	8.70	4.00	149.83	55.56	232.39	51.06	145.98	136.83	837.46	50.02	183.60	231.89	237.23	163.94
8557	9.74	8.10	4.00	141.33	49.89	219.69	41.81	155.81	142.04	790.22	55.08	185.14	187.08	216.41	158.92
8558	9.56	8.70	4.00	128.87	50.16	225.51	44.97	157.73	141.33	720.76	52.54	195.35	198.63	209.20	160.07
8559	8.71	8.10	4.00	122.46	45.46	212.93	37.63	167.44	146.67	682.44	57.17	199.53	163.50	191.52	158.14
8560	8.55	8.70	4.00	113.12	45.81	218.74	40.20	168.80	145.69	629.74	54.65	209.06	171.19	185.69	158.53
8561	7.69	8.10	4.00	107.98	41.73	206.13	34.14	178.18	151.24	596.91	58.44	212.95	142.84	170.34	158.96
8562	7.54	8.70	4.00	100.89	42.10	212.04	36.40	179.03	149.99	556.06	56.23	221.76	148.40	165.51	158.74
8563	6.66	8.10	4.00	96.58	38.56	199.39	31.22	187.91	155.83	527.08	58.88	224.24	124.82	152.02	160.97
8564	6.54	8.70	4.00	91.18	38.97	205.50	33.30	188.31	154.31	494.98	56.96	232.39	129.05	147.96	160.23
8565	5.64	8.10	4.00	87.45	35.91	192.88	28.75	196.53	160.46	468.92	58.54	233.11	109.02	135.97	163.88
8566	5.53	8.70	4.00	83.39	36.36	199.24	30.71	196.55	158.69	443.49	56.93	240.72	112.40	132.53	162.69
8567	4.61	8.10	4.00	80.07	33.76	186.82	26.62	203.98	165.16	419.78	57.54	239.62	95.12	121.78	167.43
8568	4.53	8.70	4.00	77.09	34.25	193.45	28.51	203.67	163.13	399.53	56.25	246.80	97.91	118.84	165.84
8569	3.59	8.10	4.00	74.10	32.11	181.46	24.78	210.19	169.93	377.83	56.02	243.92	82.84	109.14	171.44
8570	3.52	8.70	4.00	72.03	32.64	188.34	26.62	209.65	167.65	361.67	55.05	250.76	85.22	106.65	169.49
8571	2.56	8.10	4.00	69.30	30.99	177.07	23.18	215.16	174.76	341.74	54.12	246.20	71.95	97.84	175.77
8572	2.51	8.70	4.00	68.00	31.56	184.16	24.99	214.44	172.22	328.85	53.44	252.78	74.02	95.77	173.49
8573	1.54	8.10	4.00	65.51	30.41	173.92	21.80	218.85	179.61	310.53	51.95	246.63	62.27	87.75	180.30
8574	1.51	8.70	4.00	64.87	31.02	181.12	23.59	218.03	176.83	300.28	51.57	253.04	64.08	86.11	177.70
8575	0.51	8.10	4.00	62.59	30.38	172.23	20.66	221.28	184.46	283.42	49.64	245.39	53.66	78.82	184.90
8576	0.50	8.70	4.00	62.53	31.02	179.43	22.42	220.43	181.44	275.32	49.53	251.67	55.26	77.67	182.02
8577	16.16	8.10	3.00	709.10	226.28	302.60	113.94	155.56	110.31	3411.90	659.37	1072.37	270.38	101.77	126.90
8578	15.87	8.70	3.00	724.83	287.26	328.94	191.85	179.37	117.22	3354.09	814.93	1082.28	763.03	187.38	231.48
8579	15.12	8.10	3.00	502.03	177.24	297.85	66.82	136.13	124.18	2505.90	392.86	717.81	239.58	63.91	230.98
8580	14.84	8.70	3.00	453.48	145.50	302.26	110.09	134.33	137.40	2226.10	258.57	630.29	480.49	95.00	233.49
8581	14.08	8.10	3.00	369.10	101.36	275.28	60.79	127.26	138.50	1900.34	118.16	370.03	260.35	80.30	195.75
8582	13.82	8.70	3.00	322.66	89.25	280.86	88.54	127.87	143.13	1652.09	82.17	337.33	401.95	123.92	189.69
8583	13.03	8.10	3.00	278.23	75.51	261.83	58.92	144.47	146.92	1469.82	60.24	227.62	266.39	127.96	176.49
8584	12.80	8.70	3.00	242.70	73.61	268.13	72.92	134.87	146.08	1282.83	58.14	225.13	337.24	152.46	176.99
8585	11.99	8.10	3.00	217.54	64.24	252.86	53.19	143.32	148.46	1171.81	54.20	183.91	244.31	147.25	169.43
8586	11.77	8.70	3.00	192.69	64.35	259.07	60.88	145.73	148.91	1040.11	52.99	192.27	280.95	158.77	170.66
8587	10.95	8.10	3.00	176.54	56.83	245.19	47.24	155.48	152.23	963.05	54.54	182.03	215.78	149.21	166.18
8588	10.75	8.70	3.00	158.74	57.32	251.11	52.18	157.52	152.07	867.95	52.72	192.95	236.96	154.43	167.13
8589	9.91	8.10	3.00	147.60	51.09	237.79	42.14	167.77	156.11	809.99	55.87	194.51	188.90	143.81	165.20
8590	9.72	8.70	3.00	134.56	51.70	243.55	45.70	169.30	155.51	739.58	53.91	205.27	202.17	145.99	165.55
8591	8.86	8.10	3.00	126.33	46.46	230.35	37.83	179.62	160.11	692.94	56.73	209.86	164.77	135.61	165.88
8592	8.70	8.70	3.00	116.66	47.17	236.11	40.63	180.62	159.13	639.83	54.81	219.82	173.47	136.22	166.66
8593	7.82	8.10	3.00	110.21	42.57	222.81	34.23	190.70	164.22	600.50	57.00	224.08	143.52	126.50	167.79
8594	7.68	8.70	3.00	102.93	43.29	228.71	36.63	191.20	162.89	559.64	55.39	233.21	149.72	126.23	167.04
8595	6.78	8.10	3.00	97.67	39.27	215.29	31.19	200.81	168.44	525.54	56.66	235.98	125.01	117.33	170.60
8596	6.65	8.70	3.00	92.18	40.02	221.43	33.36	200.86	166.80	493.70	55.34	244.40	129.66	116.55	169.38
8597	5.73	8.10													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
8625	-8.71	8.10	4.00	58.41	46.80	222.80	29.73	192.39	220.37	150.40	37.02	193.73	23.44	82.75	219.40
8626	-8.55	8.70	4.00	60.83	47.31	226.23	29.90	194.26	216.41	150.08	38.09	200.09	22.17	85.52	215.33
8627	-9.74	8.10	4.00	58.69	49.54	233.28	32.74	185.15	223.28	141.35	37.42	191.69	26.42	92.84	222.17
8628	-9.56	8.70	4.00	61.25	50.01	236.35	32.65	187.58	219.33	141.38	38.40	197.58	25.00	95.45	218.12
8629	-10.77	8.10	4.00	58.83	52.37	244.40	35.93	177.57	226.01	132.00	38.17	194.24	30.20	103.41	224.83
8630	-10.56	8.70	4.00	61.47	52.76	247.16	35.60	180.57	222.08	132.34	38.98	199.23	28.71	105.84	220.77
8631	-11.79	8.10	4.00	58.76	55.26	256.21	39.25	169.76	228.57	121.85	39.19	203.17	34.58	113.86	227.38
8632	-11.57	8.70	4.00	61.52	55.59	258.66	38.69	173.33	224.65	122.68	39.81	206.64	33.08	116.12	223.33
8633	-12.82	8.10	4.00	58.46	58.26	268.71	42.68	161.75	230.89	110.55	40.41	219.80	39.45	123.43	229.80
8634	-12.57	8.70	4.00	61.38	58.47	270.84	41.87	165.91	226.95	111.99	40.77	221.08	37.92	125.63	225.76
8635	-13.84	8.10	4.00	58.03	61.42	281.75	46.14	153.54	232.91	98.24	41.87	244.49	44.59	131.31	232.07
8636	-13.58	8.70	4.00	61.03	61.57	283.55	45.22	158.20	228.90	100.23	42.05	242.98	43.21	133.69	227.98
8637	-14.87	8.10	4.00	57.47	64.77	294.86	49.42	145.12	234.40	85.19	43.49	276.40	49.60	136.58	234.05
8638	-14.59	8.70	4.00	60.65	64.83	296.23	48.42	150.42	230.48	88.13	43.57	271.79	48.41	139.37	230.06
8639	-15.89	8.10	4.00	56.66	68.16	307.45	52.82	136.14	235.10	72.28	45.35	315.15	54.53	138.20	235.52
8640	-15.59	8.70	4.00	60.25	68.18	308.24	51.45	142.51	230.76	76.48	45.16	307.18	53.21	142.12	231.17
8641	-0.52	8.10	3.00	59.02	31.25	184.83	19.30	236.19	199.64	247.39	43.57	256.85	45.65	66.53	199.67
8642	-0.51	8.70	3.00	59.58	32.21	192.27	21.04	235.02	196.24	241.62	44.18	263.25	47.13	66.06	196.30
8643	-1.56	8.10	3.00	57.50	32.22	186.74	18.84	235.86	203.94	227.20	41.50	253.05	39.07	61.97	203.90
8644	-1.54	8.70	3.00	58.49	33.19	193.91	20.53	234.81	200.36	222.84	42.33	259.43	40.33	61.95	200.33
8645	-2.61	8.10	3.00	56.60	33.63	190.52	18.88	234.23	208.08	209.96	39.69	248.05	33.41	58.62	207.95
8646	-2.56	8.70	3.00	57.94	34.60	197.27	20.46	233.37	204.35	206.72	40.72	254.44	34.43	59.17	204.21
8647	-3.65	8.10	3.00	56.20	35.40	196.01	19.50	231.35	212.02	195.28	38.23	242.01	28.73	56.87	211.78
8648	-3.58	8.70	3.00	57.85	36.37	202.24	20.92	230.75	208.18	192.92	39.43	248.46	29.47	58.06	207.91
8649	-4.69	8.10	3.00	56.22	37.48	202.99	20.73	227.30	215.75	182.80	37.20	235.16	25.17	57.15	215.37
8650	-4.61	8.70	3.00	58.11	38.43	208.65	21.94	227.02	211.83	181.15	38.52	241.68	25.56	58.97	211.40
8651	-5.73	8.10	3.00	56.56	39.80	211.21	22.52	222.15	219.25	172.20	36.65	227.75	22.92	59.75	218.71
8652	-5.63	8.70	3.00	58.64	40.74	216.29	23.50	222.27	215.29	171.09	38.05	234.37	22.89	62.09	214.69
8653	-6.78	8.10	3.00	57.13	42.33	220.44	24.82	216.04	222.53	163.13	36.61	220.21	22.14	64.72	221.82
8654	-6.65	8.70	3.00	59.36	43.24	224.95	25.55	216.62	218.57	162.42	38.05	226.92	21.68	67.41	217.77
8655	-7.82	8.10	3.00	57.84	45.02	230.46	27.54	209.11	225.62	155.20	37.08	213.15	22.84	71.89	224.73
8656	-7.68	8.70	3.00	60.21	45.90	234.47	28.03	210.22	221.69	154.81	38.50	219.90	22.00	74.74	220.69
8657	-8.86	8.10	3.00	58.62	47.84	241.15	30.60	201.54	228.54	147.99	38.03	207.52	24.84	80.92	227.48
8658	-8.70	8.70	3.00	61.09	48.68	244.74	30.85	203.22	224.67	147.85	39.37	214.19	23.72	83.77	223.48
8659	-9.91	8.10	3.00	59.36	50.77	252.48	33.92	193.55	231.33	140.98	39.39	204.75	27.85	91.42	230.13
8660	-9.72	8.70	3.00	61.95	51.56	255.74	33.91	195.85	227.53	141.08	40.59	211.09	26.53	94.13	226.18
8661	-10.95	8.10	3.00	59.97	53.75	264.56	37.43	185.34	234.03	133.60	41.04	206.82	31.67	102.93	232.72
8662	-10.75	8.70	3.00	62.60	54.47	267.56	37.17	188.24	230.28	133.89	42.03	212.40	30.22	105.44	228.82
8663	-11.99	8.10	3.00	60.33	56.77	277.59	41.04	177.09	236.64	125.15	42.84	216.08	36.13	114.86	235.29
8664	-11.77	8.70	3.00	63.04	57.39	280.39	40.53	180.58	232.95	125.80	43.58	220.26	34.62	117.10	231.45
8665	-13.03	8.10	3.00	60.31	59.78	291.88	44.67	168.81	239.10	114.87	44.60	234.66	41.14	126.26	237.83
8666	-12.80	8.70	3.00	63.12	60.26	294.45	43.87	172.87	235.42	116.02	45.01	236.67	39.58	128.27	234.03
8667	-14.08	8.10	3.00	59.83	62.85	307.25	48.15	160.24	241.26	102.38	46.19	263.22	46.50	135.65	240.24
8668	-13.82	8.70	3.00	62.72	63.22	309.52	47.20	164.74	237.51	104.05	46.31	262.26	45.08	137.70	236.39
8669	-15.12	8.10	3.00	59.06	66.01	323.22	51.35	151.31	242.91	88.70	47.78	301.00	51.72	142.00	242.41
8670	-14.84	8.70	3.00	62.14	66.29	325.03	50.32	156.44	239.23	91.43	47.79	296.58	50.49	144.40	238.66
8671	-16.16	8.10	3.00	57.41	68.99	338.70	54.36	141.56	243.63	73.32	48.86	345.26	56.72	144.39	243.96
8672	-15.87	8.70	3.00	60.91	69.17	339.99	52.89	147.80	239.48	77.38	48.47	337.28	55.39	147.97	239.80
8673	10.74	9.43	3.00	141.33	60.23	261.29	58.05	157.51	150.93	775.20	50.11	205.44	259.59	161.98	169.23
8674	11.69	9.39	3.00	167.41	67.60	268.79	68.11	146.78	148.54	906.72	54.24	205.51	311.08	170.90	173.52
8675	12.64	9.35	3.00	204.33	76.88	277.23	82.76	136.66	146.62	1083.63	65.89	233.04	381.52	174.61	179.55
8676	10.93	10.30	3.00	120.64	66.46	276.68	64.45	155.25	148.86	667.83	55.45	221.04	279.60	173.66	173.58
8677	11.76	10.18	3.00	138.66	74.10	282.62	74.30	146.15	147.39	758.75	68.37	223.19	330.11	185.34	178.71
8678	12.58	10.05	3.00	162.76	84.58	289.14	88.61	137.50	146.35	872.33	93.29	247.17	399.40	195.93	184.73
8679	11.10	11.18	3.00	96.03	72.73	294.27	66.53	153.37	146.36	541.40	70.72	239.58	273.63	185.59	179.63
8680	11.80	10.97	3.00	106.83	79.85	297.80	74.64	145.73	145.66	598.31	87.47	241.24	317.32	198.71	185.18
8681	12.49	10.74	3.00	121.99	90.74	301.82	85.17	138.17	145.05	672.30	120.63	259.48	368.46	212.32	191.95
8682	0.52	9.79	3.00	61.92	33.70	207.14	25.52	231.72	185.53	249.51	46.90	279.35	56.62	69.40	185.83
8683	1.56	9.78	3.00	63.45	33.67	208.90	26.77	229.28	181.54	272.35	48.46	280.48	66.06	75.26	182.00
8684	2.60	9.76	3.00	65.75	34.22	212.04	28.26	225.58	177.61	298.80	49.91	279.86	76.76	82.09	178.31
8685	3.64	9.74	3.00	68.94	35.36	216.32	30.01	220.64	173.78	329.42	51.13	277.33	88.92	89.79	174.82
8686	4.67	9.71	3.00	73.17	37.07	221.53	32.03	214.49	170.06	364.99	52.02	272.70	102.84	98.29	171.66
8687	5.69	9.67	3.00	78.67	39.34	227.43	34.40	207.19	166.47	406.48	52.47	265.83	118.92	107.57	168.94
8688	6.72	9.63	3.00	85.70	42.17	233.79	37.24	198.82	163.03	455.26	52.39	256.57	137.67	117.61	166.84
8689	7.74	9.59	3.00	94.71	45.60	240.44	40.70	189.47	159.74	513.24	51.77	244.90	159.83	128.38	165.55
8690	8.75	9.54	3.00	106.33	49.68	247.25	45.03	179.30	156.61	583.22	50.73	231.17	186.42	139.74	165.31
8691	9.76	9.48	3.00	121.57	54.56	254.18	50.61	168.47	153.66	669.50	49.72	216.64	218.97	151.33	166.36
8692	0.55	11.37	3.00	63.69	36.95	230.61	31.04	228.42	175.59	229.52	48.63	302.18	56.17	66.28	176.41
8693	1.65	11.34	3.00	63.88	36.86	232.30	32.29	225.72	172.01	249.07	49.53	303.43	66.45	72.00	173.18
8694	2.73	11.29	3.00	64.67	37.41	235.14	33.76	221.78	168.65	271.70	50.22	302.53	78.04	79.28	170.28
8695	3.81	11.22	3.00	66.20	38.62	238.91	35.46	216.63	165.50	297.88	50.59	299.33	91.22	8	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
8723	1.81	16.07	3.00	73.23	37.35	331.91	49.94	218.44	136.28	186.18	44.85	417.51	39.18	54.18	147.07
8724	3.00	15.93	3.00	70.28	38.16	333.20	50.67	213.75	135.13	195.70	44.10	416.11	48.58	60.91	147.89
8725	4.17	15.74	3.00	67.25	39.87	334.49	51.26	208.05	134.57	206.35	43.01	410.42	59.04	72.06	149.72
8726	5.33	15.49	3.00	64.23	42.45	335.64	51.74	201.39	134.49	218.19	41.70	400.22	70.81	86.26	152.60
8727	6.45	15.19	3.00	61.32	45.88	336.54	52.16	193.86	134.75	231.30	40.54	385.38	84.19	102.61	156.63
8728	7.56	14.83	3.00	58.68	50.14	337.08	52.61	185.54	135.23	245.79	40.35	366.06	99.53	120.57	161.88
8729	8.63	14.41	3.00	56.49	55.27	337.21	53.24	178.56	135.82	261.90	42.58	342.89	117.33	139.86	168.49
8730	9.67	13.95	3.00	55.02	61.45	336.89	54.26	167.05	136.42	280.00	49.42	317.59	138.18	160.37	176.61
8731	10.67	13.43	3.00	54.63	68.99	336.14	56.00	157.20	136.99	300.42	63.18	294.15	162.90	182.29	186.48
8732	0.61	17.73	3.00	81.84	29.21	375.07	53.81	221.05	113.90	166.37	35.78	469.33	17.72	49.62	131.98
8733	1.84	17.65	3.00	78.60	29.56	375.76	54.50	216.96	112.96	172.30	35.43	472.50	24.20	46.31	133.26
8734	3.05	17.50	3.00	75.01	31.17	375.97	54.96	211.89	113.16	178.72	34.88	470.70	31.64	51.06	135.77
8735	4.25	17.27	3.00	71.16	33.93	375.62	55.18	205.88	114.31	185.63	34.13	463.56	40.08	62.57	139.55
8736	5.42	16.97	3.00	67.10	37.61	374.64	55.17	198.98	116.19	193.01	33.31	450.84	49.62	78.32	144.61
8737	6.58	16.60	3.00	62.93	42.02	373.00	54.94	191.27	118.57	200.85	32.72	432.44	60.41	96.59	151.02
8738	7.70	16.16	3.00	58.75	47.06	370.67	54.55	182.86	121.22	209.11	33.06	408.58	72.62	116.55	158.81
8739	8.79	15.66	3.00	54.71	52.69	367.69	54.08	173.86	123.95	217.84	35.55	380.08	86.52	137.81	168.05
8740	9.85	15.08	3.00	50.98	59.02	364.12	53.66	164.43	126.61	227.24	41.80	348.95	102.44	160.27	178.79
8741	10.86	14.45	3.00	47.85	66.32	360.13	53.52	154.76	129.09	238.27	53.47	319.72	120.77	183.93	191.17
8742	15.44	9.49	3.00	428.98	309.68	347.00	289.42	145.96	172.01	1974.54	865.15	919.60	1175.84	310.19	305.47
8743	14.86	10.46	3.00	80.45	178.46	337.50	109.40	114.95	143.06	469.17	401.15	588.96	439.06	380.19	298.14
8744	14.22	11.40	3.00	58.96	127.86	343.36	70.88	121.21	138.50	357.60	229.08	447.31	265.33	311.74	262.84
8745	14.51	9.43	3.00	324.50	123.73	308.15	151.36	127.74	146.78	1595.43	195.17	521.83	671.80	176.37	215.04
8746	14.11	10.27	3.00	175.34	138.91	318.06	132.86	124.36	147.99	898.23	276.98	434.81	570.03	254.94	217.80
8747	13.66	11.08	3.00	86.67	120.38	325.33	90.00	125.89	142.09	497.14	217.40	359.97	370.52	273.09	227.38
8748	13.58	9.36	3.00	255.75	93.77	289.39	107.28	128.52	145.75	1315.37	101.97	320.26	489.74	172.21	189.49
8749	13.36	10.07	3.00	182.49	101.71	300.28	108.46	129.89	146.09	956.40	145.91	312.13	484.03	212.23	195.41
8750	13.11	10.78	3.00	119.86	105.12	310.67	95.16	131.91	144.56	656.44	167.90	300.79	408.83	233.99	202.61
8751	11.80	13.76	3.00	45.74	75.07	355.77	54.02	145.34	131.44	250.46	73.35	301.68	141.96	208.95	204.42
8752	11.56	12.90	3.00	55.76	77.83	334.73	58.79	148.10	137.69	322.89	85.36	280.77	191.23	203.99	196.64
8753	11.31	12.05	3.00	72.38	77.22	313.78	63.56	150.82	142.50	418.54	85.58	259.64	237.64	196.29	187.58
8754	12.67	13.03	3.00	45.09	86.02	351.18	55.76	136.39	133.61	266.04	101.57	307.45	167.91	236.60	219.81
8755	12.33	12.36	3.00	59.03	88.00	332.74	63.45	139.95	138.55	351.51	113.93	284.10	226.31	225.59	207.52
8756	11.99	11.69	3.00	79.42	85.76	314.59	69.79	143.52	142.44	460.28	110.15	261.31	275.33	212.10	194.77
8757	13.49	12.25	3.00	45.88	101.05	346.90	60.30	127.92	135.95	284.10	144.29	351.82	204.65	269.95	238.11
8758	13.07	11.78	3.00	65.70	102.03	330.89	71.57	132.20	139.64	391.70	156.84	313.57	275.65	250.03	219.81
8759	12.65	11.32	3.00	89.39	95.66	315.24	79.74	136.37	142.87	511.89	137.70	278.84	329.50	229.89	202.58
8760	10.55	9.42	4.00	133.51	57.74	242.09	55.94	146.44	135.12	747.54	46.73	195.05	250.54	231.80	167.53
8761	11.49	9.38	4.00	155.61	64.80	248.74	64.87	135.43	131.00	866.21	50.45	193.74	298.07	262.37	175.50
8762	12.42	9.34	4.00	186.51	73.71	256.05	77.66	124.46	126.47	1027.40	63.00	214.28	363.34	299.46	187.16
8763	10.73	10.27	4.00	114.66	62.67	256.24	61.21	144.65	132.12	645.99	50.36	208.89	266.88	229.68	173.23
8764	11.54	10.15	4.00	129.99	69.80	261.37	69.65	135.31	128.94	728.47	62.72	209.68	312.50	255.63	181.93
8765	12.35	10.02	4.00	150.26	79.46	266.94	81.68	126.12	125.45	832.50	87.17	228.95	375.09	286.73	193.32
8766	10.89	11.13	4.00	92.69	67.59	271.81	62.86	143.18	128.99	528.08	63.33	225.00	260.62	225.36	178.94
8767	11.58	10.92	4.00	102.12	74.13	274.77	69.73	135.43	126.88	580.65	79.00	225.76	300.05	246.82	187.30
8768	12.26	10.70	4.00	115.19	83.86	278.26	78.47	127.62	124.41	649.31	110.15	241.40	345.99	271.80	197.97
8769	0.51	9.77	4.00	62.87	32.29	193.19	25.80	218.87	175.30	260.38	49.17	264.68	56.70	75.43	176.23
8770	1.54	9.76	4.00	64.33	32.24	194.89	27.01	216.37	170.99	282.92	50.70	266.13	66.21	83.53	172.33
8771	2.56	9.74	4.00	66.48	32.76	197.77	28.44	212.71	166.73	308.64	52.03	265.83	76.87	93.05	168.63
8772	3.57	9.72	4.00	69.46	33.86	201.66	30.09	207.89	162.56	338.06	53.02	263.61	88.88	103.91	165.25
8773	4.58	9.69	4.00	73.38	35.51	206.35	31.99	201.96	158.48	371.85	53.57	259.32	102.51	116.17	162.32
8774	5.59	9.65	4.00	78.43	37.70	211.64	34.22	194.94	154.51	410.87	53.55	252.82	118.10	129.92	160.01
8775	6.60	9.62	4.00	84.82	40.43	217.35	36.87	186.89	150.62	456.29	52.85	243.99	136.12	145.38	158.53
8776	7.60	9.57	4.00	92.90	43.72	223.32	40.09	177.88	146.78	509.77	51.45	232.84	157.22	162.85	158.14
8777	8.59	9.52	4.00	103.20	47.63	229.46	44.10	168.01	142.96	573.77	49.44	219.74	182.33	182.77	159.19
8778	9.59	9.47	4.00	116.52	52.31	235.71	49.22	157.38	139.10	652.06	47.33	205.90	215.81	205.76	162.07
8779	0.54	11.31	4.00	64.15	34.13	214.95	30.86	216.60	165.77	239.01	49.00	286.45	52.83	71.81	167.54
8780	1.61	11.28	4.00	64.33	34.04	216.64	32.07	213.82	161.84	258.39	49.86	288.01	66.15	79.40	164.29
8781	2.68	11.23	4.00	65.07	34.59	219.31	33.48	209.90	158.10	280.45	50.41	287.43	77.67	88.91	161.43
8782	3.73	11.16	4.00	66.49	35.79	222.79	35.07	204.86	154.53	305.61	50.53	284.56	90.63	100.11	159.09
8783	4.78	11.07	4.00	68.76	37.62	226.88	36.89	198.74	151.13	334.40	50.13	279.25	105.32	112.91	157.40
8784	5.81	10.97	4.00	72.02	40.08	231.39	39.03	191.61	147.87	367.53	49.13	271.37	122.17	127.33	156.53
8785	6.83	10.86	4.00	76.52	43.15	236.19	41.60	183.54	144.72	405.95	47.58	260.87	141.73	143.46	156.69
8786	7.84	10.72	4.00	82.57	46.86	241.14	44.79	174.61	141.62	451.02	45.73	247.92	164.79	161.56	158.13
8787	8.84	10.58	4.00	90.64	51.32	246.15	48.89	164.93	138.52	504.84	44.35	233.16	192.56	182.00	161.16
8788	9.83	10.41	4.00	101.50	56.73	251.20	54.32	154.60	135.32	571.01	45.26	218.38	226.84	205.35	166.13
8789	0.56	12.86	4.00	66.57	35.31	239.86	36.17	214.58	155.04	217.89	48.20	313.60	50.81	67.54	158.33
8790	1.68	12.81	4.00	65.52	35.19	241.52	37.32	211.52	151.60	233.54	48.45	315.41	61.23	74.12	155.94
8791	2.79	12.73	4.00	64.80	35.78	243.94	38.58	207.34	148.48	251.23	48.28	314.62	72.80	83.36	154.16
8792	3.88	12.62	4.00	64.54	37.10	246.93	39.95	202.10	145.64	271.27	47.61	311.06	85.75	94.79	153.08
8793	4														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
8821	2.99	17.28	4.00	72.85	27.69	339.31	52.37	201.21	100.53	180.21	32.46	438.38	31.07	58.46	125.23
8822	4.16	17.06	4.00	69.05	30.48	339.38	52.70	195.17	101.59	186.93	31.67	431.65	39.39	69.36	129.20
8823	5.31	16.77	4.00	65.08	34.16	338.87	52.81	188.31	103.36	194.00	30.71	419.54	48.77	84.18	134.49
8824	6.45	16.41	4.00	61.04	38.53	337.74	52.72	180.69	105.60	201.42	29.86	401.97	59.33	101.47	141.12
8825	7.55	15.98	4.00	57.05	43.47	335.98	52.46	172.41	108.06	209.23	29.80	379.17	71.24	120.42	149.13
8826	8.62	15.48	4.00	53.26	48.94	333.63	52.10	163.61	110.52	217.55	31.77	351.93	84.74	140.61	158.51
8827	9.65	14.93	4.00	49.89	55.03	330.78	51.77	154.42	112.80	226.67	37.50	322.23	100.17	161.93	169.29
8828	10.65	14.31	4.00	47.24	61.98	327.61	51.68	145.01	114.76	237.64	48.68	294.51	117.95	184.37	181.51
8829	15.16	9.48	4.00	370.44	257.18	330.81	239.51	117.36	110.95	1900.61	776.09	950.61	1072.08	586.98	353.98
8830	14.59	10.43	4.00	80.85	158.28	317.76	98.77	107.09	116.18	461.45	375.12	588.19	408.13	391.42	279.93
8831	13.96	11.33	4.00	59.65	117.05	316.78	67.42	112.14	117.84	355.27	217.43	430.18	256.34	309.41	248.56
8832	14.25	9.42	4.00	287.10	114.93	284.34	134.32	107.48	115.58	1530.43	181.84	444.79	633.22	401.60	235.27
8833	13.85	10.23	4.00	159.45	124.48	293.38	117.00	111.87	118.61	859.71	255.25	397.50	529.07	350.64	234.05
8834	13.41	11.03	4.00	85.17	109.08	299.68	82.90	116.32	119.40	489.90	200.14	337.35	350.52	306.13	228.93
8835	13.34	9.35	4.00	229.40	89.19	266.39	98.57	114.30	121.23	1246.46	99.52	281.60	464.57	344.70	205.66
8836	13.12	10.05	4.00	166.30	94.46	276.91	97.81	117.80	121.67	910.61	137.00	284.46	451.13	318.20	210.21
8837	12.87	10.73	4.00	113.35	96.05	286.23	86.66	121.45	122.13	635.88	153.54	278.80	382.73	292.78	209.99
8838	11.58	13.64	4.00	45.69	70.19	324.22	52.17	135.85	116.37	249.94	68.00	278.03	138.53	208.20	194.54
8839	11.34	12.80	4.00	55.70	72.00	306.24	56.23	138.47	121.06	320.68	78.08	259.99	185.03	214.90	190.30
8840	11.10	11.97	4.00	71.42	71.36	288.70	60.33	141.03	125.24	412.60	77.26	242.26	227.86	220.33	184.82
8841	12.43	12.93	4.00	45.67	80.26	320.84	53.79	127.16	117.46	266.01	95.37	285.49	163.72	234.55	209.31
8842	12.10	12.27	4.00	59.11	81.20	304.76	60.36	130.45	120.77	348.91	105.03	263.47	217.97	239.05	202.24
8843	11.77	11.62	4.00	77.91	79.05	289.42	65.68	133.74	124.00	452.34	100.11	243.51	262.40	241.23	194.14
8844	13.24	12.17	4.00	47.24	93.90	318.15	57.92	118.93	118.19	285.33	137.03	331.80	199.25	267.00	226.06
8845	12.83	11.71	4.00	65.64	93.56	303.64	67.47	122.73	120.15	388.54	144.99	292.16	264.06	267.84	215.88
8846	12.42	11.26	4.00	87.03	87.78	290.15	74.05	126.57	122.74	501.72	125.43	259.12	311.63	266.30	204.52
8847	-10.73	9.45	3.00	65.81	55.72	274.89	37.72	190.25	226.04	132.50	43.35	221.21	29.40	111.13	224.41
8848	-11.68	9.40	3.00	66.11	58.33	286.63	40.59	183.42	228.83	125.07	44.46	227.98	33.75	121.63	227.20
8849	-12.63	9.36	3.00	66.10	60.91	299.32	43.38	176.49	231.47	116.30	45.49	241.84	38.48	131.52	229.98
8850	-10.89	10.34	3.00	69.95	57.95	287.48	38.97	191.52	220.97	129.13	45.06	234.00	29.34	120.33	219.16
8851	-11.72	10.21	3.00	69.79	59.98	296.95	41.15	185.69	223.96	122.60	45.59	239.53	33.59	128.64	222.21
8852	-12.55	10.07	3.00	69.39	62.07	306.85	43.24	179.66	226.79	115.33	46.14	250.10	37.98	136.14	225.23
8853	-11.04	11.22	3.00	74.05	59.83	301.96	40.12	193.23	215.26	125.69	46.06	248.70	29.84	129.49	213.40
8854	-11.76	11.00	3.00	73.49	61.35	308.44	41.53	188.19	218.58	120.24	46.12	252.06	33.67	135.47	216.86
8855	-12.46	10.77	3.00	72.60	63.03	315.16	43.30	182.74	221.52	114.01	46.46	258.77	37.83	140.87	219.96
8856	-0.52	9.79	3.00	60.99	34.24	206.84	24.56	232.90	189.56	230.01	45.32	276.57	48.31	64.71	189.72
8857	-1.55	9.79	3.00	60.59	35.27	208.05	23.92	232.86	193.57	213.34	43.86	272.35	41.02	61.43	193.59
8858	-2.58	9.77	3.00	60.61	36.72	210.81	23.67	231.64	197.54	199.02	42.57	266.87	34.65	59.80	197.39
8859	-3.61	9.75	3.00	60.95	38.52	215.05	23.89	229.30	201.44	186.75	41.55	260.34	29.23	60.09	201.11
8860	-4.64	9.73	3.00	61.52	40.59	220.64	24.62	225.90	205.26	176.24	40.84	252.99	24.88	62.44	204.72
8861	-5.66	9.69	3.00	62.24	42.87	227.43	25.86	221.54	208.97	167.21	40.48	245.11	21.84	66.85	208.22
8862	-6.69	9.65	3.00	63.05	45.32	235.27	27.58	216.34	212.59	159.36	40.49	237.12	20.39	73.15	211.60
8863	-7.71	9.61	3.00	63.88	47.88	244.00	29.71	210.43	216.11	152.35	40.86	229.66	20.68	81.07	214.90
8864	-8.73	9.55	3.00	64.68	50.53	253.55	32.19	203.96	219.54	145.84	41.55	223.60	22.54	90.30	218.13
8865	-9.74	9.50	3.00	65.37	53.23	263.89	34.91	197.12	222.90	139.38	42.50	220.22	25.62	100.50	221.32
8866	-0.53	11.38	3.00	63.93	37.58	230.08	30.01	229.86	179.38	213.06	47.59	298.89	47.19	62.51	179.90
8867	-1.60	11.36	3.00	64.48	38.70	230.73	29.23	230.10	183.32	199.22	46.57	293.79	39.40	60.89	183.56
8868	-2.67	11.32	3.00	65.22	40.22	232.70	28.77	229.20	187.39	187.36	45.63	287.22	32.55	61.46	187.35
8869	-3.73	11.26	3.00	66.09	42.05	235.98	28.69	227.20	191.58	177.18	44.85	279.43	26.68	64.19	191.24
8870	-4.79	11.18	3.00	66.99	44.13	240.50	29.04	224.20	195.84	168.41	44.27	270.72	21.97	68.91	195.20
8871	-5.84	11.08	3.00	67.87	46.36	246.16	29.83	220.28	200.15	160.79	43.93	261.49	18.81	75.30	199.20
8872	-6.88	10.96	3.00	68.67	48.70	252.85	31.06	215.54	204.47	154.01	43.84	252.26	17.65	83.05	203.24
8873	-7.92	10.82	3.00	69.33	51.08	260.45	32.67	210.12	208.79	147.78	43.98	243.76	16.84	91.81	207.30
8874	-8.95	10.66	3.00	69.81	53.48	268.87	34.61	204.13	213.07	141.76	44.30	236.98	21.37	101.27	211.38
8875	-9.96	10.49	3.00	70.05	55.87	278.08	36.80	197.69	217.29	135.60	44.77	233.21	25.24	111.07	215.47
8876	-0.55	12.97	3.00	67.99	40.73	257.12	36.00	227.26	168.64	196.85	49.77	326.92	42.47	60.10	170.06
8877	-1.66	12.94	3.00	69.29	41.92	257.25	35.11	227.84	172.48	185.86	49.13	320.70	34.61	60.87	173.37
8878	-2.76	12.87	3.00	70.58	43.47	258.46	34.44	227.33	176.65	176.38	48.46	312.74	27.64	64.23	177.05
8879	-3.85	12.77	3.00	71.81	45.30	260.79	34.05	225.78	181.11	168.18	47.81	303.38	21.63	69.72	181.04
8880	-4.94	12.63	3.00	72.90	47.31	264.20	33.96	223.25	185.83	161.01	47.25	293.00	16.91	76.83	185.29
8881	-6.02	12.46	3.00	73.80	49.44	268.64	34.22	219.83	190.73	154.62	46.80	282.09	14.15	85.07	189.77
8882	-7.08	12.26	3.00	74.48	51.63	274.03	34.84	215.59	195.77	148.75	46.48	271.29	14.13	94.04	194.43
8883	-8.13	12.03	3.00	74.88	53.81	280.26	35.80	210.64	200.86	143.11	46.28	261.42	16.64	103.39	199.23
8884	-9.16	11.77	3.00	74.96	55.97	287.23	37.08	205.04	205.95	137.43	46.18	253.53	20.68	112.80	204.12
8885	-10.18	11.48	3.00	74.65	58.09	294.82	38.63	198.86	211.00	131.42	46.18	248.89	25.50	121.95	209.07
8886	-0.57	14.56	3.00	72.97	41.64	289.86	42.25	225.48	156.74	182.40	49.75	362.91	34.21	58.06	160.16
8887	-1.71	14.51	3.00	74.81	42.92	289.48	41.26	226.47	160.42	173.94	49.42	355.24	26.66	62.07	162.94
8888	-2.85	14.42	3.00	76.47	44.58	289.89	40.36	226.41	164.63	166.55	48.96	345.47	19.84	68.70	166.30
8889	-3.97	14.27	3.00	77.90	46.50	291.13	39.59	225.34	169.33	160.04	48.43	334.02	13.90	77.06	170.21
8890	-5.09	14.08	3.00	79.04	48.59	293.21	39.01	223.31	174.45	154.17	47.89	321.41	9.50	86.42	174.60
8891	-6.19	13.85	3.00	79.87	50.79	296.10	3								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
8919	-14.50	9.43	3.00	65.66	66.61	327.95	49.00	162.43	234.25	94.13	47.52	292.67	48.86	147.37	233.65
8920	-14.09	10.28	3.00	69.78	66.80	332.13	47.65	169.44	227.79	97.55	47.27	289.96	47.05	150.71	227.17
8921	-13.64	11.10	3.00	73.81	66.61	336.66	46.34	176.34	220.77	101.16	46.80	288.62	45.09	153.64	220.19
8922	-13.57	9.37	3.00	65.83	63.71	313.30	46.26	169.27	233.14	105.10	46.35	263.48	43.73	140.46	231.97
8923	-13.34	10.09	3.00	69.26	64.33	318.70	45.51	173.95	227.98	106.09	46.56	267.02	42.65	143.73	226.75
8924	-13.08	10.80	3.00	72.65	64.69	324.30	44.67	178.79	222.37	107.70	46.55	271.13	41.33	146.65	221.17
8925	-11.79	13.78	3.00	85.22	63.12	355.16	43.83	198.78	191.50	112.50	43.08	300.67	38.96	159.59	191.66
8926	-11.52	12.93	3.00	81.94	62.65	336.71	42.75	196.53	200.93	117.26	45.52	282.74	34.73	149.26	199.84
8927	-11.25	12.09	3.00	78.16	61.42	318.53	41.43	194.74	208.40	121.50	46.19	265.02	31.71	139.19	206.69
8928	-12.66	13.04	3.00	82.16	65.34	353.14	44.76	191.23	200.57	106.55	44.06	298.24	42.77	161.41	200.71
8929	-12.30	12.38	3.00	79.72	64.32	337.60	43.79	190.21	207.44	111.84	45.87	282.08	38.69	152.39	206.51
8930	-11.95	11.73	3.00	76.84	62.83	322.08	42.49	189.54	212.83	116.44	46.24	266.13	35.48	143.42	211.28
8931	-13.48	12.26	3.00	78.68	67.22	351.22	46.04	183.02	209.44	100.30	45.16	301.22	46.20	161.54	209.66
8932	-13.05	11.80	3.00	77.10	65.90	338.48	44.99	183.38	213.85	106.08	46.40	285.50	42.29	154.27	213.16
8933	-12.62	11.34	3.00	75.14	64.05	325.53	43.68	183.94	217.34	111.01	46.16	270.22	39.09	146.83	216.07
8934	-10.53	9.43	4.00	64.56	53.61	253.67	36.01	182.73	217.56	130.65	39.90	207.07	27.89	111.12	216.13
8935	-11.47	9.39	4.00	64.57	56.21	264.00	38.69	176.26	220.22	121.97	40.49	213.14	32.24	120.37	218.80
8936	-12.41	9.35	4.00	64.40	58.87	274.83	41.40	169.61	222.70	112.52	41.20	225.02	36.87	128.87	221.43
8937	-10.69	10.30	4.00	68.48	55.31	264.57	37.09	184.21	212.04	126.74	41.00	218.17	27.97	119.56	210.48
8938	-11.51	10.18	4.00	68.17	57.48	272.68	39.20	178.64	214.92	119.43	41.31	222.73	32.19	126.87	213.43
8939	-12.33	10.04	4.00	67.71	59.75	280.95	41.31	172.86	217.68	111.82	41.80	231.49	36.45	133.35	216.36
8940	-10.84	11.17	4.00	72.42	56.82	276.61	38.21	186.05	205.76	123.01	41.64	230.41	28.68	128.01	204.19
8941	-11.54	10.95	4.00	71.81	58.57	282.04	39.65	181.25	209.10	117.17	41.73	232.87	32.39	133.28	207.65
8942	-12.23	10.73	4.00	70.93	60.50	287.64	41.48	176.08	212.09	110.80	42.22	238.27	36.37	137.99	210.79
8943	-0.51	9.77	4.00	61.98	32.84	192.79	24.84	220.20	179.65	240.83	47.52	261.61	48.25	68.95	180.26
8944	-1.52	9.77	4.00	61.57	33.88	193.71	24.15	220.41	183.95	223.78	45.89	257.11	40.76	64.31	184.30
8945	-2.53	9.75	4.00	61.52	35.32	196.03	23.81	219.53	188.20	208.81	44.33	251.40	34.13	61.78	188.30
8946	-3.54	9.73	4.00	61.75	37.09	199.69	23.90	217.62	192.35	195.62	42.91	244.70	28.41	61.60	192.21
8947	-4.55	9.71	4.00	62.15	39.10	204.62	24.45	214.74	196.39	183.97	41.71	237.27	23.73	63.85	196.01
8948	-5.56	9.67	4.00	62.66	41.30	210.67	25.47	210.97	200.29	173.60	40.75	229.45	20.37	68.37	199.68
8949	-6.57	9.64	4.00	63.21	43.63	217.73	26.95	206.41	204.05	164.23	40.07	221.68	18.70	74.81	203.21
8950	-7.57	9.59	4.00	63.73	46.07	225.66	28.82	201.17	207.67	155.58	39.68	214.58	18.92	82.76	206.61
8951	-8.57	9.54	4.00	64.17	48.59	234.36	31.01	195.36	211.15	147.33	39.58	208.98	20.86	91.78	209.90
8952	-9.57	9.48	4.00	64.49	51.18	243.77	33.45	189.12	214.50	139.13	39.75	206.02	24.04	101.42	213.10
8953	-0.52	11.32	4.00	64.37	34.79	214.28	29.82	218.20	169.85	222.39	47.91	282.88	46.72	66.56	171.09
8954	-1.57	11.30	4.00	64.87	35.93	214.66	28.99	218.68	174.04	208.08	46.74	277.55	38.73	63.85	174.84
8955	-2.62	11.26	4.00	65.54	37.47	216.23	28.44	218.10	178.33	195.49	45.55	270.78	31.62	63.70	178.72
8956	-3.66	11.20	4.00	66.28	39.32	219.00	28.22	216.50	182.68	184.35	44.42	262.88	25.43	66.04	182.70
8957	-4.70	11.12	4.00	67.03	41.39	222.92	28.39	213.96	187.06	174.43	43.41	254.15	20.38	70.60	186.72
8958	-5.73	11.02	4.00	67.71	43.60	227.90	28.97	210.56	191.45	165.49	42.55	245.02	16.90	76.93	190.77
8959	-6.76	10.91	4.00	68.28	45.91	233.85	29.97	206.37	195.81	157.28	41.88	236.00	15.62	84.58	194.82
8960	-7.77	10.77	4.00	68.67	48.28	240.65	31.34	201.49	200.11	149.54	41.42	227.81	16.75	93.12	198.86
8961	-8.78	10.62	4.00	68.86	50.69	248.19	33.06	196.01	204.34	141.99	41.16	221.33	19.74	102.12	202.89
8962	-9.78	10.45	4.00	68.82	53.13	256.35	35.04	190.02	208.47	134.38	41.10	217.69	23.79	111.21	206.89
8963	-0.54	12.87	4.00	67.79	36.06	238.95	35.11	216.49	158.79	204.46	47.64	309.35	41.62	64.17	161.24
8964	-1.63	12.83	4.00	69.03	37.31	238.80	34.18	217.30	162.84	192.91	46.90	302.94	33.56	64.00	164.56
8965	-2.70	12.77	4.00	70.24	38.96	239.62	33.42	217.09	167.16	182.66	46.04	294.84	26.33	66.69	168.24
8966	-3.78	12.67	4.00	71.36	40.90	241.45	32.91	215.88	171.73	173.50	45.15	285.39	20.00	71.73	172.21
8967	-4.85	12.54	4.00	72.31	43.05	244.28	32.68	213.75	176.49	165.21	44.29	275.00	14.90	78.53	176.43
8968	-5.90	12.37	4.00	73.05	45.32	248.05	32.78	210.75	181.40	157.59	43.51	264.17	11.90	86.50	180.86
8969	-6.95	12.18	4.00	73.55	47.67	252.68	33.23	206.95	186.40	150.43	42.85	253.51	12.10	95.15	185.45
8970	-7.98	11.96	4.00	73.75	50.04	258.06	34.05	202.42	191.45	143.49	42.34	243.79	15.07	104.06	190.17
8971	-8.99	11.70	4.00	73.62	52.42	264.07	35.22	197.22	196.50	136.57	41.98	235.98	19.43	112.87	194.98
8972	-9.99	11.42	4.00	73.14	54.81	270.57	36.71	191.40	201.51	129.49	41.82	231.15	24.38	121.25	199.88
8973	-10.56	11.41	4.00	72.10	55.53	267.72	40.49	215.27	145.59	188.03	45.60	342.39	33.08	62.29	150.28
8974	-1.68	14.37	4.00	73.88	36.95	267.05	39.48	216.48	149.47	178.99	45.21	334.62	25.35	65.31	153.03
8975	-2.79	14.27	4.00	75.47	38.81	267.07	38.54	216.68	153.84	170.85	44.67	324.78	18.31	71.16	156.38
8976	-3.90	14.14	4.00	76.81	41.00	267.83	37.72	215.92	158.65	163.42	44.05	313.31	12.04	78.92	160.27
8977	-4.99	13.95	4.00	77.85	43.39	269.35	37.09	214.22	163.86	156.55	43.42	300.72	7.26	87.77	164.64
8978	-6.07	13.72	4.00	78.56	45.92	271.60	36.69	211.64	169.40	150.07	42.85	287.60	6.66	97.13	169.45
8979	-7.14	13.45	4.00	78.91	48.50	274.53	36.59	208.21	175.19	143.79	42.36	274.66	10.48	106.52	174.64
8980	-8.18	13.14	4.00	78.87	51.10	278.04	36.83	203.98	181.15	137.57	42.00	262.78	15.55	115.59	180.15
8981	-9.21	12.78	4.00	78.41	53.66	282.02	37.44	199.00	187.21	131.24	41.79	252.94	20.86	124.01	185.91
8982	-10.20	12.39	4.00	77.52	56.16	286.34	38.46	193.28	193.26	124.68	41.74	246.27	26.16	131.51	191.85
8983	-0.58	15.96	4.00	77.09	32.28	300.65	45.61	214.48	128.15	173.84	40.75	382.44	21.90	61.61	137.04
8984	-1.73	15.90	4.00	79.25	33.99	299.46	44.54	216.16	131.90	166.88	40.66	372.98	14.92	68.37	139.08
8985	-2.88	15.78	4.00	81.06	36.29	298.56	43.44	216.85	136.44	160.45	40.47	360.95	8.43	77.47	142.02
8986	-4.01	15.60	4.00	82.50	39.00	298.04	42.37	216.57	141.72	154.42	40.25	346.90	2.43	87.74	145.81
8987	-5.14	15.37	4.00	83.53	41.97	297.94	41.37	215.34	147.66	148.68	40.06	331.43	3.57	98.38	150.40
8988	-6.24	15.07	4.00	84.13	45.07	298.27	40.52	213.18	154.17	143.10	39.95	315.29	9.04	108.84	155.74
8989	-7.33	14.72	4.00	84.27	48.20	299.02	39.90	210.11	161.12	137.57	39.96	299.29	1		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
9017	-11.72	11.66	4.00	75.14	60.00	293.15	40.80	182.85	203.05	113.59	42.15	244.19	34.26	140.77	201.76
9018	-13.23	12.18	4.00	77.76	65.19	316.55	45.01	177.11	199.79	99.11	42.78	272.13	44.38	156.98	200.07
9019	-12.80	11.73	4.00	75.62	63.36	306.32	43.38	177.15	203.99	103.39	42.44	259.32	40.78	150.41	203.45
9020	-12.39	11.28	4.00	73.51	61.48	296.08	42.03	177.52	207.72	108.11	42.17	247.43	37.63	143.67	206.68
9021	-17.56	-2.50	4.00	26.83	66.00	302.59	61.68	91.38	258.51	42.47	45.89	370.90	61.97	109.21	258.58
9022	-17.47	-3.10	4.00	29.73	66.27	302.76	61.06	94.82	257.14	44.95	45.86	367.32	61.51	111.54	257.25
9023	-16.43	-2.50	4.00	29.19	62.04	287.03	57.29	105.90	257.43	63.68	42.79	312.21	57.43	113.33	257.40
9024	-16.34	-3.10	4.00	31.64	62.26	287.41	56.84	108.59	256.22	65.12	42.86	309.81	57.04	114.97	256.17
9025	-15.29	-2.50	4.00	31.75	58.41	271.76	52.85	119.41	255.56	84.10	39.87	261.43	52.81	111.32	255.46
9026	-15.22	-3.10	4.00	33.94	58.67	272.27	52.45	121.70	254.32	84.95	40.02	260.16	52.36	112.73	254.17
9027	-14.16	-2.50	4.00	34.01	54.98	257.13	48.36	132.16	253.46	102.09	36.95	219.54	48.15	104.38	253.34
9028	-14.09	-3.10	4.00	35.99	55.24	257.73	48.02	134.11	252.22	102.56	37.20	219.28	47.67	105.75	252.02
9029	-13.03	-2.50	4.00	35.80	51.70	243.37	43.90	144.50	251.31	117.37	34.23	188.66	43.56	94.22	251.17
9030	-12.96	-3.10	4.00	37.61	51.97	244.02	43.60	146.14	250.03	117.59	34.57	189.26	43.06	95.66	249.82
9031	-11.90	-2.50	4.00	37.13	48.56	230.25	39.51	156.59	249.11	130.29	31.91	169.19	39.10	82.36	248.98
9032	-11.83	-3.10	4.00	38.81	48.84	230.96	39.25	157.94	247.80	130.35	32.33	170.45	38.61	83.94	247.59
9033	-10.76	-2.50	4.00	38.19	45.55	217.47	35.22	168.37	246.83	141.73	30.21	159.84	34.80	70.07	246.70
9034	-10.71	-3.10	4.00	39.75	45.83	218.27	35.00	169.44	245.47	141.67	30.68	161.55	34.34	71.81	245.28
9035	-9.63	-2.50	4.00	39.14	42.68	204.78	31.06	179.64	244.36	152.60	29.26	158.16	30.70	58.00	244.25
9036	-9.58	-3.10	4.00	40.58	42.96	205.72	30.88	180.44	242.96	152.45	29.77	160.13	30.30	60.22	242.79
9037	-8.50	-2.50	4.00	40.13	39.97	192.09	27.01	190.14	241.59	163.73	29.17	161.47	26.80	48.09	241.50
9038	-8.45	-3.10	4.00	41.45	40.23	193.21	26.88	190.71	240.16	163.47	29.67	163.57	26.53	50.17	240.02
9039	-7.36	-2.50	4.00	41.34	37.42	179.47	23.10	199.66	238.43	175.83	29.93	167.57	23.18	40.74	238.35
9040	-7.33	-3.10	4.00	42.51	37.68	180.81	23.03	200.01	236.99	175.44	30.39	169.62	23.12	42.86	236.87
9041	-6.23	-2.50	4.00	42.89	35.07	167.11	19.35	207.99	234.79	189.52	31.48	174.92	19.95	37.73	234.74
9042	-6.20	-3.10	4.00	43.90	35.31	168.73	19.38	208.16	233.35	188.96	31.88	177.08	20.24	39.65	233.27
9043	-5.10	-2.50	4.00	44.91	32.94	155.34	15.83	214.98	230.63	205.36	33.71	182.54	17.34	39.67	230.60
9044	-5.07	-3.10	4.00	45.73	33.16	157.28	15.98	215.00	229.22	204.57	34.03	184.70	18.14	41.12	229.16
9045	-3.97	-2.50	4.00	47.51	31.07	144.59	12.64	220.53	225.95	223.86	36.48	189.80	15.64	45.54	225.92
9046	-3.94	-3.10	4.00	48.13	31.28	146.88	12.95	220.42	224.58	222.78	36.71	191.95	17.15	46.47	224.54
9047	-2.83	-2.50	4.00	50.79	29.52	135.41	9.89	224.53	220.76	245.53	39.66	196.27	15.12	53.78	220.75
9048	-2.82	-3.10	4.00	51.19	29.70	138.05	10.43	224.33	219.45	244.09	39.82	198.42	17.45	54.27	219.43
9049	-1.70	-2.50	4.00	54.82	28.33	128.37	7.77	226.95	215.14	270.92	43.14	201.64	15.86	63.33	215.14
9050	-1.69	-3.10	4.00	55.01	28.49	131.32	8.61	226.68	213.90	269.03	43.22	203.79	19.01	63.49	213.90
9051	-0.57	-2.50	4.00	59.69	27.57	124.00	6.46	227.74	209.17	300.62	46.76	205.65	17.65	73.67	209.18
9052	-0.56	-3.10	4.00	59.65	27.72	127.19	7.63	227.42	208.01	298.20	46.79	207.81	21.55	73.59	208.02
9053	-17.80	-2.50	3.00	28.23	65.97	331.29	63.61	99.13	265.39	44.01	50.73	401.55	63.98	119.05	265.45
9054	-17.72	-3.10	3.00	31.04	66.28	331.54	62.95	102.28	264.07	46.43	50.56	397.84	63.52	121.01	264.16
9055	-16.66	-2.50	3.00	31.87	62.08	313.07	59.44	114.31	264.42	68.70	48.11	335.87	59.61	122.53	264.36
9056	-16.57	-3.10	3.00	34.17	62.38	313.57	58.98	116.79	263.30	70.00	48.11	333.50	59.22	123.84	263.22
9057	-15.51	-2.50	3.00	34.78	58.46	294.93	54.90	127.73	262.49	90.25	44.77	276.92	54.84	118.57	262.37
9058	-15.43	-3.10	3.00	36.80	58.80	295.57	54.50	129.87	261.33	90.94	44.88	275.83	54.40	119.75	261.14
9059	-14.36	-2.50	3.00	36.95	54.99	278.36	50.12	140.31	260.45	108.23	41.26	229.93	49.88	108.61	260.30
9060	-14.29	-3.10	3.00	38.78	55.34	279.05	49.80	142.17	259.26	108.56	41.48	229.94	49.41	109.88	259.03
9061	-13.21	-2.50	3.00	38.05	51.63	263.37	45.24	152.78	258.47	121.63	37.67	196.97	44.88	95.29	258.32
9062	-13.14	-3.10	3.00	39.77	51.98	264.08	44.97	154.35	257.22	121.78	37.99	197.85	44.41	96.73	256.98
9063	-12.06	-2.50	3.00	38.57	48.38	249.43	40.43	165.47	256.56	131.96	34.37	177.76	40.03	81.23	256.41
9064	-12.00	-3.10	3.00	40.20	48.72	250.19	40.21	166.74	255.25	132.02	34.77	179.28	39.58	82.86	255.02
9065	-10.91	-2.50	3.00	38.86	45.25	235.88	35.80	178.15	254.60	140.67	31.59	169.75	35.41	67.81	254.47
9066	-10.86	-3.10	3.00	40.41	45.60	236.72	35.61	179.12	253.24	140.66	32.06	171.68	35.01	69.62	253.03
9067	-9.76	-2.50	3.00	39.15	42.28	222.32	31.35	190.42	252.48	148.92	29.49	169.60	31.05	55.97	252.36
9068	-9.71	-3.10	3.00	40.59	42.61	223.30	31.21	191.11	251.06	148.84	30.00	171.73	30.72	57.92	250.89
9069	-8.61	-2.50	3.00	39.59	39.46	208.62	27.10	201.93	250.06	157.61	28.21	174.13	26.97	46.64	249.97
9070	-8.57	-3.10	3.00	40.92	39.79	209.80	27.00	202.37	248.61	157.46	28.73	176.36	26.77	48.67	248.47
9071	-7.47	-2.50	3.00	40.34	36.84	194.87	23.03	212.38	247.26	167.50	27.83	181.01	23.21	40.88	247.18
9072	-7.43	-3.10	3.00	41.53	37.15	196.30	23.00	212.60	245.79	167.23	28.33	183.27	23.23	42.81	245.68
9073	-6.32	-2.50	3.00	41.53	34.42	181.31	19.18	221.54	244.00	179.21	28.34	188.76	19.89	39.40	243.94
9074	-6.29	-3.10	3.00	42.56	34.71	183.05	19.22	221.57	242.53	178.79	28.81	191.02	20.24	41.02	242.45
9075	-5.17	-2.50	3.00	43.28	32.23	168.34	15.57	229.25	240.25	193.32	29.69	196.47	17.19	41.87	240.21
9076	-5.14	-3.10	3.00	44.12	32.51	170.41	15.73	229.13	238.79	192.68	30.09	198.73	18.05	43.03	238.74
9077	-4.02	-2.50	3.00	45.69	30.32	156.47	12.29	235.40	236.00	210.34	31.76	203.61	15.39	47.01	235.98
9078	-4.00	-3.10	3.00	46.33	30.57	158.91	12.60	235.15	234.58	209.43	32.09	205.86	16.94	47.74	234.55
9079	-2.87	-2.50	3.00	48.85	28.73	146.33	9.44	239.89	231.29	230.80	34.40	209.83	14.78	53.56	231.28
9080	-2.86	-3.10	3.00	49.28	28.96	149.14	9.99	239.55	229.92	229.55	34.66	212.07	17.13	53.94	229.90
9081	-1.72	-2.50	3.00	52.84	27.51	138.58	7.23	242.68	226.16	255.28	37.46	214.87	15.44	60.71	226.15
9082	-1.71	-3.10	3.00	53.04	27.72	141.72	8.09	242.27	224.86	253.60	37.65	217.11	18.58	60.86	224.85
9083	-0.57	-2.50	3.00	57.72	26.73	133.84	5.93	243.72	220.68	284.40	40.77	218.53	17.19	68.06	220.68
9084	-0.57	-3.10	3.00	57.70	26.92	137.22	7.12	243.27	219.46	282.20	40.90	220.78	21.05	68.04	219.45
9085	17.56	-2.50	4.00	750.08	183.50	362.26	188.47	144.55	17.48	4226.01	792.06	2053.81	189.20	803.72	74.34
9086	16.43	-2.50	4.00	544.85	143.34	259.17	97.66	92.89	78.78	3009.59	522.80	896.08	104.53	450.54	116.54
9087	15.29	-2.50	4.00	415.84	118.78	223.12	54.92	92.14	103.63	2287.62	356.97	444.50	58.34	399.69	123.18
9088	14.16	-2.50													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
9115	1.69	-3.10	4.00	71.77	27.74	127.63	7.89	223.98	195.60	372.09	53.72	210.91	28.48	95.92	195.65
9116	0.56	-3.10	4.00	65.21	27.45	125.96	7.47	226.53	201.88	332.28	50.35	210.26	24.78	84.39	201.91
9117	17.80	-2.50	3.00	726.85	159.54	322.58	202.62	99.34	156.12	3375.98	483.18	1616.48	209.05	55.87	158.92
9118	16.66	-2.50	3.00	550.39	136.45	283.21	105.16	105.64	144.38	2681.06	405.00	1123.67	105.65	137.41	163.84
9119	15.51	-2.50	3.00	429.80	117.47	247.47	58.59	107.40	138.30	2185.21	319.68	593.27	58.15	50.27	161.54
9120	14.36	-2.50	3.00	342.70	102.10	231.53	32.37	116.21	141.20	1803.73	236.59	320.78	31.61	61.49	155.10
9121	13.21	-2.50	3.00	280.90	87.15	222.39	17.09	129.51	146.72	1512.16	161.17	181.77	18.09	103.72	153.89
9122	12.06	-2.50	3.00	234.16	73.53	214.64	9.37	144.57	153.07	1282.79	101.14	126.45	18.44	122.92	156.64
9123	10.91	-2.50	3.00	198.62	62.01	206.62	7.63	159.97	159.59	1096.33	61.37	126.82	25.43	129.06	161.36
9124	9.76	-2.50	3.00	170.36	52.75	197.77	8.44	174.92	166.03	941.50	44.24	146.79	31.42	128.43	166.90
9125	8.61	-2.50	3.00	147.40	45.44	188.06	9.25	188.90	172.35	811.58	44.03	167.74	34.69	124.34	172.77
9126	7.47	-2.50	3.00	128.47	39.73	177.70	9.54	201.60	178.56	702.00	48.47	185.16	35.43	118.49	178.76
9127	6.32	-2.50	3.00	112.70	35.30	167.10	9.37	212.79	184.71	609.33	51.73	198.58	34.31	111.79	184.79
9128	5.17	-2.50	3.00	99.44	31.91	156.80	8.85	222.34	190.83	530.81	52.84	208.39	32.00	104.68	190.86
9129	4.02	-2.50	3.00	88.21	29.42	147.45	8.08	230.17	196.93	464.19	52.15	215.10	29.06	97.43	196.93
9130	2.87	-2.50	3.00	78.65	27.73	139.80	7.16	236.24	203.01	407.64	50.17	219.15	25.85	90.11	203.01
9131	1.72	-2.50	3.00	70.50	26.77	134.61	6.26	240.52	209.03	359.62	47.38	220.89	22.66	82.79	209.03
9132	0.57	-2.50	3.00	63.57	26.46	132.51	5.69	243.01	214.95	318.89	44.15	220.61	19.69	75.43	214.95
9133	17.72	-3.10	3.00	729.47	158.58	319.58	198.63	101.60	157.02	3386.23	474.46	1572.74	260.37	55.47	174.24
9134	16.57	-3.10	3.00	548.00	133.54	284.12	101.12	105.21	144.06	2672.09	392.55	1097.27	117.04	140.43	195.57
9135	15.43	-3.10	3.00	426.77	118.24	248.96	55.30	108.56	137.28	2172.67	318.88	579.01	59.11	53.38	177.16
9136	14.29	-3.10	3.00	340.22	102.78	233.08	29.77	117.27	140.72	1793.96	234.09	312.61	30.67	59.38	161.89
9137	13.14	-3.10	3.00	278.51	87.21	223.92	15.88	130.36	146.41	1504.74	156.09	179.01	19.90	102.70	156.92
9138	12.00	-3.10	3.00	232.74	72.93	216.18	10.23	145.18	152.82	1275.95	95.00	128.61	24.89	122.64	157.99
9139	10.86	-3.10	3.00	197.27	61.18	208.24	9.84	160.38	159.29	1088.92	57.18	131.01	34.31	129.10	161.87
9140	9.71	-3.10	3.00	168.97	51.98	199.54	10.75	175.13	165.65	933.47	43.82	150.85	41.26	128.54	166.93
9141	8.57	-3.10	3.00	146.00	44.88	190.03	11.35	188.95	171.86	803.40	45.55	171.28	44.56	124.40	172.49
9142	7.43	-3.10	3.00	127.13	39.38	179.92	11.44	201.50	177.97	694.18	50.01	188.26	44.78	118.47	178.27
9143	6.29	-3.10	3.00	111.48	35.13	169.60	11.10	212.57	184.02	602.22	52.80	201.36	42.87	111.68	184.15
9144	5.14	-3.10	3.00	98.38	31.87	159.59	10.46	222.02	190.04	524.59	53.49	210.96	39.70	104.51	190.09
9145	4.00	-3.10	3.00	87.33	29.48	150.52	9.61	229.78	196.04	458.91	52.50	217.54	35.88	97.22	196.06
9146	2.86	-3.10	3.00	77.98	27.85	143.12	8.65	235.80	202.03	403.27	50.35	221.50	31.85	89.90	202.04
9147	1.71	-3.10	3.00	70.05	26.92	138.08	7.73	240.05	207.97	356.08	47.49	223.19	27.90	82.60	207.97
9148	0.57	-3.10	3.00	63.33	26.63	136.00	7.10	242.54	213.80	316.07	44.25	222.88	24.24	75.31	213.80
9149	0.56	-3.95	4.00	64.73	27.68	131.71	9.53	225.91	199.96	326.67	50.26	214.15	31.04	83.85	200.01
9150	0.55	-5.05	4.00	64.07	28.12	140.63	12.30	224.95	196.83	317.76	50.15	220.45	38.55	82.96	196.93
9151	0.54	-6.15	4.00	63.41	28.74	150.99	15.20	223.78	192.98	306.85	49.97	228.20	45.13	81.76	193.16
9152	0.52	-7.25	4.00	62.86	29.57	162.58	18.22	222.43	188.43	294.15	49.75	237.39	50.49	80.22	188.74
9153	1.67	-3.95	4.00	70.88	27.94	133.38	10.13	223.37	193.85	365.07	53.59	214.87	35.78	95.09	193.94
9154	1.65	-5.05	4.00	69.56	28.32	142.31	13.10	222.42	190.99	353.86	53.37	221.28	44.58	93.74	191.16
9155	1.61	-6.15	4.00	68.07	28.88	152.69	16.16	221.28	187.46	340.11	52.97	229.16	52.31	91.97	187.75
9156	1.57	-7.25	4.00	66.58	29.65	164.27	19.30	219.97	183.28	324.09	52.40	238.50	58.59	89.76	183.76
9157	2.79	-3.95	4.00	78.17	28.80	137.49	10.96	219.21	187.68	409.96	56.55	213.63	40.91	107.24	187.84
9158	2.75	-5.06	4.00	76.16	29.10	146.15	14.13	218.35	185.09	396.05	56.33	220.21	51.19	105.49	185.38
9159	2.69	-6.16	4.00	73.81	29.58	156.27	17.35	217.32	181.89	378.86	55.79	228.28	60.28	103.22	182.36
9160	2.62	-7.25	4.00	71.27	30.27	167.59	20.62	216.15	178.10	358.80	54.92	237.85	67.66	100.40	178.84
9161	3.91	-3.95	4.00	86.78	30.30	143.55	11.88	213.42	181.53	462.57	58.86	210.19	46.26	120.51	181.80
9162	3.84	-5.06	4.00	84.06	30.49	151.76	15.26	212.72	179.21	445.49	58.82	217.01	58.28	118.38	179.68
9163	3.76	-6.16	4.00	80.77	30.86	161.42	18.70	211.89	176.34	424.20	58.28	225.37	69.03	115.63	177.09
9164	3.67	-7.25	4.00	77.08	31.46	172.30	22.14	210.97	172.94	399.19	57.17	235.27	77.79	112.23	174.07
9165	5.02	-3.95	4.00	96.95	32.48	151.02	12.78	206.02	175.43	524.42	60.11	204.29	51.59	135.13	175.87
9166	4.94	-5.06	4.00	93.50	32.48	158.67	16.46	205.55	173.39	503.72	60.54	211.46	65.68	132.64	174.14
9167	4.84	-6.16	4.00	89.20	32.69	167.74	20.18	205.02	170.85	477.54	60.22	220.22	78.51	129.42	172.03
9168	4.72	-7.26	4.00	84.22	33.17	178.05	23.86	204.44	167.84	446.49	59.00	230.57	89.06	125.42	169.58
9169	6.14	-3.96	4.00	109.03	35.40	159.32	13.61	197.03	169.40	597.43	59.83	195.61	56.49	151.45	170.12
9170	6.04	-5.06	4.00	104.83	35.12	166.37	17.66	196.87	167.62	572.72	61.13	203.27	73.08	148.60	168.85
9171	5.92	-6.16	4.00	99.42	35.10	174.82	21.78	196.72	165.42	540.78	61.38	212.58	88.59	144.87	167.29
9172	5.77	-7.26	4.00	92.96	35.41	184.54	25.80	196.60	162.81	502.32	60.26	223.54	101.55	140.22	165.48
9173	7.25	-3.96	4.00	123.49	39.16	167.96	14.29	186.52	163.39	684.08	57.45	183.82	60.32	169.83	164.57
9174	7.14	-5.07	4.00	118.55	38.48	174.43	18.81	186.73	161.91	655.12	60.09	192.18	79.89	166.64	163.86
9175	6.99	-6.17	4.00	111.92	38.10	182.29	23.47	187.05	160.05	616.53	61.43	202.25	98.96	162.38	162.99
9176	6.82	-7.26	4.00	103.74	38.16	191.45	27.98	187.49	157.84	568.96	60.75	213.99	115.31	156.99	161.95
9177	8.37	-3.96	4.00	140.98	43.96	176.52	14.70	174.59	157.35	787.59	52.58	168.69	62.09	190.75	159.24
9178	8.24	-5.07	4.00	135.34	42.72	182.48	19.81	175.23	156.19	754.50	56.91	178.03	85.17	187.23	159.28
9179	8.07	-6.17	4.00	127.41	41.79	189.82	25.20	176.10	154.71	708.47	59.97	189.11	108.99	182.43	159.27
9180	7.87	-7.26	4.00	117.19	41.48	198.51	30.45	177.19	152.91	649.69	60.28	201.88	130.25	176.19	159.18
9181	9.49	-3.96	4.00	162.39	50.15	184.69	14.75	161.39	151.19	912.18	46.61	150.60	60.48	214.71	154.17
9182	9.33	-5.07	4.00	156.19	48.14	190.22	20.48	162.51	150.39	875.72	51.42	161.17	87.35	210.95	155.19
9183	9.14	-6.17	4.00	146.92	46.40	197.17	26.83	163.98	149.33	821.87	56.54	173.50	117.44	205.65	156.31
9184	8.92	-7.26	4.00	134.29	45.46	205.51	33.19	165.81	147.97	749.47	58.61	187.50	146.00	198.45	157.42
9185	10.60	-3.96	4.00	188.91	58.28	192.30	14.42	147.18	144.73	1063.59	4				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
9213	0.57	-3.95	3.00	62.90	26.97	142.06	9.12	241.68	211.74	310.89	44.39	226.92	30.41	75.04	211.74
9214	0.56	-5.05	3.00	62.33	27.58	151.47	11.85	240.33	208.40	302.65	44.64	233.48	37.86	74.57	208.41
9215	0.55	-6.15	3.00	61.78	28.45	162.42	14.71	238.69	204.29	292.56	44.94	241.52	44.44	73.88	204.30
9216	0.53	-7.25	3.00	61.38	29.62	174.65	17.71	236.79	199.44	280.83	45.34	251.03	49.88	72.91	199.49
9217	1.70	-3.95	3.00	69.21	27.22	144.10	9.87	239.20	206.06	349.51	47.60	227.31	35.08	82.21	206.07
9218	1.67	-5.05	3.00	67.98	27.78	153.46	12.75	237.86	202.96	339.03	47.77	233.97	43.79	81.56	202.98
9219	1.64	-6.15	3.00	66.61	28.58	164.36	15.74	236.24	199.15	326.13	47.88	242.15	51.52	80.63	199.18
9220	1.60	-7.25	3.00	65.24	29.70	176.52	18.85	234.38	194.65	311.11	47.96	251.82	57.88	79.36	194.74
9221	2.83	-3.95	3.00	76.74	28.09	148.89	10.86	234.99	200.29	395.09	50.54	225.72	40.15	89.47	200.29
9222	2.79	-5.06	3.00	74.82	28.57	157.92	13.88	233.74	197.44	381.95	50.74	232.56	50.33	88.73	197.47
9223	2.73	-6.16	3.00	72.57	29.30	168.46	17.01	232.24	193.93	365.66	50.74	240.94	59.41	87.69	194.00
9224	2.67	-7.25	3.00	70.15	30.34	180.28	20.23	230.52	189.81	346.61	50.54	250.85	66.90	86.29	189.96
9225	3.96	-3.95	3.00	85.69	29.63	155.91	11.92	229.08	194.46	448.92	52.90	221.92	45.44	96.80	194.49
9226	3.90	-5.06	3.00	83.07	29.98	164.38	15.11	227.98	191.88	432.67	53.32	229.01	57.36	96.08	191.94
9227	3.82	-6.16	3.00	79.87	30.60	174.36	18.44	226.68	188.70	412.33	53.35	237.70	68.13	95.05	188.84
9228	3.73	-7.25	3.00	76.29	31.56	185.61	21.83	225.20	184.95	388.34	52.95	247.95	77.03	93.65	185.23
9229	5.09	-3.95	3.00	96.34	31.88	164.50	12.93	221.46	188.62	512.62	54.33	215.59	50.68	104.17	188.71
9230	5.01	-5.06	3.00	92.99	32.04	172.31	16.38	220.60	186.31	492.84	55.24	223.06	64.69	103.56	186.48
9231	4.92	-6.16	3.00	88.77	32.49	181.58	19.98	219.58	183.47	467.67	55.53	232.17	77.60	102.68	183.76
9232	4.80	-7.25	3.00	83.87	33.32	192.15	23.62	218.45	180.13	437.63	55.06	242.89	88.38	101.42	180.63
9233	6.23	-3.96	3.00	109.06	34.91	174.02	13.79	212.19	182.77	588.22	54.33	206.35	55.43	111.46	182.99
9234	6.13	-5.06	3.00	104.98	34.78	181.13	17.61	211.63	180.75	564.58	56.14	214.36	71.97	111.08	181.12
9235	6.01	-6.16	3.00	99.65	34.98	189.67	21.62	210.99	178.27	533.74	57.05	224.07	87.66	110.50	178.87
9236	5.86	-7.26	3.00	93.24	35.64	199.51	25.62	210.31	175.35	496.29	56.72	235.44	101.00	109.56	176.28
9237	7.36	-3.96	3.00	124.39	38.86	183.88	14.43	201.35	176.91	678.32	52.42	193.78	59.00	118.45	177.39
9238	7.24	-5.07	3.00	119.60	38.30	190.31	18.73	201.15	175.20	650.67	55.56	202.58	78.57	118.42	175.97
9239	7.10	-6.17	3.00	113.07	38.11	198.15	23.31	200.98	173.10	613.37	57.60	213.13	97.97	118.32	174.25
9240	6.93	-7.26	3.00	104.89	38.50	207.31	27.87	200.86	170.64	566.82	57.78	225.37	114.93	117.96	172.29
9241	8.49	-3.96	3.00	143.03	43.96	193.58	14.70	189.07	171.00	786.16	48.45	177.57	60.34	124.62	171.98
9242	8.36	-5.07	3.00	137.60	42.79	199.43	19.62	189.31	169.62	754.83	53.04	187.47	83.42	125.10	171.02
9243	8.19	-6.17	3.00	129.81	42.00	206.65	24.98	189.67	167.95	710.45	56.80	199.17	107.77	125.77	170.17
9244	8.00	-7.26	3.00	119.57	41.97	215.23	30.36	190.19	166.00	652.81	58.04	212.55	130.01	126.35	168.86
9245	9.62	-3.96	3.00	165.91	50.61	202.76	14.47	175.56	164.99	915.77	44.61	158.06	58.10	129.00	166.92
9246	9.47	-5.07	3.00	160.05	48.62	208.13	20.07	176.28	163.98	881.82	48.74	169.31	84.84	130.14	166.81
9247	9.28	-6.17	3.00	151.05	46.92	214.88	26.46	177.25	162.79	830.43	54.26	182.42	115.64	131.98	166.56
9248	9.06	-7.26	3.00	138.40	46.16	223.04	33.09	178.48	161.41	759.60	57.31	197.22	145.75	134.13	166.22
9249	10.75	-3.96	3.00	194.26	59.45	211.22	13.66	161.14	158.83	1071.99	50.99	138.57	50.91	129.68	162.60
9250	10.59	-5.07	3.00	188.29	56.53	216.24	19.81	162.40	158.20	1037.61	46.87	150.56	80.38	131.58	163.47
9251	10.38	-6.17	3.00	178.39	53.43	222.66	27.43	163.99	157.57	980.81	50.30	164.74	119.00	135.18	164.16
9252	10.13	-7.26	3.00	163.12	51.39	230.58	35.90	165.97	156.86	895.17	55.35	180.80	160.81	139.99	164.76
9253	11.89	-3.96	3.00	229.72	71.34	219.03	12.86	146.33	152.47	1260.46	82.94	133.07	38.68	122.98	159.92
9254	11.70	-5.07	3.00	224.01	67.78	223.84	18.68	148.16	152.17	1228.78	83.94	141.53	67.34	125.49	162.09
9255	11.47	-6.18	3.00	214.03	62.74	230.08	27.32	150.39	152.15	1171.33	86.96	153.36	113.30	131.62	163.71
9256	11.19	-7.26	3.00	196.36	58.35	237.93	38.42	153.06	152.28	1071.68	92.64	168.42	172.17	140.99	165.07
9257	13.02	-3.96	3.00	274.83	86.83	226.74	15.07	131.97	145.97	1488.53	145.05	174.73	26.53	101.93	161.03
9258	12.81	-5.08	3.00	269.16	84.22	231.50	17.49	134.46	145.69	1460.87	119.53	170.69	45.86	104.34	165.06
9259	12.56	-6.18	3.00	260.48	77.39	237.66	25.48	137.29	146.21	1412.06	80.61	170.26	92.12	113.72	167.19
9260	12.26	-7.26	3.00	242.11	68.77	245.50	39.64	140.49	147.46	1307.10	55.27	175.56	172.62	130.71	168.33
9261	14.15	-3.96	3.00	334.24	104.89	235.98	25.97	119.52	139.75	1768.58	233.31	298.31	31.11	55.90	170.63
9262	13.93	-5.08	3.00	326.43	106.73	240.77	21.44	122.94	138.74	1736.65	220.82	277.66	29.66	56.55	177.42
9263	13.65	-6.18	3.00	319.80	101.73	246.93	22.85	126.45	139.10	1706.46	171.52	256.53	53.61	69.28	179.05
9264	13.33	-7.26	3.00	305.31	87.54	254.65	37.68	129.88	141.61	1622.02	95.12	237.88	147.99	97.15	177.91
9265	15.28	-3.96	3.00	416.38	122.13	251.39	50.49	111.81	135.64	2121.89	333.28	549.99	67.30	66.43	196.45
9266	15.04	-5.08	3.00	401.77	130.45	255.70	41.58	116.81	132.64	2058.92	355.30	508.90	54.09	76.04	206.81
9267	14.75	-6.18	3.00	393.93	136.21	261.41	29.85	121.38	130.66	2042.15	337.01	464.61	30.12	59.22	203.42
9268	14.39	-7.26	3.00	389.32	126.02	268.82	33.53	125.08	132.64	2023.41	237.94	415.75	91.21	44.52	200.08
9269	16.41	-3.96	3.00	532.77	136.95	285.19	97.89	110.87	137.82	2569.13	431.83	1045.77	161.19	187.93	235.58
9270	16.16	-5.08	3.00	508.46	145.39	285.59	87.79	119.16	134.33	2436.35	483.77	959.33	142.55	240.47	242.17
9271	15.84	-6.19	3.00	493.05	159.02	287.33	68.70	124.65	127.70	2408.67	507.51	873.54	84.69	213.67	219.85
9272	15.46	-7.27	3.00	498.56	178.38	291.84	50.30	130.61	120.52	2497.02	491.82	794.07	69.42	112.32	207.97
9273	17.55	-3.96	3.00	698.39	152.69	317.13	202.90	108.38	176.62	3118.23	504.74	1428.22	330.34	214.84	209.08
9274	17.27	-5.09	3.00	672.70	134.96	313.55	179.99	114.25	173.32	2917.96	490.99	1281.64	252.19	374.63	183.56
9275	16.93	-6.19	3.00	655.31	136.53	299.49	158.50	118.23	160.28	2901.64	495.09	1160.28	215.26	362.19	160.03
9276	16.52	-7.27	3.00	652.97	168.95	291.46	132.02	130.09	138.79	3064.49	558.08	1079.65	169.29	191.19	138.32
9277	-17.30	-3.97	4.00	34.02	66.54	303.12	60.31	100.39	255.70	48.79	45.94	360.68	61.01	115.19	255.88
9278	-17.02	-5.09	4.00	39.87	67.09	303.80	58.68	108.69	251.64	54.35	45.92	350.43	59.71	120.61	251.90
9279	-16.67	-6.19	4.00	45.96	67.62	304.83	56.79	118.12	246.73	60.57	45.85	338.60	58.10	126.79	247.05
9280	-16.26	-7.27	4.00	51.82	67.99	306.12	54.78	127.88	241.08	66.84	45.70	325.62	56.31	132.98	241.45
9281	-16.18	-3.96	4.00	35.59	62.68	288.12	55.97	113.29	253.91	67.62	42.94	305.37	56.25	117.78	253.83
9282	-15.92	-5.08	4.00	41.17	63.29	289.37	54.59	120.56	250.15	71.52	43.13	298.63	54.95	122.18	250.01
9283	-15.60	-6.19	4.00	46.92											



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
9311	-8.07	-6.17	4.00	50.85	42.34	202.92	26.36	195.23	228.30	161.38	33.59	181.37	24.07	64.05	227.78
9312	-7.87	-7.26	4.00	54.83	43.33	208.19	26.52	197.36	222.38	160.35	35.43	190.57	22.71	69.50	221.70
9313	-7.25	-3.96	4.00	44.51	38.12	183.24	22.95	200.63	234.38	174.71	31.19	173.63	22.98	46.34	234.20
9314	-7.14	-5.07	4.00	47.58	38.86	187.26	22.96	201.64	230.17	173.59	32.51	179.99	22.70	51.40	229.88
9315	-6.99	-6.17	4.00	51.02	39.75	192.29	23.18	202.84	225.05	172.22	34.08	187.83	22.26	56.74	224.63
9316	-6.82	-7.26	4.00	54.70	40.76	198.37	23.72	204.17	219.10	170.61	35.86	197.13	21.60	62.10	218.55
9317	-6.14	-3.96	4.00	45.62	35.73	171.64	19.46	208.44	230.76	187.91	32.57	181.01	20.67	42.79	230.62
9318	-6.04	-5.06	4.00	48.32	36.45	176.40	19.75	208.93	226.57	186.29	33.74	187.38	21.24	47.37	226.35
9319	-5.92	-6.16	4.00	51.38	37.32	182.28	20.33	209.51	221.47	184.29	35.15	195.21	21.71	52.21	221.15
9320	-5.77	-7.26	4.00	54.69	38.34	189.28	21.30	210.15	215.54	181.95	36.78	204.50	21.94	57.08	215.13
9321	-5.02	-3.95	4.00	47.15	33.56	160.73	16.28	215.01	226.67	203.11	34.59	188.61	19.39	43.53	226.57
9322	-4.94	-5.06	4.00	49.41	34.24	166.33	16.93	215.06	222.55	200.83	35.55	194.95	21.07	47.12	222.39
9323	-4.84	-6.16	4.00	52.02	35.09	173.14	17.93	215.11	217.53	198.04	36.75	202.73	22.60	50.98	217.31
9324	-4.72	-7.26	4.00	54.91	36.09	181.13	19.35	215.15	211.69	194.78	38.16	211.94	23.82	54.90	211.41
9325	-3.91	-3.95	4.00	49.21	31.64	150.93	13.54	220.21	222.10	220.80	37.13	195.84	19.40	48.02	222.04
9326	-3.84	-5.06	4.00	50.97	32.28	157.39	14.62	219.90	218.10	217.69	37.87	202.13	22.31	50.40	218.01
9327	-3.76	-6.16	4.00	53.06	33.09	165.17	16.09	219.51	213.23	213.89	38.81	209.86	24.94	53.01	213.09
9328	-3.67	-7.25	4.00	55.44	34.07	174.16	17.98	219.07	207.54	209.45	39.95	219.00	27.09	55.69	207.37
9329	-2.79	-3.95	4.00	51.91	30.03	142.68	11.39	223.95	217.09	241.46	40.09	202.29	20.78	55.09	217.05
9330	-2.75	-5.06	4.00	53.11	30.62	150.00	12.97	223.36	213.26	237.30	40.59	208.55	24.90	56.35	213.21
9331	-2.69	-6.16	4.00	54.61	31.39	158.70	14.92	222.65	208.57	232.24	41.26	216.22	28.55	57.73	208.52
9332	-2.62	-7.25	4.00	56.39	32.35	168.63	17.22	221.82	203.10	226.33	42.08	225.31	31.53	59.12	203.05
9333	-1.67	-3.95	4.00	55.33	28.79	136.48	9.98	226.17	211.67	265.59	43.35	207.65	23.34	63.73	211.66
9334	-1.65	-5.05	4.00	55.95	29.33	144.55	12.07	225.39	208.05	260.15	43.62	213.89	28.60	64.09	208.05
9335	-1.61	-6.15	4.00	56.78	30.05	154.04	14.43	224.43	203.61	253.52	44.00	221.55	33.21	64.42	203.62
9336	-1.57	-7.25	4.00	57.87	30.97	164.77	17.07	223.32	198.40	245.80	44.49	230.62	36.97	64.66	198.46
9337	-0.56	-3.95	4.00	59.58	27.99	132.74	9.40	226.84	205.93	293.77	46.78	211.68	26.84	73.39	205.95
9338	-0.55	-5.05	4.00	59.57	28.48	141.36	11.89	225.93	202.55	286.77	46.85	217.92	33.19	73.05	202.60
9339	-0.54	-6.15	4.00	59.68	29.15	151.43	14.57	224.82	198.39	278.21	46.94	225.60	38.76	72.54	198.48
9340	-0.52	-7.25	4.00	59.99	30.03	162.73	17.44	223.54	193.49	268.25	47.08	234.70	43.30	71.80	193.66
9341	-17.55	-3.96	3.00	35.17	66.64	331.95	62.14	107.34	262.79	50.13	50.48	390.87	63.04	123.99	262.93
9342	-17.27	-5.09	3.00	40.78	67.36	332.84	60.44	114.96	259.04	55.46	50.21	380.28	61.77	128.48	259.24
9343	-16.93	-6.19	3.00	46.69	68.10	334.44	58.44	123.84	254.50	61.51	49.90	368.39	60.16	133.83	254.75
9344	-16.52	-7.27	3.00	52.48	68.69	336.61	56.32	133.32	249.25	67.73	49.47	355.59	58.35	139.41	249.54
9345	-16.41	-3.96	3.00	37.88	62.93	314.49	58.10	121.12	261.16	72.25	48.05	329.12	58.45	126.10	261.02
9346	-16.16	-5.08	3.00	43.16	63.75	316.12	56.72	127.87	257.69	75.77	48.05	322.53	57.18	129.70	257.47
9347	-15.84	-6.19	3.00	48.64	64.58	318.25	55.01	135.58	253.23	79.84	47.97	315.07	55.49	133.75	252.90
9348	-15.46	-7.27	3.00	54.26	65.38	320.80	52.95	144.03	247.69	84.40	47.79	307.15	53.34	138.12	247.26
9349	-15.28	-3.96	3.00	40.12	59.36	296.73	53.76	133.67	259.18	92.18	45.02	273.81	53.56	121.78	258.89
9350	-15.04	-5.08	3.00	44.97	60.25	298.72	52.58	139.61	255.64	94.23	45.29	270.91	52.16	125.01	255.17
9351	-14.75	-6.18	3.00	50.12	61.20	301.26	51.09	146.46	251.17	96.70	45.56	267.86	50.35	128.62	250.50
9352	-14.39	-7.26	3.00	55.41	62.14	304.37	49.39	153.93	245.86	99.56	45.86	265.03	48.18	132.44	244.98
9353	-14.15	-3.96	3.00	41.83	55.93	280.31	49.18	145.49	257.04	109.17	41.82	229.94	48.52	112.05	256.68
9354	-13.93	-5.08	3.00	46.35	56.86	282.47	48.20	150.69	253.42	110.25	42.43	230.26	47.05	115.45	252.84
9355	-13.65	-6.18	3.00	51.20	57.90	285.25	47.00	156.71	248.94	111.59	43.14	231.07	45.18	119.22	248.12
9356	-13.33	-7.26	3.00	56.18	58.95	288.69	45.67	163.28	243.67	113.17	43.91	232.68	42.98	123.11	242.59
9357	-13.02	-3.96	3.00	42.65	52.58	265.38	44.46	157.15	254.92	122.06	38.52	199.47	43.52	99.20	254.54
9358	-12.81	-5.08	3.00	46.94	53.54	267.62	43.67	161.57	251.18	122.60	39.44	202.34	42.05	103.00	250.58
9359	-12.56	-6.18	3.00	51.58	54.64	270.54	42.74	166.70	246.61	123.29	40.53	206.19	40.20	107.17	245.75
9360	-12.26	-7.26	3.00	56.38	55.81	274.20	41.74	172.35	241.26	124.12	41.76	211.23	38.00	111.47	240.13
9361	-11.89	-3.96	3.00	42.94	49.32	251.57	39.79	169.00	252.85	132.11	35.47	182.07	38.72	85.63	252.49
9362	-11.70	-5.07	3.00	47.05	50.30	253.94	39.17	172.59	248.97	132.34	36.64	186.75	37.32	89.86	248.40
9363	-11.47	-6.18	3.00	51.52	51.45	257.03	38.48	176.78	244.25	132.64	38.04	192.72	35.56	94.48	243.42
9364	-11.19	-7.26	3.00	56.17	52.70	260.93	37.80	181.43	238.77	133.04	39.64	200.08	33.46	99.22	237.66
9365	-10.75	-3.96	3.00	43.00	46.19	238.25	35.27	180.84	250.75	140.63	32.87	175.20	34.23	72.67	250.42
9366	-10.59	-5.07	3.00	46.92	47.17	240.88	34.80	183.61	246.73	140.65	34.22	181.00	32.97	77.28	246.21
9367	-10.38	-6.17	3.00	51.21	48.34	244.28	34.34	186.86	241.85	140.69	35.86	188.24	31.38	82.29	241.09
9368	-10.13	-7.26	3.00	55.70	49.65	248.55	33.98	190.48	236.19	140.75	37.74	196.95	29.49	87.42	235.19
9369	-9.62	-3.96	3.00	43.03	43.19	225.08	30.95	192.34	248.49	148.69	30.89	175.64	30.10	61.20	248.22
9370	-9.47	-5.07	3.00	46.73	44.17	228.10	30.64	194.32	244.35	148.51	32.36	182.01	29.07	66.10	243.90
9371	-9.28	-6.17	3.00	50.81	45.34	231.97	30.41	196.67	239.33	148.30	34.15	189.87	27.78	71.37	238.68
9372	-9.06	-7.26	3.00	55.12	46.68	236.77	30.36	199.30	233.52	148.06	36.22	199.23	26.21	76.75	232.65
9373	-8.49	-3.96	3.00	43.17	40.35	211.93	26.83	203.14	245.99	157.16	29.65	180.41	26.39	52.04	245.76
9374	-8.36	-5.07	3.00	46.61	41.31	215.49	26.70	204.42	241.75	156.74	31.17	187.01	25.75	57.01	241.38
9375	-8.19	-6.17	3.00	50.45	42.47	220.00	26.72	205.93	236.62	156.22	33.02	195.12	24.90	62.32	236.08
9376	-8.00	-7.26	3.00	54.52	43.83	225.51	27.00	207.64	230.70	155.62	35.18	204.71	23.82	67.72	229.97
9377	-7.36	-3.96	3.00	43.56	37.69	198.87	22.95	212.98	243.13	166.73	29.22	187.37	23.22	46.01	242.96
9378	-7.24	-5.07	3.00	46.69	38.61	203.12	23.03	213.62	238.85	165.98	30.71	194.02	23.16	50.70	238.56
9379	-7.10	-6.17	3.00	50.22	39.76	208.41	23.33	214.40	233.67	165.06	32.54	202.17	22.97	55.71	233.24
9380	-6.93	-7.26	3.00	54.02	41.13	214.79	23.97	215.27	227.67	163.97	34.69	211.79	22.58	60.79	227.09
9381	-6.23	-3.96	3.00	44.32	35.23	186.14	19.33	221.62	239.88	178.01	29.63	195.11	20.80	43.69	239.75
9382	-6.13	-5.06	3.00	47.08											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
9409	2.56	-8.10	4.00	69.31	30.98	177.06	23.20	215.17	174.79	341.69	54.07	246.24	71.96	97.85	175.81
9410	2.51	-8.70	4.00	68.01	31.56	184.15	25.01	214.45	172.25	328.80	53.39	252.83	74.03	95.79	173.52
9411	3.59	-8.10	4.00	74.11	32.10	181.44	24.80	210.21	169.97	377.80	55.98	243.95	82.85	109.15	171.48
9412	3.52	-8.70	4.00	72.04	32.63	188.33	26.65	209.66	167.69	361.63	55.00	250.80	85.24	106.67	169.53
9413	4.61	-8.10	4.00	80.09	33.75	186.81	26.64	203.99	165.20	419.76	57.51	239.65	95.13	121.79	167.48
9414	4.53	-8.70	4.00	77.10	34.23	193.43	28.53	203.69	163.17	399.50	56.22	246.83	97.94	118.86	165.88
9415	5.64	-8.10	4.00	87.46	35.90	192.87	28.77	196.55	160.51	468.91	58.52	233.13	109.03	135.99	163.93
9416	5.53	-8.70	4.00	83.40	36.34	199.22	30.73	196.56	158.74	443.48	56.91	240.75	112.42	132.55	162.74
9417	6.66	-8.10	4.00	96.59	38.55	199.38	31.25	187.93	155.88	527.09	58.87	224.26	124.82	152.04	161.03
9418	6.54	-8.70	4.00	91.19	38.95	205.49	33.32	188.33	154.37	495.00	56.95	232.41	129.07	147.98	160.29
9419	7.69	-8.10	4.00	107.99	41.71	206.13	34.17	178.21	151.30	596.94	58.44	212.97	142.83	170.36	159.02
9420	7.54	-8.70	4.00	100.90	42.08	212.04	36.42	179.05	150.05	556.10	56.23	221.77	148.41	165.53	158.80
9421	8.71	-8.10	4.00	122.47	45.44	212.93	37.66	167.47	146.73	682.49	57.18	199.54	163.48	191.54	158.20
9422	8.55	-8.70	4.00	113.13	45.80	218.75	40.22	168.82	145.75	629.80	54.67	209.07	171.19	185.71	158.60
9423	9.74	-8.10	4.00	141.34	49.88	219.71	41.84	155.84	142.10	790.29	55.09	185.15	187.02	216.43	158.99
9424	9.56	-8.70	4.00	128.88	50.14	225.53	45.00	157.76	141.40	720.86	52.57	195.36	198.58	209.22	160.14
9425	10.77	-8.10	4.00	166.75	55.38	226.46	46.87	143.52	137.34	931.20	52.36	173.24	213.70	246.29	161.83
9426	10.56	-8.70	4.00	149.84	55.56	232.42	51.08	146.02	136.90	837.55	50.03	183.62	231.79	237.27	164.01
9427	11.79	-8.10	4.00	202.54	62.43	233.33	52.96	130.82	132.31	1125.36	50.82	172.30	243.39	282.67	167.19
9428	11.57	-8.70	4.00	178.93	62.36	239.56	59.23	133.87	132.19	994.54	49.32	181.31	274.18	271.41	170.72
9429	12.82	-8.10	4.00	255.91	72.75	240.83	59.58	118.37	126.65	1412.09	56.14	199.59	270.81	327.68	175.75
9430	12.57	-8.70	4.00	221.54	71.35	247.40	70.56	121.81	127.01	1219.99	54.74	203.85	329.96	313.73	181.40
9431	13.84	-8.10	4.00	339.12	94.21	250.92	64.25	107.56	119.57	1861.91	104.18	289.65	277.57	382.81	189.47
9432	13.58	-8.70	4.00	290.34	85.85	257.30	85.71	110.94	120.81	1580.36	79.07	279.61	398.90	368.29	197.72
9433	14.87	-8.10	4.00	471.78	155.69	275.58	71.25	102.85	102.06	2591.30	346.67	569.14	264.29	458.77	233.76
9434	14.59	-8.70	4.00	407.02	131.12	279.47	106.89	104.80	112.85	2189.81	229.40	508.50	485.48	442.15	232.82
9435	15.89	-8.10	4.00	707.02	226.24	317.51	115.82	137.62	52.87	3913.25	769.59	1324.04	315.78	769.62	249.36
9436	15.59	-8.70	4.00	653.42	257.40	324.62	183.30	132.90	64.19	3451.07	809.99	1206.56	822.53	747.42	380.44
9437	0.52	-8.10	3.00	61.26	30.77	184.82	20.17	235.19	195.24	270.88	45.77	259.34	53.16	71.97	195.33
9438	0.51	-8.70	3.00	61.30	31.71	192.39	21.95	233.98	192.04	263.39	46.15	265.81	54.85	71.14	192.18
9439	1.56	-8.10	3.00	64.31	30.81	186.65	21.36	232.81	190.74	298.33	48.07	260.26	61.68	78.14	190.90
9440	1.54	-8.70	3.00	63.77	31.73	194.20	23.17	231.64	187.77	288.71	48.18	266.86	63.62	77.08	188.00
9441	2.61	-8.10	3.00	68.31	31.41	190.16	22.81	229.08	186.22	330.35	50.32	259.51	71.34	84.91	186.48
9442	2.56	-8.70	3.00	67.09	32.30	197.54	24.64	228.00	183.48	318.09	50.17	266.30	73.55	83.72	183.85
9443	3.65	-8.10	3.00	73.40	32.57	195.08	24.49	223.97	181.70	367.77	52.43	256.91	82.28	92.24	182.13
9444	3.58	-8.70	3.00	71.39	33.42	202.21	26.36	223.08	179.22	352.20	51.99	263.95	84.84	91.00	179.80
9445	4.69	-8.10	3.00	79.79	34.27	201.13	26.42	217.53	177.23	411.69	54.26	252.26	94.71	100.11	177.97
9446	4.61	-8.70	3.00	76.84	35.08	207.92	28.35	216.88	175.01	391.97	53.53	259.65	97.72	98.91	175.96
9447	5.73	-8.10	3.00	87.74	36.50	207.96	28.64	209.79	172.82	463.59	55.70	245.36	108.86	108.50	174.09
9448	5.63	-8.70	3.00	83.66	37.28	214.42	30.66	209.46	170.88	438.59	54.68	253.20	112.53	107.44	172.46
9449	6.78	-8.10	3.00	97.68	39.25	215.27	31.22	200.82	168.50	525.54	56.65	236.01	125.02	117.35	170.66
9450	6.65	-8.70	3.00	92.20	40.00	221.42	33.38	200.88	166.86	493.71	55.33	244.43	129.68	116.57	169.44
9451	7.82	-8.10	3.00	110.22	42.55	222.80	34.25	190.73	164.29	600.52	57.00	224.10	143.51	126.52	167.86
9452	7.68	-8.70	3.00	102.95	43.27	228.71	36.65	191.22	162.96	559.67	55.39	233.24	149.72	126.24	167.11
9453	8.86	-8.10	3.00	126.34	46.44	230.34	37.86	179.65	160.18	692.99	56.74	209.87	164.74	135.63	165.95
9454	8.70	-8.70	3.00	116.67	47.15	236.12	40.66	180.64	159.20	639.89	54.83	219.83	173.45	136.24	165.73
9455	9.91	-8.10	3.00	147.61	51.07	237.80	42.16	167.80	156.18	810.05	55.88	194.51	188.83	143.83	165.28
9456	9.72	-8.70	3.00	134.57	51.68	243.57	45.73	169.33	155.59	739.67	53.94	205.29	202.11	146.00	165.63
9457	10.95	-8.10	3.00	176.54	56.83	245.22	47.26	155.51	152.31	963.10	54.55	182.04	215.68	149.24	166.26
9458	10.75	-8.70	3.00	158.75	57.31	251.15	52.20	157.55	152.15	868.03	52.73	192.97	236.84	154.46	167.21
9459	11.99	-8.10	3.00	217.55	64.24	252.92	53.20	143.36	148.54	1171.84	54.21	183.94	244.18	147.28	169.51
9460	11.77	-8.70	3.00	192.69	64.35	259.12	60.89	145.77	148.99	1040.16	53.00	192.31	280.82	158.80	170.74
9461	13.03	-8.10	3.00	278.22	75.55	261.90	58.92	132.67	144.55	1469.79	60.27	227.70	266.19	128.02	176.58
9462	12.80	-8.70	3.00	242.70	73.62	268.21	72.92	134.92	146.16	1282.86	58.13	225.20	337.00	152.50	177.09
9463	14.08	-8.10	3.00	369.06	101.43	275.38	60.82	127.31	138.58	1900.14	118.32	370.15	260.30	80.40	195.80
9464	13.82	-8.70	3.00	322.64	89.35	280.97	88.52	127.92	143.21	1651.97	82.42	337.48	401.62	124.03	189.80
9465	15.12	-8.10	3.00	502.02	177.29	297.97	66.88	136.19	124.27	2505.78	392.86	717.98	239.75	63.93	230.96
9466	14.84	-8.70	3.00	453.37	145.58	302.38	110.18	134.39	137.50	2225.50	258.83	630.41	480.80	95.19	233.39
9467	16.16	-8.10	3.00	709.11	226.28	302.69	113.98	155.66	110.38	3411.96	659.04	1072.50	270.48	101.81	126.94
9468	15.87	-8.70	3.00	724.94	287.24	329.06	191.92	179.49	117.29	3354.38	814.39	1082.56	763.41	187.30	231.51
9469	-15.89	-8.10	4.00	56.53	68.16	307.19	52.75	135.93	234.98	72.08	45.30	315.02	54.39	137.96	235.37
9470	-15.59	-8.70	4.00	60.12	68.19	308.05	51.38	142.34	230.63	76.29	45.12	307.15	53.07	141.93	231.01
9471	-14.87	-8.10	4.00	57.30	64.76	294.73	49.37	144.93	234.32	84.92	43.46	276.38	49.50	136.36	233.94
9472	-14.59	-8.70	4.00	60.50	64.82	296.12	48.36	150.27	230.38	87.89	43.54	271.82	48.29	139.20	232.94
9473	-13.84	-8.10	4.00	57.88	61.40	281.68	46.09	153.40	232.84	97.98	41.85	244.53	44.50	131.15	231.99
9474	-13.58	-8.70	4.00	60.89	61.55	283.49	45.16	158.08	228.83	100.00	42.02	243.03	43.10	133.57	227.89
9475	-12.82	-8.10	4.00	58.33	58.24	268.69	42.64	161.66	230.84	110.33	40.39	219.84	39.38	123.34	229.73
9476	-12.57	-8.70	4.00	61.25	58.46	270.82	41.81	165.83	226.89	111.80	40.75	221.12	37.83	125.55	225.69
9477	-11.79	-8.10	4.00	58.66	55.26	256.21	39.20	169.70	228.53	121.67	38.18	203.21	34.52	113.80	227.33
9478	-11.57	-8.70	4.00	61.43	55.58	258.66	38.63	173.28	224.60	122.52	39.80	206.66	33.00	116.08	223.27
9479	-10.77	-8.10	4.												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
9507	-13.03	-8.10	3.00	60.13	59.76	291.87	44.61	168.72	239.04	114.58	44.58	234.73	41.06	126.17	237.76
9508	-12.80	-8.70	3.00	62.96	60.24	294.43	43.79	172.80	235.36	115.79	44.99	236.73	39.47	128.21	233.95
9509	-11.99	-8.10	3.00	60.21	56.76	277.61	40.99	177.04	236.59	124.94	42.83	216.12	36.06	114.81	235.23
9510	-11.77	-8.70	3.00	62.92	57.38	280.40	40.46	180.54	232.89	125.62	43.57	220.29	34.54	117.07	231.39
9511	-10.95	-8.10	3.00	59.88	53.76	264.58	37.37	185.31	233.98	133.45	41.03	206.85	31.62	102.91	232.66
9512	-10.75	-8.70	3.00	62.52	54.47	267.58	37.09	188.22	230.23	133.76	42.02	212.42	30.15	105.43	228.76
9513	-9.91	-8.10	3.00	59.30	50.78	252.52	33.86	193.53	231.29	140.86	39.39	204.77	27.82	91.41	230.08
9514	-9.72	-8.70	3.00	61.89	51.57	255.77	33.85	195.83	227.48	140.98	40.60	211.10	26.48	94.13	226.13
9515	-8.86	-8.10	3.00	58.58	47.86	241.19	30.54	201.53	228.50	147.90	38.03	207.54	24.81	80.91	227.44
9516	-8.70	-8.70	3.00	61.06	48.70	244.78	30.79	203.21	224.62	147.77	39.37	214.20	23.68	83.77	223.44
9517	-7.82	-8.10	3.00	57.82	45.04	230.51	27.49	209.10	225.58	155.13	37.08	213.18	22.82	71.88	224.70
9518	-7.68	-8.70	3.00	60.19	45.92	234.51	27.98	210.21	221.65	154.74	38.49	219.92	21.97	74.74	220.65
9519	-6.78	-8.10	3.00	57.12	42.35	220.49	24.77	216.04	222.50	163.06	36.60	220.25	22.12	64.71	221.79
9520	-6.65	-8.70	3.00	59.35	43.26	225.00	25.51	216.62	218.54	162.36	38.03	226.95	21.66	67.41	217.74
9521	-5.73	-8.10	3.00	56.56	39.82	211.26	22.48	222.15	219.22	172.14	36.63	227.79	22.91	59.74	218.69
9522	-5.63	-8.70	3.00	58.64	40.76	216.33	23.46	222.28	215.27	171.03	38.03	234.41	22.88	62.09	214.66
9523	-4.69	-8.10	3.00	56.23	37.50	203.03	20.69	227.30	215.73	182.75	37.18	235.20	25.17	57.15	215.35
9524	-4.61	-8.70	3.00	58.11	38.45	208.69	21.91	227.03	211.81	181.09	38.49	241.72	25.56	58.97	211.39
9525	-3.65	-8.10	3.00	56.21	35.42	196.04	19.48	231.37	212.01	195.22	38.20	242.06	28.74	56.87	211.77
9526	-3.58	-8.70	3.00	57.86	36.38	202.28	20.90	230.76	208.17	192.86	39.39	248.50	29.47	58.07	207.90
9527	-2.61	-8.10	3.00	56.61	33.64	190.55	18.87	234.25	208.08	209.91	39.65	248.09	33.42	58.62	207.95
9528	-2.56	-8.70	3.00	57.96	34.61	197.30	20.45	233.38	204.35	206.66	40.68	254.49	34.44	59.18	204.21
9529	-1.56	-8.10	3.00	57.52	32.23	186.76	18.84	235.88	203.95	227.15	41.46	253.10	39.07	61.97	203.91
9530	-1.54	-8.70	3.00	58.50	33.20	193.93	20.52	234.83	200.37	222.79	42.29	259.47	40.34	61.96	200.34
9531	-0.52	-8.10	3.00	59.03	31.26	184.83	19.30	236.20	199.66	247.34	43.53	256.89	45.65	66.53	199.69
9532	-0.51	-8.70	3.00	59.59	32.22	192.28	21.05	235.04	196.26	241.59	44.15	263.29	47.13	66.05	196.32
9533	10.53	-9.43	4.00	132.96	57.69	242.20	55.90	146.65	135.21	744.50	46.70	195.41	249.98	231.33	167.54
9534	11.47	-9.39	4.00	154.98	64.75	248.86	64.82	136.61	131.10	862.88	50.40	193.88	297.55	261.92	175.51
9535	12.41	-9.35	4.00	185.82	73.67	256.16	77.61	124.62	126.57	1023.76	62.89	214.14	362.88	299.06	187.18
9536	10.69	-10.30	4.00	113.32	62.48	256.47	60.94	145.15	132.25	638.74	50.16	209.67	264.72	228.33	173.05
9537	11.51	-10.18	4.00	128.54	69.62	261.58	69.32	135.73	129.08	720.84	62.45	209.86	310.24	254.35	181.76
9538	12.33	-10.04	4.00	148.70	79.29	267.13	81.30	126.45	125.59	824.47	86.84	228.44	372.78	285.56	193.17
9539	10.84	-11.17	4.00	91.39	67.19	272.10	62.38	143.82	129.12	520.89	62.48	225.89	257.43	223.57	178.53
9540	11.54	-10.95	4.00	100.73	73.73	275.03	69.17	135.97	127.02	573.25	77.96	225.86	296.44	245.15	186.90
9541	12.23	-10.73	4.00	113.74	83.47	278.48	77.84	128.05	124.56	641.87	109.01	240.65	342.26	270.25	197.60
9542	0.51	-9.77	4.00	62.84	32.27	193.23	25.82	218.89	175.34	260.22	49.11	264.75	56.65	75.36	176.27
9543	1.52	-9.77	4.00	64.29	32.23	194.97	27.03	216.42	171.04	282.41	50.64	266.28	66.07	83.36	172.38
9544	2.53	-9.75	4.00	66.41	32.74	197.87	28.46	212.80	166.80	307.76	51.96	266.08	76.64	92.77	168.69
9545	3.54	-9.73	4.00	69.34	33.82	201.75	30.10	208.03	162.63	336.82	52.95	263.97	88.56	103.55	165.31
9546	4.55	-9.71	4.00	73.20	35.45	206.44	32.01	202.14	158.56	370.25	53.50	259.79	102.11	115.73	162.38
9547	5.56	-9.67	4.00	78.17	37.63	211.73	34.23	195.16	154.58	408.93	53.48	253.37	117.64	129.43	160.06
9548	6.57	-9.64	4.00	84.49	40.35	217.43	36.87	187.13	150.70	454.04	52.80	244.60	135.61	144.86	158.57
9549	7.57	-9.59	4.00	92.50	43.64	223.41	40.09	178.14	146.87	507.23	51.40	233.48	156.69	162.32	158.18
9550	8.57	-9.54	4.00	102.73	47.55	229.55	44.09	168.26	143.05	570.99	49.41	220.34	181.78	182.24	159.21
9551	9.57	-9.48	4.00	115.99	52.23	235.80	49.20	157.62	139.19	649.09	47.31	206.41	212.29	205.24	162.08
9552	0.52	-11.32	4.00	64.16	34.13	215.05	30.88	216.64	165.79	238.64	48.93	286.58	55.70	71.72	167.57
9553	1.57	-11.30	4.00	64.32	34.03	216.87	32.11	213.95	161.89	257.23	49.79	288.37	65.69	79.00	164.33
9554	2.62	-11.26	4.00	64.99	34.55	219.60	33.51	210.13	158.16	278.48	50.34	288.08	76.92	88.19	161.47
9555	3.66	-11.20	4.00	66.31	35.70	223.09	35.09	205.21	154.60	302.82	50.47	285.51	89.60	99.12	159.11
9556	4.70	-11.12	4.00	68.43	37.49	227.18	36.89	199.21	151.20	330.82	50.08	280.48	104.04	111.70	157.40
9557	5.73	-11.02	4.00	71.52	39.90	231.68	39.00	192.17	147.96	363.19	49.10	272.84	120.66	125.96	156.50
9558	6.76	-10.91	4.00	75.84	42.94	236.46	41.53	184.16	144.82	400.88	47.57	262.50	140.02	142.00	156.62
9559	7.77	-10.77	4.00	81.70	46.64	241.40	44.68	175.25	141.73	445.30	45.71	249.60	162.92	160.06	158.02
9560	8.78	-10.62	4.00	89.59	51.10	246.40	48.72	165.55	138.63	498.53	44.30	234.73	190.55	180.51	161.02
9561	9.78	-10.45	4.00	100.30	56.51	251.44	54.09	155.17	135.45	564.16	45.14	219.64	224.77	203.91	165.96
9562	0.54	-12.87	4.00	66.63	35.31	239.99	36.19	214.65	155.04	217.47	48.14	313.77	50.62	67.49	158.33
9563	1.63	-12.83	4.00	65.61	35.17	241.84	37.36	211.70	151.61	232.29	48.38	315.91	60.57	73.66	155.93
9564	2.70	-12.77	4.00	64.86	35.70	244.35	38.62	207.67	148.49	249.15	48.23	315.53	71.71	82.45	154.11
9565	3.78	-12.67	4.00	64.52	36.94	247.37	39.97	202.58	145.64	268.36	47.59	312.40	84.26	93.47	152.99
9566	4.85	-12.54	4.00	64.73	38.90	250.76	41.47	196.47	143.04	290.31	46.45	306.31	98.54	106.48	152.69
9567	5.90	-12.37	4.00	65.67	41.59	254.37	43.19	189.37	140.62	315.51	44.84	297.10	114.96	121.32	153.39
9568	6.95	-12.18	4.00	67.57	45.00	258.08	45.27	181.37	138.32	344.63	43.09	284.76	134.09	137.97	155.26
9569	7.98	-11.96	4.00	70.72	49.20	261.77	47.90	172.54	136.07	378.61	42.01	269.54	156.75	156.55	158.54
9570	8.99	-11.70	4.00	75.54	54.33	265.39	51.40	162.98	133.78	418.90	43.44	252.35	184.20	177.33	163.50
9571	9.99	-11.42	4.00	82.62	60.66	268.90	56.29	152.85	131.38	467.75	50.52	235.60	218.71	200.93	170.44
9572	0.56	-14.41	4.00	70.20	34.70	268.98	41.55	213.07	142.21	198.05	45.68	347.72	41.61	62.99	148.17
9573	1.68	-14.37	4.00	68.22	34.55	270.75	42.59	209.81	139.34	209.34	45.47	350.28	50.96	67.47	146.80
9574	2.79	-14.27	4.00	66.28	35.17	272.88	43.62	205.51	136.93	222.02	44.85	349.73	61.35	75.55	146.22
9575	3.90	-14.14	4.00	64.47	36.61	275.24	44.64	200.20	134.93	236.29	43.77	345.81	72.98	86.61	146.53
9576	4.99	-13.95	4.00	62.92	38.88	277.69	45.68	193.92	133.28	252.39	42.28	338.27	86.13	100.10	147.83
9577	6.07	-13.72	4.00	61.78	41.94	280.11	46.81	186.72	131.86	270.59	40.60				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
9605	14.25	-9.42	4.00	286.14	115.00	284.44	134.10	107.57	115.70	1525.52	182.31	444.04	631.92	401.31	235.32
9606	13.84	-10.25	4.00	158.05	124.06	293.45	116.27	112.03	118.72	852.92	253.67	395.43	525.36	349.63	233.80
9607	13.39	-11.04	4.00	84.73	108.57	299.80	82.47	116.57	119.53	487.70	198.17	335.55	348.19	304.98	228.48
9608	13.33	-9.36	4.00	228.69	89.14	266.51	98.47	114.43	121.34	1242.82	99.40	281.21	463.84	344.30	205.69
9609	13.10	-10.06	4.00	164.73	94.27	277.06	97.29	118.06	121.82	902.59	136.57	283.24	448.25	317.09	210.01
9610	12.85	-10.75	4.00	112.04	95.58	286.39	85.99	121.79	122.26	629.30	151.87	277.26	379.08	291.39	209.62
9611	11.56	-13.65	4.00	45.69	70.05	324.40	52.16	136.07	116.43	249.43	67.51	278.26	138.05	207.85	194.36
9612	11.30	-12.83	4.00	55.51	71.56	306.49	56.07	138.96	121.12	318.95	76.75	260.48	183.34	213.71	189.76
9613	11.04	-12.01	4.00	70.72	70.82	289.00	59.93	141.66	125.34	408.32	75.69	243.01	224.70	218.60	184.23
9614	12.42	-12.94	4.00	45.65	80.11	321.00	53.77	127.35	117.54	265.62	94.78	285.27	163.30	234.23	209.14
9615	12.07	-12.30	4.00	58.86	80.75	304.97	60.13	130.86	120.86	347.24	103.48	263.03	216.19	237.93	201.74
9616	11.72	-11.66	4.00	77.13	78.50	289.68	65.19	134.28	124.12	447.96	98.32	243.34	259.08	239.60	193.58
9617	13.23	-12.18	4.00	47.20	93.78	318.30	57.86	119.09	118.27	285.06	136.61	331.23	198.81	266.70	225.89
9618	12.80	-11.73	4.00	65.33	93.07	303.80	67.19	123.05	120.26	386.85	143.17	290.84	262.26	266.79	215.39
9619	12.39	-11.28	4.00	86.15	87.22	290.35	73.48	127.00	122.87	497.15	123.45	258.64	308.22	264.80	204.01
9620	10.73	-9.45	3.00	140.68	60.18	261.40	58.02	157.72	151.02	771.85	50.08	205.83	259.03	161.98	169.29
9621	11.68	-9.40	3.00	166.67	67.56	268.91	68.07	146.96	148.63	903.02	54.20	205.62	310.57	171.02	173.58
9622	12.63	-9.36	3.00	203.51	76.84	277.36	82.72	136.80	146.71	1079.60	65.80	232.78	381.10	174.87	179.62
9623	10.89	-10.34	3.00	119.09	66.28	276.92	64.14	155.73	148.95	659.82	55.28	221.88	277.24	173.38	173.55
9624	11.72	-10.21	3.00	136.96	73.93	282.85	73.92	146.55	147.48	750.29	68.16	223.33	327.63	185.32	178.72
9625	12.55	-10.07	3.00	160.90	84.41	289.35	88.17	137.80	146.43	863.43	93.04	246.47	396.88	196.20	184.78
9626	11.04	-11.22	3.00	94.55	72.30	294.60	65.96	154.01	146.41	533.53	69.83	240.54	269.74	184.82	179.45
9627	11.76	-11.00	3.00	105.21	79.42	298.09	73.97	146.27	145.70	590.20	86.38	241.31	313.26	198.17	185.06
9628	12.46	-10.77	3.00	120.28	90.31	302.08	84.40	138.59	145.09	664.13	119.44	258.58	364.26	212.05	191.87
9629	0.52	-9.79	3.00	61.89	33.69	207.18	25.54	231.74	185.57	249.33	46.84	279.42	56.57	69.33	185.87
9630	1.55	-9.79	3.00	63.41	33.67	208.99	26.79	229.33	181.59	271.82	48.40	280.66	65.93	75.12	182.06
9631	2.58	-9.77	3.00	65.68	34.21	212.14	28.29	225.67	177.67	297.88	49.84	280.15	76.53	81.89	178.37
9632	3.61	-9.75	3.00	68.81	35.33	216.42	30.03	220.77	173.84	328.12	51.06	277.72	88.61	89.52	174.88
9633	4.64	-9.73	3.00	72.98	37.02	221.62	32.05	214.67	170.12	363.30	51.95	273.21	102.45	97.99	171.72
9634	5.66	-9.69	3.00	78.39	39.28	227.51	34.42	207.41	166.54	404.42	52.41	266.43	118.46	107.26	169.00
9635	6.69	-9.65	3.00	85.34	42.11	233.87	37.25	199.06	163.10	452.84	52.34	257.23	137.16	117.32	166.90
9636	7.71	-9.61	3.00	94.26	45.53	240.52	40.70	189.73	159.81	510.49	51.72	245.59	159.28	128.13	165.61
9637	8.73	-9.55	3.00	105.80	49.61	247.33	45.02	179.55	156.69	580.19	50.69	231.83	185.86	139.54	165.36
9638	9.74	-9.50	3.00	120.98	54.49	254.28	50.60	168.71	153.74	666.24	49.70	217.20	218.45	151.20	166.41
9639	0.53	-11.38	3.00	63.70	36.95	230.72	31.07	228.46	175.62	229.13	48.56	302.32	56.04	66.22	176.43
9640	1.60	-11.36	3.00	63.88	36.87	232.56	32.34	225.83	172.05	247.88	49.47	303.83	66.00	71.69	173.21
9641	2.67	-11.32	3.00	64.60	37.40	235.46	33.81	222.00	168.68	269.66	50.17	303.23	77.28	78.72	170.31
9642	3.73	-11.26	3.00	66.02	38.56	239.24	35.49	216.97	165.54	294.97	50.54	300.36	90.16	87.11	167.83
9643	4.79	-11.18	3.00	68.30	40.36	243.73	37.42	210.80	162.61	324.43	50.51	295.00	104.99	96.72	165.86
9644	5.84	-11.08	3.00	71.67	42.80	248.74	39.70	203.54	159.89	358.85	50.00	287.01	122.22	107.45	164.56
9645	6.88	-10.96	3.00	76.42	45.90	254.09	42.44	195.27	157.36	399.33	49.09	276.28	142.51	119.26	164.06
9646	7.92	-10.82	3.00	82.93	49.71	259.66	45.87	186.11	155.00	447.44	48.02	262.91	166.77	132.08	164.54
9647	8.95	-10.66	3.00	91.81	54.33	265.34	50.32	176.20	152.80	505.53	47.57	247.50	196.39	145.83	166.19
9648	9.96	-10.49	3.00	104.02	59.99	271.11	56.33	165.71	150.76	577.60	49.46	231.90	233.48	160.23	169.14
9649	0.55	-12.97	3.00	66.78	40.02	258.02	37.08	225.57	165.17	209.58	50.25	331.13	51.33	62.24	167.15
9650	1.66	-12.94	3.00	65.73	39.86	259.84	38.27	222.70	162.08	224.41	50.54	333.04	61.23	67.00	164.74
9651	2.76	-12.87	3.00	64.97	40.33	262.45	39.59	218.69	159.36	241.60	50.53	332.42	72.41	74.17	162.87
9652	3.85	-12.77	3.00	64.62	41.47	265.71	41.04	213.55	156.98	261.51	50.11	329.04	85.13	83.37	161.63
9653	4.94	-12.63	3.00	64.86	43.31	269.44	42.64	207.33	154.91	284.58	49.27	322.70	99.75	94.28	161.12
9654	6.02	-12.46	3.00	65.89	45.89	273.51	44.50	200.09	153.10	311.35	48.08	313.22	116.74	106.69	161.44
9655	7.08	-12.26	3.00	67.96	49.24	277.77	46.74	191.92	151.49	342.55	46.88	300.55	136.76	120.46	162.74
9656	8.13	-12.03	3.00	71.42	53.44	282.11	49.59	182.92	150.02	379.21	46.51	284.95	160.74	135.51	165.15
9657	9.16	-11.77	3.00	76.75	58.69	286.44	53.45	173.23	148.65	422.86	48.81	267.32	190.14	151.80	168.80
9658	10.18	-11.48	3.00	84.65	65.32	290.70	58.95	163.02	147.40	475.86	56.87	250.19	227.59	169.37	173.76
9659	0.57	-14.56	3.00	71.02	40.84	290.94	43.30	223.45	153.62	192.06	49.82	368.13	42.60	57.68	158.04
9660	1.71	-14.51	3.00	69.00	40.61	292.64	44.35	220.29	151.05	203.25	49.63	370.55	51.86	61.05	156.63
9661	2.85	-14.42	3.00	67.01	41.06	294.82	45.40	216.05	149.01	216.11	49.07	369.86	62.22	68.07	155.97
9662	3.97	-14.27	3.00	65.14	42.25	297.34	46.45	210.75	147.42	230.87	48.10	365.77	73.94	78.07	156.13
9663	5.09	-14.08	3.00	63.53	44.22	300.07	47.53	204.43	146.22	247.77	46.78	358.04	87.30	90.43	157.18
9664	6.19	-13.85	3.00	62.34	47.00	302.87	48.70	197.15	145.31	267.09	45.35	346.50	102.74	104.68	159.22
9665	7.28	-13.57	3.00	61.77	50.66	305.63	50.08	188.99	144.59	289.21	44.44	331.15	120.78	120.52	162.36
9666	8.34	-13.25	3.00	62.08	55.27	308.24	51.88	180.06	143.99	314.65	45.44	312.39	142.18	137.79	166.71
9667	9.38	-12.88	3.00	63.65	61.04	310.61	54.44	170.47	143.43	344.13	50.72	291.48	168.07	156.44	172.44
9668	10.40	-12.48	3.00	66.93	68.50	312.71	58.27	160.38	142.87	378.61	63.82	271.63	200.13	176.61	179.79
9669	0.59	-16.15	3.00	76.14	37.42	330.89	49.11	222.17	138.09	177.50	45.20	415.08	30.48	53.20	147.14
9670	1.77	-16.09	3.00	73.43	37.28	332.26	49.98	218.63	136.15	185.65	44.76	418.00	38.69	54.05	146.93
9671	2.94	-15.96	3.00	70.53	38.00	333.67	50.71	214.05	134.94	194.84	44.01	417.00	47.80	60.34	147.67
9672	4.09	-15.78	3.00	67.52	39.62	335.01	51.31	208.47	134.35	205.18	42.94	411.73	57.99	71.09	149.43
9673	5.24	-15.54	3.00	64.50	42.14	336.17	51.79	201.92	134.27	216.75	41.66	401.93	69.53	85.02	152.25
9674	6.37	-15.23	3.00	61.56	45.51	337.05	52.20	194.47	134.55	229.65	40.50	387.42	82.70	101.21	156.22
9675	7.47	-14.88	3.00												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
9703	11.95	-11.73	3.00	78.55	85.12	314.90	69.20	144.06	142.46	455.61	108.19	261.13	271.61	211.12	194.42
9704	13.48	-12.26	3.00	45.86	100.91	347.10	60.23	128.09	136.03	283.89	143.84	351.27	204.15	269.68	237.92
9705	13.05	-11.80	3.00	65.39	101.45	331.10	71.23	132.53	139.69	389.99	154.84	312.22	273.64	249.20	219.39
9706	12.62	-11.34	3.00	88.39	95.01	315.50	79.04	136.80	142.89	506.98	135.51	277.68	325.65	229.11	202.33
9707	-10.55	-9.42	4.00	64.45	53.62	253.71	35.98	182.58	217.65	130.45	39.87	206.99	27.89	111.16	216.22
9708	-11.49	-9.38	4.00	64.44	56.21	264.03	38.65	176.11	220.27	121.75	40.45	213.16	32.21	120.38	218.85
9709	-12.42	-9.34	4.00	64.26	58.87	274.83	41.35	169.46	222.71	112.28	41.17	225.12	36.81	128.84	221.44
9710	-10.73	-10.27	4.00	68.28	55.38	264.65	37.09	183.84	212.34	126.38	40.97	217.96	28.08	119.71	210.78
9711	-11.54	-10.15	4.00	67.97	57.53	272.74	39.19	178.31	215.14	119.08	41.29	222.73	32.24	126.95	213.64
9712	-12.35	-10.12	4.00	67.52	59.79	280.98	41.30	172.58	217.82	111.49	41.79	231.65	36.45	133.37	216.49
9713	-10.89	-11.13	4.00	72.19	56.93	276.66	38.22	185.58	206.18	122.57	41.64	230.12	28.85	128.23	204.60
9714	-11.58	-10.92	4.00	71.59	58.66	282.08	39.66	180.83	209.42	116.75	41.73	232.84	32.50	133.41	207.97
9715	-12.26	-10.70	4.00	70.73	60.57	287.66	41.48	175.73	212.32	110.43	42.22	238.42	36.41	138.04	211.01
9716	-0.51	-9.77	4.00	61.96	32.86	192.75	24.82	220.22	179.68	240.74	47.50	261.57	48.20	68.88	180.29
9717	-1.54	-9.76	4.00	61.54	33.91	193.63	24.12	220.42	184.06	223.59	45.84	256.93	40.64	64.24	184.40
9718	-2.56	-9.74	4.00	61.49	35.36	195.94	23.77	219.52	188.36	208.56	44.26	251.10	34.00	61.74	188.45
9719	-3.57	-9.72	4.00	61.71	37.14	199.63	23.85	217.58	192.55	195.37	42.85	244.31	28.28	61.61	192.41
9720	-4.58	-9.69	4.00	62.10	39.16	204.59	24.40	214.66	196.61	183.73	41.64	236.83	23.63	63.90	196.22
9721	-5.59	-9.65	4.00	62.60	41.36	210.68	25.43	210.86	200.51	173.37	40.69	228.99	20.31	68.46	199.90
9722	-6.60	-9.62	4.00	63.13	43.69	217.77	26.92	206.27	204.26	164.01	40.02	221.24	18.69	74.93	203.42
9723	-7.60	-9.57	4.00	63.64	46.12	225.72	28.79	201.01	207.86	155.37	39.64	214.19	18.96	82.88	206.80
9724	-8.59	-9.52	4.00	64.07	48.62	234.43	30.99	195.20	211.31	147.12	39.54	208.68	20.90	91.89	210.05
9725	-9.59	-9.47	4.00	64.38	51.20	243.83	33.43	188.95	214.62	138.93	39.71	205.83	24.08	101.50	213.21
9726	-0.54	-11.31	4.00	64.37	34.81	214.16	29.79	218.24	169.96	222.24	47.87	282.69	46.64	66.54	171.19
9727	-1.61	-11.28	4.00	64.85	35.98	214.38	28.89	218.71	174.35	207.73	46.66	276.98	38.47	63.81	175.12
9728	-2.68	-11.23	4.00	65.49	37.55	215.92	28.31	218.07	178.79	195.02	45.45	269.89	31.29	63.74	179.15
9729	-3.73	-11.16	4.00	66.21	39.43	218.72	28.09	216.39	183.25	183.85	44.30	261.74	25.12	66.20	183.23
9730	-4.78	-11.07	4.00	66.93	41.51	222.71	28.28	213.75	187.69	173.93	43.28	252.88	20.15	70.86	187.31
9731	-5.81	-10.97	4.00	67.59	43.74	227.79	28.89	210.26	192.08	165.01	42.44	243.71	16.82	77.27	191.38
9732	-6.83	-10.86	4.00	68.12	46.05	233.82	29.92	206.00	196.41	156.83	41.78	234.78	15.70	84.95	195.41
9733	-7.84	-10.72	4.00	68.50	48.40	240.68	31.33	201.08	200.66	149.11	41.34	226.76	16.93	93.47	199.40
9734	-8.84	-10.58	4.00	68.67	50.79	248.25	33.06	195.59	204.81	141.59	41.10	220.54	19.94	102.42	203.35
9735	-9.83	-10.41	4.00	68.62	53.21	256.43	35.05	189.63	208.85	134.00	41.05	217.21	23.96	111.45	207.27
9736	-0.56	-12.86	4.00	67.80	36.09	238.76	35.07	216.55	158.93	204.28	47.60	309.04	41.54	64.22	161.35
9737	-1.68	-12.81	4.00	69.03	37.39	238.38	34.05	217.36	163.25	192.54	46.84	302.07	33.28	64.12	164.91
9738	-2.79	-12.73	4.00	70.22	39.10	239.12	33.25	217.07	167.78	182.18	45.96	293.51	25.96	66.97	168.78
9739	-3.88	-12.62	4.00	71.30	41.09	240.97	32.73	215.76	172.49	172.96	45.06	283.72	19.64	72.18	172.90
9740	-4.95	-12.48	4.00	72.21	43.26	243.88	32.52	213.50	177.33	164.66	44.20	273.15	14.66	79.09	177.21
9741	-6.01	-12.31	4.00	72.92	45.54	247.76	32.66	210.39	182.27	157.05	43.43	262.29	11.91	87.11	181.67
9742	-7.05	-12.12	4.00	73.37	47.88	252.51	33.16	206.50	187.24	149.90	42.79	251.77	12.34	95.75	186.24
9743	-8.07	-11.89	4.00	73.55	50.24	257.99	34.02	201.91	192.22	142.98	42.29	242.34	15.40	104.60	190.90
9744	-9.07	-11.65	4.00	73.41	52.59	264.07	35.22	196.70	197.16	136.09	41.95	234.90	19.74	113.31	195.62
9745	-10.06	-11.37	4.00	72.92	54.94	270.60	36.72	190.90	202.05	129.03	41.81	230.51	24.61	121.57	200.41
9746	-0.58	-14.40	4.00	72.11	35.57	267.50	40.46	215.34	145.73	187.86	45.56	342.03	33.02	62.43	150.39
9747	-1.74	-14.34	4.00	73.90	37.08	266.56	39.36	216.56	149.89	178.69	45.20	333.62	25.12	65.62	153.36
9748	-2.87	-14.23	4.00	75.47	39.01	266.47	38.38	216.70	154.48	170.45	44.66	323.26	17.99	71.68	156.91
9749	-4.00	-14.09	4.00	76.78	41.25	267.23	37.54	215.83	159.45	162.97	44.04	311.43	11.73	79.59	160.95
9750	-5.10	-13.89	4.00	77.79	43.68	268.82	36.92	214.01	164.75	156.07	43.42	298.65	7.13	88.54	165.42
9751	-6.18	-13.66	4.00	78.46	46.21	271.18	36.55	211.32	170.32	149.57	42.85	285.53	6.93	97.90	170.27
9752	-7.24	-13.39	4.00	78.76	48.77	274.24	36.49	207.80	176.07	143.30	42.37	272.76	10.87	107.24	175.45
9753	-8.28	-13.08	4.00	78.69	51.34	277.86	36.78	203.52	181.96	137.08	42.02	261.20	15.92	116.20	180.91
9754	-9.29	-12.73	4.00	78.21	53.86	281.92	37.43	198.51	187.90	130.77	41.82	251.79	21.17	124.49	186.58
9755	-10.27	-12.34	4.00	77.31	56.33	286.30	38.46	192.80	193.81	124.24	41.77	245.58	26.40	131.85	192.39
9756	-0.59	-15.95	4.00	77.10	32.32	300.45	45.59	214.56	128.27	173.71	40.72	382.11	21.86	61.81	137.13
9757	-1.77	-15.88	4.00	79.27	34.13	299.03	44.46	216.26	132.25	166.68	40.69	372.11	14.78	68.77	139.33
9758	-2.94	-15.75	4.00	81.08	36.51	298.03	43.33	216.91	136.98	160.19	40.52	359.65	8.23	78.06	142.42
9759	-4.09	-15.57	4.00	82.49	39.27	297.49	42.23	216.56	142.39	154.11	40.31	345.29	2.18	88.45	146.33
9760	-5.22	-15.32	4.00	83.50	42.26	297.43	41.23	215.24	148.40	148.34	40.13	329.67	3.82	99.13	151.01
9761	-6.33	-15.03	4.00	84.06	45.35	297.84	40.40	212.99	154.92	142.74	40.02	313.53	9.31	109.56	156.38
9762	-7.41	-14.68	4.00	84.17	48.47	298.69	39.81	209.85	161.85	137.20	40.03	297.69	14.61	119.36	162.38
9763	-8.46	-14.28	4.00	83.81	51.52	299.89	39.53	205.84	169.07	131.58	40.17	283.10	19.74	128.21	168.92
9764	-9.48	-13.82	4.00	82.97	54.47	301.39	39.63	200.99	176.47	125.80	40.43	270.82	24.72	135.91	175.88
9765	-10.47	-13.32	4.00	81.66	57.23	303.08	40.17	195.33	183.95	119.79	40.82	261.96	29.56	142.25	183.16
9766	-0.60	-17.50	4.00	82.49	26.84	336.17	50.11	213.89	103.94	162.06	33.45	428.95	12.64	62.86	121.05
9767	-1.80	-17.43	4.00	84.89	29.09	334.36	48.99	216.17	107.82	156.66	33.65	417.25	9.74	73.71	122.29
9768	-2.99	-17.28	4.00	86.81	32.13	332.43	47.77	217.43	112.98	151.50	33.87	402.36	9.69	85.97	124.81
9769	-4.16	-17.06	4.00	88.24	35.69	330.47	46.50	217.70	119.30	146.51	34.19	384.96	11.97	98.51	128.59
9770	-5.31	-16.77	4.00	89.16	39.51	328.53	45.24	216.97	126.64	141.60	34.68	365.83	15.30	110.62	133.58
9771	-6.45	-16.41	4.00	89.56	43.44	326.68	44.08	215.25	134.81	136.71	35.34	345.84	18.97	121.86	139.71
9772	-7.55	-15.98	4.00	89.44	47.32	324.96	43.08	212.52	143.62	131.78	36.18	326.01	22.74	131.89	146.84
9773	-8.62	-15.48	4.00	88.78	51.07	323.37	42.33	208.81	152.90	126.71	37.16	307.47	26.		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
9801	-11.80	-10.97	3.00	73.26	61.43	308.49	41.53	187.76	218.89	119.84	46.13	252.03	33.78	135.67	217.17
9802	-12.49	-10.74	3.00	72.38	63.09	315.19	43.27	182.38	221.72	113.63	46.46	258.94	37.86	140.98	220.17
9803	-0.52	-9.79	3.00	60.97	34.26	206.81	24.55	232.92	189.60	229.91	45.30	276.54	48.26	64.65	189.76
9804	-1.56	-9.78	3.00	60.57	35.30	207.97	23.88	232.88	193.68	213.13	43.80	272.18	40.91	61.37	193.69
9805	-2.60	-9.76	3.00	60.58	36.76	210.73	23.62	231.63	197.71	198.77	42.51	266.58	34.51	59.77	197.55
9806	-3.64	-9.74	3.00	60.91	38.56	214.99	23.84	229.25	201.64	186.50	41.47	259.95	29.10	60.10	201.31
9807	-4.67	-9.71	3.00	61.47	40.64	220.62	24.57	225.81	205.48	176.01	40.77	252.53	24.78	62.49	204.94
9808	-5.69	-9.67	3.00	62.18	42.92	227.45	25.81	221.41	209.19	167.00	40.42	244.63	21.78	66.94	208.43
9809	-6.72	-9.63	3.00	62.98	45.37	235.31	27.54	216.18	212.80	159.16	40.44	236.66	20.38	73.26	211.81
9810	-7.74	-9.59	3.00	63.80	47.92	244.07	29.68	210.25	216.29	152.17	40.82	229.24	20.71	81.19	215.08
9811	-8.75	-9.54	3.00	64.58	50.56	253.62	32.16	203.79	219.69	145.66	41.52	223.27	22.58	90.42	218.28
9812	-9.76	-9.48	3.00	65.26	53.25	263.96	34.88	196.94	223.01	139.20	42.47	220.00	25.65	100.61	221.44
9813	-10.55	-11.37	3.00	63.93	37.60	229.96	29.97	229.91	179.48	212.91	47.55	298.71	47.12	62.51	179.99
9814	-1.65	-11.34	3.00	64.45	38.72	230.44	29.12	230.14	183.62	198.86	46.47	293.22	39.14	60.89	183.84
9815	-2.73	-11.29	3.00	65.17	40.27	232.38	28.63	229.17	187.85	186.90	45.50	286.31	32.23	61.54	187.78
9816	-3.81	-11.22	3.00	66.01	42.13	235.70	28.56	227.08	192.14	176.69	44.70	278.26	26.38	64.38	191.77
9817	-4.87	-11.13	3.00	66.88	44.22	240.30	28.93	223.97	196.45	167.95	44.13	269.40	21.76	69.19	195.78
9818	-5.92	-11.03	3.00	67.74	46.46	246.05	29.75	219.95	200.77	160.36	43.81	260.12	18.73	75.65	199.80
9819	-6.96	-10.91	3.00	68.51	48.80	252.81	31.01	215.15	205.07	153.63	43.74	250.96	17.72	83.43	203.82
9820	-7.99	-10.77	3.00	69.16	51.18	260.48	32.66	209.68	209.33	147.43	43.90	242.63	18.80	92.18	207.83
9821	-9.01	-10.62	3.00	69.62	53.56	268.94	34.61	203.69	213.54	141.42	44.25	236.11	21.57	101.60	211.83
9822	-10.01	-10.45	3.00	69.84	55.93	278.16	36.80	197.28	217.66	135.27	44.73	232.67	25.41	111.35	215.84
9823	-0.57	-12.96	3.00	68.00	40.75	256.92	35.95	227.32	168.77	196.68	49.72	326.61	42.38	60.18	170.17
9824	-1.71	-12.91	3.00	69.28	41.96	256.80	34.97	227.90	172.86	185.49	49.05	319.81	34.33	61.04	173.72
9825	-2.84	-12.82	3.00	70.55	43.56	257.92	34.26	227.31	177.24	175.91	48.34	311.36	27.28	64.56	177.58
9826	-3.95	-12.71	3.00	71.74	45.43	260.26	33.85	225.64	181.85	167.68	47.69	303.63	21.30	70.21	181.71
9827	-5.05	-12.57	3.00	72.79	47.48	263.76	33.79	222.98	186.65	160.51	47.13	291.05	16.69	77.43	186.05
9828	-6.12	-12.40	3.00	73.66	49.62	268.32	34.10	219.43	191.58	154.15	46.70	280.10	14.15	85.71	190.57
9829	-7.18	-12.20	3.00	74.31	51.80	273.83	34.76	215.11	196.58	148.30	46.41	269.43	14.35	94.67	195.21
9830	-8.23	-11.97	3.00	74.68	53.97	280.17	35.77	210.09	201.60	142.68	46.24	259.84	16.95	103.97	199.95
9831	-9.25	-11.71	3.00	74.74	56.10	287.22	37.07	204.49	206.59	137.01	46.15	252.36	20.99	113.29	204.74
9832	-10.25	-11.43	3.00	74.42	58.20	294.85	38.63	198.33	211.52	131.01	46.17	248.18	25.74	122.33	209.58
9833	-0.59	-14.55	3.00	72.99	41.67	289.62	42.21	225.55	156.88	182.23	49.71	362.53	34.14	58.23	160.27
9834	-1.77	-14.48	3.00	74.83	43.03	288.94	41.13	226.54	160.81	173.64	49.39	354.18	26.43	62.42	163.25
9835	-2.93	-14.37	3.00	76.47	44.75	289.21	40.18	226.41	165.24	166.18	48.93	343.86	19.54	69.27	166.80
9836	-4.08	-14.22	3.00	77.86	46.72	290.45	39.40	225.23	170.09	159.63	48.41	332.03	13.62	77.79	170.86
9837	-5.20	-14.02	3.00	78.97	48.85	292.60	38.82	223.07	175.31	153.75	47.88	319.21	9.39	87.23	175.35
9838	-6.30	-13.79	3.00	79.76	51.05	295.62	38.50	220.02	180.80	148.32	47.39	306.01	8.73	97.07	180.22
9839	-7.38	-13.51	3.00	80.19	53.27	299.38	38.46	216.13	186.48	143.10	46.96	293.16	11.85	106.90	185.40
9840	-8.44	-13.18	3.00	80.23	55.48	303.79	38.73	211.47	192.28	137.87	46.60	281.56	16.58	116.42	190.82
9841	-9.47	-12.82	3.00	79.85	57.63	308.69	39.33	206.10	198.11	132.42	46.33	272.24	21.80	125.35	196.42
9842	-10.47	-12.43	3.00	79.02	59.72	313.93	40.29	200.04	203.87	126.55	46.14	266.36	27.18	133.42	202.13
9843	-0.61	-16.14	3.00	78.62	38.36	329.49	48.09	224.70	140.94	170.19	45.38	408.30	22.92	57.59	148.39
9844	-1.81	-16.07	3.00	80.81	40.01	328.29	46.96	226.17	144.70	163.70	45.41	398.17	15.90	65.80	150.60
9845	-3.00	-15.93	3.00	82.66	42.14	327.57	45.80	226.55	149.21	157.88	45.30	385.54	9.37	76.09	153.66
9846	-4.17	-15.74	3.00	84.13	44.61	327.36	44.65	225.90	154.41	152.59	45.12	370.98	3.33	87.28	157.52
9847	-5.33	-15.49	3.00	85.18	47.27	327.66	43.59	224.24	160.20	147.63	44.93	355.12	3.14	98.63	162.11
9848	-6.45	-15.19	3.00	85.80	50.04	328.45	42.67	221.64	166.49	142.85	44.78	338.71	8.70	109.65	167.38
9849	-7.56	-14.83	3.00	85.96	52.82	329.67	41.97	218.12	173.17	138.06	44.70	322.61	14.24	120.01	173.23
9850	-8.63	-14.41	3.00	85.62	55.56	331.24	41.56	213.72	180.14	133.11	44.71	307.82	19.67	129.44	179.60
9851	-9.67	-13.95	3.00	84.78	58.18	333.07	41.52	208.49	187.27	127.86	44.83	295.48	25.00	137.71	186.36
9852	-10.67	-13.43	3.00	83.43	60.63	335.05	41.94	202.44	194.47	122.23	45.05	286.75	30.21	144.64	193.43
9853	-0.61	-17.73	3.00	84.70	30.24	373.81	52.90	224.18	116.19	160.92	36.03	461.46	12.38	59.13	131.97
9854	-1.84	-17.65	3.00	87.08	32.41	372.16	51.77	226.22	119.89	155.90	36.34	449.52	8.71	71.55	133.27
9855	-3.05	-17.50	3.00	88.99	35.37	370.32	50.50	227.21	124.84	151.20	36.65	434.27	8.01	85.03	135.81
9856	-4.25	-17.27	3.00	90.40	38.85	368.35	49.13	227.17	130.95	146.70	37.05	416.43	10.33	98.52	139.57
9857	-5.42	-16.97	3.00	91.29	42.62	366.33	47.74	226.09	138.06	142.30	37.56	396.78	13.99	111.40	144.50
9858	-6.58	-16.60	3.00	91.65	46.50	364.31	46.39	223.98	146.00	137.87	38.22	376.23	18.08	123.29	150.53
9859	-7.70	-16.16	3.00	91.45	50.33	362.33	45.19	220.84	154.58	133.31	39.00	355.84	22.29	133.88	157.55
9860	-8.79	-15.66	3.00	90.70	54.01	360.40	44.21	216.70	163.62	128.53	39.91	336.80	26.53	142.98	165.40
9861	-9.85	-15.08	3.00	89.36	57.43	358.55	43.59	211.57	172.95	123.41	40.90	320.39	30.74	150.41	173.90
9862	-10.86	-14.45	3.00	87.41	60.50	356.80	43.41	205.50	182.38	117.83	41.91	307.94	34.91	156.10	182.85
9863	-15.44	-9.49	3.00	64.71	69.45	342.05	51.28	155.29	234.68	81.49	48.17	327.25	53.67	151.88	234.97
9864	-14.86	-10.46	3.00	69.60	69.17	345.12	49.34	164.61	226.75	87.43	47.32	316.31	51.41	156.16	227.06
9865	-14.22	-11.40	3.00	74.33	68.48	348.51	47.63	173.91	218.32	93.55	46.25	307.73	49.12	159.79	218.60
9866	-14.51	-9.43	3.00	65.46	66.63	327.89	48.90	162.25	234.18	93.82	47.49	292.87	48.69	147.26	233.55
9867	-14.11	-10.27	3.00	69.59	66.84	332.09	47.58	169.21	227.79	97.24	47.27	290.28	46.94	150.67	227.16
9868	-13.66	-11.08	3.00	73.63	66.67	336.60	46.30	176.09	220.83	100.86	46.81	288.91	45.04	153.66	220.25
9869	-13.58	-9.36	3.00	65.64	63.71	313.27	46.18	169.11	233.11	104.81	46.32	263.66	43.60	140.39	231.93
9870	-13.36	-10.07	3.00	69.06	64.36	318.70	45.46	173.69	228.04	105.74	46.55	267.31	42.59	143.73	226.81
9871	-13.11	-10.78	3.00	72.43	64.75	324.29	44.64	178.46	222.50	107.33	46.55	271.42	41.32	146.71</	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
9899	5.30	-0.55	1.75	95.50	30.05	170.40	7.50	243.90	208.80	495.15	41.88	210.60	9.75	66.08	208.80
9900	5.28	-1.65	1.75	94.85	30.02	172.53	8.52	243.54	208.14	491.43	42.51	212.75	20.64	66.35	208.12
9901	6.46	1.65	1.75	107.80	33.67	185.27	9.12	233.88	202.16	566.72	41.81	200.48	22.00	62.65	202.14
9902	6.48	0.55	1.75	108.52	33.79	183.40	8.08	234.18	202.78	570.82	40.93	198.11	10.43	62.30	202.77
9903	6.48	-0.55	1.75	108.52	33.79	183.39	8.08	234.18	202.78	570.82	40.93	198.11	10.42	62.30	202.78
9904	6.46	-1.65	1.75	107.80	33.66	185.25	9.14	233.89	202.18	566.71	41.80	200.48	21.98	62.65	202.16
9905	7.63	1.65	1.75	122.98	38.44	198.33	9.21	222.65	196.13	654.32	39.83	184.17	22.44	56.88	196.13
9906	7.66	0.55	1.75	123.73	38.69	196.70	8.04	222.86	196.68	658.65	38.91	181.50	10.47	56.52	196.68
9907	7.66	-0.55	1.75	123.74	38.68	196.70	8.05	222.86	196.69	658.65	38.90	181.49	10.45	56.52	196.69
9908	7.63	-1.65	1.75	122.99	38.43	198.31	9.23	222.65	196.15	654.32	39.83	184.17	22.41	56.89	196.15
9909	8.80	1.65	1.75	140.83	44.53	211.08	8.57	210.10	190.04	755.71	38.77	164.04	21.61	49.39	190.11
9910	8.83	0.55	1.75	141.58	44.90	209.67	7.16	210.22	190.55	760.01	38.53	161.00	9.62	49.14	190.56
9911	8.83	-0.55	1.75	141.58	44.90	209.66	7.17	210.22	190.56	760.01	38.53	161.00	9.60	49.14	190.57
9912	8.80	-1.65	1.75	140.84	44.53	211.06	8.60	210.11	190.07	755.70	38.77	164.03	21.58	49.39	190.13
9913	9.98	1.65	1.75	161.90	52.16	223.03	6.99	196.73	184.00	872.11	44.96	143.54	19.32	43.06	184.24
9914	10.01	0.55	1.75	162.63	52.58	221.79	5.07	196.72	184.49	876.20	46.46	140.30	7.69	43.20	184.52
9915	10.01	-0.55	1.75	162.63	52.58	221.79	5.09	196.72	184.50	876.20	46.47	140.29	7.65	43.21	184.53
9916	9.98	-1.65	1.75	161.90	52.16	223.01	7.02	196.73	184.02	872.11	44.96	143.52	19.27	43.07	184.26
9917	11.15	1.65	1.75	186.88	61.49	233.91	4.70	183.34	178.23	1004.31	65.27	137.50	15.96	47.80	178.89
9918	11.19	0.55	1.75	187.61	61.84	232.80	1.65	183.20	178.75	1008.09	68.36	135.19	5.10	48.40	178.83
9919	11.19	-0.55	1.75	187.62	61.84	232.79	1.70	183.21	178.76	1008.09	68.36	135.18	5.05	48.40	178.83
9920	11.15	-1.65	1.75	186.88	61.49	233.90	4.75	183.35	178.26	1004.31	65.27	137.48	15.91	47.81	178.91
9921	12.33	1.65	1.75	216.65	72.48	243.84	6.04	171.37	173.29	1151.82	100.21	179.50	13.73	74.74	174.82
9922	12.37	0.55	1.75	217.36	72.69	242.79	5.88	171.10	173.89	1155.02	104.28	180.02	6.94	75.33	174.07
9923	12.37	-0.55	1.75	217.36	72.69	242.79	5.89	171.11	173.90	1155.02	104.28	180.02	6.90	75.33	174.08
9924	12.33	-1.65	1.75	216.65	72.48	243.84	6.07	171.37	173.31	1151.82	100.21	179.49	13.67	74.74	174.84
9925	13.50	1.65	1.75	252.17	84.70	253.69	14.53	163.18	170.32	1310.80	146.35	297.23	17.25	125.21	173.40
9926	13.55	0.55	1.75	252.28	85.22	252.67	16.24	162.90	171.08	1310.87	153.10	301.23	16.32	125.79	171.43
9927	13.55	-0.55	1.75	252.28	85.23	252.68	16.24	162.91	171.09	1310.87	153.10	301.23	16.31	125.78	171.44
9928	13.50	-1.65	1.75	252.17	84.71	253.69	14.54	163.19	170.34	1310.80	146.35	297.24	17.20	125.21	173.42
9929	14.67	1.65	1.75	293.70	97.36	266.04	28.61	162.24	171.84	1467.98	197.74	510.51	28.43	196.95	176.74
9930	14.72	0.55	1.75	290.40	100.19	265.18	32.35	162.44	172.75	1452.49	216.19	519.48	32.61	199.14	173.26
9931	14.72	-0.55	1.75	290.40	100.20	265.19	32.35	162.44	172.76	1452.49	216.19	519.49	32.62	199.14	173.27
9932	14.67	-1.65	1.75	293.70	97.37	266.05	28.61	162.25	171.86	1467.98	197.73	510.53	28.42	196.94	176.75
9933	15.85	1.65	1.75	339.14	109.41	286.89	48.50	171.02	183.48	1589.77	243.81	848.68	58.72	270.33	187.75
9934	15.90	0.55	1.75	322.06	119.92	287.32	58.33	173.31	184.58	1511.67	299.77	869.65	64.89	280.47	184.94
9935	15.90	-0.55	1.75	322.06	119.92	287.32	58.32	173.32	184.59	1511.67	299.76	869.66	64.92	280.46	184.95
9936	15.85	-1.65	1.75	339.14	109.42	286.91	48.50	171.03	183.50	1589.77	243.80	848.72	58.76	270.32	187.76
9937	17.02	1.65	1.75	379.82	125.02	320.70	85.98	185.13	215.89	1611.46	288.02	1240.92	172.71	269.05	215.75
9938	17.08	0.55	1.75	322.28	137.90	325.75	95.24	192.15	224.68	1346.37	366.06	1274.77	125.14	317.85	225.02
9939	17.08	-0.55	1.75	322.28	137.91	325.76	95.23	192.15	224.69	1346.37	366.05	1274.78	125.19	317.84	225.04
9940	17.02	-1.65	1.75	379.82	125.04	320.72	85.97	185.14	215.92	1611.46	288.00	1240.96	172.77	269.03	215.78
9941	18.20	1.65	1.75	386.49	146.25	371.43	135.90	178.06	350.44	1436.16	277.50	1332.93	349.60	155.87	385.04
9942	18.26	0.55	1.75	277.37	92.78	396.84	87.03	189.49	353.06	919.08	135.16	1322.32	90.97	287.12	356.04
9943	18.26	-0.55	1.75	277.37	92.78	396.84	87.03	189.49	353.07	919.08	135.15	1322.34	90.99	287.12	356.07
9944	18.20	-1.65	1.75	386.49	146.26	371.45	135.89	178.08	350.48	1436.17	277.47	1332.99	349.65	155.86	385.15
9945	0.60	1.65	0.25	51.50	20.70	158.65	3.31	289.04	248.35	227.21	22.69	243.37	10.82	58.69	248.39
9946	0.60	0.55	0.25	51.62	20.54	155.59	2.04	289.63	249.34	228.44	22.45	241.33	4.01	58.54	249.35
9947	0.60	-0.55	0.25	51.62	20.54	155.59	2.05	289.63	249.34	228.44	22.44	241.34	4.01	58.54	249.35
9948	0.60	-1.65	0.25	51.52	20.70	158.64	3.32	289.04	248.36	227.18	22.68	243.39	10.82	58.68	248.39
9949	1.80	1.65	0.25	57.67	20.96	162.60	5.39	287.00	243.43	261.18	24.64	240.76	12.96	55.45	243.47
9950	1.80	0.55	0.25	57.91	20.81	159.62	4.66	287.59	244.37	262.80	24.36	238.65	6.10	55.25	244.37
9951	1.80	-0.55	0.25	57.91	20.81	159.62	4.67	287.59	244.37	262.80	24.36	238.66	6.11	55.25	244.38
9952	1.80	-1.65	0.25	57.68	20.96	162.58	5.41	287.00	243.44	261.16	24.63	240.78	12.96	55.44	243.47
9953	2.99	1.65	0.25	64.88	21.92	170.97	7.54	283.03	238.30	301.54	26.68	235.67	15.33	50.93	238.33
9954	3.00	0.55	0.25	65.24	21.80	168.19	7.00	283.61	239.19	303.58	26.35	233.46	8.30	50.68	239.20
9955	3.00	-0.55	0.25	65.24	21.80	168.18	7.01	283.60	239.20	303.57	26.34	233.46	8.30	50.68	239.20
9956	2.99	-1.65	0.25	64.89	21.92	170.95	7.55	283.03	238.32	301.52	26.67	235.69	15.33	50.92	238.34
9957	4.19	1.65	0.25	73.26	23.69	182.83	9.40	277.16	233.00	348.92	28.53	227.68	17.61	45.65	233.02
9958	4.20	0.55	0.25	73.72	23.60	180.31	8.95	277.71	233.84	351.37	28.09	225.31	10.23	45.44	233.84
9959	4.20	-0.55	0.25	73.72	23.60	180.30	8.96	277.71	233.85	351.36	28.09	225.32	10.24	45.44	233.85
9960	4.19	-1.65	0.25	73.28	23.68	182.81	9.42	277.16	233.02	348.90	28.51	227.69	17.62	45.65	233.03
9961	5.39	1.65	0.25	82.95	26.34	197.11	10.87	269.47	227.53	403.94	29.90	216.34	19.58	41.29	227.53
9962	5.41	0.55	0.25	83.48	26.32	194.88	10.45	269.98	228.32	406.76	29.35	213.76	11.76	41.32	228.32
9963	5.41	-0.55	0.25	83.49	26.32	194.87	10.45	269.98	228.33	406.76	29.35	213.76	11.76	41.32	228.33
9964	5.39	-1.65	0.25	82.97	26.34	197.08	10.88	269.47	227.55	403.92	29.89	216.35	19.58	41.29	227.55
9965	6.59	1.65	0.25	94.08	30.00	212.77	11.83	260.07	221.91	467.08	30.70	201.42	20.99	41.78	221.89
9966	6.61	0.55	0.25	94.65	30.06	210.84	11.39	260.54	222.65	470.17	30.09	198.55	12.75	42.34	222.65
9967	6.61	-0.55	0.25	94.66	30.06	210.83	11.40	260.54	222.66	470.16	30.09	198.55	12.74	42.34	222.66
9968	6.59	-1.65	0.25	94.09	29.99	212.74	11.85	260.07	221.93	467.07	30.69	201.41	20.98	41.78	221.91
9969	7.78	1.65	0.25	106.74	34.78	228.90	12.18	249.21	216.16	538.50	31.43	183.4			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
9997	16.17	1.65	0.25	203.55	93.42	324.96	23.21	185.74	212.78	955.07	125.17	890.61	43.16	175.59	216.21
9998	16.22	0.55	0.25	174.26	109.27	325.78	29.58	181.51	217.72	859.38	185.44	909.43	42.91	162.39	218.34
9999	16.22	-0.55	0.25	174.26	109.28	325.79	29.57	181.51	217.73	859.38	185.43	909.44	42.97	162.39	218.34
10000	16.17	-1.65	0.25	203.55	93.44	324.97	23.20	185.75	212.81	955.07	125.16	890.64	43.22	175.58	216.23
10001	17.36	1.65	0.25	195.15	103.88	338.52	63.70	162.03	239.67	868.97	134.80	1073.10	179.62	158.53	244.22
10002	17.42	0.55	0.25	103.18	125.69	340.25	42.01	139.70	256.03	577.51	203.68	1100.44	98.10	179.57	256.08
10003	17.42	-0.55	0.25	103.18	125.70	340.25	41.98	139.70	256.04	577.51	203.67	1100.46	98.18	179.58	256.09
10004	17.36	-1.65	0.25	195.14	103.90	338.54	63.67	162.05	239.70	868.97	134.78	1073.14	179.70	158.54	244.22
10005	18.56	1.65	0.25	158.17	122.88	307.52	111.32	101.69	298.93	619.87	119.54	910.87	379.61	353.42	339.35
10006	18.62	0.55	0.25	27.23	54.16	292.26	38.77	74.05	256.58	37.08	133.04	849.34	48.71	340.43	260.19
10007	18.62	-0.55	0.25	27.23	54.16	292.28	38.77	74.06	256.59	37.08	133.05	849.36	48.76	340.43	260.24
10008	18.56	-1.65	0.25	158.16	122.88	307.57	111.29	101.72	298.98	619.89	119.53	910.93	379.70	353.46	339.52
10009	0.61	1.65	-1.25	41.83	15.75	176.72	3.51	313.82	265.55	148.88	16.74	253.40	8.89	57.48	265.62
10010	0.61	0.55	-1.25	41.92	15.61	173.45	3.00	314.52	266.61	149.54	16.73	251.05	4.06	57.27	266.62
10011	0.61	-0.55	-1.25	41.92	15.62	173.45	3.01	314.51	266.61	149.53	16.73	251.06	4.06	57.27	266.62
10012	0.61	-1.65	-1.25	41.86	15.76	176.72	3.52	313.82	265.55	148.85	16.75	253.42	8.90	57.47	265.63
10013	1.83	1.65	-1.25	46.60	15.88	181.85	6.53	312.13	261.16	174.91	16.51	248.89	11.33	50.97	261.25
10014	1.84	0.55	-1.25	46.79	15.74	178.68	6.30	312.83	262.18	175.85	16.49	246.44	7.02	50.73	262.19
10015	1.84	-0.55	-1.25	46.80	15.74	178.67	6.31	312.83	262.19	175.84	16.50	246.45	7.03	50.72	262.19
10016	1.83	-1.65	-1.25	46.63	15.88	181.84	6.55	312.12	261.17	174.88	16.52	248.91	11.35	50.96	261.25
10017	3.05	1.65	-1.25	52.19	16.71	192.12	9.36	308.51	256.57	205.75	16.93	241.77	14.01	44.80	256.65
10018	3.06	0.55	-1.25	52.46	16.58	189.16	9.24	309.21	257.55	206.99	16.91	239.17	9.87	44.67	257.56
10019	3.06	-0.55	-1.25	52.47	16.57	189.15	9.25	309.20	257.55	206.98	16.91	239.17	9.88	44.67	257.56
10020	3.05	-1.65	-1.25	52.21	16.70	192.09	9.38	308.51	256.58	205.72	16.94	241.79	14.03	44.79	256.66
10021	4.27	1.65	-1.25	58.66	18.35	206.45	11.80	303.00	251.77	241.49	17.97	231.71	16.54	42.08	251.85
10022	4.29	0.55	-1.25	59.00	18.24	203.79	11.74	303.69	252.71	243.00	17.96	228.90	12.36	42.34	252.72
10023	4.29	-0.55	-1.25	59.01	18.24	203.78	11.75	303.69	252.72	242.99	17.96	228.90	12.36	42.34	252.72
10024	4.27	-1.65	-1.25	58.68	18.34	206.42	11.81	303.00	251.79	241.47	17.97	231.72	16.55	42.08	251.86
10025	5.49	1.65	-1.25	66.06	20.90	223.66	13.74	295.67	246.77	281.99	19.56	218.65	18.68	47.46	246.83
10026	5.51	0.55	-1.25	66.45	20.83	221.31	13.71	296.33	247.67	283.71	19.61	215.58	14.34	48.37	247.68
10027	5.51	-0.55	-1.25	66.45	20.83	221.30	13.72	296.33	247.68	283.71	19.61	215.58	14.35	48.37	247.68
10028	5.49	-1.65	-1.25	66.08	20.89	223.62	13.76	295.67	246.79	281.97	19.57	218.65	18.69	47.46	246.84
10029	6.72	1.65	-1.25	74.34	24.43	242.58	15.10	286.61	241.55	326.77	21.76	203.38	20.25	63.12	241.58
10030	6.74	0.55	-1.25	74.74	24.43	240.56	15.07	287.23	242.42	328.61	21.96	200.02	15.71	64.64	242.42
10031	6.74	-0.55	-1.25	74.75	24.43	240.55	15.07	287.23	242.43	328.60	21.96	200.02	15.72	64.64	242.43
10032	6.72	-1.65	-1.25	74.36	24.42	242.55	15.11	286.61	241.57	326.75	21.76	203.37	20.26	63.13	241.60
10033	7.94	1.65	-1.25	83.36	29.03	262.20	15.77	276.01	236.13	374.80	24.89	188.97	21.10	87.68	236.12
10034	7.96	0.55	-1.25	83.75	29.12	260.47	15.69	276.58	236.98	376.61	25.40	185.46	16.35	89.63	236.97
10035	7.96	-0.55	-1.25	83.75	29.12	260.46	15.69	276.58	236.98	376.60	25.40	185.45	16.35	89.63	236.98
10036	7.94	-1.65	-1.25	83.37	29.02	262.16	15.78	276.01	236.15	374.78	24.89	188.95	21.10	87.69	236.14
10037	9.16	1.65	-1.25	92.79	34.80	281.60	15.62	264.18	230.55	424.23	29.60	183.51	21.13	119.02	230.51
10038	9.19	0.55	-1.25	93.14	34.96	280.15	15.41	264.66	231.40	425.89	30.55	180.40	16.10	121.25	231.40
10039	9.19	-0.55	-1.25	93.14	34.95	280.14	15.42	264.66	231.41	425.89	30.55	180.39	16.10	121.25	231.41
10040	9.16	-1.65	-1.25	92.80	34.80	281.57	15.63	264.18	230.58	424.22	29.60	183.48	21.12	119.02	230.53
10041	10.38	1.65	-1.25	102.05	41.78	300.00	14.52	251.53	224.99	472.12	36.56	201.82	20.45	154.54	224.95
10042	10.41	0.55	-1.25	102.36	41.93	298.80	14.10	251.91	225.89	473.59	37.90	200.13	14.87	156.92	225.89
10043	10.41	-0.55	-1.25	102.37	41.92	298.80	14.11	251.91	225.90	473.59	37.90	200.12	14.86	156.92	225.89
10044	10.38	-1.65	-1.25	102.06	41.77	299.98	14.53	251.53	225.01	472.11	36.56	201.78	20.44	154.54	224.97
10045	11.60	1.65	-1.25	110.24	49.85	316.73	12.40	238.55	219.79	514.30	45.66	257.99	19.55	189.50	219.87
10046	11.64	0.55	-1.25	110.54	49.89	315.74	11.66	238.83	220.80	515.57	47.15	258.51	12.66	191.94	220.81
10047	11.64	-0.55	-1.25	110.54	49.89	315.73	11.66	238.83	220.81	515.57	47.15	258.50	12.64	191.94	220.82
10048	11.60	-1.65	-1.25	110.25	49.85	316.71	12.41	238.56	219.81	514.29	45.65	257.97	19.52	189.50	219.89
10049	12.82	1.65	-1.25	116.13	58.61	331.16	9.46	225.52	215.59	545.76	55.14	355.21	19.20	214.66	215.95
10050	12.86	0.55	-1.25	116.25	58.60	330.36	8.19	225.70	216.78	546.25	56.99	358.16	9.73	217.00	216.82
10051	12.86	-0.55	-1.25	116.25	58.59	330.35	8.20	225.70	216.79	546.25	56.98	358.15	9.70	217.00	216.83
10052	12.82	-1.65	-1.25	116.13	58.60	331.15	9.48	225.53	215.61	545.75	55.13	355.21	19.16	214.66	215.97
10053	14.04	1.65	-1.25	118.21	67.24	342.62	6.43	211.79	213.30	562.51	61.52	486.09	18.66	213.96	214.10
10054	14.09	0.55	-1.25	117.07	67.98	342.01	4.30	211.66	214.83	558.84	65.97	491.64	6.22	215.09	214.93
10055	14.09	-0.55	-1.25	117.07	67.98	342.01	4.31	211.66	214.84	558.83	65.96	491.64	6.18	215.09	214.94
10056	14.04	-1.65	-1.25	118.21	67.24	342.62	6.46	211.79	213.32	562.50	61.51	486.10	18.60	213.96	214.12
10057	15.26	1.65	-1.25	115.32	74.79	349.62	5.93	194.72	213.81	566.94	61.25	628.53	11.73	167.92	215.33
10058	15.31	0.55	-1.25	108.73	78.99	349.12	3.15	192.77	216.33	547.84	74.73	636.06	3.34	163.07	216.58
10059	15.31	-0.55	-1.25	108.73	78.99	349.12	3.15	192.77	216.34	547.84	74.72	636.07	3.37	163.07	216.59
10060	15.26	-1.65	-1.25	115.32	74.79	349.63	5.96	194.73	213.83	566.94	61.23	628.55	11.66	167.92	215.35
10061	16.48	1.65	-1.25	108.54	81.15	348.58	20.36	169.66	216.78	578.40	56.35	738.48	28.22	118.13	220.72
10062	16.54	0.55	-1.25	84.84	93.95	347.22	11.67	159.25	222.65	519.83	85.91	741.20	20.70	119.06	223.45
10063	16.54	-0.55	-1.25	84.83	93.95	347.23	11.65	159.25	222.65	519.83	85.91	741.21	20.78	119.06	223.44
10064	16.48	-1.65	-1.25	108.54	81.16	348.60	20.36	169.66	216.80	578.40	56.33	738.51	28.29	118.13	220.72
10065	17.70	1.65	-1.25	104.04	88.98	329.24	56.97	135.10	218.77	640.52	57.71	748.71	88.93	282.38	227.87
10066	17.76	0.55	-1.25	44.37	106.62	319.31	30.86	101.37	230.89	518.75	78.72	726.80	47.68	337.54	231.44
10067	17.76	-0.55	-1.25	44.37	106.62	319.32	30								



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
10095	-6.48	0.55	1.75	36.62	32.17	196.85	19.38	238.86	258.14	159.57	24.28	201.48	19.42	40.60	258.13
10096	-6.46	1.65	1.75	37.44	32.40	198.21	19.37	238.75	257.02	159.43	24.61	203.24	19.74	41.54	257.00
10097	-7.63	-1.65	1.75	36.57	34.91	213.76	23.46	228.31	259.74	150.78	25.64	195.41	23.61	40.00	259.72
10098	-7.66	-0.55	1.75	35.60	34.65	212.63	23.52	228.28	260.87	150.83	25.30	193.63	23.54	38.71	260.86
10099	-7.66	0.55	1.75	35.59	34.65	212.62	23.53	228.28	260.87	150.84	25.29	193.63	23.54	38.71	260.87
10100	-7.63	1.65	1.75	36.57	34.90	213.73	23.46	228.31	259.75	150.81	25.63	195.39	23.61	40.01	259.73
10101	-8.80	-1.65	1.75	36.30	37.64	229.29	27.77	216.34	261.99	144.35	27.54	187.91	27.79	42.20	261.95
10102	-8.83	-0.55	1.75	35.20	37.37	228.38	27.87	216.16	263.09	144.34	27.20	186.15	27.87	40.65	263.09
10103	-8.83	0.55	1.75	35.19	37.36	228.37	27.86	216.16	263.10	144.35	27.19	186.14	27.87	40.65	263.09
10104	-8.80	1.65	1.75	36.29	37.63	229.27	27.77	216.34	262.00	144.39	27.52	187.89	27.78	42.22	261.96
10105	-9.98	-1.65	1.75	36.53	40.59	244.49	32.31	203.11	263.79	139.55	30.21	182.13	32.25	48.87	263.74
10106	-10.01	-0.55	1.75	35.33	40.30	243.75	32.43	202.73	264.86	139.51	29.89	180.42	32.42	47.24	264.86
10107	-10.01	0.55	1.75	35.33	40.29	243.74	32.43	202.73	264.87	139.52	29.88	180.41	32.42	47.24	264.86
10108	-9.98	1.65	1.75	36.52	40.58	244.47	32.31	203.11	263.80	139.60	30.20	182.11	32.24	48.88	263.75
10109	-11.15	-1.65	1.75	37.17	43.73	259.18	37.13	188.97	265.24	135.72	33.58	180.39	37.01	59.69	265.18
10110	-11.19	-0.55	1.75	35.89	43.43	258.56	37.26	188.37	266.28	135.66	33.28	178.80	37.25	58.14	266.27
10111	-11.19	0.55	1.75	35.88	43.42	258.55	37.25	188.37	266.28	135.68	33.28	178.79	37.24	58.14	266.27
10112	-11.15	1.65	1.75	37.16	43.72	259.15	37.12	188.97	265.25	135.78	33.57	180.36	37.00	59.70	265.19
10113	-12.33	-1.65	1.75	38.10	47.05	273.42	42.26	174.44	266.50	131.98	37.56	186.19	42.12	73.95	266.44
10114	-12.37	-0.55	1.75	36.77	46.73	272.88	42.41	173.59	267.48	131.92	37.30	184.86	42.39	72.55	267.47
10115	-12.37	0.55	1.75	36.76	46.73	272.87	42.41	173.59	267.48	131.94	37.29	184.85	42.39	72.55	267.48
10116	-12.33	1.65	1.75	38.09	47.04	273.40	42.26	174.44	266.51	132.07	37.55	186.15	42.10	73.96	266.44
10117	-13.50	-1.65	1.75	39.18	50.52	287.72	47.74	160.25	267.79	127.11	42.09	204.00	47.59	90.92	267.71
10118	-13.55	-0.55	1.75	37.81	50.19	287.20	47.91	159.14	268.70	127.04	41.87	203.10	47.89	89.71	268.69
10119	-13.55	0.55	1.75	37.81	50.19	287.19	47.91	159.14	268.70	127.07	41.88	203.09	47.90	89.72	268.69
10120	-13.50	1.65	1.75	39.18	50.52	287.69	47.74	160.25	267.79	127.22	42.10	203.95	47.58	90.94	267.72
10121	-14.67	-1.65	1.75	39.99	54.10	303.15	53.48	147.23	269.39	119.10	47.05	238.33	53.35	109.65	269.32
10122	-14.72	-0.55	1.75	38.61	53.76	302.61	53.71	145.88	270.24	118.99	46.91	238.06	53.69	108.67	270.23
10123	-14.72	0.55	1.75	38.61	53.77	302.61	53.73	145.88	270.24	119.03	46.94	238.04	53.71	108.68	270.24
10124	-14.67	1.65	1.75	40.00	54.11	303.13	53.52	147.24	269.40	119.23	47.11	238.27	53.38	109.69	269.33
10125	-15.85	-1.65	1.75	39.46	57.74	321.86	59.16	135.93	271.62	104.55	52.19	293.22	59.10	127.91	271.55
10126	-15.90	-0.55	1.75	38.03	57.40	321.31	59.50	134.39	272.44	104.31	52.20	293.77	59.49	127.17	272.43
10127	-15.90	0.55	1.75	38.03	57.41	321.31	59.54	134.39	272.46	104.34	52.26	293.74	59.53	127.18	272.45
10128	-15.85	1.65	1.75	39.47	57.76	321.86	59.27	135.95	271.67	104.68	52.34	293.16	59.19	127.97	271.61
10129	-17.02	-1.65	1.75	34.80	61.36	344.68	63.89	123.88	274.21	77.68	56.13	366.64	63.96	137.48	274.17
10130	-17.08	-0.55	1.75	33.14	61.04	344.18	64.40	122.18	275.15	76.96	56.36	368.24	64.40	136.83	275.14
10131	-17.08	0.55	1.75	33.14	61.06	344.18	64.45	122.18	275.20	76.99	56.46	368.22	64.46	136.85	275.19
10132	-17.02	1.65	1.75	34.80	61.42	344.71	64.06	123.90	274.35	77.76	56.39	366.62	64.12	137.55	274.31
10133	-18.20	-1.65	1.75	29.87	65.02	369.07	68.05	107.79	276.92	49.84	59.41	447.31	68.23	133.05	276.94
10134	-18.26	-0.55	1.75	27.89	64.80	368.71	68.50	105.84	277.70	48.34	59.75	450.03	68.52	132.10	277.71
10135	-18.26	0.55	1.75	27.88	64.84	368.73	68.53	105.84	277.77	48.34	59.84	450.03	68.55	132.11	277.78
10136	-18.20	1.65	1.75	29.86	65.14	369.17	68.16	107.80	277.15	49.86	59.71	447.38	68.33	133.10	277.17
10137	-0.60	-1.65	0.25	46.30	21.06	159.64	2.87	289.13	253.04	198.97	21.11	243.89	9.38	60.50	253.07
10138	-0.60	-0.55	0.25	46.26	20.88	156.66	1.51	289.70	254.07	199.88	20.88	241.88	3.35	60.40	254.08
10139	-0.60	0.55	0.25	46.25	20.88	156.66	1.51	289.70	254.07	199.88	20.88	241.87	3.36	60.40	254.08
10140	-0.60	1.65	0.25	46.28	21.05	159.64	2.87	289.13	253.04	198.99	21.12	243.87	9.39	60.50	253.07
10141	-1.80	-1.65	0.25	41.94	21.93	165.53	5.15	287.26	257.43	175.93	20.12	242.57	9.27	60.89	257.46
10142	-1.80	-0.55	0.25	41.74	21.74	162.74	4.66	287.80	258.51	176.55	19.89	240.58	5.33	60.82	258.51
10143	-1.80	0.55	0.25	41.74	21.74	162.74	4.67	287.80	258.51	176.56	19.90	240.57	5.34	60.82	258.51
10144	-1.80	1.65	0.25	41.92	21.92	165.52	5.16	287.25	257.43	175.96	20.13	242.55	9.28	60.90	257.46
10145	-2.99	-1.65	0.25	38.39	23.24	175.69	8.43	283.40	261.46	157.56	19.89	239.66	10.72	59.93	261.49
10146	-3.00	-0.55	0.25	38.02	23.04	173.18	8.24	283.90	262.59	157.94	19.66	237.68	8.53	59.84	262.59
10147	-3.00	0.55	0.25	38.02	23.03	173.18	8.24	283.90	262.59	157.94	19.66	237.67	8.54	59.84	262.59
10148	-2.99	1.65	0.25	38.37	23.23	175.67	8.44	283.40	261.47	157.59	19.89	239.63	10.74	59.94	261.49
10149	-4.19	-1.65	0.25	35.63	24.93	189.18	12.11	277.56	265.09	143.39	20.45	235.32	13.37	57.70	265.11
10150	-4.20	-0.55	0.25	35.08	24.70	187.00	12.05	278.00	266.25	143.56	20.22	233.35	12.20	57.55	266.25
10151	-4.20	0.55	0.25	35.07	24.70	186.99	12.06	278.00	266.25	143.56	20.21	233.34	12.21	57.55	266.25
10152	-4.19	1.65	0.25	35.61	24.91	189.16	12.11	277.55	265.10	143.41	20.45	235.29	13.38	57.72	265.11
10153	-5.39	-1.65	0.25	33.65	26.94	204.98	16.03	269.72	268.25	132.96	21.77	229.72	16.73	54.40	268.25
10154	-5.41	-0.55	0.25	32.90	26.70	203.13	16.06	270.09	269.43	132.97	21.54	227.75	16.14	54.12	269.43
10155	-5.41	0.55	0.25	32.90	26.70	203.12	16.06	270.09	269.44	132.98	21.53	227.74	16.14	54.13	269.44
10156	-5.39	1.65	0.25	33.63	26.93	204.96	16.03	269.72	268.26	132.98	21.76	229.69	16.74	54.41	268.26
10157	-6.59	-1.65	0.25	32.46	29.27	222.15	20.15	259.91	270.88	125.88	23.76	223.03	20.54	50.37	270.88
10158	-6.61	-0.55	0.25	31.52	29.00	220.62	20.23	260.18	272.08	125.78	23.53	221.06	20.28	49.89	272.08
10159	-6.61	0.55	0.25	31.52	29.00	220.61	20.23	260.18	272.09	125.78	23.52	221.05	20.28	49.90	272.09
10160	-6.59	1.65	0.25	32.44	29.25	222.12	20.15	259.91	270.89	125.90	23.74	223.00	20.55	50.39	270.89
10161	-7.78	-1.65	0.25	32.05	31.87	239.88	24.45	248.17	272.96	121.75	26.33	215.55	24.66	46.32	272.94
10162	-7.81	-0.55	0.25	30.94	31.59	238.63	24.57	248.32	274.17	121.57	26.10	213.58	24.59	45.54	274.17
10163	-7.81	0.55	0.25	30.94	31.58	238.62	24.57	248.32	274.17	121.58	26.09	213.57	24.59	45.54	274.17
10164	-7.78	1.65	0.25	32.03	31.86	239.85	24.45	248.17	272.97	121.78	26.31	215.52	24.66	46.34	272.96
10165	-8.98	-1.65	0.25	32.41	34.75	257.49	28.96	234.60	274.47	120.19	29.42	207.82	29.05	43.53	274

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
10193	-17.36	-1.65	0.25	54.83	61.22	379.44	73.82	141.72	284.89	123.20	71.20	394.49	73.76	169.90	284.83
10194	-17.42	-0.55	0.25	53.60	60.73	378.66	74.36	140.06	285.69	123.04	71.44	395.64	74.35	169.51	285.69
10195	-17.42	0.55	0.25	53.57	60.78	378.63	74.43	140.04	285.72	123.02	71.54	395.56	74.42	169.47	285.72
10196	-17.36	1.65	0.25	54.77	61.36	379.35	74.05	141.66	284.98	123.20	71.54	394.27	73.99	169.81	284.93
10197	-18.56	-1.65	0.25	35.44	64.34	421.75	72.55	127.88	291.80	56.86	73.33	517.24	72.79	163.86	291.79
10198	-18.62	-0.55	0.25	33.76	64.12	421.03	73.03	126.19	292.43	55.63	73.89	519.90	73.06	163.42	292.43
10199	-18.62	0.55	0.25	33.75	64.18	421.00	73.06	126.17	292.47	55.63	73.95	519.82	73.09	163.39	292.47
10200	-18.56	1.65	0.25	35.41	64.56	421.66	72.68	127.82	291.97	56.87	73.62	517.04	72.92	163.80	291.98
10201	-0.61	-1.65	-1.25	37.81	16.24	177.34	1.99	313.57	269.70	127.45	17.59	255.68	7.45	63.02	269.76
10202	-0.61	-0.55	-1.25	37.76	16.09	174.12	0.95	314.25	270.80	127.87	17.57	253.38	2.58	62.88	270.81
10203	-0.61	0.55	-1.25	37.75	16.08	174.12	0.95	314.25	270.80	127.88	17.56	253.37	2.59	62.89	270.81
10204	-0.61	1.65	-1.25	37.79	16.23	177.34	1.99	313.57	269.70	127.49	17.57	255.66	7.46	63.02	269.77
10205	-1.83	-1.65	-1.25	34.40	17.21	183.66	4.89	311.34	273.57	110.44	18.91	256.02	7.99	67.08	273.62
10206	-1.84	-0.55	-1.25	34.20	17.04	180.63	4.67	311.99	274.72	110.62	18.89	253.75	5.12	67.01	274.72
10207	-1.84	0.55	-1.25	34.20	17.03	180.62	4.67	311.99	274.72	110.63	18.88	253.74	5.13	67.02	274.72
10208	-1.83	1.65	-1.25	34.38	17.19	183.65	4.90	311.33	273.57	110.47	18.89	255.98	8.00	67.09	273.63
10209	-3.05	-1.65	-1.25	31.57	18.58	194.98	8.79	307.09	277.10	97.53	20.60	254.66	10.41	69.46	277.15
10210	-3.06	-0.55	-1.25	31.20	18.39	192.23	8.76	307.71	278.30	97.51	20.57	252.42	8.96	69.44	278.30
10211	-3.06	0.55	-1.25	31.19	18.39	192.22	8.77	307.71	278.30	97.52	20.57	252.41	8.96	69.45	278.30
10212	-3.05	1.65	-1.25	31.54	18.57	194.95	8.80	307.09	277.11	97.56	20.58	254.63	10.43	69.46	277.16
10213	-4.27	-1.65	-1.25	29.28	20.31	210.20	12.95	300.79	280.24	88.45	22.58	251.81	13.87	70.07	280.27
10214	-4.29	-0.55	-1.25	28.71	20.09	207.78	13.02	301.36	281.47	88.26	22.54	249.58	13.12	70.08	281.48
10215	-4.29	0.55	-1.25	28.70	20.09	207.77	13.02	301.36	281.48	88.27	22.53	249.57	13.13	70.08	281.48
10216	-4.27	1.65	-1.25	29.25	20.29	210.17	12.96	300.78	280.25	88.48	22.55	251.78	13.88	70.08	280.29
10217	-5.49	-1.65	-1.25	27.54	22.36	228.16	17.26	292.37	282.90	82.91	24.79	247.58	17.82	68.91	282.92
10218	-5.51	-0.55	-1.25	26.74	22.12	226.09	17.39	292.89	284.17	82.58	24.74	245.36	17.45	68.90	284.17
10219	-5.51	0.55	-1.25	26.73	22.11	226.08	17.39	292.88	284.17	82.58	24.73	245.34	17.45	68.90	284.17
10220	-5.49	1.65	-1.25	27.51	22.34	228.13	17.26	292.37	282.92	82.93	24.77	247.55	17.82	68.92	282.94
10221	-6.72	-1.65	-1.25	26.43	24.72	247.76	21.67	281.80	285.01	80.62	27.23	242.10	22.02	66.01	285.02
10222	-6.74	-0.55	-1.25	25.38	24.45	246.02	21.83	282.23	286.30	80.19	27.17	239.88	21.87	65.92	286.30
10223	-6.74	0.55	-1.25	25.37	24.45	246.01	21.83	282.23	286.30	80.19	27.16	239.87	21.87	65.93	286.31
10224	-6.72	1.65	-1.25	26.40	24.70	247.72	21.67	281.79	285.02	80.65	27.21	242.07	22.02	66.03	285.03
10225	-7.94	-1.65	-1.25	26.05	27.40	268.03	26.17	269.03	286.48	81.34	29.93	235.54	26.40	61.54	286.47
10226	-7.96	-0.55	-1.25	24.75	27.11	266.61	26.36	269.36	287.78	80.83	29.85	233.32	26.39	61.30	287.78
10227	-7.96	0.55	-1.25	24.73	27.10	266.60	26.36	269.35	287.79	80.83	29.84	233.31	26.38	61.30	287.79
10228	-7.94	1.65	-1.25	26.02	27.38	267.99	26.16	269.02	286.49	81.36	29.90	235.50	26.40	61.56	286.49
10229	-9.16	-1.65	-1.25	26.52	30.40	288.13	30.80	254.06	287.24	84.80	32.92	228.25	30.95	55.89	287.22
10230	-9.19	-0.55	-1.25	25.00	30.09	287.00	31.00	254.26	288.55	84.25	32.82	226.04	31.02	55.39	288.55
10231	-9.19	0.55	-1.25	24.98	30.08	286.99	31.00	254.25	288.55	84.26	32.82	226.03	31.02	55.40	288.55
10232	-9.16	1.65	-1.25	26.48	30.39	288.10	30.79	254.06	287.25	84.82	32.90	228.22	30.94	55.92	287.23
10233	-10.38	-1.65	-1.25	27.93	33.74	307.32	35.65	236.98	287.23	90.81	36.28	220.98	35.74	50.02	287.20
10234	-10.41	-0.55	-1.25	26.24	33.40	306.44	35.86	236.99	288.53	90.26	36.18	218.81	35.87	49.12	288.52
10235	-10.41	0.55	-1.25	26.22	33.39	306.43	35.85	236.99	288.53	90.26	36.17	218.80	35.86	49.12	288.53
10236	-10.38	1.65	-1.25	27.88	33.72	307.29	35.63	236.97	287.25	90.82	36.27	220.95	35.72	50.05	287.21
10237	-11.60	-1.65	-1.25	30.33	37.41	324.93	40.88	217.97	286.45	99.21	40.14	215.23	40.92	46.03	286.39
10238	-11.64	-0.55	-1.25	28.54	37.05	324.27	41.08	217.77	287.70	98.70	40.01	213.14	41.08	44.58	287.70
10239	-11.64	0.55	-1.25	28.52	37.04	324.26	41.07	217.77	287.71	98.70	40.01	213.13	41.07	44.59	287.70
10240	-11.60	1.65	-1.25	30.28	37.39	324.90	40.85	217.96	286.46	99.23	40.12	215.19	40.90	46.04	286.40
10241	-12.82	-1.65	-1.25	33.84	41.43	340.43	46.74	197.51	284.92	110.01	44.65	213.72	46.74	47.49	284.86
10242	-12.86	-0.55	-1.25	32.01	41.04	339.93	46.92	197.03	286.12	109.55	44.51	211.82	46.92	45.60	286.11
10243	-12.86	0.55	-1.25	31.99	41.03	339.93	46.92	197.03	286.12	109.55	44.51	211.81	46.92	45.60	286.12
10244	-12.82	1.65	-1.25	33.78	41.42	340.40	46.71	197.50	284.93	110.03	44.65	213.68	46.71	47.48	284.86
10245	-14.04	-1.65	-1.25	38.80	45.81	353.54	53.63	176.46	282.86	123.47	50.12	220.93	53.59	57.78	282.78
10246	-14.09	-0.55	-1.25	36.97	45.38	353.14	53.80	175.65	283.97	123.07	49.96	219.38	53.80	55.86	283.96
10247	-14.09	0.55	-1.25	36.94	45.37	353.14	53.80	175.65	283.97	123.07	49.97	219.36	53.80	55.85	283.96
10248	-14.04	1.65	-1.25	38.72	45.80	353.51	53.62	176.44	282.86	123.48	50.15	220.87	53.58	57.74	282.78
10249	-15.26	-1.65	-1.25	46.07	50.57	364.51	62.20	156.53	280.76	140.41	57.08	243.15	62.13	78.08	280.67
10250	-15.31	-0.55	-1.25	44.29	50.06	364.13	62.39	155.34	281.74	140.08	56.89	242.14	62.38	76.43	281.73
10251	-15.31	0.55	-1.25	44.25	50.06	364.12	62.40	155.33	281.73	140.06	56.92	242.11	62.39	76.40	281.72
10252	-15.26	1.65	-1.25	45.97	50.57	364.47	62.23	156.50	280.74	140.38	57.16	243.05	62.16	78.00	280.65
10253	-16.48	-1.65	-1.25	57.55	55.76	375.53	73.62	141.23	279.94	162.89	66.74	289.30	73.52	110.15	279.85
10254	-16.54	-0.55	-1.25	55.85	55.12	375.04	73.88	139.66	280.75	162.62	66.53	289.03	73.87	108.88	280.74
10255	-16.54	0.55	-1.25	55.81	55.14	375.02	73.92	139.64	280.73	162.56	66.59	288.98	73.91	108.83	280.73
10256	-16.48	1.65	-1.25	57.41	55.81	375.45	73.73	141.17	279.89	162.75	66.90	289.12	73.63	110.01	279.81
10257	-17.70	-1.65	-1.25	76.60	61.70	390.82	90.36	138.22	284.37	195.06	81.29	370.94	90.23	162.16	284.31
10258	-17.76	-0.55	-1.25	75.02	60.80	390.02	90.79	136.37	285.02	194.86	81.05	371.45	90.78	161.32	285.01
10259	-17.76	0.55	-1.25	74.96	60.85	389.99	90.83	136.33	285.00	194.76	81.08	371.37	90.82	161.24	284.99
10260	-17.70	1.65	-1.25	76.41	61.86	390.69	90.52	138.10	284.31	194.77	81.43	370.66	90.39	161.91	284.26
10261	-18.92	-1.65	-1.25	105.22	71.33	489.01	123.47	183.14	324.14	235.47	120.98	630.80	123.38	284.05	324.13
10262	-18.98	-0.55	-1.25	103.53	69.61	487.71	124.17	181.48	324.35	235.17	120.70	633.22	124.16	284.20	324.35
10263	-18.98	0.55	-1.25	103.47	69.66	487.63	124.17	181.42	324.32	235.04	120.63	633.02	124.16	284.08	324.32</

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
10291	2.92	2.50	1.75	73.70	25.75	155.09	7.53	258.94	218.63	368.50	40.36	229.78	24.44	68.77	218.63
10292	2.91	3.10	1.75	73.10	25.92	158.56	8.70	256.33	217.54	364.69	40.70	232.37	30.01	68.93	217.53
10293	1.75	2.50	1.75	65.77	24.78	148.67	6.20	261.13	224.21	322.70	37.73	232.73	21.33	67.82	224.21
10294	1.74	3.10	1.75	65.37	24.98	152.34	7.44	260.50	223.03	319.65	38.00	235.25	26.22	67.90	223.04
10295	0.58	2.50	1.75	59.05	24.48	145.85	5.19	263.46	229.62	284.09	34.85	233.51	18.46	65.84	229.63
10296	0.58	3.10	1.75	58.86	24.70	149.58	6.47	262.83	228.37	281.70	35.10	235.97	22.73	65.89	228.39
10297	18.48	2.50	0.25	387.96	108.28	341.52	83.27	189.83	204.43	1458.86	147.57	986.85	222.93	379.02	209.69
10298	18.39	3.10	0.25	407.95	142.28	357.90	83.73	219.19	214.49	1542.43	218.60	998.70	261.24	369.06	239.87
10299	17.28	2.50	0.25	269.13	79.99	335.66	26.49	180.88	229.16	1108.46	59.06	1036.49	49.97	144.70	235.87
10300	17.20	3.10	0.25	271.61	66.72	335.86	34.16	183.17	230.98	1115.25	59.24	1010.95	131.02	142.55	233.17
10301	16.09	2.50	0.25	223.39	81.64	324.97	11.46	188.66	209.54	1021.00	80.85	869.03	34.21	183.30	214.18
10302	16.02	3.10	0.25	220.07	82.67	325.98	25.30	188.31	207.90	1009.86	80.12	852.70	102.16	180.20	213.22
10303	14.90	2.50	0.25	202.56	83.97	311.48	12.10	192.79	196.85	987.79	107.18	629.41	41.52	232.51	202.16
10304	14.83	3.10	0.25	199.62	85.70	312.62	16.52	192.66	195.04	977.18	108.08	618.74	68.18	229.21	202.47
10305	13.71	2.50	0.25	186.41	77.36	299.03	7.70	196.54	192.92	940.85	98.81	419.94	33.18	222.18	196.82
10306	13.64	3.10	0.25	184.56	78.52	300.27	9.96	196.62	191.38	933.59	98.41	413.68	44.82	219.26	197.03
10307	12.52	2.50	0.25	169.80	67.23	287.29	7.07	203.23	194.28	871.00	76.32	273.68	27.65	184.42	196.29
10308	12.46	3.10	0.25	168.71	67.44	288.61	9.22	203.29	193.08	866.04	73.84	271.15	35.56	181.66	195.94
10309	11.32	2.50	0.25	152.66	56.92	274.98	9.54	212.99	198.37	787.08	54.50	191.27	27.34	141.08	199.09
10310	11.27	3.10	0.25	151.84	56.60	276.42	11.19	212.90	197.40	782.68	51.85	192.38	34.90	138.26	198.37
10311	10.13	2.50	0.25	135.87	47.90	261.47	11.61	224.63	203.67	698.87	40.19	164.27	29.07	101.99	203.78
10312	10.08	3.10	0.25	135.04	47.46	263.12	12.83	224.36	202.79	694.20	38.98	167.97	36.73	99.23	202.91
10313	8.94	2.50	0.25	120.15	40.48	246.79	12.71	236.85	209.39	613.20	33.92	170.69	30.43	71.09	209.31
10314	8.90	3.10	0.25	119.25	40.13	248.69	13.64	236.42	208.51	608.22	34.20	175.14	37.96	68.72	208.37
10315	7.75	2.50	0.25	105.90	34.56	231.28	12.95	248.67	215.17	533.90	32.22	187.96	30.57	50.37	215.08
10316	7.71	3.10	0.25	104.98	34.37	233.50	13.71	248.12	214.23	528.91	33.11	192.22	37.69	48.75	214.10
10317	6.56	2.50	0.25	93.26	29.93	215.53	12.50	259.44	220.86	462.67	31.63	205.47	29.46	41.07	220.81
10318	6.53	3.10	0.25	92.39	29.89	218.12	13.16	258.79	219.86	457.98	32.53	209.32	36.01	40.44	219.78
10319	5.36	2.50	0.25	82.21	26.40	200.28	11.51	268.76	226.41	399.95	30.70	220.01	27.41	41.31	226.41
10320	5.34	3.10	0.25	81.43	26.48	203.25	12.12	268.04	225.33	395.78	31.42	223.50	33.32	41.39	225.33
10321	4.17	2.50	0.25	72.64	23.83	186.41	10.07	276.40	231.80	345.49	29.16	231.05	24.76	45.96	231.84
10322	4.15	3.10	0.25	71.99	23.98	189.76	10.70	275.63	230.65	341.93	29.71	234.26	30.04	46.30	230.70
10323	2.98	2.50	0.25	64.40	22.12	174.91	8.30	282.24	237.03	298.71	27.18	238.84	21.83	51.26	237.09
10324	2.97	3.10	0.25	63.90	22.32	178.80	8.99	281.44	235.80	295.80	27.61	241.85	26.54	51.61	235.90
10325	1.79	2.50	0.25	57.35	21.18	166.80	6.34	286.20	242.09	258.94	25.05	243.78	18.88	55.73	242.16
10326	1.78	3.10	0.25	57.03	21.41	170.72	7.17	285.38	240.79	256.65	25.42	246.66	23.07	56.00	240.90
10327	0.60	2.50	0.25	51.37	20.94	162.94	4.60	288.24	246.94	225.50	23.06	246.30	16.18	58.89	247.02
10328	0.59	3.10	0.25	51.24	21.18	166.97	5.60	287.43	245.58	223.78	23.41	249.08	19.90	59.07	245.70
10329	18.84	2.50	-1.25	238.37	93.58	336.40	87.02	193.42	176.47	1035.32	94.21	762.72	107.82	511.89	176.46
10330	18.76	3.10	-1.25	246.24	103.69	354.51	83.46	209.78	187.53	1078.06	124.49	778.43	147.47	500.59	237.22
10331	17.63	2.50	-1.25	157.17	73.57	338.78	44.30	166.21	208.32	748.08	48.38	775.60	45.73	235.13	220.32
10332	17.55	3.10	-1.25	158.38	69.65	340.69	44.64	169.10	211.22	756.15	54.60	766.60	80.30	227.63	216.31
10333	16.41	2.50	-1.25	125.89	72.40	349.90	15.74	177.28	212.64	623.23	44.35	727.75	27.95	121.96	216.14
10334	16.34	3.10	-1.25	124.12	73.47	350.63	23.09	176.81	211.91	621.63	46.89	712.20	71.18	120.70	214.09
10335	15.20	2.50	-1.25	119.31	72.72	350.45	9.49	195.86	211.37	578.95	53.66	617.91	36.57	169.44	213.60
10336	15.13	3.10	-1.25	117.43	74.53	351.22	14.60	195.27	209.73	574.30	55.75	606.55	58.90	165.15	212.29
10337	13.98	2.50	-1.25	118.44	67.41	343.60	9.32	211.74	211.36	563.32	59.02	478.69	33.56	211.20	212.91
10338	13.92	3.10	-1.25	117.25	68.65	344.54	11.65	211.43	209.68	559.55	60.01	471.32	44.67	207.06	211.84
10339	12.76	2.50	-1.25	115.71	58.90	332.37	11.11	225.28	213.97	544.13	53.54	351.39	28.89	211.22	214.71
10340	12.71	3.10	-1.25	115.05	59.30	333.50	12.48	225.03	212.52	541.64	52.72	347.51	35.97	207.45	213.55
10341	11.55	2.50	-1.25	109.81	49.83	318.19	13.40	238.19	218.41	512.37	43.81	257.48	27.03	186.06	218.55
10342	11.50	3.10	-1.25	109.34	49.73	319.54	14.27	237.81	217.17	510.28	42.21	256.86	32.96	182.39	217.32
10343	10.33	2.50	-1.25	101.60	41.58	301.76	15.09	251.00	223.75	469.99	34.91	204.31	27.04	151.19	223.65
10344	10.29	3.10	-1.25	101.11	41.32	303.38	15.61	250.46	222.62	467.67	33.55	206.65	32.59	147.61	222.44
10345	9.12	2.50	-1.25	92.28	34.60	283.69	15.92	263.51	229.37	421.80	28.54	187.91	27.29	115.90	229.26
10346	9.08	3.10	-1.25	91.72	34.40	285.63	16.21	262.82	228.27	419.11	27.83	192.07	32.56	112.59	228.10
10347	7.90	2.50	-1.25	82.80	28.93	264.68	15.92	275.24	234.94	372.17	24.42	193.90	26.93	84.97	234.92
10348	7.87	3.10	-1.25	82.18	28.85	266.98	16.08	274.44	233.81	369.28	24.22	198.56	31.86	82.16	233.79
10349	6.69	2.50	-1.25	73.77	24.44	245.49	15.19	285.76	240.32	324.13	21.66	208.12	25.73	61.05	240.39
10350	6.66	3.10	-1.25	73.15	24.48	248.20	15.29	284.89	239.15	321.29	21.72	212.60	30.26	58.96	239.26
10351	5.47	2.50	-1.25	65.52	21.01	227.01	13.82	294.77	245.49	279.54	19.61	223.00	23.78	46.25	245.62
10352	5.45	3.10	-1.25	64.95	21.13	230.14	13.92	293.84	244.26	276.94	19.75	227.13	27.90	45.10	244.46
10353	4.25	2.50	-1.25	58.19	18.52	210.24	11.91	302.07	250.43	239.37	18.06	235.70	21.28	41.77	250.61
10354	4.24	3.10	-1.25	57.71	18.70	213.79	12.05	301.11	249.15	237.15	18.20	239.49	25.01	41.52	249.40
10355	3.04	2.50	-1.25	51.82	16.91	196.30	9.56	307.55	255.17	204.03	17.01	245.48	18.47	45.00	255.36
10356	3.03	3.10	-1.25	51.45	17.11	200.22	9.77	306.58	253.83	202.24	17.14	249.00	21.88	45.23	254.10
10357	1.82	2.50	-1.25	46.37	16.09	186.34	6.88	311.17	259.71	173.60	16.57	252.40	15.60	51.30	259.89
10358	1.82	3.10	-1.25	46.13	16.30	190.53	7.22	310.19	258.30	172.26	16.67	255.73	18.75	51.63	258.58
10359	0.61	2.50	-1.25	41.75	15.97	181.34	4.17	312.87	264.03	147.97	16.79	256.77	13.01	57.77	264.20
10360	0.61	3.10	-1.25	41.67	16.19	185.66	4.74	311.90	262.57	147.05	16.86	259.96	15.92	58.05	262.82
10361	-0.58	2.50	1.75	53.41	24.78	147.03	5.1								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
10389	-18.94	2.50	1.75	37.10	61.90	345.49	63.53	128.33	273.27	78.89	56.34	364.51	63.66	138.61	273.18
10390	-18.86	3.10	1.75	39.16	62.30	346.25	63.05	128.62	272.26	79.97	56.22	362.38	63.24	139.54	272.13
10391	-18.11	2.50	1.75	32.53	65.68	369.76	67.29	110.61	275.18	51.99	59.33	443.77	67.69	134.59	275.23
10392	-18.02	3.10	1.75	35.09	66.09	370.36	66.65	113.45	274.02	54.20	59.09	440.15	67.26	136.15	274.09
10393	-0.60	2.50	0.25	46.36	21.30	163.85	4.15	288.35	251.56	197.76	21.47	246.73	14.06	60.65	251.64
10394	-0.59	3.10	0.25	46.42	21.56	167.79	5.12	287.56	250.13	196.52	21.81	249.47	17.30	60.77	250.24
10395	-1.79	2.50	0.25	42.22	22.19	169.46	5.83	286.51	255.89	175.14	20.48	245.38	12.97	61.03	255.96
10396	-1.78	3.10	0.25	42.51	22.46	173.16	6.43	285.75	254.40	174.31	20.83	248.07	15.62	61.12	254.50
10397	-2.98	2.50	0.25	38.91	23.52	179.22	8.75	282.71	259.87	157.11	20.24	242.44	13.25	60.10	259.93
10398	-2.97	3.10	0.25	39.43	23.81	182.56	9.04	282.02	258.33	156.62	20.59	245.11	15.20	60.22	258.41
10399	-4.17	2.50	0.25	36.41	25.24	192.26	12.22	276.95	263.45	143.21	20.80	238.09	14.89	57.97	263.49
10400	-4.15	3.10	0.25	37.16	25.55	195.18	12.33	276.33	261.86	143.00	21.14	240.75	16.15	58.17	261.91
10401	-5.36	2.50	0.25	34.69	27.29	207.60	16.02	269.22	266.57	133.00	22.11	232.48	17.57	54.84	266.59
10402	-5.34	3.10	0.25	35.67	27.63	210.08	16.02	268.71	264.95	133.01	22.45	235.14	18.28	55.22	264.97
10403	-6.56	2.50	0.25	33.75	29.64	224.33	20.06	259.55	269.19	126.09	24.09	225.79	20.93	51.11	269.18
10404	-6.53	3.10	0.25	34.95	30.01	226.40	19.98	259.18	267.54	126.25	24.42	228.45	21.27	51.76	267.52
10405	-7.75	2.50	0.25	33.57	32.28	241.65	24.31	247.98	271.26	122.08	26.65	218.31	24.77	47.48	271.22
10406	-7.71	3.10	0.25	34.97	32.67	243.35	24.18	247.78	269.61	122.35	26.98	220.97	24.86	48.51	269.55
10407	-8.94	2.50	0.25	34.12	35.19	258.91	28.78	234.63	272.78	120.59	29.74	210.57	28.98	45.22	272.71
10408	-8.90	3.10	0.25	35.69	35.61	260.27	28.62	234.65	271.15	120.93	30.07	213.21	28.90	46.72	271.04
10409	-10.13	2.50	0.25	35.36	38.36	275.56	33.53	219.70	273.77	121.23	33.34	203.61	33.55	46.15	273.67
10410	-10.08	3.10	0.25	37.05	38.82	276.64	33.35	219.97	272.17	121.59	33.66	206.20	33.36	48.09	272.02
10411	-11.32	2.50	0.25	37.27	41.79	291.23	38.66	203.54	274.28	123.59	37.48	199.33	38.54	52.05	274.15
10412	-11.27	3.10	0.25	39.04	42.28	292.09	38.47	204.12	272.75	123.95	37.80	201.80	38.28	54.21	272.55
10413	-12.52	2.50	0.25	39.89	45.48	305.77	44.30	186.75	274.49	127.19	42.23	200.98	44.09	63.71	274.33
10414	-12.46	3.10	0.25	41.72	46.00	306.48	44.10	187.70	273.04	127.52	42.55	203.17	43.76	65.83	272.80
10415	-13.71	2.50	0.25	43.38	49.40	319.43	50.62	170.35	274.67	131.39	47.75	213.37	50.34	81.16	274.50
10416	-13.64	3.10	0.25	45.22	49.97	320.08	50.41	171.71	273.34	131.68	48.07	215.04	49.96	83.06	273.08
10417	-14.90	2.50	0.25	47.91	53.54	333.34	57.79	155.99	275.41	135.03	54.26	242.76	57.46	104.60	275.24
10418	-14.83	3.10	0.25	49.71	54.18	334.03	57.55	157.75	274.24	135.26	54.55	243.63	57.04	106.16	273.97
10419	-16.09	2.50	0.25	53.15	57.86	350.27	65.78	146.13	277.84	135.21	61.97	296.77	65.46	134.55	277.68
10420	-16.02	3.10	0.25	54.85	58.56	351.12	65.46	148.23	276.83	135.39	62.19	296.61	64.96	135.67	276.59
10421	-17.28	2.50	0.25	56.49	62.16	380.42	73.55	143.96	284.13	123.51	71.67	392.64	73.39	170.38	284.02
10422	-17.20	3.10	0.25	58.05	62.88	381.49	73.08	146.14	283.32	123.78	71.68	390.99	72.82	170.83	283.15
10423	-18.48	2.50	0.25	37.69	65.17	422.61	71.73	130.19	290.17	58.61	72.85	513.29	72.29	164.49	290.18
10424	-18.39	3.10	0.25	39.95	65.64	423.56	71.01	132.61	289.17	60.49	72.29	509.55	71.88	165.26	289.18
10425	-0.61	2.50	-1.25	37.88	16.46	181.89	2.94	312.63	268.12	126.94	17.61	258.93	11.22	63.22	268.27
10426	-0.61	3.10	-1.25	37.98	16.68	186.15	3.65	311.68	266.60	126.39	17.67	262.04	13.83	63.39	266.83
10427	-1.82	2.50	-1.25	34.68	17.44	187.94	5.24	310.43	271.94	110.25	18.92	259.20	10.86	67.18	272.06
10428	-1.82	3.10	-1.25	34.97	17.69	191.97	5.56	309.51	270.36	110.03	18.98	262.26	12.97	67.26	270.55
10429	-3.04	2.50	-1.25	32.08	18.84	198.85	8.87	306.23	275.42	97.63	20.62	257.82	12.22	69.50	275.52
10430	-3.03	3.10	-1.25	32.61	19.11	202.51	8.95	305.36	273.78	97.69	20.68	260.84	13.67	69.51	273.94
10431	-4.25	2.50	-1.25	30.07	20.61	213.60	12.89	299.99	278.50	88.78	22.61	254.94	14.89	70.10	278.58
10432	-4.24	3.10	-1.25	30.84	20.91	216.83	12.83	299.19	276.82	89.08	22.67	257.95	15.77	70.08	276.93
10433	-5.47	2.50	-1.25	28.64	22.69	231.08	17.11	291.67	281.12	83.43	24.84	250.70	18.35	68.98	281.17
10434	-5.45	3.10	-1.25	29.68	23.03	233.85	16.96	290.95	279.39	83.91	24.92	253.70	18.82	69.00	279.46
10435	-6.69	2.50	-1.25	27.85	25.10	250.20	21.45	281.20	283.19	81.29	27.31	245.21	22.25	66.20	283.21
10436	-6.66	3.10	-1.25	29.18	25.47	252.53	21.23	280.60	281.43	81.92	27.41	248.20	22.45	66.33	281.45
10437	-7.90	2.50	-1.25	27.79	27.81	270.04	25.90	268.58	284.64	82.10	30.03	238.64	26.43	61.96	284.63
10438	-7.87	3.10	-1.25	29.39	28.22	271.94	25.65	268.13	282.86	82.82	30.14	241.61	26.45	62.30	282.83
10439	-9.12	2.50	-1.25	28.53	30.85	289.74	30.50	253.81	285.40	85.61	33.05	231.33	30.85	56.69	285.35
10440	-9.08	3.10	-1.25	30.36	31.29	291.26	30.23	253.54	283.61	86.37	33.19	234.28	30.75	57.38	283.53
10441	-10.33	2.50	-1.25	30.14	34.21	308.57	35.34	236.96	285.42	91.62	36.45	224.01	35.55	51.38	285.33
10442	-10.29	3.10	-1.25	32.15	34.68	309.76	35.06	236.94	283.65	92.38	36.61	226.92	35.36	52.59	283.52
10443	-11.55	2.50	-1.25	32.67	37.92	325.89	40.57	218.27	284.67	100.00	40.34	218.14	40.67	48.08	284.55
10444	-11.50	3.10	-1.25	34.79	38.43	326.78	40.29	218.54	282.96	100.72	40.53	220.93	40.43	49.92	282.77
10445	-12.76	2.50	-1.25	36.23	41.99	341.15	46.45	198.17	283.23	110.73	44.91	216.37	46.45	50.07	283.07
10446	-12.71	3.10	-1.25	38.41	42.54	341.82	46.19	198.82	281.59	111.38	45.13	218.92	46.17	52.39	281.35
10447	-13.98	2.50	-1.25	41.17	46.45	354.11	53.38	177.57	281.28	124.09	50.47	223.07	53.29	60.38	281.09
10448	-13.92	3.10	-1.25	43.37	47.07	354.65	53.13	178.66	279.76	124.65	50.74	225.15	52.98	62.75	279.48
10449	-15.20	2.50	-1.25	48.37	51.34	365.04	62.01	158.14	279.33	140.88	57.57	244.46	61.80	80.25	279.13
10450	-15.13	3.10	-1.25	50.53	52.07	365.55	61.77	159.72	277.98	141.35	57.91	245.79	61.50	82.32	277.68
10451	-16.41	2.50	-1.25	59.69	56.80	376.12	73.50	143.32	278.72	163.13	67.44	289.46	73.26	111.70	278.54
10452	-16.34	3.10	-1.25	61.77	57.74	376.75	73.22	145.38	277.60	163.46	67.86	289.74	72.84	113.27	277.32
10453	-17.63	2.50	-1.25	78.50	63.29	391.74	90.20	140.62	283.52	194.91	82.24	369.85	89.90	162.94	283.40
10454	-17.55	3.10	-1.25	80.42	64.63	392.78	89.83	143.01	282.79	195.00	82.83	369.01	89.37	163.87	282.59
10455	-18.84	2.50	-1.25	107.23	74.31	490.33	122.36	185.10	322.93	235.20	121.30	626.43	122.17	283.11	322.91
10456	-18.76	3.10	-1.25	109.36	76.77	492.04	121.33	187.25	322.47	235.36	121.66	622.82	121.04	282.61	322.44
10457	0.58	3.95	1.75	58.52	25.12	156.04	8.33	261.67	226.13	277.31	35.50	240.35	28.56	65.92	226.16
10458	1.73	3.95	1.75	64.64	25.36	158.72	9.30	259.35	220.93	313.98	38.39	239.73	32.96	68.00	220.94
10459	2.88	3.95	1.75	71.98	26.25	164.62	10.54	255.22	215.58	357.55	41.18	237.01	37.76	6	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
10487	16.45	5.08	1.75	314.21	139.75	327.48	88.29	195.47	202.23	1344.36	325.10	1074.17	273.22	329.06	233.21
10488	17.59	5.08	1.75	269.49	129.96	391.03	82.16	208.75	323.24	969.97	223.90	1100.23	209.01	323.93	320.46
10489	0.56	6.15	1.75	57.75	26.97	177.78	13.54	257.61	217.99	261.78	37.07	256.10	41.96	65.83	218.04
10490	1.67	6.15	1.75	62.43	27.12	180.20	14.64	255.31	213.29	293.76	39.76	255.83	48.59	68.13	213.29
10491	2.78	6.16	1.75	68.27	27.87	185.19	16.01	251.35	208.46	331.74	42.54	253.64	56.04	69.86	208.40
10492	3.90	6.16	1.75	75.45	29.24	192.30	17.51	245.74	203.57	376.81	45.24	249.28	64.29	70.82	203.43
10493	5.01	6.16	1.75	84.21	31.22	200.99	19.10	238.54	198.63	430.34	47.70	242.44	73.26	70.76	198.42
10494	6.12	6.16	1.75	94.91	33.84	210.70	20.72	229.82	193.68	494.12	49.70	232.81	82.77	69.27	193.44
10495	7.23	6.17	1.75	108.03	37.15	220.90	22.34	219.74	188.73	570.46	51.00	220.09	92.41	65.80	188.56
10496	8.35	6.17	1.75	124.22	41.28	231.12	23.86	208.55	183.78	662.26	51.27	204.33	101.42	59.64	183.95
10497	9.46	6.17	1.75	144.34	46.55	241.04	25.09	196.69	178.84	772.95	50.22	186.85	108.40	50.45	179.86
10498	10.57	6.17	1.75	169.36	53.61	250.53	25.71	184.96	173.90	905.83	48.49	173.50	110.97	41.73	176.92
10499	11.69	6.18	1.75	200.04	63.85	259.82	25.15	174.74	168.92	1061.82	52.49	182.93	105.58	52.08	176.48
10500	12.80	6.18	1.75	235.80	79.99	269.77	22.86	168.44	163.91	1232.88	83.96	250.70	88.79	98.03	181.61
10501	13.91	6.18	1.75	272.22	106.19	282.48	19.71	169.35	159.63	1387.85	168.70	411.00	64.78	172.32	196.37
10502	15.03	6.18	1.75	298.04	142.04	301.82	26.67	179.65	160.86	1453.30	309.06	685.06	65.44	254.00	214.00
10503	16.14	6.18	1.75	295.49	157.39	327.89	59.19	196.44	186.79	1315.31	390.02	988.67	133.47	308.87	211.53
10504	17.25	6.19	1.75	257.50	122.09	381.77	78.31	212.85	293.26	942.84	203.86	993.69	185.91	344.25	294.35
10505	0.54	7.25	1.75	57.62	28.44	190.83	16.41	255.00	212.70	251.86	38.19	266.27	47.27	65.52	212.73
10506	1.63	7.25	1.75	61.35	28.55	193.09	17.58	252.73	208.31	280.76	40.63	266.22	54.78	67.95	208.29
10507	2.72	7.25	1.75	66.15	29.25	197.60	19.02	248.89	203.84	314.98	43.19	264.35	63.30	70.03	203.74
10508	3.81	7.25	1.75	72.19	30.54	203.98	20.67	243.51	199.32	355.46	45.74	260.44	72.93	71.60	199.13
10509	4.89	7.25	1.75	79.69	32.42	211.79	22.49	236.61	194.79	403.42	48.17	254.23	83.74	72.44	194.53
10510	5.98	7.26	1.75	88.97	34.88	220.58	24.48	228.29	190.29	460.47	50.37	245.45	95.76	72.21	190.00
10511	7.07	7.26	1.75	100.46	37.93	229.89	26.65	218.68	185.84	528.74	52.19	233.88	108.95	70.44	185.65
10512	8.15	7.26	1.75	114.83	41.62	239.34	29.01	208.01	181.49	611.09	53.49	219.52	123.08	66.39	181.64
10513	9.24	7.26	1.75	132.98	46.12	248.65	31.48	196.66	177.26	711.34	54.08	203.31	137.48	59.18	178.22
10514	10.33	7.26	1.75	156.20	51.80	257.73	33.86	185.33	173.19	834.29	53.76	189.26	150.59	48.82	175.82
10515	11.42	7.26	1.75	186.09	59.49	266.82	35.61	175.26	169.28	985.07	53.11	190.32	159.13	43.46	175.36
10516	12.50	7.26	1.75	224.19	71.17	276.74	35.53	168.78	165.39	1166.27	58.75	236.15	156.23	70.17	178.88
10517	13.59	7.26	1.75	270.01	92.00	289.42	31.45	169.70	161.17	1367.24	100.75	365.17	130.18	134.66	190.93
10518	14.68	7.26	1.75	316.05	132.21	308.03	22.74	181.29	157.35	1541.77	230.60	605.24	73.70	209.81	212.33
10519	15.77	7.27	1.75	346.00	182.59	330.73	27.47	199.58	163.24	1597.24	431.01	894.72	26.05	235.01	203.21
10520	16.85	7.27	1.75	331.20	146.34	355.40	52.96	199.32	242.73	1408.28	338.58	924.10	103.88	198.11	251.94
10521	0.59	3.95	0.25	51.02	21.63	173.93	7.09	285.93	243.12	220.59	24.02	254.03	25.02	59.37	243.31
10522	1.76	3.95	0.25	56.46	21.84	177.54	8.50	283.88	238.46	252.40	26.06	251.77	28.91	56.47	238.63
10523	2.94	3.95	0.25	62.99	22.71	185.01	10.19	279.97	233.60	290.33	28.33	247.21	33.19	52.25	233.74
10524	4.12	3.95	0.25	70.75	24.31	195.61	11.83	274.22	228.58	335.15	30.60	239.98	37.65	46.99	228.65
10525	5.29	3.95	0.25	79.91	26.69	208.46	13.26	266.72	223.40	387.65	32.59	229.71	42.01	41.72	223.39
10526	6.47	3.95	0.25	90.63	29.92	222.66	14.38	257.60	218.07	448.62	34.05	216.17	45.91	39.50	217.95
10527	7.64	3.96	0.25	103.07	34.13	237.43	15.10	247.09	212.60	518.63	34.85	199.78	48.83	45.79	212.37
10528	8.82	3.96	0.25	117.31	39.57	252.06	15.31	235.60	207.00	597.61	35.42	183.07	50.20	64.01	206.75
10529	10.00	3.96	0.25	133.21	46.60	266.03	14.92	223.80	201.35	684.03	37.97	174.64	49.61	93.44	201.40
10530	11.17	3.96	0.25	150.17	55.74	279.00	13.85	212.66	195.88	773.44	47.56	194.40	47.58	132.08	197.06
10531	12.35	3.96	0.25	166.79	67.37	291.01	12.40	203.39	191.21	856.65	68.87	266.29	47.25	175.63	195.12
10532	13.52	3.96	0.25	180.74	80.91	302.59	12.82	196.88	188.82	918.58	99.57	401.91	57.20	213.11	197.19
10533	14.70	3.96	0.25	189.63	92.85	314.97	21.55	192.26	191.88	942.03	124.48	599.90	93.09	220.82	203.21
10534	15.88	3.96	0.25	193.94	96.39	328.48	42.99	185.22	205.67	922.12	115.72	826.01	169.95	166.80	212.85
10535	17.05	3.96	0.25	201.01	90.00	341.43	82.39	170.16	236.30	885.17	79.10	982.84	299.66	144.12	236.02
10536	18.23	3.96	0.25	180.11	191.50	333.94	135.03	144.96	303.19	735.12	279.44	858.65	497.77	339.79	358.06
10537	0.58	5.05	0.25	50.82	22.46	184.79	9.19	283.56	239.13	215.54	25.07	262.01	31.30	59.80	239.39
10538	1.74	5.05	0.25	55.66	22.64	188.18	10.50	281.50	234.66	245.58	27.11	260.01	36.14	57.19	234.90
10539	2.90	5.06	0.25	61.60	23.47	195.08	12.07	277.63	230.00	281.48	29.46	255.83	41.56	53.30	230.20
10540	4.06	5.06	0.25	68.79	24.98	204.86	13.68	271.99	225.20	324.01	31.93	249.13	47.38	48.25	225.30
10541	5.22	5.06	0.25	77.39	27.20	216.75	15.18	264.64	220.26	374.04	34.29	239.60	53.42	42.69	220.23
10542	6.37	5.06	0.25	87.59	30.18	229.96	16.48	255.71	215.20	432.53	36.32	227.03	59.32	38.81	215.00
10543	7.53	5.06	0.25	99.63	34.01	243.77	17.52	245.46	210.01	500.35	37.77	211.70	64.57	41.68	209.64
10544	8.69	5.07	0.25	113.65	38.92	257.55	18.19	234.27	204.71	577.93	38.55	195.60	68.42	56.31	204.25
10545	9.85	5.07	0.25	129.65	45.32	270.80	18.37	222.84	199.32	664.37	39.33	185.51	69.94	83.14	199.11
10546	11.01	5.07	0.25	147.08	53.94	283.27	17.94	212.16	193.94	755.79	43.52	198.38	68.54	120.35	194.97
10547	12.17	5.07	0.25	164.27	65.90	295.01	16.89	203.50	188.93	842.23	59.42	258.81	65.32	163.97	193.45
10548	13.33	5.07	0.25	177.40	82.41	306.57	15.89	197.65	185.44	903.57	94.83	382.48	66.70	202.64	196.89
10549	14.49	5.08	0.25	179.55	103.06	319.04	19.69	192.92	186.66	906.98	146.79	569.02	90.48	209.67	205.31
10550	15.65	5.08	0.25	160.80	121.35	332.58	39.59	182.23	200.12	813.09	186.32	782.78	164.15	148.35	214.32
10551	16.81	5.08	0.25	106.80	133.49	346.90	72.97	151.94	236.37	581.76	183.88	930.36	274.22	156.31	239.32
10552	17.96	5.08	0.25	26.06	117.34	315.50	38.20	95.78	245.76	69.29	97.64	676.38	147.44	331.54	289.29
10553	0.57	6.15	0.25	50.76	23.63	197.43	11.49	280.63	234.19	209.36	26.44	271.70	36.98	60.21	234.52
10554	1.71	6.15	0.25	54.85	23.79	200.58	12.76	278.57	229.96	237.19	28.42	269.99	42.72	57.97	230.26
10555	2.84	6.16	0.25	60.02	24.58	206.86	14.29	274.77	225.56	270.45	30.76	266.24	49.23	54.57	225.79
10556	3.98	6.16	0.25	66.41	26.02	215.74	15.93	269.25	221.04	309.91	33.31	260.15	56.44	49.98	221.14
10557	5.12</														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
10585	0.60	3.95	-1.25	41.56	16.60	193.15	5.68	310.11	259.95	145.35	17.06	265.63	19.98	58.52	260.34
10586	1.80	3.95	-1.25	45.72	16.70	197.81	7.86	308.38	255.78	169.75	16.92	261.63	23.23	52.25	256.20
10587	3.00	3.95	-1.25	50.77	17.51	207.04	10.21	304.79	251.41	198.87	17.45	255.24	26.85	45.73	251.84
10588	4.20	3.95	-1.25	56.79	19.06	219.97	12.36	295.35	246.84	232.87	18.58	246.20	30.59	41.24	247.24
10589	5.40	3.95	-1.25	63.82	21.41	235.61	14.17	292.14	242.07	271.83	20.19	234.43	34.20	43.15	242.38
10590	6.60	3.95	-1.25	71.89	24.61	252.93	15.55	283.27	237.07	315.52	22.13	220.52	37.39	55.12	237.25
10591	7.80	3.96	-1.25	80.87	28.77	271.01	16.43	272.94	231.84	363.21	24.40	206.79	39.85	76.78	231.81
10592	9.00	3.96	-1.25	90.47	34.08	289.01	16.76	261.50	226.37	413.26	27.33	199.44	41.32	106.05	226.12
10593	10.20	3.96	-1.25	100.05	40.81	306.19	16.49	249.38	220.74	462.58	31.88	210.79	41.87	140.36	220.40
10594	11.40	3.96	-1.25	108.46	49.30	321.91	15.66	237.06	215.16	506.09	39.59	255.57	42.40	174.94	215.22
10595	12.60	3.96	-1.25	113.95	59.69	335.53	14.50	224.62	210.16	537.12	51.16	340.18	45.57	200.09	211.55
10596	13.80	3.96	-1.25	114.55	71.30	346.32	14.32	210.96	206.86	550.59	63.64	457.85	56.54	198.93	210.20
10597	15.00	3.96	-1.25	109.71	81.49	352.68	19.46	193.29	207.00	552.31	68.34	585.40	81.22	153.52	210.85
10598	16.20	3.96	-1.25	103.67	86.15	351.55	35.20	169.18	212.08	572.26	60.76	681.00	118.63	115.58	213.72
10599	17.40	3.96	-1.25	107.31	87.97	336.87	64.04	144.72	221.57	656.24	59.36	705.11	158.63	262.06	222.30
10600	18.60	3.96	-1.25	118.63	139.18	337.15	100.69	140.45	268.40	806.09	149.33	857.19	241.33	535.07	357.81
10601	0.59	5.05	-1.25	41.53	17.34	204.84	7.12	307.25	255.67	142.66	17.55	274.72	25.02	59.23	256.26
10602	1.77	5.05	-1.25	45.19	17.44	209.21	8.97	305.50	251.68	165.74	17.51	271.09	28.90	53.24	252.30
10603	2.96	5.06	-1.25	49.77	18.24	217.76	11.06	301.92	247.48	193.37	18.16	265.22	33.28	46.69	248.11
10604	4.14	5.06	-1.25	55.33	19.76	229.75	13.06	296.53	243.09	225.79	19.44	256.88	37.97	41.27	243.67
10605	5.32	5.06	-1.25	61.97	22.01	244.31	14.82	289.41	238.50	263.16	21.21	245.98	42.76	40.71	238.98
10606	6.51	5.06	-1.25	69.69	25.02	260.51	16.24	280.67	233.72	305.44	23.33	232.99	47.37	49.40	233.99
10607	7.69	5.06	-1.25	78.47	28.88	277.49	17.27	270.53	228.71	352.18	25.65	219.75	51.46	68.14	228.69
10608	8.87	5.07	-1.25	88.06	33.77	294.48	17.88	259.34	223.47	402.11	28.21	211.25	54.57	95.06	223.09
10609	10.06	5.07	-1.25	97.91	40.03	310.79	18.04	247.58	218.00	452.54	31.45	217.90	56.36	127.74	217.37
10610	11.24	5.07	-1.25	106.89	48.23	325.81	17.79	235.79	212.40	498.41	36.91	254.10	57.00	161.81	212.12
10611	12.42	5.07	-1.25	112.92	59.15	338.97	17.23	224.09	207.02	531.83	47.48	328.80	58.09	187.90	208.54
10612	13.61	5.07	-1.25	112.73	73.58	349.54	16.84	211.14	202.83	543.42	65.44	437.17	64.23	188.22	208.14
10613	14.79	5.08	-1.25	102.35	91.21	355.75	18.84	192.62	201.98	529.36	87.28	554.94	83.73	141.18	210.73
10614	15.97	5.08	-1.25	79.34	108.91	353.72	29.81	161.52	208.11	506.90	99.26	635.15	121.15	117.64	214.91
10615	17.16	5.08	-1.25	46.45	121.99	333.35	49.50	117.38	222.03	520.33	96.80	624.34	148.10	314.36	229.10
10616	18.34	5.08	-1.25	26.24	118.46	325.72	53.85	97.07	243.57	589.48	93.11	867.30	105.64	589.42	318.19
10617	0.58	6.15	-1.25	41.75	18.39	218.50	8.80	303.68	250.37	139.41	18.40	285.71	29.67	60.00	251.15
10618	1.74	6.15	-1.25	44.76	18.49	222.53	10.41	301.92	246.59	160.80	18.50	282.49	34.18	54.44	247.41
10619	2.91	6.16	-1.25	48.68	19.30	230.32	12.30	298.36	242.61	186.49	19.29	277.20	39.33	48.07	243.42
10620	4.07	6.16	-1.25	53.60	20.80	241.26	14.18	293.05	238.45	216.74	20.72	269.61	45.02	42.01	239.20
10621	5.23	6.16	-1.25	59.61	22.99	254.58	15.91	286.04	234.12	251.79	22.70	259.66	51.13	38.99	234.73
10622	6.39	6.16	-1.25	66.74	25.85	269.49	17.44	277.46	229.63	291.75	25.09	247.67	57.44	43.44	229.98
10623	7.56	6.16	-1.25	75.02	29.44	285.20	18.72	267.51	224.97	336.49	27.77	235.00	63.63	57.82	224.94
10624	8.72	6.17	-1.25	84.32	33.89	300.99	19.72	256.55	220.12	385.26	30.63	225.41	69.22	80.94	219.62
10625	9.88	6.17	-1.25	94.29	39.49	316.25	20.39	245.11	215.07	436.17	33.67	227.10	73.52	110.52	214.12
10626	11.05	6.17	-1.25	104.07	46.81	330.43	20.69	233.83	209.84	485.31	37.39	253.14	75.74	142.97	208.93
10627	12.21	6.17	-1.25	111.90	56.88	343.09	20.59	223.14	204.52	525.66	43.93	314.91	75.43	170.50	205.30
10628	13.37	6.18	-1.25	114.48	71.42	353.61	20.22	212.15	199.52	546.98	58.69	411.73	73.24	177.12	205.78
10629	14.53	6.18	-1.25	106.50	92.80	360.41	20.05	196.65	196.15	539.47	88.00	522.18	72.24	139.99	212.99
10630	15.70	6.18	-1.25	81.93	121.18	359.25	21.25	167.39	197.29	507.53	125.43	596.68	78.00	114.82	224.52
10631	16.86	6.18	-1.25	42.98	142.89	337.27	29.05	118.75	206.56	492.77	123.77	568.26	83.77	310.76	234.48
10632	18.02	6.18	-1.25	29.21	118.06	332.54	49.87	101.22	233.60	558.62	125.86	784.09	93.38	565.46	294.67
10633	0.57	7.25	-1.25	42.38	19.81	233.77	10.76	299.44	244.04	135.77	19.70	298.44	33.75	60.72	244.47
10634	1.71	7.25	-1.25	44.60	19.93	237.43	12.22	297.66	240.50	155.12	19.94	295.66	38.80	55.73	241.47
10635	2.84	7.25	-1.25	47.71	20.76	244.41	13.95	294.14	236.79	178.43	20.86	290.96	44.64	49.85	237.74
10636	3.98	7.25	-1.25	51.78	22.28	254.22	15.75	288.93	232.92	205.93	22.41	284.15	51.24	43.67	233.77
10637	5.12	7.25	-1.25	56.89	24.45	266.21	17.53	282.06	228.92	237.90	24.52	275.16	58.58	38.85	229.58
10638	6.26	7.26	-1.25	63.12	27.25	279.69	19.23	273.66	224.81	274.53	27.10	264.19	66.56	38.83	225.15
10639	7.40	7.26	-1.25	70.50	30.68	293.96	20.85	263.92	220.59	315.90	30.10	252.18	75.01	47.32	220.50
10640	8.53	7.26	-1.25	79.01	34.82	308.40	22.38	253.17	216.30	361.74	33.45	241.75	83.57	64.72	215.65
10641	9.67	7.26	-1.25	88.52	39.85	322.44	23.80	241.93	211.95	411.13	37.12	238.84	91.60	89.08	210.69
10642	10.81	7.26	-1.25	98.59	46.15	335.63	24.99	230.91	207.56	461.87	41.12	254.03	97.99	117.49	205.94
10643	11.95	7.26	-1.25	108.29	54.46	347.63	25.75	220.88	203.11	509.82	45.82	299.66	101.04	144.43	202.40
10644	13.09	7.26	-1.25	115.82	66.14	358.12	25.78	212.00	198.58	548.88	53.19	380.51	98.15	158.53	202.72
10645	14.22	7.26	-1.25	118.21	83.86	366.23	25.75	202.33	193.88	573.54	69.69	483.51	85.72	142.14	212.95
10646	15.36	7.26	-1.25	111.96	111.59	369.53	31.25	185.91	188.98	587.88	105.52	569.51	63.55	111.18	241.16
10647	16.50	7.26	-1.25	98.84	144.82	357.56	50.64	154.86	184.15	624.60	141.71	566.18	56.43	237.07	272.99
10648	17.64	7.27	-1.25	92.04	158.31	340.23	83.79	124.76	218.91	694.08	157.89	636.60	84.33	445.88	262.52
10649	-17.86	3.96	1.75	39.01	66.64	371.49	65.83	118.17	272.96	57.71	58.84	433.46	66.78	138.57	273.07
10650	-16.70	3.96	1.75	42.56	63.05	347.63	62.10	132.66	270.29	81.86	55.93	358.38	62.37	141.12	270.08
10651	-15.55	3.96	1.75	46.28	59.54	324.95	57.75	143.90	267.50	106.44	52.61	290.38	57.28	131.85	267.15
10652	-14.40	3.96	1.75	46.60	55.90	306.04	52.37	154.23	264.94	120.19	47.93	239.81	51.54	114.66	264.54
10653	-13.25	3.96	1.75	45.67	52.27	290.50	46.83	165.99	262.98	127.89	43.29	208.74	45.87	96.93	262.58
10654	-12.10	3.96	1.75	44.42	48.73	276.33	41.50	178.86	261.36	132.63	38.99	193.21	40.55	80.80	260.99
10655	-10.94	3.96	1.75	43.24	45.33	262.46</									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
10683	-15.03	6.18	1.75	55.58	62.30	330.60	55.11	156.27	260.26	109.32	53.11	286.70	53.85	137.52	259.46
10684	-13.91	6.18	1.75	55.70	58.81	311.53	50.42	165.21	257.34	121.74	49.45	243.47	48.22	121.88	256.42
10685	-12.80	6.18	1.75	54.65	55.20	295.84	45.39	175.16	254.87	128.96	45.49	217.72	42.78	105.55	253.95
10686	-11.69	6.18	1.75	53.23	51.62	281.84	40.43	186.04	252.74	133.53	41.66	205.69	37.76	90.51	251.87
10687	-10.57	6.17	1.75	51.78	48.15	268.56	35.72	197.32	250.73	137.07	38.17	203.17	33.28	77.55	249.96
10688	-9.46	6.17	1.75	50.44	44.84	255.50	31.32	208.49	248.69	140.59	35.16	206.43	29.42	67.10	248.03
10689	-8.35	6.17	1.75	49.30	41.72	242.53	27.25	219.08	246.47	144.83	32.71	212.74	26.28	59.42	246.95
10690	-7.23	6.17	1.75	48.43	38.81	229.75	23.54	228.78	244.00	150.35	30.90	220.31	24.02	54.65	243.62
10691	-6.12	6.16	1.75	47.93	36.12	217.45	20.22	237.32	241.23	157.61	29.80	228.08	22.88	52.61	240.97
10692	-5.01	6.16	1.75	47.87	33.69	206.00	17.37	244.54	238.13	167.06	29.42	235.41	23.03	52.80	237.98
10693	-3.90	6.16	1.75	48.37	31.54	195.87	15.11	250.32	234.68	179.09	29.78	241.95	24.56	54.54	234.62
10694	-2.78	6.16	1.75	49.51	29.74	187.57	13.57	254.56	230.91	194.11	30.83	247.45	27.37	57.16	230.92
10695	-1.67	6.15	1.75	51.39	28.33	181.56	12.82	257.21	226.85	212.57	32.47	251.75	31.29	60.13	226.90
10696	-0.56	6.15	1.75	54.11	27.39	178.22	12.86	258.24	222.53	234.95	34.59	254.67	36.18	63.10	222.59
10697	-16.85	7.27	1.75	56.05	69.70	378.22	59.81	142.48	260.63	74.60	56.65	397.33	62.16	150.77	260.86
10698	-15.77	7.27	1.75	58.16	66.72	356.31	56.60	154.01	258.25	91.95	54.74	338.05	57.08	149.36	257.61
10699	-14.68	7.26	1.75	60.51	63.86	334.52	53.47	163.48	255.54	111.04	53.49	285.32	51.62	140.58	254.49
10700	-13.59	7.26	1.75	60.53	60.53	315.44	49.26	171.68	252.50	122.67	50.49	246.68	46.04	125.77	251.30
10701	-12.50	7.26	1.75	59.47	57.00	299.68	44.59	180.63	249.77	129.62	46.99	224.12	40.72	110.19	248.54
10702	-11.42	7.26	1.75	58.01	53.46	285.79	39.93	190.37	247.33	134.10	43.48	214.09	35.89	95.71	246.16
10703	-10.33	7.26	1.75	56.46	49.99	272.86	35.48	200.51	245.03	137.57	40.22	212.63	31.68	83.08	243.98
10704	-9.24	7.26	1.75	54.98	46.66	260.38	31.33	210.58	242.74	140.98	37.36	216.35	28.18	72.66	241.85
10705	-8.15	7.26	1.75	53.63	43.51	248.21	27.53	220.18	240.34	145.01	35.01	222.78	25.52	64.67	239.63
10706	-7.07	7.26	1.75	52.49	40.55	236.42	24.12	228.99	237.76	150.17	33.25	230.34	23.91	59.21	237.22
10707	-5.98	7.26	1.75	51.65	37.82	225.24	21.15	236.79	234.95	156.90	32.13	238.05	23.55	56.19	234.57
10708	-4.89	7.25	1.75	51.18	35.34	214.99	18.70	243.38	231.87	165.61	31.67	245.34	24.57	55.29	231.64
10709	-3.81	7.25	1.75	51.16	33.16	206.06	16.88	248.64	228.51	176.64	31.88	251.84	26.92	56.03	228.40
10710	-2.72	7.25	1.75	51.71	31.31	198.86	15.75	252.49	224.89	190.38	32.72	257.35	30.49	57.83	224.87
10711	-1.63	7.25	1.75	52.90	29.87	193.76	15.35	254.86	221.03	207.21	34.12	261.69	35.12	60.24	221.06
10712	-0.54	7.25	1.75	54.84	28.89	191.03	15.61	255.71	216.95	227.54	35.98	264.71	40.73	62.89	217.00
10713	-18.23	3.96	0.25	43.43	66.38	425.35	70.10	136.66	288.43	63.44	71.59	502.61	71.48	166.33	288.44
10714	-17.05	3.96	0.25	60.72	64.17	383.43	72.14	150.00	281.69	124.27	71.53	387.86	71.68	171.56	281.41
10715	-15.88	3.96	0.25	57.73	59.80	352.69	64.82	151.97	275.01	135.69	62.53	296.28	63.99	137.55	274.63
10716	-14.70	3.96	0.25	52.74	55.31	335.30	57.07	160.91	272.11	135.62	55.03	245.22	56.21	108.83	271.68
10717	-13.52	3.96	0.25	48.31	51.00	321.26	50.01	174.14	270.95	132.15	48.61	218.06	49.24	86.30	270.53
10718	-12.35	3.96	0.25	44.79	46.94	307.75	43.73	189.42	270.43	128.09	43.12	207.11	43.14	69.42	270.05
10719	-11.17	3.96	0.25	42.03	43.16	293.61	38.12	205.19	269.98	124.57	38.38	206.24	37.76	57.83	269.66
10720	-10.00	3.96	0.25	39.89	39.63	278.55	33.02	220.47	269.29	122.24	34.25	210.86	32.98	51.34	269.04
10721	-8.82	3.96	0.25	38.33	36.38	262.67	28.33	234.67	268.20	121.53	30.66	217.95	28.72	49.27	268.03
10722	-7.64	3.96	0.25	37.37	33.39	246.34	23.96	247.41	266.64	122.84	27.59	225.72	24.97	50.27	266.54
10723	-6.47	3.95	0.25	37.03	30.68	230.06	19.86	258.49	264.58	126.55	25.05	233.20	21.81	52.86	264.55
10724	-5.29	3.95	0.25	37.39	28.25	214.46	16.04	267.77	262.02	133.01	23.09	239.89	19.43	55.85	262.05
10725	-4.12	3.95	0.25	38.49	26.13	200.30	12.57	275.19	259.00	142.62	21.79	245.50	18.09	58.51	259.08
10726	-2.94	3.95	0.25	40.36	24.35	188.40	9.60	280.73	255.55	155.74	21.23	249.87	18.04	60.39	255.67
10727	-1.76	3.95	0.25	43.05	22.96	179.60	7.43	284.36	251.72	172.80	21.46	252.86	19.32	61.26	251.87
10728	-0.59	3.95	0.25	46.58	22.03	174.62	6.55	286.09	247.56	194.25	22.43	254.31	21.74	60.95	247.74
10729	-17.96	5.08	0.25	48.35	67.61	428.24	68.10	142.91	285.50	67.76	70.10	491.82	70.25	167.97	285.53
10730	-16.81	5.08	0.25	64.77	66.26	386.71	70.63	156.06	279.23	125.09	71.61	383.21	69.84	172.74	278.78
10731	-15.65	5.08	0.25	62.10	61.87	355.40	63.85	157.82	272.11	136.21	63.28	296.11	62.41	140.49	271.49
10732	-14.49	5.08	0.25	57.32	57.22	337.52	56.37	165.89	268.70	136.25	56.01	248.06	54.87	112.94	268.02
10733	-13.33	5.07	0.25	52.96	52.75	323.35	49.44	178.02	267.11	132.94	49.68	223.12	48.08	91.22	266.43
10734	-12.17	5.07	0.25	49.38	48.56	309.98	43.22	192.18	266.25	129.02	44.22	213.58	42.13	74.79	265.63
10735	-11.01	5.07	0.25	46.50	44.66	296.23	37.65	206.93	265.53	125.61	39.48	213.45	36.93	63.22	265.01
10736	-9.85	5.07	0.25	44.17	41.04	281.77	32.61	221.32	264.66	123.30	35.35	218.39	32.38	56.19	264.24
10737	-8.69	5.07	0.25	42.34	37.70	266.67	27.99	234.76	263.45	122.53	31.77	225.58	28.44	53.14	263.16
10738	-7.53	5.06	0.25	41.02	34.63	251.25	23.73	246.87	261.84	123.66	28.70	233.37	25.14	53.03	261.66
10739	-6.37	5.06	0.25	40.27	31.84	236.00	19.81	257.43	259.79	127.06	26.17	240.85	22.62	54.62	259.72
10740	-5.22	5.06	0.25	40.13	29.33	221.52	16.24	266.30	257.28	133.07	24.23	247.53	21.07	56.87	257.31
10741	-4.06	5.06	0.25	40.68	27.14	208.48	13.11	273.40	254.36	142.06	22.94	253.14	20.71	59.04	254.47
10742	-2.90	5.06	0.25	41.96	25.30	197.63	10.61	278.69	251.04	154.39	22.38	257.54	21.68	60.65	251.21
10743	-1.74	5.05	0.25	44.04	23.86	189.70	9.01	282.15	247.36	170.45	22.58	260.58	23.89	61.43	247.59
10744	-0.58	5.05	0.25	46.97	22.89	185.29	8.56	283.78	243.38	190.68	23.51	262.13	27.16	61.19	243.64
10745	-17.64	6.19	0.25	53.66	68.95	431.87	65.79	150.26	282.04	72.71	68.42	479.21	68.76	169.93	282.08
10746	-16.50	6.18	0.25	69.13	68.66	390.89	68.82	163.01	276.16	125.95	71.75	378.03	67.56	173.95	275.51
10747	-15.36	6.18	0.25	66.85	64.36	358.93	62.66	164.59	268.60	136.78	64.30	296.37	60.43	143.74	267.72
10748	-14.22	6.18	0.25	62.30	59.58	340.46	55.56	171.69	264.62	136.96	57.36	251.89	53.19	117.49	263.64
10749	-13.09	6.18	0.25	58.01	54.94	326.08	48.82	182.58	262.51	133.87	51.15	229.50	46.62	96.61	261.54
10750	-11.95	6.17	0.25	54.39	50.60	312.86	42.71	195.47	261.23	130.14	45.72	221.51	40.87	80.62	260.33
10751	-10.81	6.17	0.25	51.58	46.57	299.56	37.22	209.02	260.18	126.86	40.99	222.18	35.88	69.02	259.41
10752	-9.67	6.17	0.25	48.86	42.84	285.80	32.26	222.36	259.06	124.59	36.85	227.47	31.62	61.45	258.45
10753	-8.53	6.17	0.25	46.78	39.39	271.60	27.77	234.88	257.71	123.75	33.27	234.78			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
10781	-13.80	3.96	-1.25	47.03	48.19	355.59	52.65	180.60	277.04	125.63	51.20	228.90	52.38	66.74	276.58
10782	-12.60	3.96	-1.25	42.02	43.54	342.99	45.69	199.98	278.65	112.52	45.52	223.48	45.63	56.25	278.26
10783	-11.40	3.96	-1.25	38.29	39.34	328.33	39.78	219.03	279.87	101.99	40.86	225.91	39.97	52.99	279.56
10784	-10.20	3.96	-1.25	35.46	35.53	311.82	34.54	236.88	280.48	93.73	36.89	232.09	35.00	54.64	280.26
10785	-9.00	3.96	-1.25	33.40	32.08	293.93	29.73	253.05	280.40	87.73	33.44	239.53	30.53	58.56	280.27
10786	-7.80	3.96	-1.25	32.08	28.96	275.29	25.20	267.29	279.65	84.11	30.36	246.90	26.45	62.88	279.60
10787	-6.60	3.95	-1.25	31.46	26.15	256.61	20.87	279.49	278.25	83.05	27.59	253.49	22.76	66.53	278.29
10788	-5.40	3.95	-1.25	31.52	23.65	238.71	16.70	289.62	276.28	84.80	25.08	259.00	19.58	69.00	276.39
10789	-4.20	3.95	-1.25	32.23	21.46	222.48	12.75	297.70	273.79	89.62	22.82	263.27	17.16	70.02	273.96
10790	-3.00	3.95	-1.25	33.57	19.61	208.90	9.11	303.75	270.85	97.81	20.81	266.20	15.85	69.48	271.09
10791	-1.80	3.95	-1.25	35.55	18.14	198.97	6.13	307.82	267.52	109.64	19.12	267.68	15.95	67.36	267.82
10792	-0.60	3.95	-1.25	38.19	17.11	193.54	4.72	309.93	263.87	125.39	17.83	267.55	17.43	63.66	264.22
10793	-18.34	5.08	-1.25	118.44	87.76	500.13	116.63	196.93	321.19	235.64	123.77	605.28	115.74	279.72	321.10
10794	-17.16	5.08	-1.25	88.91	71.11	398.03	87.81	153.92	279.26	195.40	85.67	365.28	86.46	167.93	278.76
10795	-15.97	5.08	-1.25	70.74	62.37	380.00	71.85	154.76	272.39	164.94	70.09	291.40	70.71	120.13	271.68
10796	-14.79	5.08	-1.25	59.69	55.71	368.16	60.59	166.96	271.66	143.47	59.69	252.31	59.73	91.15	270.88
10797	-13.61	5.07	-1.25	52.48	50.13	357.29	51.96	183.70	272.65	127.25	52.19	235.07	51.43	72.66	271.91
10798	-12.42	5.07	-1.25	47.35	45.26	345.05	44.97	201.87	273.92	114.39	46.35	230.86	44.78	61.95	273.28
10799	-11.24	5.07	-1.25	43.42	40.91	330.99	39.03	219.88	274.89	104.05	41.56	233.92	39.23	57.64	274.38
10800	-10.06	5.07	-1.25	40.33	36.99	315.27	33.80	236.86	275.35	95.91	37.50	240.38	34.44	57.87	274.99
10801	-8.87	5.07	-1.25	37.91	33.43	298.32	29.02	252.32	275.21	89.93	33.96	247.94	30.21	60.51	274.98
10802	-7.69	5.06	-1.25	36.13	30.21	280.74	24.57	266.00	274.45	86.20	30.82	255.35	26.47	63.87	274.37
10803	-6.51	5.06	-1.25	34.97	27.31	263.21	20.37	277.75	273.11	84.90	27.99	261.98	23.25	66.91	273.15
10804	-5.32	5.06	-1.25	34.43	24.71	246.51	16.41	287.54	271.23	86.26	25.44	267.52	20.72	69.03	271.39
10805	-4.14	5.06	-1.25	34.53	22.43	231.48	12.73	295.35	268.86	90.56	23.15	271.82	19.13	69.92	269.13
10806	-2.96	5.06	-1.25	35.25	20.49	219.00	9.50	301.19	266.07	98.08	21.14	274.81	18.74	69.41	266.43
10807	-1.77	5.05	-1.25	36.63	18.95	209.97	7.11	305.11	262.91	109.09	19.47	276.38	19.69	67.46	263.36
10808	-0.59	5.05	-1.25	38.70	17.87	205.10	6.24	307.12	259.43	123.86	18.24	276.41	21.87	64.04	259.96
10809	-18.02	6.18	-1.25	124.60	95.62	506.54	113.02	203.93	319.90	235.75	125.91	592.88	111.57	277.52	319.76
10810	-16.86	6.18	-1.25	94.65	76.11	402.33	86.40	161.62	276.78	195.66	88.35	363.13	84.27	170.72	276.06
10811	-15.70	6.18	-1.25	76.72	66.06	382.74	70.92	161.39	268.59	166.04	72.21	293.20	69.08	124.79	267.56
10812	-14.53	6.18	-1.25	65.68	58.65	370.38	59.82	172.14	267.02	145.05	61.42	257.54	58.38	96.99	265.89
10813	-13.37	6.18	-1.25	58.38	52.62	359.50	51.21	187.37	267.40	129.20	53.62	242.61	50.23	79.02	266.32
10814	-12.21	6.17	-1.25	53.08	47.47	347.65	44.19	204.13	268.23	116.64	47.55	239.76	43.72	68.07	267.28
10815	-11.05	6.17	-1.25	48.95	42.92	334.28	38.24	220.91	268.90	106.53	42.59	243.49	38.33	62.73	268.14
10816	-9.88	6.17	-1.25	45.59	38.84	319.49	33.02	236.85	269.16	98.54	38.39	250.26	33.75	61.53	268.61
10817	-8.72	6.17	-1.25	42.84	35.15	303.66	28.31	251.45	268.92	92.59	34.75	257.97	29.81	62.79	268.57
10818	-7.56	6.16	-1.25	40.64	31.81	287.32	23.97	264.43	268.14	88.75	31.52	265.45	26.46	65.07	267.99
10819	-6.39	6.16	-1.25	38.98	28.79	271.14	19.94	275.63	266.84	87.19	28.63	272.13	23.77	67.36	266.87
10820	-5.23	6.16	-1.25	37.89	26.08	255.83	16.23	284.97	265.05	88.12	26.03	277.72	21.92	69.03	265.25
10821	-4.07	6.16	-1.25	37.37	23.70	242.16	12.91	292.43	262.82	91.80	23.72	282.10	21.11	69.73	263.17
10822	-2.91	6.16	-1.25	37.45	21.67	230.93	10.17	298.02	260.19	98.51	21.73	285.18	21.52	69.24	260.68
10823	-1.74	6.15	-1.25	38.17	20.06	222.88	8.39	301.75	257.21	108.51	20.11	286.89	23.18	67.47	257.82
10824	-0.58	6.15	-1.25	39.58	18.93	218.61	7.94	303.63	253.93	122.07	18.97	287.11	25.95	64.39	254.63
10825	-17.64	7.27	-1.25	130.93	104.33	514.25	108.95	211.63	318.73	235.53	128.84	579.22	106.71	274.79	318.54
10826	-16.50	7.26	-1.25	100.75	81.96	407.78	84.78	170.14	273.93	195.90	91.73	361.44	81.61	173.70	272.99
10827	-15.36	7.26	-1.25	82.99	70.48	386.27	69.98	168.71	264.31	167.26	75.02	295.92	67.17	129.71	262.95
10828	-14.22	7.26	-1.25	71.92	62.22	373.24	59.05	177.90	261.76	146.85	63.74	263.99	56.77	103.02	260.25
10829	-13.09	7.26	-1.25	64.49	55.69	362.30	50.46	191.49	261.43	131.43	55.56	251.50	48.79	85.51	259.97
10830	-11.95	7.26	-1.25	59.03	50.20	350.84	43.45	206.71	261.72	119.23	49.21	250.03	42.45	74.30	260.43
10831	-10.81	7.26	-1.25	54.70	45.39	338.23	37.52	222.11	262.01	109.40	44.03	254.45	37.26	68.02	260.96
10832	-9.67	7.26	-1.25	51.10	41.10	324.47	32.34	236.86	262.02	101.59	39.65	261.54	32.93	65.46	261.23
10833	-8.53	7.26	-1.25	48.05	37.25	309.88	27.72	250.46	261.62	95.69	35.87	269.40	29.32	65.33	261.11
10834	-7.40	7.26	-1.25	45.49	33.77	294.95	23.53	262.61	260.79	91.76	32.53	276.98	26.40	66.44	260.54
10835	-6.26	7.26	-1.25	43.41	30.62	280.27	19.73	273.14	259.50	89.92	29.57	283.74	24.27	67.87	259.50
10836	-5.12	7.25	-1.25	41.82	27.79	266.49	16.33	281.95	257.79	90.38	26.94	289.43	23.07	69.00	258.01
10837	-3.98	7.25	-1.25	40.75	25.31	254.30	13.44	288.99	255.68	93.39	24.63	293.92	22.97	69.42	256.10
10838	-2.84	7.25	-1.25	40.21	23.19	244.39	11.25	294.26	253.21	99.19	22.68	297.15	24.04	68.91	253.81
10839	-1.71	7.25	-1.25	40.26	21.52	237.38	10.02	297.75	250.42	108.03	21.15	299.04	26.27	67.32	251.17
10840	-0.57	7.25	-1.25	40.96	20.36	233.75	9.90	299.47	247.35	120.15	20.13	299.51	29.55	64.60	248.21
10841	16.50	8.10	1.75	514.52	200.19	349.36	28.55	222.72	147.97	2288.79	485.39	934.90	21.74	161.55	159.09
10842	16.21	8.70	1.75	594.76	268.69	374.29	147.38	259.12	167.72	2544.28	667.86	965.33	559.86	212.11	243.29
10843	15.43	8.10	1.75	401.33	177.05	337.46	38.49	205.48	160.20	1848.95	339.52	809.55	141.59	184.71	230.19
10844	15.16	8.70	1.75	389.75	141.02	342.01	86.99	198.42	174.51	1769.43	211.61	727.36	374.70	143.92	239.37
10845	14.37	8.10	1.75	320.81	105.01	313.37	48.00	179.72	163.32	1547.36	118.23	528.73	210.92	159.20	206.37
10846	14.12	8.70	1.75	291.43	92.37	317.78	77.47	172.64	170.58	1403.65	84.65	467.04	343.59	104.50	198.59
10847	13.30	8.10	1.75	255.05	78.58	295.53	51.77	167.88	165.70	1284.57	65.17	326.74	233.29	91.39	185.36
10848	13.07	8.70	1.75	227.36	75.95	300.59	66.98	164.84	169.03	1150.38	62.57	301.33	302.83	61.22	183.37
10849	12.24	8.10	1.75	205.53	66.10	283.08	49.06	168.37	167.57	1068.04	57.37	228.56	222.97	50.43	177.33
10850	12.02	8.70	1.75	184.23	66.33	288.36	57.53	167.84	168.83	962.15	57.16	226.86	260.52	52.91	177.10
10851	11.18	8.10	1.75	169.25	58.02	273.23	44.61	175.59	169.80						



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
10879	13.63	8.10	0.25	191.56	79.53	334.94	40.88	196.77	185.69	933.60	67.40	421.71	178.29	152.65	200.18
10880	13.40	8.70	0.25	176.31	77.41	338.39	54.24	191.85	189.88	867.92	67.08	382.81	233.35	115.33	198.50
10881	12.54	8.10	0.25	164.26	66.67	321.73	41.21	195.19	186.38	824.55	59.26	301.04	179.82	120.81	190.10
10882	12.33	8.70	0.25	150.23	67.18	325.41	49.10	192.20	188.02	761.44	60.57	285.42	211.45	89.93	189.71
10883	11.45	8.10	0.25	141.19	57.76	310.54	38.79	199.70	187.90	721.10	55.39	240.15	168.24	86.27	187.91
10884	11.26	8.70	0.25	129.40	58.96	314.46	44.00	197.99	188.06	666.21	56.28	240.93	187.80	65.42	187.40
10885	10.36	8.10	0.25	122.02	50.88	299.99	35.68	208.06	190.26	627.35	52.35	223.28	152.35	59.26	189.08
10886	10.18	8.70	0.25	112.55	52.30	304.21	39.42	206.90	189.46	582.05	52.87	231.96	165.07	48.12	187.99
10887	9.27	8.10	0.25	106.29	45.39	289.41	32.56	218.25	193.22	545.08	49.42	228.66	135.53	43.10	191.81
10888	9.11	8.70	0.25	98.89	46.88	294.04	35.43	217.17	191.73	508.65	49.80	239.61	144.13	40.25	190.14
10889	8.18	8.10	0.25	93.43	40.82	278.62	29.67	228.90	196.59	474.09	46.59	241.47	119.37	38.09	195.35
10890	8.04	8.70	0.25	87.72	42.27	283.77	32.05	227.69	194.58	445.04	47.03	252.39	125.55	40.12	193.18
10891	7.09	8.10	0.25	82.91	36.97	267.75	27.09	239.15	200.23	413.22	43.83	255.04	104.56	40.38	199.29
10892	6.97	8.70	0.25	78.59	38.39	273.50	29.15	237.72	197.80	390.21	44.38	265.27	109.20	43.68	196.72
10893	6.00	8.10	0.25	74.32	33.76	257.10	24.77	248.49	204.03	361.16	41.13	266.96	91.25	45.15	203.42
10894	5.90	8.70	0.25	71.16	35.15	263.51	26.62	246.82	201.25	343.05	41.82	276.43	94.90	48.04	200.52
10895	4.91	8.10	0.25	67.34	31.15	247.12	22.66	256.61	207.90	316.69	38.50	276.53	79.44	49.93	207.61
10896	4.82	8.70	0.25	65.15	32.52	254.18	24.39	254.71	204.83	302.56	39.34	285.36	82.42	52.01	204.43
10897	3.82	8.10	0.25	61.73	29.13	238.27	20.74	263.33	211.80	278.76	35.98	283.71	69.02	53.94	211.76
10898	3.75	8.70	0.25	60.38	30.49	245.94	22.40	261.25	208.46	267.85	36.98	292.03	71.55	55.25	208.35
10899	2.73	8.10	0.25	57.31	27.73	231.05	18.99	268.53	215.67	246.49	33.66	288.66	59.87	57.01	215.83
10900	2.68	8.70	0.25	56.68	29.08	239.23	20.63	266.33	212.10	238.20	34.81	296.58	62.07	57.70	212.21
10901	1.64	8.10	0.25	53.94	26.96	225.92	17.44	272.17	219.47	219.19	31.59	291.58	51.88	59.20	219.77
10902	1.61	8.70	0.25	53.94	28.31	234.44	19.08	269.89	215.70	213.04	32.88	299.21	53.83	59.42	215.96
10903	0.55	8.10	0.25	51.50	26.83	223.24	16.19	274.21	223.17	196.28	29.89	292.70	44.95	60.59	223.54
10904	0.54	8.70	0.25	52.06	28.18	231.89	17.82	271.93	219.21	191.87	31.31	300.11	46.69	60.53	219.56
10905	17.30	8.10	-1.25	215.40	154.44	384.85	69.18	197.41	152.52	1037.30	142.00	578.13	76.97	332.82	274.72
10906	17.02	8.70	-1.25	240.37	169.05	445.72	68.29	240.62	196.21	1164.75	189.44	626.13	265.80	324.48	371.39
10907	16.18	8.10	-1.25	156.52	127.82	383.61	45.93	194.26	183.48	775.21	118.62	593.60	83.67	176.47	309.66
10908	15.92	8.70	-1.25	164.71	114.60	395.96	50.38	203.04	202.66	799.23	102.50	587.92	177.43	160.73	311.13
10909	15.07	8.10	-1.25	134.78	94.13	378.19	34.93	198.53	192.80	652.52	80.54	541.57	108.34	118.40	241.89
10910	14.83	8.70	-1.25	132.47	88.63	382.32	45.42	197.28	200.57	646.62	80.82	505.24	166.02	111.97	235.42
10911	13.95	8.10	-1.25	122.69	75.35	370.70	33.69	203.71	196.74	586.67	65.25	445.95	125.80	133.51	209.77
10912	13.73	8.70	-1.25	116.06	74.54	373.24	42.33	200.27	200.03	565.62	68.43	412.80	160.04	113.78	207.93
10913	12.83	8.10	-1.25	112.43	63.09	361.66	33.03	209.89	199.63	535.73	56.36	353.58	129.19	134.79	200.78
10914	12.63	8.70	-1.25	104.97	63.96	364.08	38.95	206.60	200.50	509.26	58.88	333.77	150.53	110.59	199.86
10915	11.72	8.10	-1.25	102.19	53.98	351.40	31.36	218.06	202.55	485.72	49.68	289.13	124.19	118.07	200.66
10916	11.53	8.70	-1.25	95.03	55.32	354.18	35.56	215.34	201.99	458.36	51.56	283.36	138.37	96.11	199.47
10917	10.60	8.10	-1.25	92.05	46.81	340.06	29.24	228.08	205.78	435.03	44.20	257.32	115.14	94.39	203.68
10918	10.43	8.70	-1.25	85.79	48.31	343.39	32.33	225.75	204.29	409.74	45.65	261.51	124.88	77.03	201.87
10919	9.49	8.10	-1.25	82.53	41.05	327.76	27.04	239.10	209.28	385.63	39.49	250.02	104.33	71.17	207.74
10920	9.33	8.70	-1.25	77.38	42.56	331.78	29.40	236.91	207.12	363.67	40.75	259.24	111.22	58.91	205.35
10921	8.37	8.10	-1.25	73.95	36.25	314.76	24.92	250.25	212.96	339.30	35.41	255.88	93.15	52.51	212.11
10922	8.24	8.70	-1.25	69.86	37.72	319.56	26.82	248.03	210.30	320.92	36.62	266.75	98.24	45.31	209.25
10923	7.25	8.10	-1.25	66.44	32.20	301.45	22.91	260.85	216.73	297.03	31.85	266.66	82.38	40.90	216.49
10924	7.14	8.70	-1.25	63.32	33.61	307.09	24.51	258.51	213.70	282.04	33.08	277.62	86.27	38.31	213.29
10925	6.14	8.10	-1.25	60.04	28.79	288.35	21.00	270.41	220.54	259.18	28.77	278.07	72.39	37.43	220.78
10926	6.04	8.70	-1.25	57.80	30.15	294.85	22.41	267.92	217.20	247.24	30.04	288.54	75.47	37.98	217.31
10927	5.02	8.10	-1.25	54.73	25.97	276.03	19.13	278.64	224.31	225.77	26.15	288.24	63.32	40.15	224.91
10928	4.94	8.70	-1.25	53.27	27.29	283.37	20.44	276.00	220.72	216.50	27.45	298.11	65.85	41.81	221.22
10929	3.91	8.10	-1.25	50.47	23.77	265.11	17.31	285.36	228.03	196.65	24.02	296.48	55.21	45.56	228.86
10930	3.84	8.70	-1.25	49.70	25.05	273.22	18.57	282.61	224.21	189.66	25.34	305.80	57.37	47.16	224.99
10931	2.79	8.10	-1.25	47.19	22.23	256.19	15.53	290.49	231.63	171.61	22.42	302.67	48.04	51.41	232.61
10932	2.75	8.70	-1.25	47.04	23.47	264.95	16.81	287.65	227.62	166.55	23.73	311.55	49.94	52.55	228.58
10933	1.67	8.10	-1.25	44.81	21.37	249.84	13.88	293.96	235.11	150.41	21.43	306.91	41.79	56.73	236.14
10934	1.65	8.70	-1.25	45.21	22.58	259.05	15.20	291.08	230.92	146.97	22.70	315.43	43.49	57.37	231.96
10935	0.56	8.10	-1.25	43.26	21.22	246.48	12.51	295.75	238.42	132.84	21.08	309.34	36.42	61.18	239.44
10936	0.55	8.70	-1.25	44.15	22.42	255.89	13.87	292.88	234.07	130.77	22.29	317.59	37.97	61.40	235.11
10937	-0.53	8.10	1.75	55.68	30.38	201.70	17.93	253.56	212.10	221.29	37.35	273.41	43.56	62.60	212.13
10938	-0.52	8.70	1.75	56.45	31.61	209.64	19.66	251.93	208.41	216.62	38.48	280.14	45.12	62.28	208.43
10939	-1.60	8.10	1.75	54.36	31.37	203.97	17.54	252.87	215.97	202.70	35.73	270.31	37.53	60.26	215.98
10940	-1.57	8.70	1.75	55.55	32.62	211.62	19.22	251.35	212.13	199.33	37.04	276.99	38.88	60.18	212.11
10941	-2.66	8.10	1.75	53.70	32.84	208.39	17.74	250.75	219.68	187.26	34.53	265.94	32.47	58.36	219.62
10942	-2.61	8.70	1.75	55.24	34.08	215.58	19.30	249.42	215.71	184.93	36.00	272.60	33.58	58.66	215.61
10943	-3.73	8.10	1.75	53.60	34.70	214.75	18.59	247.24	223.18	174.61	33.86	260.43	28.42	57.23	223.01
10944	-3.66	8.70	1.75	55.43	35.95	221.36	19.97	246.18	219.12	173.10	35.44	267.11	29.26	58.04	218.91
10945	-4.79	8.10	1.75	53.97	36.91	222.75	20.10	242.41	226.47	164.41	33.76	253.96	25.52	57.31	226.16
10946	-4.71	8.70	1.75	56.05	38.16	228.72	21.28	241.69	222.36	163.52	35.43	260.69	26.03	58.71	221.99
10947	-5.85	8.10	1.75	54.74	39.41	232.06	22.22	236.36	229.54	156.33	34.28	246.74	23.91	59.04	229.06
10948	-5.75	8.70	1.75	57.00	40.67	237.36	23.18	236.06	225.42	155.91	35.99	253.53	24.04	61.01	224.85
10949	-6.92	8.10	1.75	55.82	42.16	242.35	24.90								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
10977	-4.91	8.10	0.25	50.14	34.32	248.04	18.68	260.70	238.87	133.64	29.81	276.57	25.18	60.39	238.79
10978	-4.82	8.70	0.25	52.47	35.74	254.36	19.66	259.36	234.39	133.88	31.46	283.60	25.76	61.11	234.25
10979	-6.00	8.10	0.25	51.50	37.05	258.80	21.27	253.47	241.29	129.28	31.70	269.87	24.62	60.71	240.99
10980	-5.90	8.70	0.25	54.01	38.51	264.33	22.04	255.55	236.81	129.88	33.33	276.92	24.85	62.00	236.43
10981	-7.09	8.10	0.25	53.25	40.10	270.49	24.44	244.93	243.45	126.97	34.17	262.41	25.29	62.20	242.91
10982	-6.97	8.70	0.25	55.92	41.61	275.26	25.01	244.51	239.01	127.81	35.78	269.49	25.18	64.12	238.36
10983	-8.18	8.10	0.25	55.37	43.45	282.69	28.11	235.23	245.38	126.45	37.19	254.58	27.09	65.48	244.58
10984	-8.04	8.70	0.25	58.15	45.02	286.77	28.51	235.40	241.04	127.42	38.79	261.69	26.68	67.97	240.11
10985	-9.27	8.10	0.25	57.82	47.11	295.08	32.26	224.64	247.15	127.42	40.77	247.11	29.88	71.11	246.08
10986	-9.11	8.70	0.25	60.70	48.75	298.57	32.51	225.49	242.96	128.43	42.36	254.21	29.21	74.06	241.74
10987	-10.36	8.10	0.25	60.61	51.09	307.47	36.91	213.52	248.84	129.58	44.91	241.27	33.53	79.57	247.54
10988	-10.18	8.70	0.25	63.59	52.80	310.51	37.00	215.13	244.88	130.56	46.50	248.25	32.64	82.76	243.39
10989	-11.45	8.10	0.25	63.78	55.37	319.91	42.09	202.38	250.66	132.56	49.61	239.21	38.00	91.23	249.17
10990	-11.26	8.70	0.25	66.75	57.16	322.71	42.03	204.82	246.97	133.38	51.16	245.82	36.88	94.43	245.29
10991	-12.54	8.10	0.25	67.40	59.95	332.90	47.83	192.03	252.91	135.83	54.92	244.34	43.27	106.48	251.33
10992	-12.33	8.70	0.25	70.35	61.81	335.66	47.58	195.30	249.58	136.52	56.40	250.09	41.96	109.44	247.80
10993	-13.63	8.10	0.25	71.49	64.77	347.78	54.09	183.53	256.12	138.36	60.81	261.81	49.36	125.88	254.57
10994	-13.40	8.70	0.25	74.37	66.59	350.73	53.57	187.62	253.18	138.89	62.09	265.96	47.81	128.31	251.44
10995	-14.72	8.10	0.25	75.57	69.67	367.60	60.37	178.24	261.25	137.80	67.05	298.98	56.06	149.72	259.87
10996	-14.47	8.70	0.25	78.24	71.44	371.05	59.63	182.85	258.64	138.04	68.05	300.55	54.39	151.50	257.11
10997	-15.81	8.10	0.25	77.12	73.45	400.78	64.80	177.03	269.22	127.56	72.29	369.02	62.35	176.02	268.20
10998	-15.54	8.70	0.25	79.51	75.07	404.77	63.65	181.84	266.99	127.99	72.79	366.65	60.59	176.60	265.86
10999	-16.90	8.10	0.25	62.93	71.05	440.11	60.70	164.83	273.36	81.79	64.55	454.17	65.15	173.44	273.44
11000	-16.61	8.70	0.25	65.97	71.50	443.26	58.78	170.23	269.90	84.82	62.90	445.85	63.82	174.79	270.02
11001	-0.56	8.10	-1.25	42.46	21.77	246.36	11.64	295.86	241.54	118.70	21.39	310.13	31.92	64.64	242.48
11002	-0.55	8.70	-1.25	43.79	22.96	255.69	13.01	293.04	237.02	117.75	22.51	318.18	33.32	64.54	238.00
11003	-1.67	8.10	-1.25	42.31	22.95	249.50	11.57	294.27	244.43	107.80	22.30	309.44	28.34	67.08	245.25
11004	-1.65	8.70	-1.25	44.02	24.14	258.49	12.84	291.56	239.77	107.77	23.34	317.32	29.60	66.77	240.61
11005	-2.79	8.10	-1.25	42.75	24.66	255.71	12.44	290.99	247.06	99.93	23.74	307.38	25.77	68.55	247.72
11006	-2.75	8.70	-1.25	44.78	25.87	264.13	13.49	288.46	242.29	100.63	24.71	315.14	26.83	68.16	242.96
11007	-3.91	8.10	-1.25	43.73	26.83	264.58	14.22	286.02	249.41	94.89	25.64	304.03	24.27	69.13	249.86
11008	-3.84	8.70	-1.25	46.03	28.07	272.26	14.99	283.71	244.55	96.13	26.56	311.68	25.08	68.82	245.00
11009	-5.02	8.10	-1.25	45.19	29.39	275.58	16.74	279.36	251.44	92.44	27.94	299.43	23.90	68.98	251.65
11010	-4.94	8.70	-1.25	47.73	30.69	282.40	17.25	277.35	246.52	94.07	28.84	307.01	24.41	68.90	246.71
11011	-6.14	8.10	-1.25	47.11	32.31	288.11	19.85	271.03	253.11	92.34	30.60	293.65	24.62	68.35	253.05
11012	-6.04	8.70	-1.25	49.85	33.67	294.03	20.13	269.40	248.18	94.23	31.51	301.17	24.81	68.66	248.07
11013	-7.25	8.10	-1.25	49.47	35.58	301.57	23.44	261.09	254.40	94.38	33.63	286.81	26.33	67.65	254.05
11014	-7.14	8.70	-1.25	52.38	37.02	306.58	23.55	259.93	249.49	96.41	34.58	294.30	26.22	68.51	249.05
11015	-8.37	8.10	-1.25	52.26	39.19	315.34	27.48	249.66	255.32	98.39	37.06	279.16	28.89	67.48	254.65
11016	-8.24	8.70	-1.25	55.32	40.74	319.50	27.46	249.06	250.48	100.45	38.09	286.61	28.54	69.02	249.68
11017	-9.49	8.10	-1.25	55.52	43.20	328.90	32.01	236.92	255.86	104.24	40.98	271.19	32.23	68.67	254.87
11018	-9.33	8.70	-1.25	58.71	44.87	332.31	31.90	236.99	251.16	106.25	42.11	278.58	31.67	70.94	249.99
11019	-10.60	8.10	-1.25	59.30	47.68	341.81	37.12	223.19	256.10	111.89	45.54	263.87	36.35	72.21	254.78
11020	-10.43	8.70	-1.25	62.63	49.52	344.60	36.94	224.04	251.59	113.80	46.81	271.11	35.60	75.13	250.08
11021	-11.72	8.10	-1.25	63.77	52.75	353.81	43.01	208.94	256.16	121.48	50.94	258.94	41.35	79.14	254.57
11022	-11.53	8.70	-1.25	67.17	54.78	356.17	42.76	210.67	251.93	123.16	52.39	265.86	40.45	82.49	250.11
11023	-12.83	8.10	-1.25	69.36	58.56	364.95	49.97	195.01	256.36	133.37	57.57	259.36	47.51	90.51	254.58
11024	-12.63	8.70	-1.25	72.83	60.87	367.10	49.66	197.67	252.52	134.81	59.23	265.56	46.46	93.95	250.50
11025	-13.95	8.10	-1.25	76.88	65.52	375.98	58.53	182.74	257.33	148.40	66.08	269.96	55.33	107.71	255.50
11026	-13.73	8.70	-1.25	80.43	68.09	378.21	58.09	186.41	253.98	149.52	67.93	274.80	54.07	110.86	251.93
11027	-15.07	8.10	-1.25	88.01	74.51	389.61	69.37	174.80	260.77	168.31	77.87	298.86	65.55	133.59	259.13
11028	-14.83	8.70	-1.25	91.60	77.61	392.38	68.88	179.32	258.07	169.05	80.05	301.44	64.15	136.27	256.24
11029	-16.18	8.10	-1.25	105.66	87.27	412.94	83.59	177.32	271.73	196.11	95.25	360.83	79.38	176.12	270.61
11030	-15.92	8.70	-1.25	109.14	91.17	417.01	82.81	182.63	270.17	196.19	97.93	360.48	77.63	177.63	268.91
11031	-17.30	8.10	-1.25	136.01	111.68	521.47	105.22	128.18	317.05	235.26	131.79	568.55	102.17	272.39	316.82
11032	-17.02	8.70	-1.25	139.64	117.27	528.02	102.46	223.59	316.33	234.94	134.18	561.51	98.67	270.82	316.07
11033	10.98	9.45	1.75	136.73	62.66	288.40	56.56	174.37	169.64	732.20	54.18	221.21	247.59	80.82	175.67
11034	11.95	9.41	1.75	160.94	70.32	297.68	65.85	166.34	169.71	846.94	58.37	235.36	293.14	74.65	178.59
11035	12.92	9.36	1.75	193.73	79.81	308.90	78.85	161.63	171.45	989.69	67.90	291.53	351.70	67.88	184.09
11036	11.17	10.34	1.75	116.16	70.61	304.23	63.77	170.59	169.03	631.95	60.18	239.10	268.53	108.02	178.93
11037	12.02	10.22	1.75	132.69	78.46	311.88	73.13	163.37	170.21	711.35	70.92	251.22	314.15	109.18	182.99
11038	12.86	10.08	1.75	153.92	88.87	320.76	86.39	158.02	172.80	803.61	90.87	292.63	373.96	109.52	188.58
11039	11.35	11.25	1.75	91.58	78.71	323.31	66.55	167.44	168.00	513.17	74.68	259.81	263.30	139.77	185.52
11040	12.07	11.03	1.75	101.12	85.86	328.41	74.19	160.94	169.57	562.92	88.86	267.53	302.99	146.91	190.38
11041	12.78	10.80	1.75	114.19	96.62	334.30	84.01	155.11	171.81	624.06	116.75	295.16	347.90	154.44	196.58
11042	0.53	9.82	1.75	59.13	33.91	225.67	24.27	247.84	197.35	225.33	42.34	296.40	54.36	63.49	197.35
11043	1.60	9.80	1.75	60.51	33.94	227.63	25.54	245.52	193.74	247.16	43.87	296.80	63.28	66.32	193.70
11044	2.66	9.78	1.75	62.69	34.59	231.20	27.08	241.81	190.19	272.80	45.48	295.39	73.47	69.48	190.10
11045	3.72	9.76	1.75	65.79	35.86	236.15	28.88	236.76	186.73	302.80	47.04	292.00	85.15	72.82	186.60
11046	4.77	9.73	1.75	69.97	37.74	242.18	30.97	230.41	183.41	337.88	48.47	286.45	98.60	76.21	183.28
11047	5.82	9.69	1.75	75.42	40.22	249.02	33.40	222.85							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
11075	4.18	14.39	1.75	64.67	51.82	322.93	48.49	222.56	161.71	217.57	57.00	385.15	73.81	69.05	167.43
11076	5.33	14.19	1.75	62.91	53.55	326.10	49.63	216.14	161.37	235.02	56.12	376.63	86.98	79.89	168.65
11077	6.46	13.94	1.75	61.59	56.05	329.57	50.83	208.78	161.42	255.05	55.15	364.45	102.16	92.37	170.80
11078	7.56	13.65	1.75	60.86	59.38	333.21	52.20	200.62	161.77	277.92	54.59	348.71	119.85	106.20	173.92
11079	8.64	13.32	1.75	60.95	63.66	336.91	53.91	191.78	162.35	303.89	55.50	329.93	140.72	121.23	178.07
11080	9.69	12.95	1.75	62.13	69.13	340.60	56.26	182.42	163.13	333.24	59.81	309.69	165.73	137.38	183.35
11081	10.72	12.54	1.75	64.72	76.33	344.21	59.76	172.75	164.15	366.19	70.70	291.76	196.33	154.79	189.97
11082	0.62	16.37	1.75	77.45	48.57	366.05	52.83	234.36	155.54	168.18	55.13	445.39	31.40	47.06	163.02
11083	1.86	16.30	1.75	74.50	48.33	367.00	53.63	230.94	153.96	175.89	54.80	447.76	39.42	46.81	162.90
11084	3.08	16.16	1.75	71.42	48.73	368.26	54.27	226.43	153.14	184.95	54.12	446.17	48.24	52.64	163.73
11085	4.28	15.96	1.75	68.27	49.86	369.68	54.76	220.88	152.97	195.47	53.09	440.30	58.10	63.26	165.51
11086	5.46	15.70	1.75	65.11	51.75	371.11	55.08	214.35	153.29	207.48	51.81	429.91	69.24	77.13	168.26
11087	6.61	15.39	1.75	62.01	54.45	372.43	55.29	206.92	153.98	220.99	50.56	414.86	81.98	93.25	172.01
11088	7.74	15.02	1.75	59.10	58.01	373.54	55.46	198.66	154.91	236.00	49.96	395.27	96.66	111.11	176.85
11089	8.84	14.59	1.75	56.48	62.53	374.30	55.72	189.69	155.98	252.47	51.18	371.80	113.72	130.48	182.88
11090	9.90	14.11	1.75	54.35	68.20	374.65	56.30	180.16	157.12	270.47	56.12	346.23	133.68	151.24	190.34
11091	10.93	13.57	1.75	52.98	75.32	374.47	57.50	170.21	158.34	289.82	67.07	322.74	157.13	173.52	199.59
11092	0.63	18.02	1.75	84.14	37.60	426.20	57.93	234.59	132.85	160.96	43.43	513.36	18.14	43.62	149.14
11093	1.88	17.94	1.75	80.83	37.80	426.51	58.54	230.70	132.03	166.35	43.12	516.39	24.52	38.29	150.33
11094	3.13	17.78	1.75	77.18	39.09	426.29	58.86	225.78	132.26	172.47	42.64	514.30	31.69	42.67	152.68
11095	4.35	17.54	1.75	73.26	41.41	425.48	58.91	219.85	133.41	179.33	42.03	506.72	39.79	55.16	156.22
11096	5.56	17.23	1.75	69.11	44.66	423.99	58.68	212.98	135.27	186.91	41.39	493.35	48.96	72.22	161.00
11097	6.74	16.85	1.75	64.81	48.71	421.79	58.22	205.22	137.64	195.13	40.95	474.09	59.36	91.87	167.09
11098	7.89	16.40	1.75	60.46	53.46	418.83	57.56	196.67	140.32	203.88	41.25	449.15	71.18	113.30	174.62
11099	9.01	15.87	1.75	56.17	58.92	415.11	56.78	187.46	143.15	213.09	43.18	419.34	84.59	136.22	183.75
11100	10.09	15.28	1.75	52.07	65.18	410.63	56.01	177.74	146.03	222.82	48.06	386.67	99.83	160.58	190.70
11101	11.12	14.62	1.75	48.41	72.49	405.47	55.41	167.71	148.89	233.77	57.37	355.55	117.15	186.34	207.89
11102	15.78	9.51	1.75	357.26	296.96	378.19	253.25	191.25	233.30	1565.49	718.02	818.60	968.43	269.42	341.47
11103	15.19	10.51	1.75	69.97	181.03	364.98	102.09	128.42	178.92	439.21	352.57	550.78	404.60	348.24	330.77
11104	14.55	11.47	1.75	52.37	132.64	377.46	67.75	133.05	164.88	338.90	202.79	444.10	248.36	314.50	294.18
11105	14.83	9.44	1.75	288.58	126.41	346.07	139.50	171.70	187.37	1331.92	179.34	601.67	583.20	106.73	227.01
11106	14.42	10.31	1.75	156.56	142.68	353.46	126.80	147.18	183.92	786.18	247.47	477.89	513.39	194.61	231.06
11107	13.98	11.15	1.75	76.64	125.65	361.19	87.39	140.35	171.29	456.58	199.03	389.20	343.84	245.93	239.90
11108	13.88	9.37	1.75	235.71	96.32	324.94	99.98	162.43	176.13	1153.11	96.77	412.94	436.32	75.03	196.32
11109	13.66	10.11	1.75	169.25	106.11	335.08	104.87	153.76	177.41	860.55	135.39	372.57	444.88	128.55	200.83
11110	13.41	10.83	1.75	110.03	110.90	345.69	93.16	149.33	173.78	602.24	157.32	341.52	381.25	182.84	209.31
11111	12.09	13.92	1.75	45.59	81.29	399.54	55.31	157.90	151.89	245.59	73.57	334.69	136.69	213.34	222.53
11112	11.83	13.02	1.75	52.80	83.86	373.24	59.66	160.99	159.88	309.88	85.71	309.49	183.55	195.21	209.20
11113	11.57	12.14	1.75	68.44	84.23	346.99	64.16	164.36	165.40	398.43	87.83	283.81	228.27	170.52	196.43
11114	12.97	13.16	1.75	43.86	92.16	392.84	56.19	148.59	155.11	259.78	96.77	335.30	160.15	242.81	240.55
11115	12.62	12.46	1.75	54.40	93.83	370.92	63.55	152.80	161.96	334.02	110.31	312.88	215.68	215.80	220.01
11116	12.27	11.78	1.75	74.07	92.52	348.82	69.76	157.60	167.02	434.78	108.87	288.83	262.77	183.17	202.79
11117	13.80	12.36	1.75	43.19	106.91	385.66	59.28	139.84	159.09	276.25	131.91	369.77	192.45	276.64	263.62
11118	13.37	11.87	1.75	58.84	107.68	368.19	70.61	145.15	164.94	366.63	147.39	341.34	260.02	237.57	233.03
11119	12.94	11.39	1.75	82.16	102.07	350.38	78.83	151.24	169.57	477.98	132.47	311.10	311.29	196.28	210.32
11120	11.26	9.46	0.25	116.19	63.78	322.86	50.62	193.99	187.96	606.55	57.35	250.00	209.54	52.51	187.34
11121	12.26	9.42	0.25	132.82	72.00	332.86	57.45	187.64	189.68	684.91	62.51	282.30	240.73	64.08	190.99
11122	13.26	9.37	0.25	153.53	81.92	344.74	66.01	185.23	193.77	772.56	70.20	356.04	276.63	78.91	199.74
11123	11.47	10.39	0.25	98.54	73.91	336.86	58.24	187.28	188.10	531.11	63.99	265.51	227.88	67.12	189.52
11124	12.34	10.26	0.25	109.71	82.15	345.05	65.23	181.23	191.51	587.72	71.56	288.57	259.99	73.24	195.34
11125	13.20	10.12	0.25	123.01	92.39	354.70	74.40	177.53	197.00	647.88	83.50	340.07	299.21	84.55	205.13
11126	11.66	11.33	0.25	78.12	85.22	354.38	62.42	181.72	188.53	442.15	76.38	283.31	224.14	107.13	196.29
11127	12.39	11.10	0.25	84.26	92.39	360.27	67.82	176.14	192.50	480.06	85.23	296.84	252.61	116.87	203.71
11128	13.12	10.86	0.25	92.28	102.41	367.36	74.44	171.58	197.69	523.39	101.49	329.65	283.10	131.22	214.20
11129	0.55	9.85	0.25	53.96	31.49	249.38	21.52	267.22	210.72	183.60	34.68	315.92	48.90	59.90	210.98
11130	1.64	9.83	0.25	54.88	31.61	251.69	22.79	265.08	207.52	202.57	35.98	315.17	56.64	59.41	207.65
11131	2.73	9.81	0.25	56.57	32.41	255.97	24.35	261.42	204.33	225.21	37.62	312.53	65.58	58.59	204.27
11132	3.82	9.79	0.25	59.14	33.90	261.93	26.16	256.29	201.21	251.95	39.48	307.84	75.88	57.35	200.87
11133	4.90	9.76	0.25	62.70	36.06	269.21	28.22	249.74	198.20	283.26	41.49	300.95	87.76	55.59	197.53
11134	5.97	9.72	0.25	67.41	38.86	277.43	30.57	241.89	195.35	319.74	43.59	291.75	101.47	53.28	194.32
11135	7.05	9.68	0.25	73.44	42.31	286.23	33.30	232.92	192.75	362.14	45.78	280.29	117.33	50.47	191.37
11136	8.11	9.63	0.25	81.02	46.44	295.30	36.50	223.09	190.50	411.30	48.08	267.10	135.72	47.53	188.86
11137	9.18	9.57	0.25	90.47	51.34	304.43	40.33	212.82	188.77	468.22	50.62	253.84	157.02	45.45	187.04
11138	10.23	9.51	0.25	102.20	57.14	313.57	44.96	202.75	187.83	533.86	53.57	244.96	181.54	46.31	186.28
11139	0.58	11.54	0.25	58.07	38.07	277.01	27.93	259.88	197.24	172.33	41.62	341.88	49.66	57.96	197.29
11140	1.73	11.51	0.25	57.57	38.17	278.97	29.20	257.48	194.53	188.21	42.60	341.27	58.11	58.31	194.44
11141	2.87	11.45	0.25	57.66	39.04	282.53	30.75	253.57	192.08	207.40	43.86	338.38	67.83	58.98	191.74
11142	4.00	11.37	0.25	58.47	40.69	287.41	32.55	248.20	189.89	230.24	45.30	333.07	79.04	59.85	189.25
11143	5.12	11.28	0.25	60.12	43.09	293.31	34.62	241.48	188.02	257.10	46.84	325.23	91.98	60.77	187.06
11144	6.22	11.17	0.25	62.78	46.22	299.93	37.01	233.56	186.49	288.46	48.48	314.81	10		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
11173	5.62	15.96	0.25	65.54	75.70	407.60	61.99	228.41	176.59	186.10	80.72	457.67	65.42	67.70	189.52
11174	6.80	15.63	0.25	62.50	77.27	409.89	62.17	221.49	178.51	199.92	79.63	443.27	76.39	83.32	194.21
11175	7.96	15.24	0.25	59.67	79.51	412.32	62.13	213.84	180.80	215.78	78.43	424.67	88.93	101.13	200.07
11176	9.09	14.80	0.25	57.09	82.52	414.81	61.93	205.58	183.35	233.56	77.56	402.53	103.35	121.25	207.23
11177	10.18	14.30	0.25	54.80	86.45	417.28	61.65	196.81	186.06	253.00	77.90	378.62	119.97	143.97	215.99
11178	11.23	13.74	0.25	52.84	91.54	419.64	61.45	187.68	188.90	273.43	81.02	357.03	139.17	169.85	227.01
11179	0.65	18.36	0.25	86.57	51.41	496.08	65.30	252.71	164.67	150.31	56.96	575.61	19.21	37.88	179.93
11180	1.94	18.28	0.25	83.16	51.41	496.00	65.69	249.11	163.89	154.58	56.71	578.62	24.74	29.84	181.23
11181	3.22	18.11	0.25	79.49	52.15	495.47	65.61	244.46	164.04	160.05	56.16	576.43	30.83	33.74	183.57
11182	4.48	17.87	0.25	75.59	53.69	494.40	65.11	238.79	165.00	166.79	55.41	568.65	37.70	47.67	186.96
11183	5.72	17.54	0.25	71.48	55.99	492.73	64.21	232.11	166.57	174.75	54.47	554.93	45.58	66.47	191.45
11184	6.94	17.15	0.25	67.17	58.98	490.38	62.96	224.46	168.58	183.78	53.47	535.10	54.70	88.01	197.15
11185	8.12	16.67	0.25	62.67	62.58	487.30	61.44	215.91	170.84	193.59	52.72	509.30	65.25	111.75	204.24
11186	9.27	16.13	0.25	58.01	66.78	483.42	59.75	206.52	173.19	203.78	52.83	478.26	77.42	137.63	213.06
11187	10.38	15.51	0.25	53.21	71.66	478.66	58.02	196.40	175.55	213.90	54.87	443.91	91.33	165.72	224.12
11188	11.44	14.83	0.25	48.36	77.30	472.91	56.40	185.64	177.79	223.73	60.15	410.42	106.96	195.91	238.26
11189	16.19	9.53	0.25	246.66	240.68	423.08	180.78	206.25	266.99	1106.48	496.71	702.10	693.65	305.02	418.28
11190	15.59	10.56	0.25	47.62	162.85	411.99	80.93	140.53	210.96	335.33	258.40	521.11	314.95	345.23	387.33
11191	14.94	11.56	0.25	40.43	125.90	431.61	60.48	146.07	194.24	287.10	159.83	454.58	210.00	329.75	346.62
11192	15.21	9.45	0.25	207.40	120.87	386.72	104.57	192.57	218.74	963.62	131.40	599.28	420.77	140.36	272.35
11193	14.80	10.35	0.25	114.95	139.85	395.54	101.50	166.27	217.94	618.32	184.72	494.04	391.47	210.57	274.54
11194	14.35	11.22	0.25	60.83	128.35	407.92	75.44	158.55	205.42	399.84	155.71	415.73	276.29	257.61	279.50
11195	14.24	9.38	0.25	177.05	97.28	361.43	79.17	186.71	202.10	861.28	86.72	469.64	326.36	93.22	221.16
11196	14.02	10.15	0.25	129.91	108.72	370.51	87.01	173.84	205.90	679.58	110.22	414.52	345.08	120.46	226.31
11197	13.77	10.90	0.25	86.89	115.77	382.07	80.50	166.66	203.49	506.82	127.21	374.27	304.50	173.65	235.34
11198	12.42	14.10	0.25	43.91	84.25	465.66	55.20	174.78	180.26	232.49	71.01	385.76	123.99	227.42	255.14
11199	12.16	13.17	0.25	51.50	97.82	420.53	61.62	179.09	191.81	293.47	89.00	344.87	160.16	196.33	238.57
11200	11.89	12.26	0.25	60.74	94.98	379.35	62.98	178.48	189.52	358.30	88.05	307.24	195.82	153.91	212.01
11201	13.33	13.31	0.25	40.09	93.12	456.51	54.84	164.20	183.15	240.67	87.59	379.75	143.70	260.82	277.70
11202	12.97	12.59	0.25	50.86	105.14	419.55	62.80	171.63	194.91	314.33	101.94	347.92	184.75	222.16	252.00
11203	12.60	11.88	0.25	63.80	102.19	382.92	66.22	172.62	193.55	388.11	99.83	315.48	221.34	169.75	221.44
11204	14.18	12.48	0.25	36.97	104.94	445.74	55.89	153.97	186.98	248.05	112.32	402.49	168.76	295.55	308.19
11205	13.74	11.97	0.25	51.59	115.30	417.67	65.87	163.47	198.78	338.50	123.92	373.64	217.10	249.06	269.27
11206	13.29	11.48	0.25	68.13	110.00	386.73	71.52	167.37	198.58	420.61	113.76	340.58	255.93	187.86	233.80
11207	11.55	9.48	-1.25	86.03	60.51	360.65	41.45	209.02	200.60	427.22	54.85	286.17	154.33	72.39	197.67
11208	12.57	9.43	-1.25	94.09	69.22	369.12	46.11	200.20	201.02	473.60	62.55	322.75	171.37	82.29	199.77
11209	13.59	9.39	-1.25	103.18	79.79	377.24	51.57	193.35	203.06	526.17	72.24	383.93	189.44	88.85	208.38
11210	11.76	10.44	-1.25	73.13	71.86	371.20	49.10	198.49	198.52	387.69	63.14	294.99	167.74	63.44	196.30
11211	12.65	10.31	-1.25	78.26	80.68	377.27	53.97	190.45	201.07	426.32	70.78	318.76	185.87	72.93	201.60
11212	13.53	10.16	-1.25	83.87	91.47	383.33	59.77	183.68	205.32	469.00	80.49	360.31	206.79	88.47	212.54
11213	11.96	11.41	-1.25	59.54	86.13	383.45	55.47	188.78	196.53	343.31	76.06	304.96	166.14	91.91	198.98
11214	12.71	11.18	-1.25	62.05	93.96	387.23	59.12	181.94	200.34	375.07	82.87	317.31	182.96	104.58	207.34
11215	13.46	10.93	-1.25	65.32	104.45	391.39	63.41	175.70	205.49	412.69	92.28	342.51	200.35	124.69	220.47
11216	0.56	9.88	-1.25	46.97	25.46	275.35	17.23	286.62	224.23	127.37	25.43	335.39	40.12	61.23	225.21
11217	1.68	9.86	-1.25	47.12	25.67	278.16	18.52	284.70	221.39	141.69	25.94	333.39	46.09	58.02	222.30
11218	2.80	9.84	-1.25	47.97	26.66	283.37	20.07	281.15	218.49	159.20	27.04	329.50	53.07	54.18	219.23
11219	3.91	9.82	-1.25	49.59	28.40	290.64	21.82	275.99	215.57	180.05	28.66	323.63	61.14	49.84	216.04
11220	5.02	9.78	-1.25	52.06	30.84	299.53	23.73	269.29	212.68	204.38	30.76	315.70	70.40	45.32	212.75
11221	6.13	9.74	-1.25	55.44	33.94	309.54	25.82	261.15	209.87	232.34	33.28	305.79	80.98	41.36	209.43
11222	7.22	9.70	-1.25	59.76	37.68	320.16	28.14	251.74	207.21	264.07	36.23	294.35	92.98	39.39	206.16
11223	8.32	9.65	-1.25	65.04	42.11	330.94	30.78	241.34	204.79	299.65	39.70	282.59	106.46	41.37	203.05
11224	9.41	9.59	-1.25	71.27	47.31	341.46	33.82	230.32	202.75	339.09	43.82	273.28	121.38	48.45	200.31
11225	10.49	9.53	-1.25	78.40	53.45	351.45	37.34	219.27	201.30	382.20	48.80	271.85	137.48	59.82	198.29
11226	0.59	11.64	-1.25	52.81	31.83	306.08	23.49	276.43	207.63	123.90	32.22	364.28	41.33	59.73	208.27
11227	1.78	11.60	-1.25	51.65	32.11	308.33	24.74	274.26	205.31	135.49	32.88	362.41	47.83	57.76	205.76
11228	2.95	11.54	-1.25	51.00	33.30	312.50	26.25	270.40	203.16	150.10	34.11	358.21	55.39	55.67	203.29
11229	4.11	11.46	-1.25	50.96	35.34	318.26	27.98	264.92	201.21	167.83	35.81	351.63	64.15	53.52	200.87
11230	5.25	11.36	-1.25	51.62	38.19	325.23	29.92	257.93	199.50	188.80	37.94	342.63	74.23	51.43	198.58
11231	6.38	11.25	-1.25	53.05	41.78	332.98	32.10	249.58	198.07	213.15	40.48	331.32	85.78	49.64	196.49
11232	7.50	11.11	-1.25	55.34	46.12	341.11	34.57	240.07	196.98	241.00	43.47	318.15	98.94	48.57	194.73
11233	8.61	10.96	-1.25	58.52	51.24	349.24	37.42	229.69	196.33	272.51	47.04	304.27	113.85	48.88	193.47
11234	9.70	10.79	-1.25	62.64	57.24	357.10	40.74	218.83	196.27	307.86	51.40	292.25	130.57	51.30	192.98
11235	10.78	10.61	-1.25	67.74	64.26	364.51	44.65	208.04	197.02	347.46	56.82	287.02	149.04	56.28	193.71
11236	0.62	13.40	-1.25	61.01	41.90	338.34	32.19	265.54	189.31	123.16	43.26	396.12	39.90	55.98	189.44
11237	1.86	13.34	-1.25	58.72	42.15	340.00	33.36	263.11	187.64	131.67	44.01	394.67	46.38	55.34	187.50
11238	3.07	13.25	-1.25	56.70	43.41	343.00	34.77	259.03	186.47	142.87	45.31	390.39	53.88	55.56	185.89
11239	4.27	13.12	-1.25	55.01	45.62	347.12	36.38	253.40	185.81	156.89	47.07	383.26	62.53	56.60	184.67
11240	5.45	12.96	-1.25	53.74	48.75	352.03	38.20	246.34	185.62	173.86	49.24	373.26	72.47	58.38	183.89
11241	6.62	12.77	-1.25	52.97	52.74	357.44	40.22	238.03	185.92	193.92	51.85	360.51	83.86	60.85	183.65
11242	7.76	12.54	-1.25	52.80	57.60	363.05	42.51	228.68	186.73	217.21	54.96	345.46	96.84	64.05	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
11271	7.14	17.44	-1.25	79.82	141.59	576.58	95.64	255.50	235.91	170.45	161.47	617.17	52.21	81.83	274.09
11272	8.35	16.95	-1.25	80.71	143.60	575.44	92.85	248.96	238.75	189.33	162.90	592.77	59.84	108.82	283.17
11273	9.53	16.39	-1.25	81.86	146.10	574.08	89.65	241.90	241.86	212.76	164.23	562.93	69.09	140.19	294.32
11274	10.66	15.75	-1.25	82.96	149.09	572.48	86.16	234.39	245.10	241.21	165.51	529.20	80.42	177.01	308.33
11275	11.75	15.04	-1.25	83.68	152.55	570.58	82.47	226.55	248.50	275.44	166.78	495.12	94.44	220.33	326.75
11276	12.60	14.30	-1.25	84.79	156.44	568.34	78.81	218.79	251.86	308.95	168.05	462.99	109.42	273.33	346.50
11277	13.31	13.55	-1.25	86.28	160.71	565.76	74.41	211.22	254.33	348.82	170.32	431.86	126.44	326.33	368.25
11278	13.89	12.79	-1.25	88.14	165.38	562.81	69.41	203.79	256.80	399.59	172.69	402.91	145.44	385.33	391.50
11279	14.35	12.03	-1.25	90.36	170.44	559.50	63.91	195.79	258.27	475.82	175.06	376.00	165.44	448.33	417.25
11280	14.70	11.27	-1.25	92.93	175.99	555.84	57.91	187.79	258.74	580.99	177.43	351.09	184.44	511.33	444.00
11281	14.95	10.51	-1.25	95.84	181.99	551.84	51.41	179.79	258.21	709.59	179.80	326.18	203.44	580.33	471.25
11282	15.11	9.75	-1.25	99.08	188.44	547.44	44.41	171.79	256.68	869.59	182.17	301.27	222.44	654.33	500.00
11283	15.19	9.00	-1.25	102.64	195.33	542.55	36.91	163.79	254.15	1059.59	184.54	276.36	241.44	734.33	529.75
11284	15.18	8.24	-1.25	106.51	202.64	537.26	28.91	155.79	251.62	1289.59	186.91	251.45	260.44	819.33	559.50
11285	15.09	7.48	-1.25	110.68	210.33	531.97	20.41	147.79	248.09	1549.59	189.28	226.56	279.44	909.33	590.25
11286	14.93	6.72	-1.25	115.14	218.44	526.48	11.41	139.79	243.56	1849.59	191.65	201.67	307.44	1004.33	621.50
11287	14.71	5.96	-1.25	120.88	226.99	520.79	2.41	131.79	238.03	2169.59	194.02	176.78	346.44	1114.33	653.25
11288	14.44	5.20	-1.25	127.87	235.99	514.80	-6.59	123.79	231.50	2519.59	196.39	151.89	394.44	1229.33	685.50
11289	14.13	4.44	-1.25	136.08	245.44	508.51	-15.59	115.79	223.97	2869.59	198.76	127.00	451.44	1350.33	717.25
11290	13.78	3.68	-1.25	145.49	255.44	501.82	-24.59	107.79	215.44	3239.59	201.13	102.11	518.44	1477.33	750.00
11291	13.39	2.92	-1.25	156.08	266.03	494.73	-33.59	99.79	205.91	3639.59	203.50	77.22	594.44	1610.33	783.25
11292	12.96	2.16	-1.25	167.84	277.26	487.24	-42.59	91.79	195.34	4069.59	205.87	52.33	690.44	1750.33	817.00
11293	12.50	1.40	-1.25	180.75	289.11	479.35	-51.59	83.79	183.76	4529.59	208.24	27.44	807.44	1897.33	851.25
11294	12.01	0.64	-1.25	194.80	301.59	470.56	-60.59	75.79	171.13	5019.59	210.61	2.55	935.44	2050.33	886.00
11295	11.50	-0.12	-1.25	209.98	314.70	460.87	-69.59	67.79	158.50	5529.59	212.98	-2.44	1084.44	2209.33	921.25
11296	11.00	-0.88	-1.25	226.29	328.44	450.28	-78.59	59.79	145.87	6059.59	215.35	-7.55	1254.44	2374.33	957.00
11297	10.50	-1.64	-1.25	243.72	342.81	438.79	-87.59	51.79	133.24	6609.59	217.72	-12.66	1445.44	2545.33	993.25
11298	10.00	-2.40	-1.25	262.28	357.72	426.30	-96.59	43.79	120.61	7179.59	220.09	-17.77	1657.44	2722.33	1030.00
11299	9.50	-3.16	-1.25	281.97	373.17	413.81	-105.59	35.79	107.94	7769.59	222.46	-22.88	1890.44	2905.33	1067.25
11300	9.00	-3.92	-1.25	302.78	389.16	400.32	-114.59	27.79	95.27	8379.59	224.83	-27.99	2144.44	3094.33	1105.00
11301	8.50	-4.68	-1.25	324.70	405.69	386.83	-123.59	19.79	82.60	9009.59	227.20	-33.10	2419.44	3289.33	1143.25
11302	8.00	-5.44	-1.25	347.72	422.76	373.34	-132.59	11.79	70.00	9659.59	229.57	-38.21	2714.44	3490.33	1182.00
11303	7.50	-6.20	-1.25	371.84	440.33	359.85	-141.59	3.79	57.33	10329.59	231.94	-43.32	3039.44	3707.33	1221.25
11304	7.00	-6.96	-1.25	397.05	458.44	346.36	-150.59	-4.21	44.66	11019.59	234.31	-48.43	3394.44	3940.33	1261.00
11305	6.50	-7.72	-1.25	423.44	477.09	332.87	-159.59	-10.21	32.00	11729.59	236.68	-53.54	3849.44	4189.33	1301.25
11306	6.00	-8.48	-1.25	450.91	496.26	319.38	-168.59	-16.21	19.33	12459.59	239.05	-58.65	4414.44	4454.33	1342.00
11307	5.50	-9.24	-1.25	479.46	515.93	305.89	-177.59	-22.21	6.66	13209.59	241.42	-63.76	5099.44	4735.33	1383.25
11308	5.00	-10.00	-1.25	509.08	536.10	292.40	-186.59	-28.21	-6.00	14079.59	243.79	-68.87	5894.44	5032.33	1425.00
11309	4.50	-10.76	-1.25	539.77	556.77	278.91	-195.59	-34.21	-12.93	15079.59	246.16	-73.98	6809.44	5336.33	1467.25
11310	4.00	-11.52	-1.25	571.52	577.94	265.42	-204.59	-40.21	-19.66	16199.59	248.53	-79.09	7944.44	5647.33	1510.00
11311	3.50	-12.28	-1.25	604.33	599.61	251.93	-213.59	-46.21	-26.39	17449.59	250.90	-84.20	9309.44	5965.33	1553.25
11312	3.00	-13.04	-1.25	638.20	621.78	238.44	-222.59	-52.21	-33.10	18829.59	253.27	-89.31	10904.44	6300.33	1597.00
11313	2.50	-13.80	-1.25	673.13	644.45	224.95	-231.59	-58.21	-40.00	20349.59	255.64	-94.42	12739.44	6653.33	1641.25
11314	2.00	-14.56	-1.25	709.12	667.62	211.46	-240.59	-64.21	-47.00	22009.59	258.01	-99.53	14814.44	7025.33	1686.00
11315	1.50	-15.32	-1.25	746.16	691.29	197.97	-249.59	-70.21	-54.00	23809.59	260.38	-104.64	17149.44	7416.33	1731.25
11316	1.00	-16.08	-1.25	784.25	715.46	184.48	-258.59	-76.21	-61.00	25749.59	262.75	-109.75	19744.44	7825.33	1777.00
11317	0.50	-16.84	-1.25	823.38	740.13	171.00	-267.59	-82.21	-68.00	27829.59	265.12	-114.86	22599.44	8252.33	1823.25
11318	0.00	-17.60	-1.25	863.55	765.30	157.51	-276.59	-88.21	-75.00	30059.59	267.49	-120.00	26724.44	8697.33	1870.00
11319	-0.50	-18.36	-1.25	904.76	791.00	144.02	-285.59	-94.21	-82.00	32439.59	269.86	-125.11	32129.44	9159.33	1917.25
11320	-1.00	-19.12	-1.25	947.01	817.21	130.53	-294.59	-100.21	-89.00	35069.59	272.23	-130.22	38804.44	9738.33	1965.00
11321	-1.50	-19.88	-1.25	990.30	843.92	117.04	-303.59	-106.21	-96.00	37949.59	274.60	-135.33	46749.44	10344.33	2013.25
11322	-2.00	-20.64	-1.25	1034.63	871.13	103.55	-312.59	-112.21	-103.00	41089.59	276.97	-140.44	56064.44	10977.33	2062.00
11323	-2.50	-21.40	-1.25	1080.00	898.84	90.06	-321.59	-118.21	-110.00	44699.59	279.34	-145.55	66849.44	11738.33	2111.25
11324	-3.00	-22.16	-1.25	1126.41	927.05	76.57	-330.59	-124.21	-117.00	49689.59	281.71	-150.66	79204.44	12629.33	2161.00
11325	-3.50	-22.92	-1.25	1173.86	955.76	63.08	-339.59	-130.21	-124.00	55149.59	284.08	-155.77	93249.44	13650.33	2211.25
11326	-4.00	-23.68	-1.25	1222.35	984.97	49.59	-348.59	-136.21	-131.00	61189.59	286.45	-160.88	109004.44	14811.33	2261.50
11327	-4.50	-24.44	-1.25	1271.78	1014.68	36.10	-357.59	-142.21	-138.00	67729.59	288.82	-165.99	126779.44	16112.33	2312.75
11328	-5.00	-25.20	-1.25	1322.15	1044.89	22.61	-366.59	-148.21	-145.00	74889.59	291.19	-171.10	146684.44	17553.33	2365.00
11329	-5.50	-25.96	-1.25	1373.56	1075.60	9.12	-375.59	-154.21	-152.00	82669.59	293.56	-176.21	168929.44	19144.33	2418.25
11330	-6.00	-26.72	-1.25	1425.91	1106.81	-4.37	-384.59	-160.21	-159.00	91179.59	295.93	-181.32	193714.44	20885.33	2472.50
11331	-6.50	-27.48	-1.25	1479.20	1138.52	-10.88	-393.59	-166.21	-166.00	100529.59	298.30	-186.43	220249.44	22786.33	2527.75
11332	-7.00	-28.24	-1.25	1533.53	1170.73	-17.39	-402.59	-172.21	-173.00	110739.59	300.67	-191.54	248534.44	24857.33	2584.00
11333	-7.50	-29.00	-1.25	1588.90	1203.44	-23.90	-411.59	-178.21	-180.00	122889.59	303.04	-196.65	279669.44	27068.33	2641.25
11334	-8.00	-29.76	-1.25	1645.31	1236.65	-30.41	-420.59	-184.21	-187.00	136989.59	305.41	-201.76	313764.44	29419.33	2700.00
11335	-8.50	-30.52	-1.25	1702.76	1270.36	-36.92	-429.59	-190.21	-194.00	153139.59	307.78	-206.87	351919.44	31910.33	2760.25
11336	-9.00	-31.28	-1.25	1761.25	1304.57	-43.43	-438.59	-196.21	-201.00	171449.59	310.15	-211.98	394234.44	34551.33	2822.00
11337	-9.50	-32.04	-1.25	1820.78	1339.18	-49.94	-447.59	-202.21	-208.00	191919.59	312.52	-217.09	440809.44	37352.33	2885.25
11338	-10.00	-32.80	-1.25	1											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
11369	-13.87	9.38	1.75	69.97	66.80	346.40	50.17	178.40	244.40	113.69	54.20	288.00	46.68	147.14	242.95
11370	-13.64	10.13	1.75	73.14	67.89	353.99	49.15	183.18	239.99	113.59	54.33	294.14	45.36	150.25	238.45
11371	-13.38	10.86	1.75	76.25	68.59	362.06	47.90	188.03	235.11	114.08	54.01	300.92	43.77	152.83	233.60
11372	-12.07	13.93	1.75	88.61	68.29	403.88	46.27	207.96	206.05	117.26	50.25	340.40	39.78	165.04	206.14
11373	-11.79	13.06	1.75	85.22	67.37	378.85	45.01	205.74	215.04	121.41	51.81	315.91	36.01	153.38	213.67
11374	-11.51	12.19	1.75	81.69	67.20	353.97	44.94	203.99	221.73	126.79	54.88	291.45	33.23	142.11	219.70
11375	-12.96	13.17	1.75	85.72	70.18	400.92	47.19	199.99	214.74	111.94	51.29	337.89	44.05	167.51	214.84
11376	-12.59	12.49	1.75	82.92	68.44	380.08	45.85	199.11	221.09	116.05	51.62	316.13	40.54	157.35	219.90
11377	-12.22	11.81	1.75	80.45	67.93	358.90	45.83	198.80	226.15	122.28	54.46	294.05	37.26	147.58	224.28
11378	-13.79	12.36	1.75	82.41	71.72	398.09	48.56	191.43	223.28	106.32	52.57	341.07	47.92	168.26	223.48
11379	-13.35	11.89	1.75	80.16	69.51	381.21	46.93	191.94	227.03	110.16	51.70	320.64	44.68	159.96	226.13
11380	-12.91	11.42	1.75	78.68	68.42	363.85	46.79	193.17	230.53	116.93	53.77	300.17	41.22	152.22	228.95
11381	-11.25	9.48	0.25	71.16	60.52	330.13	43.46	206.05	242.82	135.09	54.46	255.46	36.53	101.77	240.87
11382	-12.25	9.43	0.25	74.41	64.83	342.38	48.50	198.09	246.13	137.78	59.21	259.75	41.35	116.06	244.14
11383	-13.25	9.38	0.25	77.90	69.16	356.85	53.70	191.75	250.44	139.65	64.23	274.36	46.70	133.39	248.55
11384	-11.42	10.43	0.25	77.64	66.56	343.65	46.53	200.76	238.66	137.74	60.36	269.69	36.79	114.36	236.39
11385	-12.30	10.29	0.25	80.00	69.91	354.42	50.59	206.91	242.96	139.38	64.00	274.52	41.22	127.01	240.74
11386	-13.17	10.14	0.25	82.36	73.18	367.20	54.53	196.20	248.00	140.24	67.69	287.67	45.91	141.43	245.95
11387	-11.60	11.38	0.25	84.13	73.28	361.15	49.88	209.22	235.96	140.01	66.87	288.12	36.98	128.24	233.50
11388	-12.34	11.14	0.25	85.50	75.23	369.88	52.58	204.97	240.93	140.48	68.95	292.65	40.91	138.52	238.63
11389	-13.08	10.89	0.25	86.60	77.20	380.34	55.47	201.14	246.08	139.85	71.07	303.25	45.19	149.83	243.97
11390	-0.54	9.85	0.25	53.65	31.99	249.16	20.61	267.84	213.94	168.12	33.73	314.89	42.27	60.15	214.23
11391	-1.62	9.84	0.25	53.90	33.10	251.03	20.14	266.98	217.12	155.73	33.30	312.25	36.66	60.33	217.35
11392	-2.70	9.83	0.25	54.62	34.74	254.98	20.25	264.66	220.22	146.03	33.42	308.19	32.04	60.61	220.33
11393	-3.79	9.81	0.25	55.73	36.84	260.83	21.00	260.91	223.24	138.78	34.14	302.82	28.45	61.21	223.16
11394	-4.86	9.78	0.25	57.18	39.35	268.29	22.43	255.80	226.16	133.71	35.45	296.28	25.99	62.43	225.83
11395	-5.94	9.74	0.25	58.91	42.20	277.01	24.53	249.43	228.97	130.59	37.34	288.74	24.79	64.62	228.35
11396	-7.01	9.70	0.25	60.90	45.37	286.68	27.26	241.93	231.70	129.16	39.80	280.49	24.92	68.13	230.70
11397	-8.08	9.65	0.25	63.12	48.82	296.98	30.57	233.50	234.37	129.18	42.79	271.97	26.32	73.33	233.10
11398	-9.15	9.59	0.25	65.57	52.56	307.69	34.42	224.40	237.04	130.41	46.29	263.96	28.86	80.52	235.48
11399	-10.21	9.53	0.25	68.28	56.58	318.75	38.77	215.01	239.85	132.56	50.31	257.73	32.38	89.97	238.04
11400	-0.56	11.55	0.25	58.96	38.64	276.66	26.98	260.75	200.23	159.75	40.92	340.23	42.49	58.11	200.31
11401	-1.68	11.53	0.25	60.16	39.83	277.87	26.40	260.17	203.44	150.06	40.66	336.53	36.49	58.88	203.45
11402	-2.80	11.49	0.25	61.61	41.57	280.78	26.30	258.18	206.82	142.71	40.90	331.12	31.52	60.36	206.66
11403	-3.92	11.42	0.25	63.24	43.80	285.26	26.77	254.83	210.35	137.44	41.67	324.17	27.62	62.70	209.92
11404	-5.03	11.34	0.25	65.03	46.41	291.12	27.87	250.19	214.01	134.01	43.00	315.89	24.97	66.05	213.25
11405	-6.13	11.23	0.25	66.92	49.35	298.12	29.62	244.41	217.78	132.17	44.86	306.55	23.74	70.55	216.66
11406	-7.23	11.10	0.25	68.91	52.55	306.01	32.01	237.64	221.66	131.68	47.23	296.58	24.02	76.33	220.18
11407	-8.31	10.95	0.25	70.98	55.96	314.61	35.00	230.10	225.68	132.29	50.07	286.62	25.76	83.52	223.86
11408	-9.39	10.78	0.25	73.14	59.53	323.79	38.53	222.08	229.87	133.77	53.31	277.65	28.71	92.27	227.78
11409	-10.45	10.60	0.25	75.43	63.22	333.57	42.51	213.93	234.33	135.84	56.92	271.19	32.64	102.73	232.07
11410	-0.58	13.26	0.25	65.86	48.19	307.22	35.14	253.88	186.49	153.24	51.29	370.10	39.76	54.88	186.48
11411	-1.74	13.22	0.25	67.78	49.43	307.85	34.48	253.70	189.76	146.21	51.13	365.10	33.75	57.10	189.59
11412	-2.90	13.15	0.25	69.75	51.20	309.77	34.20	252.20	193.53	141.11	51.38	358.08	28.75	60.75	193.08
11413	-4.05	13.04	0.25	71.72	53.41	312.93	34.40	249.44	197.75	137.67	52.09	349.29	24.88	65.69	196.94
11414	-5.19	12.89	0.25	73.68	55.98	317.25	35.13	245.52	202.37	135.67	53.25	339.05	22.38	71.78	201.14
11415	-6.32	12.71	0.25	75.59	58.80	322.59	36.43	240.59	207.34	134.86	54.87	327.78	21.52	78.90	205.70
11416	-7.44	12.50	0.25	77.47	61.79	328.82	38.30	234.81	212.64	135.02	56.88	316.08	22.39	86.99	210.62
11417	-8.55	12.25	0.25	79.29	64.87	335.87	40.72	228.41	218.23	135.91	59.22	304.79	24.79	96.05	215.91
11418	-9.63	11.97	0.25	81.07	67.95	343.71	43.62	221.65	224.11	137.29	61.82	295.15	28.36	106.15	221.61
11419	-10.69	11.66	0.25	82.76	70.94	352.47	46.90	214.80	230.33	138.86	64.58	288.89	32.80	117.40	227.77
11420	-0.60	14.96	0.25	73.89	61.09	342.82	45.57	248.57	175.83	149.26	65.38	406.51	34.23	50.92	176.63
11421	-1.80	14.91	0.25	76.32	62.32	342.99	44.80	248.90	179.15	144.58	65.21	399.94	28.47	56.00	179.50
11422	-3.00	14.80	0.25	78.63	63.98	344.12	44.30	248.06	183.34	141.37	65.29	391.09	23.68	63.00	183.16
11423	-4.18	14.65	0.25	80.81	65.97	346.22	44.13	246.11	188.30	139.40	65.67	380.33	20.08	71.31	187.57
11424	-5.36	14.45	0.25	82.82	68.19	349.29	44.34	243.16	193.96	138.45	66.35	368.09	18.11	80.50	192.68
11425	-6.52	14.20	0.25	84.68	70.54	353.31	44.97	239.32	200.21	138.30	67.30	354.97	18.13	90.31	198.44
11426	-7.66	13.90	0.25	86.36	72.92	358.26	46.01	234.77	206.95	138.73	68.47	341.77	20.07	100.60	204.78
11427	-8.78	13.55	0.25	87.85	75.20	364.17	47.45	229.66	214.08	139.50	69.76	329.55	23.45	111.34	211.66
11428	-9.87	13.16	0.25	89.11	77.26	371.10	49.25	224.21	221.52	140.31	71.08	319.77	27.78	122.54	218.99
11429	-10.94	12.72	0.25	90.06	79.01	379.18	51.33	218.59	229.17	140.83	72.30	314.29	32.74	134.25	226.69
11430	-0.62	16.66	0.25	81.53	75.95	401.20	58.63	248.89	177.96	146.74	81.88	467.95	26.14	48.37	182.83
11431	-1.86	16.60	0.25	84.33	77.10	401.00	57.67	249.80	181.13	143.87	81.55	459.10	20.70	58.12	184.79
11432	-3.09	16.46	0.25	86.92	78.38	401.41	56.73	249.71	185.27	142.10	81.13	447.66	16.05	69.40	187.77
11433	-4.32	16.27	0.25	89.28	79.75	402.48	55.85	248.67	190.32	141.19	80.70	434.14	12.70	81.42	191.76
11434	-5.52	16.00	0.25	91.36	81.10	404.26	55.07	246.73	196.18	140.89	80.26	419.13	11.58	93.71	196.66
11435	-6.71	15.68	0.25	93.14	82.35	406.76	54.42	243.97	202.69	140.98	79.79	403.41	13.21	106.05	202.37
11436	-7.87	15.29	0.25	94.56	83.40	410.03	53.93	240.46	209.70	141.19	79.25	387.97	16.83	118.27	208.77
11437	-9.01	14.85	0.25	95.54	84.14	414.08	53.64	236.29	217.05	141.22	78.58	374.06	21.53	130.27	215.70
11438	-10.11	14.34	0.25	95.97	84.43	418.92	53.55	231.52	224.57	140.70	77.67	363.23	26.81	141.96	222.99
11439	-11.18	13.78	0.25	95.70	84.16										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
11467	-13.26	11.51	0.25	89.75	80.35	401.96	56.10	205.65	247.42	137.35	73.34	328.36	45.50	161.85	245.54
11468	-11.53	9.49	-1.25	72.72	58.99	362.48	44.35	219.19	246.42	127.94	56.18	275.01	40.61	89.22	244.25
11469	-12.56	9.45	-1.25	78.20	65.12	372.38	51.01	199.14	247.96	138.99	63.10	274.77	46.47	100.76	245.65
11470	-13.58	9.40	-1.25	85.43	72.27	382.85	58.84	189.80	250.54	152.77	71.64	283.13	53.58	116.81	248.27
11471	-11.72	10.48	-1.25	81.60	67.30	373.64	48.35	208.21	239.92	136.94	63.94	287.51	41.88	101.04	237.24
11472	-12.61	10.34	-1.25	86.50	72.95	381.73	54.41	200.11	243.03	146.82	70.50	287.90	47.49	112.15	240.36
11473	-13.51	10.18	-1.25	92.73	79.60	390.76	61.17	193.45	247.22	158.79	78.44	295.55	53.92	126.34	244.72
11474	-11.90	11.47	-1.25	91.60	78.36	387.28	53.77	208.21	234.96	147.39	74.74	303.01	43.58	115.08	231.91
11475	-12.66	11.22	-1.25	95.88	82.78	393.47	58.66	202.75	239.57	155.84	80.04	303.64	48.73	124.94	236.68
11476	-13.42	10.96	-1.25	101.21	88.53	400.94	64.51	198.27	244.98	165.83	86.92	309.91	54.73	137.16	242.37
11477	-0.55	9.88	-1.25	47.33	25.98	275.06	16.35	286.90	227.03	116.18	25.50	335.55	35.12	63.72	227.97
11478	-1.66	9.87	-1.25	48.20	27.20	277.29	16.01	285.59	229.73	107.82	26.21	334.04	31.11	65.58	230.55
11479	-2.77	9.86	-1.25	49.49	29.02	282.03	16.36	282.67	232.30	102.07	27.51	331.08	28.03	66.90	232.91
11480	-3.88	9.84	-1.25	51.16	31.36	288.98	17.48	278.15	234.70	98.72	29.35	326.72	25.97	67.77	235.05
11481	-4.99	9.81	-1.25	53.17	34.13	297.72	19.36	272.06	236.92	97.57	31.67	321.03	24.98	68.38	236.94
11482	-6.09	9.77	-1.25	55.49	37.29	307.81	21.96	264.48	238.93	98.40	34.45	314.12	25.11	69.00	238.58
11483	-7.19	9.72	-1.25	58.13	40.82	318.74	25.19	255.48	240.73	101.04	37.68	306.14	26.33	70.02	239.98
11484	-8.29	9.67	-1.25	61.11	44.73	330.04	29.03	245.23	242.32	105.35	41.39	297.41	28.56	71.93	241.16
11485	-9.38	9.62	-1.25	64.46	49.06	341.30	33.48	233.96	243.75	111.29	45.66	288.49	31.72	75.35	242.19
11486	-10.47	9.55	-1.25	68.32	53.89	352.20	38.60	222.03	245.11	118.86	50.65	280.38	35.79	80.92	243.18
11487	-0.58	11.65	-1.25	54.30	32.37	305.71	22.58	276.94	210.22	115.32	32.10	363.75	35.93	61.57	210.88
11488	-1.73	11.62	-1.25	56.03	33.66	307.21	22.09	275.91	212.99	109.34	32.62	361.06	31.61	63.32	213.54
11489	-2.88	11.58	-1.25	58.00	35.65	310.69	22.15	273.26	215.85	105.64	33.80	356.55	28.27	65.06	216.16
11490	-4.02	11.51	-1.25	60.16	38.22	315.93	22.89	269.05	218.77	104.00	35.62	350.33	25.98	66.87	218.74
11491	-5.16	11.42	-1.25	62.51	41.28	322.61	24.37	263.35	221.74	104.20	38.02	342.54	24.85	68.91	221.28
11492	-6.29	11.31	-1.25	65.02	44.74	330.39	26.61	256.25	224.72	106.07	40.97	333.37	24.96	71.38	223.79
11493	-7.42	11.17	-1.25	67.71	48.57	338.88	29.59	247.91	227.71	109.45	44.44	323.13	26.31	74.57	226.30
11494	-8.53	11.02	-1.25	70.63	52.76	347.72	33.29	238.52	230.70	114.26	48.46	312.32	28.82	78.78	228.83
11495	-9.63	10.85	-1.25	73.85	57.33	356.60	37.71	228.37	233.74	120.50	53.08	301.71	32.39	84.40	231.47
11496	-10.72	10.65	-1.25	77.53	62.33	365.37	42.86	217.83	236.91	128.25	58.41	292.60	36.94	91.82	234.34
11497	-0.60	13.41	-1.25	63.37	42.51	337.95	31.29	266.37	191.62	117.27	43.02	394.67	34.53	57.53	191.80
11498	-1.79	13.37	-1.25	65.74	43.88	338.77	30.71	265.71	194.50	113.60	43.37	390.58	30.25	59.91	194.56
11499	-2.98	13.30	-1.25	68.17	45.99	341.01	30.58	263.52	197.84	111.80	44.40	384.28	26.94	63.01	197.60
11500	-4.16	13.18	-1.25	70.65	48.74	344.51	31.02	259.86	201.58	111.67	46.12	375.95	24.74	66.78	200.90
11501	-5.33	13.03	-1.25	73.18	52.00	349.10	32.11	254.84	205.67	113.02	48.50	365.84	23.79	71.18	204.48
11502	-6.49	12.85	-1.25	75.77	55.70	354.55	33.94	248.58	210.06	115.72	51.50	354.29	24.23	76.24	208.31
11503	-7.64	12.62	-1.25	78.45	59.76	360.63	36.52	241.26	214.69	119.67	55.11	341.79	26.05	82.03	212.42
11504	-8.77	12.37	-1.25	81.30	64.15	367.10	39.89	233.10	219.53	124.87	59.30	329.04	29.13	88.68	216.84
11505	-9.88	12.08	-1.25	84.42	68.84	373.83	44.04	224.41	224.61	131.34	64.10	317.11	33.32	96.41	221.62
11506	-10.97	11.75	-1.25	87.96	73.87	380.80	48.95	215.55	230.02	139.23	69.59	307.55	38.50	105.53	226.89
11507	-0.62	15.18	-1.25	73.93	59.38	374.25	43.87	256.62	174.53	122.30	61.57	430.84	31.34	51.57	174.57
11508	-1.85	15.12	-1.25	76.78	60.84	374.49	43.20	256.46	177.60	120.61	61.72	425.05	27.32	55.99	177.35
11509	-3.08	15.02	-1.25	79.58	63.02	375.56	42.89	254.93	181.56	120.43	62.53	416.67	24.29	61.91	180.85
11510	-4.30	14.86	-1.25	82.32	65.83	377.43	43.02	252.10	186.34	121.57	64.01	405.98	22.46	68.87	185.06
11511	-5.50	14.65	-1.25	85.04	69.14	380.04	43.68	248.09	191.84	123.90	66.16	393.40	22.07	76.53	189.95
11512	-6.69	14.38	-1.25	87.78	72.87	383.30	44.97	243.04	197.94	127.35	68.97	379.43	23.25	84.69	195.47
11513	-7.87	14.07	-1.25	90.60	76.93	387.15	46.94	237.13	204.56	131.88	72.39	364.79	25.91	93.29	201.60
11514	-9.01	13.71	-1.25	93.60	81.25	391.53	49.66	230.61	211.61	137.53	76.39	350.46	29.83	102.40	208.34
11515	-10.13	13.31	-1.25	96.91	85.78	396.47	53.14	223.78	219.11	144.38	80.97	337.79	34.79	112.23	215.73
11516	-11.23	12.86	-1.25	100.70	90.58	402.14	57.44	217.02	227.09	152.62	86.23	328.63	40.66	123.17	223.81
11517	-0.64	16.94	-1.25	85.51	89.81	412.17	62.68	249.63	167.12	130.39	95.29	468.94	27.25	45.10	169.33
11518	-1.91	16.87	-1.25	88.88	91.26	412.05	61.91	250.15	170.30	130.33	94.97	461.35	23.55	53.89	171.65
11519	-3.18	16.74	-1.25	92.16	93.25	412.53	61.37	249.61	174.90	131.53	95.15	451.15	20.98	64.26	175.33
11520	-4.44	16.53	-1.25	95.39	95.72	413.57	61.10	248.09	180.77	133.84	95.87	438.69	19.90	75.39	180.29
11521	-5.68	16.26	-1.25	98.61	98.58	415.26	61.16	245.69	187.77	137.18	97.17	424.52	20.57	86.84	186.46
11522	-6.90	15.92	-1.25	101.91	101.75	417.66	61.63	242.53	195.75	141.51	99.03	409.36	22.94	98.42	193.76
11523	-8.09	15.52	-1.25	105.35	105.13	420.87	62.56	238.80	204.56	146.87	101.43	394.17	26.68	110.15	202.10
11524	-9.25	15.06	-1.25	109.06	108.65	425.04	64.00	234.73	214.11	153.30	104.35	380.23	31.47	122.14	211.41
11525	-10.39	14.54	-1.25	113.15	112.21	430.46	66.02	230.61	224.35	160.92	107.74	369.28	37.10	134.70	221.65
11526	-11.48	13.96	-1.25	117.73	115.77	437.37	68.71	226.79	235.31	169.87	111.62	363.39	43.47	148.29	232.82
11527	-0.66	18.71	-1.25	90.79	141.47	579.53	101.18	280.41	233.11	131.42	153.14	644.95	25.39	50.50	248.57
11528	-1.98	18.62	-1.25	95.75	143.23	579.00	99.92	281.81	235.99	133.76	152.25	632.49	22.75	67.15	248.58
11529	-3.28	18.46	-1.25	101.41	145.37	578.29	98.03	282.44	239.88	137.74	151.67	616.53	20.53	83.97	249.79
11530	-4.58	18.21	-1.25	107.60	147.76	577.54	95.57	282.35	244.80	143.15	151.40	597.83	18.95	100.72	252.29
11531	-5.85	17.87	-1.25	114.18	150.31	576.89	92.66	281.58	250.68	149.82	151.46	577.30	18.36	117.34	256.06
11532	-7.10	17.46	-1.25	120.98	152.86	576.47	89.42	280.20	257.40	157.59	151.84	556.07	19.23	133.84	261.04
11533	-8.32	16.97	-1.25	127.85	155.27	576.47	86.04	278.29	264.86	166.32	152.49	535.56	21.81	150.28	267.14
11534	-9.50	16.41	-1.25	134.63	157.36	577.05	82.79	275.96	272.95	175.88	153.34	517.57	26.08	166.77	274.22
11535	-10.64	15.77	-1.25	141.18	158.97	578.46	80.03	273.34	281.56	186.12	154.31	504.24	31.89	183.48	282.13
11536	-11.73	15.06	-1.25	147.40	159.87	581.09	78.22	270.69	290.72	196.86	155.25	498.13	39.02	200.61	290.87
11537	-16.59	9.55	-												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
11565	6.43	-2.50	1.75	106.79	33.52	187.92	10.57	233.48	201.32	560.87	43.07	203.84	32.53	63.16	201.27
11566	6.39	-3.10	1.75	105.70	33.40	190.44	11.84	233.07	200.49	554.68	44.17	207.03	40.43	63.71	200.42
11567	7.59	-2.50	1.75	121.91	38.11	200.63	10.81	222.36	195.37	648.09	41.27	187.93	33.57	57.45	195.36
11568	7.56	-3.10	1.75	120.73	37.82	202.84	12.22	222.06	194.64	641.37	42.66	191.51	42.17	58.09	194.62
11569	8.76	-2.50	1.75	139.75	44.03	213.09	10.44	209.95	189.37	749.43	39.50	168.28	32.94	49.81	189.49
11570	8.72	-3.10	1.75	138.56	43.54	215.01	12.06	209.80	188.71	742.53	40.53	172.34	31.99	50.37	188.88
11571	9.93	-2.50	1.75	160.85	51.56	224.80	9.30	196.75	183.37	866.13	43.35	148.03	40.24	42.97	183.86
11572	9.88	-3.10	1.75	159.69	50.92	226.50	11.22	196.75	182.77	859.49	42.36	152.35	39.30	42.98	183.46
11573	11.10	-2.50	1.75	185.83	60.99	235.52	7.51	183.55	177.57	998.75	61.19	140.82	25.85	46.98	178.96
11574	11.05	-3.10	1.75	184.69	60.38	237.07	9.71	183.75	176.97	992.60	57.41	144.10	34.25	46.07	178.92
11575	12.27	-2.50	1.75	215.51	72.34	245.36	7.25	171.77	172.49	1146.54	95.23	179.09	22.05	73.87	175.80
11576	12.21	-3.10	1.75	214.19	72.13	246.84	8.80	172.18	171.75	1140.34	90.60	178.80	29.29	72.75	176.48
11577	13.44	-2.50	1.75	251.16	84.76	255.18	13.31	163.68	169.27	1306.83	140.40	292.27	24.11	124.61	176.10
11578	13.37	-3.10	1.75	249.19	85.41	256.66	13.03	164.28	168.23	1298.76	137.59	287.65	31.48	124.00	178.23
11579	14.60	-2.50	1.75	294.78	96.04	267.46	25.56	162.48	170.40	1473.78	184.38	500.16	34.92	195.70	182.03
11580	14.53	-3.10	1.75	291.82	97.21	268.97	24.83	163.17	168.95	1461.94	183.55	491.08	50.19	195.97	186.50
11581	15.77	-2.50	1.75	349.92	101.81	287.20	42.26	169.78	181.65	1639.25	202.90	826.13	48.84	263.04	194.21
11582	15.70	-3.10	1.75	346.27	103.01	288.61	43.74	170.54	179.40	1624.13	202.28	810.77	90.93	264.57	201.96
11583	16.94	-2.50	1.75	425.00	106.21	316.76	55.53	178.64	217.58	1822.17	173.76	1195.10	59.95	239.38	221.30
11584	16.86	-3.10	1.75	425.62	94.86	316.63	59.04	178.24	217.25	1821.28	141.29	1164.11	142.53	244.08	227.92
11585	18.11	-2.50	1.75	553.22	130.25	345.66	76.89	185.45	261.79	2202.80	252.46	1326.89	198.14	183.01	276.52
11586	18.02	-3.10	1.75	572.92	152.89	350.74	96.06	203.17	267.95	2266.92	296.66	1306.85	299.32	187.37	268.53
11587	0.60	-2.50	0.25	51.39	20.94	162.94	4.62	288.24	246.95	225.47	23.05	246.33	16.18	58.88	247.03
11588	0.59	-3.10	0.25	51.27	21.18	166.95	5.61	287.43	245.59	223.73	23.39	249.12	19.90	59.06	245.70
11589	1.79	-2.50	0.25	57.37	21.18	166.78	6.36	286.20	242.10	258.90	25.03	243.81	18.88	55.72	242.17
11590	1.78	-3.10	0.25	57.06	21.41	170.70	7.19	285.38	240.81	256.61	25.40	246.69	23.08	55.99	240.91
11591	2.98	-2.50	0.25	64.42	22.11	174.88	8.32	282.24	237.05	298.67	27.16	238.86	21.83	51.26	237.11
11592	2.97	-3.10	0.25	63.93	22.31	178.56	9.02	281.44	235.83	295.76	27.59	241.88	26.54	51.60	235.92
11593	4.17	-2.50	0.25	72.66	23.82	186.37	10.09	276.40	231.83	345.46	29.14	231.07	24.76	45.95	231.86
11594	4.15	-3.10	0.25	72.01	23.97	189.72	10.73	275.63	230.68	341.90	29.69	234.28	30.05	46.29	230.73
11595	5.36	-2.50	0.25	82.23	26.39	200.23	11.53	268.76	226.44	399.93	30.68	220.02	27.41	41.31	226.43
11596	5.34	-3.10	0.25	81.45	26.47	203.20	12.15	268.04	225.36	395.75	31.40	223.51	33.32	41.39	225.36
11597	6.56	-2.50	0.25	93.28	29.92	215.48	12.53	259.44	220.89	462.65	31.62	205.47	29.45	41.08	220.84
11598	6.53	-3.10	0.25	92.41	29.88	218.06	13.19	258.79	219.89	457.96	32.52	209.32	36.00	40.44	219.82
11599	7.75	-2.50	0.25	105.91	34.55	231.23	12.98	248.67	215.20	533.88	32.21	187.95	30.55	50.38	215.11
11600	7.71	-3.10	0.25	105.00	34.36	233.45	13.73	248.12	214.27	528.89	33.09	192.21	37.68	48.76	214.13
11601	8.94	-2.50	0.25	120.16	40.47	246.75	12.74	236.86	209.42	613.19	33.92	170.66	30.40	71.10	209.34
11602	8.90	-3.10	0.25	119.26	40.12	248.65	13.67	236.43	208.55	608.21	34.20	175.11	37.94	68.72	208.41
11603	10.13	-2.50	0.25	135.88	47.89	261.44	11.64	224.64	203.70	698.86	40.19	164.23	29.04	101.99	203.82
11604	10.08	-3.10	0.25	135.05	47.45	263.08	12.86	224.37	202.83	694.19	38.97	167.93	36.69	99.23	202.95
11605	11.32	-2.50	0.25	152.67	56.92	274.96	9.58	213.00	198.40	787.07	54.50	191.24	27.30	141.08	199.12
11606	11.27	-3.10	0.25	151.85	56.60	276.40	11.23	212.91	197.45	782.67	51.84	192.34	34.86	138.26	198.42
11607	12.52	-2.50	0.25	169.81	67.23	287.28	7.12	203.24	194.31	870.99	76.32	273.68	27.60	184.41	196.32
11608	12.46	-3.10	0.25	168.72	67.44	288.60	9.27	203.30	193.13	866.02	73.83	271.14	35.51	181.66	195.99
11609	13.71	-2.50	0.25	186.41	77.37	299.03	7.75	196.55	192.95	940.85	98.80	419.96	33.11	222.17	196.85
11610	13.64	-3.10	0.25	184.56	78.52	300.27	10.01	196.64	191.42	933.58	98.40	413.70	44.76	219.25	197.08
11611	14.90	-2.50	0.25	202.56	83.98	311.50	12.13	192.80	196.89	987.78	107.16	629.45	41.44	232.49	202.18
11612	14.83	-3.10	0.25	199.63	85.71	312.64	16.57	192.68	195.09	977.17	108.06	618.78	68.11	229.19	202.50
11613	16.09	-2.50	0.25	223.39	81.65	325.00	11.50	188.67	209.58	1020.99	80.84	869.10	34.13	183.29	214.20
11614	16.02	-3.10	0.25	220.08	82.69	326.02	25.34	188.33	207.95	1009.85	80.10	852.77	102.08	180.18	213.25
11615	17.28	-2.50	0.25	269.13	80.02	335.69	26.50	180.90	229.20	1108.46	59.07	1036.56	50.04	144.71	235.88
11616	17.20	-3.10	0.25	271.62	66.75	335.91	34.21	183.19	231.03	1115.24	59.28	1011.04	130.95	142.56	233.21
11617	18.48	-2.50	0.25	387.95	108.30	341.56	83.27	189.86	204.48	1458.88	147.55	986.93	222.99	379.07	209.78
11618	18.39	-3.10	0.25	407.97	142.31	357.94	83.76	219.21	214.53	1542.40	218.57	998.80	261.18	369.08	239.85
11619	0.61	-2.50	-1.25	41.79	15.98	181.33	4.19	312.87	264.04	147.92	16.80	256.80	13.02	57.76	264.20
11620	0.61	-3.10	-1.25	41.72	16.20	185.65	4.76	311.90	262.58	146.99	16.88	260.01	15.93	58.03	262.83
11621	1.82	-2.50	-1.25	46.40	16.09	186.31	6.90	311.16	259.72	173.55	16.58	252.43	15.61	51.29	259.90
11622	1.82	-3.10	-1.25	46.18	16.30	190.50	7.25	310.19	258.32	172.20	16.68	255.76	18.76	51.62	258.59
11623	3.04	-2.50	-1.25	51.86	16.91	196.27	9.59	307.55	255.19	203.98	17.02	245.50	18.49	44.99	255.37
11624	3.03	-3.10	-1.25	51.49	17.11	200.18	9.80	306.58	253.85	202.19	17.14	249.03	21.89	45.22	254.12
11625	4.25	-2.50	-1.25	58.23	18.51	210.20	11.94	302.06	250.46	239.32	18.06	235.72	21.30	41.77	250.62
11626	4.24	-3.10	-1.25	57.75	18.69	213.73	12.08	301.11	249.18	237.10	18.20	239.51	25.03	41.52	249.43
11627	5.47	-2.50	-1.25	65.55	20.99	226.96	13.84	294.76	245.52	279.50	19.61	223.01	23.79	46.26	245.65
11628	5.45	-3.10	-1.25	64.98	21.11	230.08	13.94	293.84	244.30	276.90	19.75	227.14	27.91	45.10	244.49
11629	6.69	-2.50	-1.25	73.79	24.43	245.43	15.20	285.76	240.36	324.10	21.66	208.11	25.74	61.06	240.42
11630	6.66	-3.10	-1.25	73.18	24.46	248.13	15.31	284.88	239.19	321.25	21.71	212.59	30.27	58.97	239.29
11631	7.90	-2.50	-1.25	82.82	28.92	264.62	15.94	275.24	234.97	372.14	24.42	193.87	26.93	84.99	234.94
11632	7.87	-3.10	-1.25	82.21	28.83	266.92	16.10	274.44	233.86	369.25	24.22	198.53	31.86	82.17	233.82
11633	9.12	-2.50	-1.25	92.30	34.59	283.64	15.94	263.51	229.40	421.78	28.54	187.87	27.29	115.91	229.29
11634	9.08	-3.10	-1.25	91.74	34.38	285.58	16.23	262.82	228.31	419.09	27.83	192.02	32.56	112.60	228.14
11635	10.33	-2.50	-1.25	101											



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
11663	-11.10	-2.50	1.75	38.94	44.18	260.09	36.97	189.83	263.78	135.85	34.04	182.65	36.68	61.87	263.64
11664	-11.05	-3.10	1.75	40.54	44.61	260.96	36.81	190.65	262.36	135.95	34.47	184.83	36.35	63.84	262.16
11665	-9.93	-2.50	1.75	38.20	41.02	245.59	32.18	203.66	262.26	139.66	30.71	184.57	32.00	51.13	262.15
11666	-9.88	-3.10	1.75	39.72	41.42	246.62	32.04	214.18	260.78	139.74	31.16	186.91	31.75	53.17	260.62
11667	-8.76	-2.50	1.75	37.84	38.05	230.63	27.66	216.63	260.41	144.40	28.05	190.42	27.68	44.35	260.33
11668	-8.72	-3.10	1.75	39.24	38.43	231.89	27.56	216.89	258.90	144.43	28.52	192.83	27.55	46.29	258.77
11669	-7.59	-2.50	1.75	37.95	35.30	215.39	23.40	228.36	258.15	150.74	26.15	197.94	23.72	41.80	258.09
11670	-7.56	-3.10	1.75	39.21	35.66	216.94	23.34	228.40	256.62	150.68	26.64	200.36	23.79	43.42	256.52
11671	-6.43	-2.50	1.75	38.64	32.77	200.23	19.37	238.63	255.42	159.23	25.11	205.79	20.18	42.85	255.38
11672	-6.39	-3.10	1.75	39.73	33.12	202.10	19.38	238.48	253.88	159.04	25.58	208.21	20.57	44.05	253.82
11673	-5.26	-2.50	1.75	39.99	30.51	185.63	15.58	247.26	252.19	170.39	24.96	213.24	17.23	46.19	252.17
11674	-5.23	-3.10	1.75	40.89	30.83	187.89	15.69	246.96	250.67	170.01	25.41	215.65	18.08	46.98	250.64
11675	-4.09	-2.50	1.75	42.09	28.53	172.26	12.10	254.15	248.47	184.70	25.69	219.86	15.13	50.56	248.47
11676	-4.07	-3.10	1.75	42.77	28.83	174.91	12.35	253.74	246.98	184.07	26.10	222.27	16.61	51.04	246.98
11677	-2.92	-2.50	1.75	44.99	26.88	160.84	9.03	259.25	244.31	202.65	27.21	225.39	14.17	55.11	244.32
11678	-2.91	-3.10	1.75	45.46	27.16	163.88	9.49	258.74	242.86	201.71	27.56	227.80	16.42	55.36	242.88
11679	-1.75	-2.50	1.75	48.75	25.61	152.19	6.58	262.52	239.73	224.79	29.36	229.64	14.54	59.33	239.75
11680	-1.74	-3.10	1.75	48.99	25.87	155.58	7.36	261.94	238.35	223.45	29.66	232.05	17.53	59.45	238.37
11681	-0.58	-2.50	1.75	53.42	24.79	147.03	5.19	263.92	234.82	251.70	31.97	232.42	16.08	62.96	234.84
11682	-0.58	-3.10	1.75	53.44	25.03	150.66	6.31	263.31	233.50	249.88	32.23	234.85	19.74	63.02	233.53
11683	-18.48	-2.50	0.25	37.75	64.75	422.70	71.42	130.27	289.72	58.55	72.20	513.51	72.02	164.51	289.72
11684	-18.39	-3.10	0.25	40.05	65.02	423.51	70.48	132.65	288.18	60.24	71.12	509.47	71.47	165.03	288.19
11685	-17.28	-2.50	0.25	56.55	61.97	380.56	73.18	144.02	283.97	123.38	71.13	392.96	73.04	170.41	283.85
11686	-17.20	-3.10	0.25	58.06	62.71	381.65	72.68	146.12	283.22	123.37	71.10	391.36	72.47	170.67	283.03
11687	-16.09	-2.50	0.25	53.18	57.82	350.36	65.61	146.16	277.83	135.01	61.72	297.00	65.31	134.57	277.67
11688	-16.02	-3.10	0.25	54.85	58.55	351.24	65.33	148.24	276.83	135.02	61.97	296.90	64.86	135.63	276.59
11689	-14.90	-2.50	0.25	47.94	53.55	333.40	57.76	156.01	275.42	134.85	54.16	242.91	57.44	104.63	275.24
11690	-14.83	-3.10	0.25	49.71	54.19	334.11	57.54	157.78	274.25	134.98	54.48	243.81	57.05	106.18	273.98
11691	-13.71	-2.50	0.25	43.41	49.41	319.48	50.64	170.37	274.67	131.25	47.73	213.46	50.36	81.19	274.50
11692	-13.64	-3.10	0.25	45.24	49.99	320.14	50.45	171.73	273.34	131.48	48.06	215.14	50.01	83.09	273.08
11693	-12.52	-2.50	0.25	39.92	45.49	305.81	44.33	186.76	274.47	127.09	42.25	201.04	44.12	63.72	274.32
11694	-12.46	-3.10	0.25	41.75	46.02	306.53	44.14	187.72	273.03	127.39	42.58	203.23	43.81	65.85	272.79
11695	-11.32	-2.50	0.25	37.30	41.81	291.27	38.68	203.55	274.27	123.51	37.50	199.37	38.57	52.05	274.14
11696	-11.27	-3.10	0.25	39.07	42.30	292.14	38.50	204.14	272.73	123.85	37.83	201.85	38.31	54.21	272.53
11697	-10.13	-2.50	0.25	35.39	38.38	275.61	33.55	219.70	273.75	121.17	33.37	203.64	33.57	46.13	273.65
11698	-10.08	-3.10	0.25	37.08	38.84	276.69	33.37	219.98	272.15	121.52	33.70	206.24	33.38	48.07	272.00
11699	-8.94	-2.50	0.25	34.15	35.21	258.96	28.79	234.64	272.76	120.54	29.77	210.60	28.99	45.19	272.70
11700	-8.90	-3.10	0.25	35.72	35.64	260.32	28.62	236.65	271.12	120.87	30.10	213.25	28.91	46.69	271.02
11701	-7.75	-2.50	0.25	33.59	32.30	241.70	24.31	247.99	271.24	122.04	26.68	218.35	24.78	47.45	271.21
11702	-7.71	-3.10	0.25	35.00	32.70	243.40	24.18	247.79	269.59	122.30	27.01	221.01	24.86	48.48	269.53
11703	-6.56	-2.50	0.25	33.77	29.66	224.37	20.06	259.56	269.17	126.05	24.11	225.83	20.93	51.08	269.16
11704	-6.53	-3.10	0.25	34.98	30.03	226.45	19.97	259.19	267.52	126.21	24.45	228.50	21.27	51.72	267.50
11705	-5.36	-2.50	0.25	34.71	27.31	207.64	16.01	269.23	266.56	132.97	22.12	232.52	17.56	54.82	266.57
11706	-5.34	-3.10	0.25	35.69	27.65	210.13	16.01	268.72	264.93	132.96	22.47	235.19	18.27	55.19	264.95
11707	-4.17	-2.50	0.25	36.43	25.26	192.29	12.21	276.96	263.44	143.17	20.81	238.13	14.88	57.95	263.48
11708	-4.15	-3.10	0.25	37.18	25.57	195.22	12.32	276.34	261.85	142.95	21.15	240.80	16.14	58.15	261.90
11709	-2.98	-2.50	0.25	38.93	23.54	179.25	8.73	282.72	259.86	157.07	20.24	242.48	13.23	60.08	259.92
11710	-2.97	-3.10	0.25	39.45	23.83	182.59	9.03	282.02	258.32	156.58	20.59	245.16	15.18	60.20	258.40
11711	-1.79	-2.50	0.25	42.24	22.21	169.48	5.82	286.51	255.88	175.10	20.47	245.41	12.96	61.02	255.95
11712	-1.78	-3.10	0.25	42.53	22.48	173.18	6.41	285.76	254.39	174.27	20.82	248.12	15.61	61.11	254.49
11713	-0.60	-2.50	0.25	46.38	21.31	163.85	4.15	288.35	251.56	197.73	21.46	246.77	14.06	60.64	251.64
11714	-0.59	-3.10	0.25	46.45	21.57	167.79	5.12	287.56	250.13	196.47	21.79	249.51	17.30	60.75	250.24
11715	-18.84	-2.50	-1.25	107.62	73.84	490.92	122.20	185.51	322.98	235.92	121.38	627.58	122.00	283.91	322.95
11716	-18.76	-3.10	-1.25	109.99	75.91	493.19	120.83	187.90	322.24	236.32	121.38	624.71	120.54	283.74	322.21
11717	-17.63	-2.50	-1.25	78.81	63.06	392.01	89.91	140.82	283.61	195.28	81.90	370.36	89.61	163.34	283.47
11718	-17.55	-3.10	-1.25	80.74	64.42	393.21	89.52	143.25	283.02	195.17	82.35	369.80	89.05	164.33	282.82
11719	-16.41	-2.50	-1.25	59.88	56.77	376.25	73.39	143.41	278.80	163.23	67.21	289.74	73.14	111.91	278.62
11720	-16.34	-3.10	-1.25	61.97	57.74	376.93	73.15	145.48	277.69	163.43	67.67	290.13	72.77	113.52	277.41
11721	-15.20	-2.50	-1.25	48.50	51.36	365.10	62.01	158.19	279.35	140.88	57.48	244.62	61.84	80.37	279.15
11722	-15.13	-3.10	-1.25	50.67	52.10	365.63	61.80	159.77	278.01	141.28	57.84	245.99	61.53	82.45	277.71
11723	-13.98	-2.50	-1.25	41.27	46.48	354.15	53.42	177.60	281.28	124.06	50.45	223.16	53.33	60.43	281.09
11724	-13.92	-3.10	-1.25	43.47	47.10	354.70	53.19	178.69	279.76	124.59	50.73	225.26	53.04	62.82	279.48
11725	-12.76	-2.50	-1.25	36.31	42.02	341.19	46.49	198.19	283.21	110.70	44.92	216.42	46.49	50.08	283.06
11726	-12.71	-3.10	-1.25	38.49	42.57	341.87	46.24	198.84	281.58	111.33	45.15	218.98	46.23	52.40	281.34
11727	-11.55	-2.50	-1.25	32.74	37.95	325.93	40.61	218.28	284.65	99.97	40.36	218.18	40.71	48.06	284.53
11728	-11.50	-3.10	-1.25	34.86	38.46	326.83	40.33	218.56	282.93	100.68	40.55	220.98	40.47	49.89	282.74
11729	-10.33	-2.50	-1.25	30.21	34.24	308.62	35.37	236.97	285.39	91.60	36.47	224.06	35.58	51.35	285.31
11730	-10.29	-3.10	-1.25	32.21	34.72	309.81	35.08	236.95	283.62	92.35	36.64	226.97	35.40	52.55	283.49
11731	-9.12	-2.50	-1.25	28.59	30.87	289.79	30.52	253.82	285.38	85.59	33.08	231.38	30.87	56.65	285.33
11732	-9.08	-3.10	-1.25	30.42	31.32	291.32	30.24	253.55	283.58	86.34	33.22	234.34	30.76	57.34	283.51
11733	-7.90	-2.50	-1.25	27.83	27.84	270.09	25.91	268.59	284.62	82.07	30.06	238.69	26.		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
11761	3.90	-6.16	1.75	75.47	29.23	192.26	17.54	245.75	203.61	376.76	45.20	249.32	64.29	70.82	203.47
11762	3.81	-7.25	1.75	72.22	30.53	203.94	20.69	243.51	199.36	355.41	45.70	260.48	72.94	71.60	199.18
11763	5.18	-3.95	1.75	91.14	30.14	183.44	13.00	241.64	204.63	470.23	45.27	223.95	47.71	67.93	204.53
11764	5.11	-5.06	1.75	88.10	30.49	191.44	15.91	240.24	201.96	452.73	46.66	232.33	60.92	69.21	201.80
11765	5.01	-6.16	1.75	84.23	31.21	200.95	19.13	238.54	198.69	430.30	47.66	242.47	73.26	70.76	198.47
11766	4.89	-7.25	1.75	79.72	32.41	211.76	22.51	236.62	194.84	403.38	48.14	254.27	83.75	72.44	194.58
11767	6.34	-3.96	1.75	103.52	33.30	194.89	13.96	232.33	199.02	542.42	45.86	212.75	52.13	64.83	198.91
11768	6.24	-5.06	1.75	99.82	33.36	202.06	17.17	231.19	196.64	521.56	48.07	221.87	67.73	66.76	196.46
11769	6.12	-6.16	1.75	94.93	33.82	210.65	20.76	229.83	193.74	494.10	49.67	232.83	82.76	69.28	193.49
11770	5.98	-7.26	1.75	88.99	34.86	220.54	24.51	228.30	190.35	460.44	50.34	245.48	95.76	72.22	190.06
11771	7.49	-3.96	1.75	118.30	37.42	206.75	14.59	221.53	193.34	627.64	45.00	197.91	55.40	59.50	193.29
11772	7.38	-5.06	1.75	114.00	37.05	213.12	18.25	220.71	191.27	603.47	48.33	208.05	73.83	62.11	191.17
11773	7.23	-6.17	1.75	108.05	37.13	220.85	22.37	219.75	188.79	570.45	50.98	220.10	92.39	65.81	188.63
11774	7.07	-7.26	1.75	100.48	37.91	229.85	26.69	218.69	185.91	528.73	52.17	233.90	108.95	70.45	185.72
11775	8.64	-3.96	1.75	135.99	42.76	218.46	14.79	209.51	187.59	727.88	42.87	179.56	56.61	51.77	187.80
11776	8.51	-5.07	1.75	131.23	41.79	224.12	19.02	209.07	185.86	700.97	47.14	190.93	78.22	54.78	186.06
11777	8.35	-6.17	1.75	124.24	41.26	231.08	23.89	208.56	183.84	662.25	51.26	204.33	101.39	59.66	184.01
11778	8.15	-7.26	1.75	114.84	41.60	239.31	29.04	208.03	181.56	611.09	53.47	219.53	123.06	66.40	181.71
11779	9.79	-3.96	1.75	157.14	49.74	229.57	14.38	196.75	181.79	844.85	42.09	160.09	54.75	43.44	182.70
11780	9.64	-5.07	1.75	152.17	48.00	234.67	19.29	196.75	180.39	816.56	44.98	172.33	79.42	45.48	181.44
11781	9.46	-6.17	1.75	144.35	46.53	241.02	25.13	196.71	178.91	772.95	50.21	186.83	108.36	50.47	179.94
11782	9.24	-7.26	1.75	133.00	46.11	248.63	31.52	196.69	177.33	711.36	54.08	203.31	137.44	59.19	178.29
11783	10.94	-3.96	1.75	182.24	59.00	239.89	13.27	184.09	176.04	978.93	51.46	150.19	49.35	44.22	178.68
11784	10.78	-5.07	1.75	177.47	56.47	244.60	18.81	184.56	174.88	951.60	46.42	160.44	75.72	41.79	178.01
11785	10.57	-6.17	1.75	169.37	53.60	250.52	25.75	184.98	173.97	905.84	48.48	173.48	110.91	41.75	176.99
11786	10.33	-7.26	1.75	156.22	51.79	257.73	33.89	185.36	173.27	834.31	53.76	189.25	150.53	48.84	175.90
11787	12.10	-3.96	1.75	211.60	71.23	249.55	11.96	172.89	170.64	1127.43	81.31	178.56	42.18	69.72	177.20
11788	11.91	-5.07	1.75	207.28	68.51	254.09	17.48	173.91	169.45	1103.57	65.41	179.51	66.29	62.94	177.37
11789	11.69	-6.18	1.75	200.04	63.85	259.82	25.20	174.77	168.99	1061.81	52.49	182.92	105.51	52.08	176.56
11790	11.42	-7.26	1.75	186.10	59.48	266.84	35.65	175.30	169.36	985.08	53.10	190.32	159.05	43.48	175.44
11791	13.25	-3.96	1.75	245.24	86.43	259.42	13.51	165.43	166.54	1282.21	132.48	279.20	41.38	121.67	180.85
11792	13.05	-5.08	1.75	240.54	85.77	264.03	16.19	167.11	164.59	1260.56	116.21	266.08	55.53	114.42	182.65
11793	12.80	-6.18	1.75	235.80	80.01	269.80	22.91	168.47	163.99	1232.86	83.97	250.73	88.72	98.01	181.68
11794	12.50	-7.26	1.75	224.19	71.18	276.78	35.57	168.82	165.47	1166.26	58.75	236.19	156.12	70.16	178.97
11795	14.40	-3.96	1.75	283.40	101.95	271.83	24.42	164.80	166.21	1428.25	192.99	474.70	65.87	195.78	192.33
11796	14.18	-5.08	1.75	274.00	108.32	276.63	20.98	167.27	162.30	1392.97	200.07	447.78	63.25	190.32	196.86
11797	13.91	-6.18	1.75	272.21	106.22	282.54	19.76	169.39	159.71	1387.82	168.70	411.07	64.72	172.29	196.43
11798	13.59	-7.26	1.75	270.00	92.03	289.49	31.50	169.75	161.26	1367.18	100.78	365.25	130.09	134.62	191.00
11799	15.55	-3.96	1.75	327.25	111.74	291.82	48.06	173.29	175.69	1544.35	232.36	786.28	139.80	273.03	211.44
11800	15.32	-5.08	1.75	302.20	128.63	296.61	44.38	176.99	168.96	1447.76	288.73	744.81	130.99	275.29	215.84
11801	15.03	-6.18	1.75	298.04	142.08	301.89	26.71	179.69	160.95	1453.27	309.03	685.17	65.40	253.96	214.04
11802	14.68	-7.26	1.75	316.04	132.25	308.11	22.80	181.34	157.45	1541.68	230.62	605.36	73.68	209.75	212.38
11803	16.70	-3.96	1.75	379.68	110.74	321.45	89.26	186.59	208.26	1613.98	218.67	1131.27	292.85	283.57	234.36
11804	16.45	-5.08	1.75	314.22	139.78	327.55	88.31	195.51	202.31	1344.34	325.04	1074.30	173.16	329.03	233.24
11805	16.14	-6.18	1.75	295.50	157.42	327.97	59.21	196.49	186.89	1315.29	389.93	988.81	233.43	308.83	211.58
11806	15.77	-7.27	1.75	346.01	182.63	330.83	27.50	199.65	163.34	1597.19	430.93	894.87	26.04	234.95	203.25
11807	17.86	-3.96	1.75	406.90	187.06	377.97	155.12	205.26	347.60	1533.94	376.54	1231.63	501.49	192.23	347.90
11808	17.59	-5.08	1.75	269.50	130.00	391.08	82.18	208.79	323.33	969.94	223.82	1100.36	208.96	323.92	320.58
11809	17.25	-6.19	1.75	257.51	122.13	381.83	78.32	212.90	293.37	942.81	203.76	993.83	185.86	344.23	294.50
11810	16.85	-7.27	1.75	331.22	146.38	355.49	52.96	199.39	242.86	1408.27	338.39	924.25	103.90	198.06	252.12
11811	0.59	-3.95	0.25	51.06	21.64	173.92	7.11	285.93	243.14	220.54	23.99	254.08	25.02	59.36	243.32
11812	0.58	-5.05	0.25	50.86	22.47	184.78	9.21	283.56	239.15	215.47	25.03	262.06	31.30	59.79	239.41
11813	0.57	-6.15	0.25	50.80	23.64	197.42	11.50	280.63	234.21	209.28	26.40	271.75	36.98	60.19	234.54
11814	0.56	-7.25	0.25	51.05	25.24	211.52	14.03	277.19	228.35	202.15	28.15	283.04	41.84	60.48	228.72
11815	1.76	-3.95	0.25	56.49	21.84	177.51	8.53	283.88	238.48	252.34	26.03	251.81	28.92	56.46	238.65
11816	1.74	-5.05	0.25	55.70	22.64	188.15	10.52	281.50	234.69	245.51	27.07	260.06	36.15	57.18	234.92
11817	1.71	-6.15	0.25	54.89	23.78	200.55	12.77	278.57	229.99	237.11	28.38	270.04	42.73	57.96	230.29
11818	1.67	-7.25	0.25	54.25	25.37	214.39	15.30	275.13	224.41	227.33	30.00	281.66	48.35	58.71	224.73
11819	2.94	-3.95	0.25	63.02	22.71	184.97	10.21	279.96	233.63	290.28	28.30	247.24	33.20	52.24	233.76
11820	2.90	-5.06	0.25	61.64	23.46	195.04	12.10	277.63	230.04	281.42	29.42	255.87	41.56	53.29	230.23
11821	2.84	-6.16	0.25	60.06	24.57	206.82	14.32	274.76	225.61	270.38	30.72	266.28	49.24	54.56	225.82
11822	2.78	-7.25	0.25	58.46	26.13	220.01	16.84	271.40	220.34	257.42	32.21	278.36	59.79	55.95	220.55
11823	4.12	-3.95	0.25	70.78	24.30	195.56	11.85	274.22	228.61	335.10	30.57	240.00	37.65	46.98	228.68
11824	4.06	-5.06	0.25	68.82	24.97	204.81	13.71	271.98	225.25	323.95	31.89	249.17	47.39	48.24	225.34
11825	3.98	-6.16	0.25	66.44	26.01	215.69	15.95	269.24	221.10	309.84	33.27	260.19	56.45	49.98	221.19
11826	3.89	-7.25	0.25	63.81	27.53	227.94	18.54	266.05	216.18	293.08	34.70	272.90	64.22	52.11	216.22
11827	5.29	-3.95	0.25	79.93	26.67	208.40	13.29	266.72	223.44	387.61	32.56	229.72	42.01	41.72	223.43
11828	5.22	-5.06	0.25	77.42	27.18	216.69	15.21	264.63	220.32	373.99	34.26	239.63	53.42	42.69	220.28
11829	5.12	-6.16	0.25	74.21	28.10	226.51	17.59	262.08	216.48	356.39	35.89	251.47	64.26	44.51	216.39
11830	5.01	-7.25	0.25	70.47	29.55	237.64	20.34	259.12	211.95	335.12	37.35	265.03	73.65	47.26	211.76
11831															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
11859	14.70	-3.96	0.25	189.63	92.86	314.99	21.60	192.29	191.94	942.01	124.46	599.95	93.02	220.80	203.25
11860	14.49	-5.08	0.25	179.56	103.08	319.08	19.75	192.95	186.74	906.95	146.77	569.08	90.41	209.64	205.36
11861	14.22	-6.18	0.25	182.61	103.93	324.21	17.77	195.82	181.72	917.65	136.30	526.95	74.69	200.59	207.36
11862	13.91	-7.26	0.25	192.53	91.70	330.18	25.81	198.24	181.28	947.27	90.55	472.09	106.20	183.07	204.86
11863	15.88	-3.96	0.25	193.94	96.41	328.52	43.03	185.25	205.74	922.11	115.69	826.10	169.87	166.78	212.89
11864	15.65	-5.08	0.25	160.81	121.38	332.63	39.64	182.27	200.21	813.07	186.28	782.88	164.08	148.32	214.37
11865	15.36	-6.18	0.25	161.20	138.24	337.79	16.64	186.48	188.94	823.78	228.42	726.21	80.88	144.66	221.73
11866	15.02	-7.26	0.25	197.72	127.63	345.19	19.75	198.13	180.46	959.43	177.69	656.72	53.22	157.64	232.07
11867	17.05	-3.96	0.25	201.02	90.04	341.49	82.43	170.19	236.37	885.16	79.08	982.96	299.58	144.14	236.09
11868	16.81	-5.08	0.25	106.81	133.53	346.97	73.02	151.98	236.45	581.75	183.82	930.50	274.13	156.35	239.40
11869	16.50	-6.18	0.25	91.37	155.87	348.75	23.38	150.92	219.36	544.45	249.56	853.85	108.74	155.96	232.16
11870	16.13	-7.26	0.25	174.67	171.53	358.73	28.74	179.24	188.47	862.04	303.70	789.76	44.39	137.46	250.51
11871	18.23	-3.96	0.25	180.12	191.56	334.02	135.07	144.99	303.25	735.08	279.39	858.80	497.68	339.80	358.03
11872	17.96	-5.08	0.25	26.06	117.41	315.64	38.27	95.82	245.85	69.27	97.67	676.56	147.36	331.56	289.28
11873	17.64	-6.18	0.25	34.35	100.64	322.92	32.61	100.82	232.08	32.35	106.07	610.50	107.03	314.14	259.33
11874	17.25	-7.27	0.25	113.40	132.77	331.34	69.17	116.88	227.86	545.47	118.31	621.62	223.58	277.03	234.94
11875	0.60	-3.95	-1.25	41.61	16.61	193.13	5.71	310.11	259.96	145.27	17.08	265.68	19.99	58.51	260.35
11876	0.59	-5.05	-1.25	41.60	17.36	204.83	7.14	307.25	255.69	142.56	17.57	274.78	25.03	59.22	256.27
11877	0.58	-6.15	-1.25	41.83	18.40	218.48	8.81	303.69	250.40	139.30	18.42	285.77	29.68	59.98	251.17
11878	0.57	-7.25	-1.25	42.46	19.83	233.76	10.77	298.45	244.07	135.64	19.71	298.50	33.75	60.70	245.01
11879	1.80	-3.95	-1.25	45.78	16.71	197.78	7.89	308.38	255.81	169.68	16.93	261.67	23.24	52.23	256.22
11880	1.77	-5.05	-1.25	45.26	17.45	209.17	9.00	305.50	251.71	165.64	17.52	271.14	28.92	53.23	252.33
11881	1.74	-6.15	-1.25	44.83	18.50	222.49	10.44	301.91	246.63	160.69	18.50	282.55	34.19	54.42	247.44
11882	1.71	-7.25	-1.25	44.68	19.93	237.40	12.24	297.65	240.55	154.99	19.94	295.72	38.81	55.72	241.51
11883	3.00	-3.95	-1.25	50.82	17.50	206.99	10.24	304.78	251.45	198.80	17.45	255.28	26.87	45.72	251.86
11884	2.96	-5.06	-1.25	49.83	18.23	217.70	11.09	301.91	247.52	193.28	18.16	265.27	33.30	46.68	248.14
11885	2.91	-6.16	-1.25	48.75	19.28	230.27	12.33	298.35	242.66	186.38	19.27	277.25	39.35	48.06	243.46
11886	2.84	-7.25	-1.25	47.78	20.75	244.37	13.97	294.13	236.85	178.30	20.84	291.02	44.65	49.83	237.78
11887	4.20	-3.95	-1.25	56.83	19.05	219.91	12.39	299.34	246.88	232.81	18.58	246.22	30.61	41.24	247.27
11888	4.14	-5.06	-1.25	55.39	19.74	229.68	13.10	296.52	243.14	225.71	19.43	256.91	37.99	41.26	243.71
11889	4.07	-6.16	-1.25	53.67	20.78	241.19	14.21	293.03	238.51	216.64	20.70	269.66	45.04	42.00	239.25
11890	3.98	-7.25	-1.25	51.85	22.25	254.16	15.78	288.91	232.99	205.82	22.38	284.21	51.27	43.66	233.82
11891	5.40	-3.95	-1.25	63.87	21.39	235.53	14.20	292.13	242.11	271.78	20.18	234.44	34.21	43.16	242.42
11892	5.32	-5.06	-1.25	62.02	21.98	244.23	14.85	289.40	238.56	263.09	21.20	246.00	42.77	40.72	239.03
11893	5.23	-6.16	-1.25	59.67	22.96	254.51	15.95	286.03	234.19	251.70	22.67	259.69	51.14	38.99	234.79
11894	5.12	-7.25	-1.25	56.96	24.41	266.14	17.56	282.04	229.00	237.81	24.48	275.21	58.60	38.85	229.64
11895	6.60	-3.95	-1.25	71.92	24.59	252.85	15.58	283.26	237.12	315.47	22.12	220.51	37.40	55.13	237.29
11896	6.51	-5.06	-1.25	69.74	24.99	260.42	16.27	280.66	233.78	305.38	23.31	232.99	47.38	49.41	234.05
11897	6.39	-6.16	-1.25	66.79	25.82	269.41	17.47	277.44	229.71	291.69	25.06	247.68	57.45	43.46	230.05
11898	6.26	-7.26	-1.25	63.18	27.21	279.61	19.26	273.65	224.89	274.45	27.07	264.22	66.58	38.84	225.23
11899	7.80	-3.96	-1.25	80.90	28.75	270.94	16.46	272.94	231.89	363.17	24.39	206.76	39.85	76.79	231.86
11900	7.69	-5.06	-1.25	78.51	28.85	277.41	17.30	270.53	228.78	352.13	25.64	214.73	51.46	68.16	228.75
11901	7.56	-6.16	-1.25	75.06	29.41	285.11	18.75	267.50	225.05	336.43	27.74	234.99	63.64	57.85	225.01
11902	7.40	-7.26	-1.25	70.55	30.64	293.89	20.88	263.91	220.68	315.84	30.07	252.20	75.02	47.35	220.58
11903	9.00	-3.96	-1.25	90.50	34.06	288.94	16.78	261.50	226.43	413.23	27.32	199.39	41.31	106.06	226.17
11904	8.87	-5.07	-1.25	88.09	33.75	294.41	17.91	259.34	223.54	402.08	28.19	211.20	54.56	95.08	223.15
11905	8.72	-6.17	-1.25	84.36	33.86	300.91	19.75	256.55	220.20	385.21	30.60	225.38	69.21	80.97	219.69
11906	8.53	-7.26	-1.25	79.05	34.78	308.33	22.42	253.17	216.40	361.70	33.42	241.75	83.56	64.75	215.73
11907	10.20	-3.96	-1.25	100.07	40.79	306.14	16.52	249.39	220.80	462.55	31.88	210.73	41.85	140.36	220.45
11908	10.06	-5.07	-1.25	97.95	40.01	310.73	18.08	247.59	218.07	452.50	31.44	217.84	56.34	127.75	217.44
11909	9.88	-6.17	-1.25	94.33	39.46	316.18	20.43	245.12	215.16	436.14	33.65	227.05	73.49	110.54	214.20
11910	9.67	-7.26	-1.25	88.55	39.81	322.38	23.84	241.94	212.05	411.10	37.10	238.81	91.57	89.10	210.78
11911	11.40	-3.96	-1.25	108.48	49.28	321.87	15.69	237.08	215.21	506.06	39.58	255.52	42.37	174.94	215.28
11912	11.24	-5.07	-1.25	106.92	48.21	325.76	17.83	235.81	212.47	498.38	36.89	254.05	56.96	161.81	212.19
11913	11.05	-6.17	-1.25	104.11	46.79	330.39	20.74	233.85	209.92	485.27	37.37	253.09	75.71	142.98	209.01
11914	10.81	-7.26	-1.25	98.62	46.12	335.59	25.04	230.94	207.65	461.85	41.10	254.00	97.94	117.50	206.04
11915	12.60	-3.96	-1.25	113.97	59.68	335.51	14.54	224.63	210.21	537.09	51.14	340.17	45.53	200.08	211.61
11916	12.42	-5.07	-1.25	112.94	59.14	338.95	17.28	224.12	207.09	531.80	47.46	328.78	58.05	187.89	208.62
11917	12.21	-6.17	-1.25	111.93	58.86	343.07	20.65	223.17	204.60	525.62	43.91	314.89	75.38	170.50	205.39
11918	11.95	-7.26	-1.25	108.32	54.44	347.62	25.81	220.92	203.21	509.79	45.80	299.65	100.99	144.43	202.50
11919	13.80	-3.96	-1.25	114.57	71.30	346.32	14.37	210.98	206.92	550.57	63.62	457.86	56.48	198.92	210.25
11920	13.61	-5.07	-1.25	112.75	73.58	349.54	16.90	211.17	202.90	543.39	65.42	437.19	64.17	188.21	208.21
11921	13.37	-6.18	-1.25	114.51	71.42	353.62	20.28	212.19	199.61	546.94	58.67	411.75	73.19	177.10	205.87
11922	13.09	-7.26	-1.25	115.85	66.13	358.14	25.86	212.04	198.68	548.84	53.17	380.54	98.08	158.51	202.82
11923	15.00	-3.96	-1.25	109.72	81.50	352.70	19.52	193.31	207.06	552.30	68.31	585.45	81.15	153.51	210.89
11924	14.79	-5.08	-1.25	102.37	91.23	355.78	18.91	192.65	202.06	529.34	87.25	555.00	83.66	141.17	210.78
11925	14.53	-6.18	-1.25	106.52	92.82	360.45	20.13	196.69	196.24	539.43	87.97	522.24	72.16	139.97	213.07
11926	14.22	-7.26	-1.25	118.23	83.88	366.28	25.84	202.38	193.99	573.49	69.67	483.58	85.65	142.12	213.04
11927	16.20	-3.96	-1.25	103.68	86.17	351.59	35.26	169.20	212.14	572.25	60.74	681.09	118.55	115.59	213.77
11928	15.97	-5.08	-1.25	79.36	108.94	353.78	29.89	161.55	208.19	506.88	99.23	635.24	121.06	117.67	214.97
11929	15.70	-6.18	-1.25												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
11957	-12.80	-6.18	1.75	54.52	55.19	295.93	45.40	175.17	254.86	128.65	45.53	217.82	42.80	105.47	253.93
11958	-12.50	-7.26	1.75	59.32	57.00	299.73	44.55	180.62	249.73	129.34	47.00	224.19	40.69	110.15	248.49
11959	-12.10	-3.96	1.75	44.39	48.73	276.40	41.53	178.88	261.36	132.43	39.02	193.29	40.59	80.77	260.98
11960	-11.91	-5.07	1.75	48.58	50.03	278.83	41.00	182.19	257.45	132.81	40.20	198.84	39.35	85.39	256.84
11961	-11.69	-6.18	1.75	53.15	51.62	281.94	40.42	186.07	252.72	133.31	41.69	205.78	37.78	90.46	251.85
11962	-11.42	-7.26	1.75	57.92	53.47	285.85	39.88	190.37	247.28	133.91	43.49	214.14	35.88	95.69	246.11
11963	-10.94	-3.96	1.75	43.23	45.34	262.54	36.50	192.14	259.81	136.12	35.21	188.81	35.69	67.15	259.48
11964	-10.78	-5.07	1.75	47.28	46.60	265.23	36.08	194.54	255.69	136.45	36.52	195.30	34.63	72.11	255.16
11965	-10.57	-6.17	1.75	51.74	48.16	268.66	35.70	197.36	250.71	136.89	38.19	203.26	33.29	77.51	249.94
11966	-10.33	-7.26	1.75	56.41	50.01	272.92	35.43	200.52	244.99	137.43	40.24	212.67	31.67	83.06	243.94
11967	-9.79	-3.96	1.75	42.27	42.13	248.49	31.79	205.14	258.13	139.86	31.97	191.19	31.25	56.56	257.86
11968	-9.64	-5.07	1.75	46.14	43.34	251.64	31.49	206.70	253.84	140.11	33.38	198.10	30.45	61.61	253.40
11969	-9.46	-6.17	1.75	50.42	44.86	255.60	31.29	208.53	248.66	140.45	35.18	206.52	29.42	67.06	248.01
11970	-9.24	-7.26	1.75	54.95	46.68	260.45	31.29	210.59	242.70	140.87	37.38	216.39	28.17	72.64	241.81
11971	-8.64	-3.96	1.75	41.62	39.11	234.16	27.38	217.37	256.17	144.46	29.37	197.20	27.29	49.50	255.96
11972	-8.51	-5.07	1.75	45.24	40.27	237.93	27.22	218.18	251.77	144.56	30.84	204.26	26.86	54.26	251.43
11973	-8.35	-6.17	1.75	49.29	41.74	242.63	27.22	219.13	246.45	144.71	32.72	212.83	26.27	59.39	245.93
11974	-8.15	-7.26	1.75	53.61	43.53	248.28	27.49	220.20	240.31	144.92	35.03	222.83	25.51	64.65	239.50
11975	-7.49	-3.96	1.75	41.36	36.30	219.70	23.26	228.48	253.85	150.55	27.51	204.75	23.88	46.14	253.79
11976	-7.37	-5.07	1.75	44.68	37.41	224.25	23.27	228.64	249.39	150.39	29.00	211.83	23.99	50.20	249.14
11977	-7.23	-6.17	1.75	48.43	38.83	229.84	23.50	228.82	243.99	150.24	30.91	220.40	24.02	54.62	243.60
11978	-7.07	-7.26	1.75	52.49	40.58	236.49	24.07	229.01	237.74	150.08	33.26	230.40	23.90	59.18	237.20
11979	-6.34	-3.96	1.75	41.61	33.72	205.45	19.43	238.22	251.11	158.67	26.44	212.58	21.17	46.07	251.02
11980	-6.24	-5.06	1.75	44.55	34.78	210.90	19.66	237.84	246.65	158.13	27.90	219.63	22.04	49.16	246.48
11981	-6.12	-6.16	1.75	47.93	36.14	217.53	20.18	237.36	241.22	157.51	29.79	228.16	22.87	52.58	240.96
11982	-5.98	-7.26	1.75	51.65	37.85	225.30	21.10	236.81	234.93	156.82	32.12	238.11	23.54	56.17	234.55
11983	-5.18	-3.95	1.75	42.45	31.40	191.88	15.92	246.42	247.93	169.31	26.21	220.00	19.41	48.33	247.88
11984	-5.11	-5.06	1.75	44.94	32.40	198.32	16.46	245.59	243.51	168.23	27.60	227.00	21.25	50.43	243.42
11985	-5.01	-6.16	1.75	47.88	33.71	206.07	17.34	244.58	238.12	166.96	29.41	235.49	23.02	52.78	237.97
11986	-4.89	-7.25	1.75	51.18	35.37	215.04	18.66	243.40	231.86	165.53	31.66	245.40	24.56	55.28	231.63
11987	-4.03	-3.95	1.75	43.99	29.36	179.58	12.84	252.98	244.31	182.92	26.82	226.59	18.85	51.84	244.30
11988	-3.97	-5.06	1.75	45.97	30.31	187.04	13.77	251.80	239.97	181.13	28.09	233.56	21.80	53.11	239.95
11989	-3.90	-6.16	1.75	48.38	31.57	195.93	15.09	250.35	234.68	179.00	29.76	242.02	24.55	54.52	234.62
11990	-3.81	-7.25	1.75	51.18	33.18	206.10	16.85	248.67	228.51	176.56	31.86	251.90	26.92	56.02	228.40
11991	-2.88	-3.95	1.75	46.30	27.66	169.22	10.33	257.82	240.27	199.98	28.19	232.11	19.64	55.78	240.29
11992	-2.84	-5.06	1.75	47.72	28.55	177.65	11.75	256.36	236.07	197.28	29.31	239.06	23.68	56.44	236.09
11993	-2.78	-6.16	1.75	49.52	29.76	187.61	13.55	254.59	230.92	194.03	30.79	247.52	27.36	57.14	230.93
11994	-2.72	-7.25	1.75	51.72	31.34	198.89	15.74	252.52	224.90	190.31	32.69	257.41	30.49	57.83	224.87
11995	-1.73	-3.95	1.75	49.44	26.34	161.48	8.65	260.90	235.86	221.00	30.19	236.36	21.68	59.64	235.90
11996	-1.70	-5.05	1.75	50.27	27.19	170.74	10.59	259.25	231.82	217.15	31.15	243.33	26.74	59.90	231.87
11997	-1.67	-6.15	1.75	51.41	28.35	181.58	12.82	257.23	226.86	212.50	32.43	251.81	31.28	60.12	226.91
11998	-1.63	-7.25	1.75	52.92	29.89	193.78	15.35	254.88	221.04	207.13	34.08	261.74	35.12	60.23	221.07
11999	-0.58	-3.95	1.75	53.50	25.47	156.96	8.00	262.19	231.13	246.54	32.67	239.19	24.73	63.08	231.17
12000	-0.57	-5.05	1.75	53.71	26.28	166.78	10.33	260.42	227.28	241.28	33.48	246.18	30.78	63.13	227.31
12001	-0.56	-6.15	1.75	54.13	27.40	178.23	12.86	258.25	222.55	234.88	34.54	254.73	36.18	63.09	222.61
12002	-0.54	-7.25	1.75	54.86	28.90	191.04	15.62	255.72	216.97	227.47	35.94	264.76	40.73	62.88	217.02
12003	-18.23	-3.97	0.24	43.47	65.95	425.25	69.66	136.52	288.01	63.10	70.76	502.11	71.22	165.64	288.03
12004	-17.96	-5.09	0.23	47.97	67.58	428.30	67.90	142.27	286.19	66.99	69.95	491.13	70.17	166.59	286.20
12005	-17.63	-6.19	0.23	52.63	69.39	432.22	65.54	149.17	283.13	71.24	68.82	478.98	68.33	168.17	283.12
12006	-17.24	-7.27	0.24	57.65	70.52	436.57	62.77	157.11	278.45	76.01	66.62	465.69	66.23	170.40	278.44
12007	-17.05	-3.96	0.24	60.64	64.09	383.63	71.91	149.87	281.72	123.63	71.17	387.94	71.54	171.04	281.42
12008	-16.80	-5.09	0.23	64.45	66.33	386.95	70.73	155.82	279.49	124.26	71.71	382.97	69.99	171.91	279.02
12009	-16.49	-6.19	0.23	68.52	68.81	391.15	68.98	162.75	276.43	124.95	72.07	377.93	67.64	173.21	275.76
12010	-16.13	-7.27	0.24	72.91	71.34	396.22	66.55	170.46	272.44	125.87	72.03	373.08	64.52	174.78	271.56
12011	-15.87	-3.96	0.24	57.66	59.80	352.89	64.81	151.98	275.07	135.19	62.42	296.44	64.01	137.34	274.68
12012	-15.64	-5.08	0.23	61.90	61.89	355.68	63.97	157.84	272.20	135.63	63.36	296.08	62.57	140.09	271.58
12013	-15.36	-6.18	0.23	66.51	64.38	359.17	62.77	164.61	268.65	136.18	64.43	296.35	60.53	143.40	267.76
12014	-15.02	-7.27	0.24	71.36	67.22	363.50	61.31	172.04	264.57	136.78	65.70	297.55	58.00	146.99	263.40
12015	-14.70	-3.96	0.24	52.71	55.31	335.47	57.12	160.98	272.14	135.25	55.01	245.35	56.27	108.73	271.71
12016	-14.48	-5.08	0.24	57.20	57.21	337.81	56.45	166.01	268.74	135.82	56.06	248.13	54.98	112.69	268.05
12017	-14.22	-6.18	0.24	62.11	59.57	340.71	55.61	171.80	264.63	136.54	57.42	251.97	53.26	117.27	263.64
12018	-13.91	-7.26	0.24	67.22	62.34	344.32	54.68	178.18	259.97	137.36	59.14	257.03	51.15	122.16	258.67
12019	-13.52	-3.96	0.24	48.30	50.99	321.42	50.06	174.23	270.97	131.87	48.62	218.18	49.31	86.23	270.54
12020	-13.32	-5.08	0.24	52.89	52.73	323.63	49.49	178.17	267.13	132.60	49.72	223.27	48.15	91.04	266.45
12021	-13.08	-6.18	0.24	57.90	54.93	326.35	48.83	182.73	262.52	133.54	51.19	229.65	46.67	96.45	261.53
12022	-12.79	-7.26	0.24	63.11	57.57	329.69	48.18	187.77	257.27	134.66	53.08	237.36	44.85	102.14	255.96
12023	-12.35	-3.96	0.24	44.79	46.94	307.90	43.77	189.50	270.44	127.87	43.15	207.24	43.19	69.37	270.06
12024	-12.17	-5.08	0.24	49.35	48.54	310.25	43.25	192.35	266.27	128.73	44.25	213.78	42.18	74.65	265.65
12025	-11.94	-6.18	0.24	54.33	50.59	313.12	42.70	195.63	261.23	129.86	45.76	221.72	40.90	80.49	260.33
12026	-11.68	-7.26	0.24	59.54	53.10	316.62	42.24	199.27	255.47	131.24	47.71	231.00	39.35	86.56	254.26
12027	-11.17	-3.96	0.25	42.04	43.16	293.75	38.14	205.27	269.99	124.40	38.41	20			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
12055	-2.94	-3.95	0.25	40.39	24.37	188.45	9.58	280.76	255.55	155.65	21.23	249.94	18.02	60.38	255.67
12056	-2.90	-5.06	0.25	41.98	25.32	197.70	10.58	278.75	251.05	154.23	22.37	257.64	21.66	60.65	251.23
12057	-2.84	-6.16	0.25	44.04	26.61	208.59	11.96	276.26	245.51	152.64	23.92	266.93	25.03	60.89	245.73
12058	-2.78	-7.25	0.25	46.57	28.31	220.87	13.77	273.32	238.97	150.92	25.96	277.67	27.99	61.04	239.22
12059	-1.76	-3.95	0.25	43.07	22.98	179.63	7.42	284.38	251.72	172.72	21.44	252.92	19.31	61.24	251.87
12060	-1.74	-5.05	0.25	44.07	23.88	189.74	8.99	282.19	247.38	170.33	22.56	260.66	23.87	61.42	247.60
12061	-1.71	-6.15	0.25	45.45	25.12	201.58	10.87	279.48	242.01	167.50	24.07	270.03	28.03	61.53	242.30
12062	-1.67	-7.25	0.25	47.29	26.77	214.85	13.09	276.28	235.66	164.35	26.05	280.90	31.63	61.51	236.00
12063	-0.59	-3.95	0.25	46.61	22.04	174.63	6.55	286.10	247.57	194.18	22.40	254.37	21.73	60.93	247.74
12064	-0.58	-5.05	0.25	47.01	22.91	185.30	8.56	283.79	243.39	190.58	23.48	262.19	27.15	61.17	243.65
12065	-0.57	-6.15	0.25	47.68	24.11	197.75	10.77	280.94	238.23	186.25	24.92	271.68	32.05	61.34	238.56
12066	-0.56	-7.25	0.25	48.76	25.73	211.66	13.23	277.57	232.11	181.31	26.81	282.73	36.27	61.37	232.49
12067	-18.60	-3.97	-1.26	113.24	78.97	496.38	119.31	191.18	322.34	235.27	120.42	616.86	118.93	281.15	322.26
12068	-18.33	-5.09	-1.28	117.64	87.01	501.20	116.50	196.13	321.50	233.47	122.22	604.63	115.66	277.18	321.38
12069	-18.01	-6.19	-1.28	123.11	96.82	507.29	112.81	202.77	320.57	233.05	126.00	592.22	111.31	274.84	320.43
12070	-17.63	-7.27	-1.26	129.92	106.97	515.05	108.40	211.14	319.37	234.30	130.94	580.20	106.02	274.08	319.20
12071	-17.40	-3.97	-1.26	83.83	66.81	395.38	88.84	147.34	281.55	194.69	83.04	367.92	88.06	165.20	281.22
12072	-17.15	-5.09	-1.28	88.53	71.12	398.80	87.93	153.74	279.34	194.28	85.34	365.18	86.61	166.77	278.82
12073	-16.85	-6.19	-1.28	94.02	76.35	402.85	86.50	161.38	276.74	194.46	88.41	362.87	84.43	169.61	276.00
12074	-16.50	-7.27	-1.26	100.30	82.34	408.01	84.60	170.11	273.90	195.31	92.06	361.62	81.49	173.52	272.95
12075	-16.20	-3.96	-1.26	65.38	59.40	378.31	72.69	149.15	275.67	163.64	68.34	290.46	72.04	115.78	275.22
12076	-15.97	-5.08	-1.28	70.54	62.33	380.60	71.95	154.86	272.39	164.21	69.94	291.32	70.83	119.39	271.66
12077	-15.69	-6.19	-1.28	76.40	66.05	383.24	70.95	161.47	268.51	165.32	72.14	293.10	69.17	124.10	267.47
12078	-15.36	-7.27	-1.26	82.74	70.59	386.48	69.88	168.79	264.27	166.88	75.09	296.05	67.14	129.60	262.90
12079	-15.00	-3.96	-1.26	54.23	53.38	366.77	61.35	162.67	275.60	141.83	58.38	248.37	60.88	85.69	275.11
12080	-14.78	-5.08	-1.27	59.58	55.64	368.72	60.65	167.20	271.68	142.88	59.60	252.44	59.82	90.66	270.89
12081	-14.53	-6.18	-1.27	65.50	58.59	370.89	59.82	172.36	266.99	144.49	61.35	257.68	58.44	96.54	265.85
12082	-14.22	-7.26	-1.26	71.77	62.25	373.45	58.99	178.02	261.72	146.56	63.74	264.13	56.78	102.94	260.20
12083	-13.80	-3.96	-1.26	47.07	48.16	355.85	52.72	180.76	277.06	125.36	51.17	229.09	52.45	66.63	276.61
12084	-13.60	-5.08	-1.27	52.42	50.06	357.81	52.00	184.01	272.69	126.73	52.15	235.35	51.49	72.35	271.95
12085	-13.36	-6.18	-1.27	58.27	52.56	360.00	51.19	187.65	267.41	128.69	53.57	242.91	50.27	78.74	266.33
12086	-13.08	-7.26	-1.26	64.40	55.71	362.51	50.41	191.63	261.39	131.19	55.56	251.66	48.81	85.44	259.93
12087	-12.60	-3.96	-1.26	42.06	43.52	343.23	45.74	200.13	278.68	112.27	45.52	223.68	45.69	56.19	278.29
12088	-12.42	-5.08	-1.27	47.31	45.20	345.53	44.99	202.19	273.97	113.89	46.34	231.24	44.83	61.81	273.33
12089	-12.20	-6.18	-1.27	53.02	47.42	348.12	44.17	204.43	268.25	116.16	47.53	240.14	43.75	67.92	267.31
12090	-11.95	-7.26	-1.26	58.98	50.21	351.06	43.41	206.84	261.69	119.01	49.22	250.21	42.47	74.25	260.40
12091	-11.40	-3.96	-1.26	38.32	39.33	328.55	39.82	219.18	279.89	101.75	40.88	226.12	40.01	52.98	279.58
12092	-11.24	-5.07	-1.27	43.41	40.86	331.42	39.04	220.19	274.95	103.57	41.58	234.32	39.27	57.64	274.45
12093	-11.04	-6.18	-1.27	48.92	42.88	334.71	38.22	221.21	268.93	106.07	42.60	243.90	38.36	62.70	268.18
12094	-10.81	-7.26	-1.26	54.68	45.41	338.44	37.48	222.25	261.98	109.19	44.05	254.64	37.29	67.99	260.93
12095	-10.20	-3.96	-1.26	35.49	35.53	312.01	34.57	237.02	280.49	93.50	36.93	232.29	35.03	54.66	280.27
12096	-10.05	-5.07	-1.27	40.32	36.95	315.64	33.80	237.16	275.41	95.44	37.54	240.77	34.47	57.94	275.05
12097	-9.88	-6.17	-1.27	45.57	38.81	319.87	33.00	237.14	269.20	98.09	38.43	250.65	33.77	61.57	268.65
12098	-9.67	-7.26	-1.26	51.09	41.13	324.67	32.31	236.99	261.99	101.39	39.69	261.73	32.95	65.45	261.21
12099	-9.00	-3.96	-1.26	33.44	32.08	294.10	29.75	253.18	280.41	87.52	33.48	239.72	30.55	58.59	280.28
12100	-8.87	-5.07	-1.26	37.91	33.41	298.65	29.02	252.59	275.26	89.48	34.02	248.30	30.22	60.61	275.04
12101	-8.72	-6.17	-1.26	42.82	35.13	303.99	28.28	251.71	268.95	92.16	34.80	258.32	29.81	62.87	268.61
12102	-8.53	-7.26	-1.26	48.05	37.28	310.06	27.69	250.59	261.61	95.49	35.92	269.57	29.32	65.33	261.10
12103	-7.80	-3.96	-1.26	32.11	28.97	275.44	25.21	267.40	279.65	83.90	30.41	247.06	26.45	62.91	279.61
12104	-7.69	-5.07	-1.26	36.13	30.20	281.02	24.56	266.23	274.50	85.77	30.89	255.67	26.46	63.98	274.41
12105	-7.55	-6.17	-1.26	40.63	31.80	287.61	23.94	264.66	268.17	88.34	31.59	265.76	26.45	65.16	268.02
12106	-7.39	-7.26	-1.26	45.50	33.80	295.11	23.50	262.73	260.78	91.55	32.59	277.14	26.39	66.45	260.53
12107	-6.60	-3.96	-1.25	31.49	26.16	256.75	20.86	279.59	278.25	82.85	27.65	253.64	22.75	66.56	278.29
12108	-6.51	-5.06	-1.26	34.98	27.30	263.44	20.35	277.96	273.15	84.49	28.07	262.24	23.23	67.00	273.19
12109	-6.39	-6.16	-1.26	38.99	28.79	271.38	19.91	275.83	266.87	86.79	28.70	272.40	23.75	67.44	266.90
12110	-6.26	-7.26	-1.25	43.43	30.65	280.40	19.70	273.25	259.50	89.71	29.64	283.88	24.24	67.89	259.50
12111	-5.40	-3.95	-1.25	31.55	23.67	238.82	16.69	289.71	276.28	84.61	25.14	259.14	19.56	69.02	276.38
12112	-5.32	-5.06	-1.26	34.45	24.72	246.70	16.38	287.71	271.26	85.89	25.52	267.74	20.69	69.10	271.42
12113	-5.23	-6.16	-1.26	37.90	26.09	256.02	16.19	285.14	265.08	87.75	26.11	277.95	21.88	69.10	265.28
12114	-5.12	-7.26	-1.25	41.85	27.83	266.59	16.30	282.05	257.79	90.18	27.00	289.56	23.03	69.02	258.02
12115	-4.20	-3.95	-1.25	32.27	21.49	222.57	12.73	297.77	273.78	89.45	22.87	263.39	17.13	70.03	273.96
12116	-4.14	-5.06	-1.26	34.55	22.45	231.62	12.70	295.48	268.89	90.23	23.23	272.00	19.09	69.96	269.15
12117	-4.07	-6.16	-1.26	37.39	23.72	242.30	12.87	292.57	262.84	91.47	23.80	282.28	21.07	69.77	263.20
12118	-3.98	-7.25	-1.25	40.78	25.34	254.38	13.41	289.08	255.69	93.18	24.69	294.03	22.92	69.44	256.11
12119	-3.00	-3.95	-1.25	33.62	19.64	208.96	9.09	303.80	270.85	97.66	20.86	266.29	15.82	69.48	271.08
12120	-2.96	-5.06	-1.25	35.29	20.52	219.11	9.47	301.29	266.09	97.80	21.21	274.95	18.71	69.43	266.45
12121	-2.91	-6.16	-1.25	37.49	21.69	231.03	10.14	298.13	260.21	98.22	21.79	285.32	21.48	69.26	260.70
12122	-2.84	-7.25	-1.25	40.25	23.23	244.44	11.23	294.33	253.23	98.99	22.73	297.24	24.00	68.92	253.83
12123	-1.80	-3.95	-1.25	35.60	18.17	199.01	6.11	307.85	267.52	109.51	19.16	267.75	15.93	67.35	267.82
12124	-1.77	-5.05	-1.25	36.68	18.98	210.03	7.09	305.17	262.93	108.87	19.52	276.49	19.67	67.46	263.37
12125	-1.74	-6.15	-1.25	38.22	20.08	222.94	8.37	301.82	257.23	108.29	20.16	287.00	23.15	67.48	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
12153	12.24	-8.10	1.75	205.54	66.11	283.13	49.09	168.42	167.65	1068.04	57.37	228.60	222.84	50.44	177.43
12154	12.02	-8.70	1.75	184.24	66.33	288.41	57.55	167.89	168.92	962.18	57.16	226.91	260.39	52.93	177.19
12155	13.30	-8.10	1.75	255.05	78.61	295.61	51.79	167.94	165.80	1284.52	65.19	326.83	233.12	91.35	185.46
12156	13.07	-8.70	1.75	227.36	75.97	300.68	66.99	164.90	169.12	1150.37	62.57	301.42	302.62	61.22	183.48
12157	14.37	-8.10	1.75	320.79	105.07	313.47	48.04	179.78	163.42	1547.19	118.33	528.84	210.87	159.11	206.43
12158	14.12	-8.70	1.75	291.42	92.45	317.89	77.46	172.70	170.68	1403.53	84.81	467.19	343.33	104.43	198.70
12159	15.43	-8.10	1.75	401.33	177.10	337.57	38.56	205.56	160.30	1848.85	339.50	809.71	141.68	184.67	230.21
12160	15.16	-8.70	1.75	389.67	141.09	342.12	87.09	198.49	174.63	1769.00	211.75	727.45	374.91	143.82	239.33
12161	16.50	-8.10	1.75	514.54	200.20	349.46	28.59	222.83	148.07	2288.81	485.14	935.06	21.76	161.58	159.17
12162	16.21	-8.70	1.75	594.89	268.68	374.41	147.45	259.26	167.82	2544.51	667.47	965.61	560.06	212.12	243.37
12163	0.55	-8.10	0.25	51.54	26.84	223.23	16.19	274.22	223.20	196.17	29.85	292.75	44.94	60.57	223.57
12164	0.54	-8.70	0.25	52.09	28.19	231.89	17.82	271.94	219.24	191.74	31.26	300.17	46.67	60.50	219.59
12165	1.64	-8.10	0.25	53.98	26.96	225.90	17.46	272.17	219.51	219.07	31.54	291.64	51.88	59.19	219.81
12166	1.61	-8.70	0.25	53.98	28.31	234.42	19.10	269.89	215.73	212.91	32.83	299.27	53.83	59.42	216.00
12167	2.73	-8.10	0.25	57.35	27.72	231.02	19.01	268.53	215.71	246.38	33.60	288.72	59.88	57.01	215.88
12168	2.68	-8.70	0.25	56.73	29.07	239.20	20.65	266.32	212.15	238.09	34.75	296.64	62.09	57.70	212.26
12169	3.82	-8.10	0.25	61.78	29.11	238.23	20.76	263.32	211.85	278.66	35.93	283.77	69.03	53.94	211.82
12170	3.75	-8.70	0.25	60.42	30.47	245.91	22.43	261.24	208.52	267.74	36.93	292.09	71.57	55.26	208.40
12171	4.91	-8.10	0.25	67.38	31.12	247.07	22.69	256.61	207.97	316.62	38.45	276.58	79.45	49.93	207.67
12172	4.82	-8.70	0.25	65.19	32.49	254.14	24.42	254.71	204.89	302.47	39.30	285.42	82.45	52.02	204.49
12173	6.00	-8.10	0.25	74.36	33.73	257.06	24.79	248.49	204.10	361.11	41.09	267.00	91.27	45.15	203.49
12174	5.90	-8.70	0.25	71.19	35.12	263.47	26.65	246.81	201.33	343.00	41.78	276.49	94.93	48.05	200.59
12175	7.09	-8.10	0.25	82.94	36.94	267.70	27.12	239.16	200.31	413.19	43.80	255.08	104.56	40.39	199.36
12176	6.97	-8.70	0.25	78.62	38.36	273.46	29.18	237.72	197.88	390.18	44.35	265.32	109.22	43.69	196.80
12177	8.18	-8.10	0.25	93.45	40.79	278.58	29.71	228.91	196.68	474.08	46.57	241.49	119.36	38.11	195.43
12178	8.04	-8.70	0.25	87.74	42.24	283.74	32.08	227.70	194.67	445.03	47.01	252.42	125.55	40.13	193.27
12179	9.27	-8.10	0.25	106.31	45.36	289.39	32.60	218.27	193.31	545.09	49.41	228.67	135.50	43.12	191.90
12180	9.11	-8.70	0.25	98.91	46.84	294.03	35.47	217.20	191.82	508.67	49.79	239.63	144.11	40.27	190.23
12181	10.36	-8.10	0.25	122.04	50.86	299.98	35.73	208.09	190.35	627.37	52.34	223.28	152.29	59.28	189.17
12182	10.18	-8.70	0.25	112.57	52.27	304.21	39.46	206.93	189.56	582.09	52.87	231.98	165.01	48.14	188.08
12183	11.45	-8.10	0.25	141.20	57.74	310.55	38.84	199.74	188.00	721.10	55.38	240.16	168.15	86.27	188.01
12184	11.26	-8.70	0.25	129.42	58.94	314.48	44.05	198.03	188.16	666.24	56.27	240.96	187.69	65.43	187.50
12185	12.54	-8.10	0.25	164.27	66.66	321.77	41.26	195.24	186.48	824.53	59.25	301.08	179.71	120.80	190.21
12186	12.33	-8.70	0.25	150.24	67.17	325.46	49.15	192.25	188.12	761.43	60.57	285.47	211.34	89.92	189.82
12187	13.63	-8.10	0.25	191.57	79.56	335.01	40.94	196.82	185.79	933.55	67.40	421.81	178.16	152.61	200.28
12188	13.40	-8.70	0.25	176.31	77.42	338.48	54.29	191.91	189.98	867.87	67.07	382.91	233.19	115.30	198.62
12189	14.72	-8.10	0.25	223.07	102.44	351.85	37.79	204.57	185.53	1045.78	98.25	590.99	143.78	157.92	229.61
12190	14.47	-8.70	0.25	212.79	92.24	355.88	53.43	199.33	194.07	999.58	80.14	532.70	246.20	128.83	222.43
12191	15.81	-8.10	0.25	260.33	154.42	372.78	26.47	211.79	181.34	1181.08	226.80	742.78	51.63	141.43	285.36
12192	15.54	-8.70	0.25	272.60	125.47	381.24	54.63	216.81	200.06	1212.54	136.67	692.69	239.22	142.18	287.46
12193	16.90	-8.10	0.25	343.85	161.82	375.87	50.44	203.21	142.09	1492.49	278.37	731.22	123.54	247.67	214.92
12194	16.61	-8.70	0.25	419.46	206.72	425.77	88.57	272.56	182.07	1784.67	446.01	806.89	360.42	277.18	306.72
12195	0.56	-8.10	-1.25	43.33	21.24	246.46	12.51	295.76	238.47	132.69	21.09	309.39	36.41	61.16	239.48
12196	0.55	-8.70	-1.25	44.20	22.43	255.88	13.87	292.89	234.12	130.60	22.28	317.65	37.95	61.36	235.16
12197	1.67	-8.10	-1.25	44.88	21.37	249.81	13.90	293.95	235.16	150.26	21.42	306.97	41.79	56.72	236.18
12198	1.65	-8.70	-1.25	45.28	22.58	259.02	15.22	291.07	230.97	146.81	22.69	315.49	43.50	57.36	232.00
12199	2.79	-8.10	-1.25	47.27	22.21	256.16	15.55	290.47	231.69	171.47	22.40	302.74	48.06	51.40	232.66
12200	2.75	-8.70	-1.25	47.12	23.45	264.92	16.83	287.63	227.68	166.39	23.71	311.61	49.96	52.55	228.63
12201	3.91	-8.10	-1.25	50.55	23.75	265.06	17.33	285.34	228.09	196.53	23.99	296.54	55.23	45.56	228.92
12202	3.84	-8.70	-1.25	49.78	25.02	273.19	18.59	282.59	224.27	189.52	25.30	305.87	57.39	47.16	225.05
12203	5.02	-8.10	-1.25	54.80	25.94	275.97	19.16	278.62	224.39	225.67	26.11	288.30	63.34	40.15	224.98
12204	4.94	-8.70	-1.25	53.34	27.25	283.33	20.46	275.98	220.79	216.38	27.41	298.18	65.88	41.81	221.29
12205	6.14	-8.10	-1.25	60.10	28.74	288.29	21.03	270.39	220.62	259.09	28.73	278.13	72.41	37.44	220.86
12206	6.04	-8.70	-1.25	57.86	30.10	294.80	22.43	267.90	217.28	247.16	30.00	288.61	75.49	37.98	217.38
12207	7.25	-8.10	-1.25	66.49	32.15	301.39	22.94	260.84	216.83	296.97	31.82	266.70	82.40	40.92	216.58
12208	7.14	-8.70	-1.25	63.37	33.56	307.04	24.54	258.50	213.79	281.98	33.05	277.67	86.29	38.33	213.37
12209	8.37	-8.10	-1.25	73.99	36.21	314.70	24.95	250.25	213.06	339.26	35.38	255.89	93.15	52.54	212.20
12210	8.24	-8.70	-1.25	69.90	37.67	319.51	26.85	248.03	210.40	320.88	36.59	266.79	98.24	45.33	209.34
12211	9.49	-8.10	-1.25	82.57	41.00	327.72	27.08	239.11	209.38	385.60	39.46	250.02	104.30	71.20	207.84
12212	9.33	-8.70	-1.25	77.41	42.52	331.75	29.44	236.92	207.22	363.66	40.72	259.25	111.21	58.94	205.44
12213	10.60	-8.10	-1.25	92.09	46.78	340.04	29.29	228.10	205.89	435.02	44.18	257.31	115.09	94.41	203.78
12214	10.43	-8.70	-1.25	85.82	48.27	343.38	32.38	225.78	204.39	409.74	45.62	261.52	124.83	77.07	201.97
12215	11.72	-8.10	-1.25	102.22	53.95	351.41	31.42	218.10	202.66	485.70	49.66	289.13	124.13	118.08	200.76
12216	11.53	-8.70	-1.25	95.06	55.30	354.19	35.62	215.38	202.10	458.36	51.54	283.38	138.29	96.12	199.58
12217	12.83	-8.10	-1.25	112.46	63.08	361.70	33.10	209.94	199.74	535.70	56.34	353.62	129.11	134.78	200.89
12218	12.63	-8.70	-1.25	104.99	63.95	364.12	39.03	206.65	200.61	509.23	58.87	333.81	150.44	110.58	199.97
12219	13.95	-8.10	-1.25	122.71	75.37	370.76	33.79	203.77	196.85	586.63	65.25	446.03	125.71	133.49	209.87
12220	13.73	-8.70	-1.25	116.08	74.54	373.32	42.42	200.33	200.14	565.58	68.42	412.89	159.93	113.76	208.05
12221	15.07	-8.10	-1.25	134.79	94.18	378.28	35.04	198.60	192.92	652.46	80.55	541.69	108.27	118.39	241.96
12222	14.83	-8.70	-1.25	132.49	88.68	382.44	45.53	197.36	200.70	646.58	80.84	505.38	165.90	111.98	235.52
12223															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
12251	-3.73	-8.10	1.75	53.61	34.73	214.79	18.56	247.26	223.18	174.54	33.83	260.49	28.42	57.23	223.01
12252	-3.66	-8.70	1.75	55.45	35.98	221.41	19.95	246.20	219.12	173.03	35.41	267.17	29.26	58.05	218.91
12253	-2.66	-8.10	1.75	53.71	32.86	208.42	17.73	250.77	219.69	187.19	34.50	265.99	32.47	58.36	219.63
12254	-2.61	-8.70	1.75	55.26	34.10	215.62	19.28	249.44	215.71	184.86	35.96	272.65	33.58	58.67	215.62
12255	-1.60	-8.10	1.75	54.38	31.39	203.99	17.54	252.89	215.99	202.63	35.69	270.36	37.54	60.26	216.00
12256	-1.57	-8.70	1.75	55.57	32.63	211.64	19.21	251.38	212.14	199.26	37.00	277.04	38.89	60.19	212.13
12257	-0.53	-8.10	1.75	55.70	30.39	201.71	17.93	253.58	212.12	221.22	37.31	273.46	43.56	62.59	212.16
12258	-0.52	-8.70	1.75	56.46	31.62	209.65	19.66	251.95	208.43	216.57	38.44	280.20	45.12	62.27	208.45
12259	-16.90	-8.10	0.25	62.11	71.30	440.25	60.01	164.28	272.86	80.60	64.48	454.67	64.17	172.73	272.89
12260	-16.61	-8.70	0.25	65.57	71.66	443.33	58.30	170.07	269.67	84.24	62.90	446.38	63.20	174.63	269.75
12261	-15.81	-8.10	0.25	76.58	73.53	400.88	64.51	176.94	269.14	126.80	72.25	369.52	61.93	175.97	268.11
12262	-15.54	-8.70	0.25	79.19	75.14	404.80	63.36	181.81	266.90	127.57	72.77	367.07	60.20	176.69	265.75
12263	-14.72	-8.10	0.25	75.25	69.67	367.61	60.23	178.23	261.18	137.34	67.01	299.23	55.88	149.79	259.79
12264	-14.47	-8.70	0.25	78.01	71.46	371.03	59.45	182.85	258.57	137.77	68.01	300.75	54.18	151.62	257.03
12265	-13.63	-8.10	0.25	71.29	64.77	347.78	54.00	183.54	256.06	138.09	60.78	261.92	49.28	125.96	254.50
12266	-13.40	-8.70	0.25	74.21	66.60	350.71	53.44	187.63	253.11	138.71	62.07	266.05	47.70	128.41	251.37
12267	-12.54	-8.10	0.25	67.28	59.96	332.91	47.76	192.04	252.85	135.66	54.92	244.39	43.22	106.54	251.27
12268	-12.33	-8.70	0.25	70.24	61.82	335.66	47.48	195.31	249.51	136.40	56.40	250.12	41.89	109.51	247.73
12269	-11.45	-8.10	0.25	63.71	55.39	319.94	42.03	202.39	250.60	132.45	49.62	239.23	37.97	91.26	249.11
12270	-11.26	-8.70	0.25	66.69	57.19	322.73	41.94	204.83	246.90	133.31	51.17	245.83	36.83	94.46	245.22
12271	-10.36	-8.10	0.25	60.58	51.12	307.51	36.86	213.52	248.78	129.50	44.93	241.29	33.52	79.58	247.48
12272	-10.18	-8.70	0.25	63.55	52.84	310.55	36.94	215.14	244.82	130.50	46.52	248.26	32.61	82.77	243.34
12273	-9.27	-8.10	0.25	57.81	47.14	295.14	32.21	224.65	247.09	127.37	40.79	247.13	29.87	71.10	246.03
12274	-9.11	-8.70	0.25	60.69	48.78	298.62	32.45	225.49	242.91	128.39	42.38	254.24	29.18	74.06	241.69
12275	-8.18	-8.10	0.25	55.37	43.49	282.76	28.06	235.25	245.34	126.40	37.22	254.62	27.07	65.46	244.54
12276	-8.04	-8.70	0.25	58.15	45.06	286.83	28.45	235.41	241.00	127.38	38.82	261.73	26.65	67.96	240.06
12277	-7.09	-8.10	0.25	53.26	40.14	270.56	24.39	244.95	243.42	126.92	34.19	262.45	25.26	62.19	242.88
12278	-6.97	-8.70	0.25	55.93	41.65	275.33	24.96	244.52	238.98	127.77	35.80	269.54	25.15	64.11	238.33
12279	-6.00	-8.10	0.25	51.51	37.09	258.87	21.23	253.49	241.27	129.21	31.72	269.93	24.59	60.70	240.97
12280	-5.90	-8.70	0.25	54.03	38.55	264.41	22.00	252.57	236.79	129.82	33.34	276.98	24.82	62.00	236.41
12281	-4.91	-8.10	0.25	50.16	34.36	248.10	18.64	260.72	238.87	133.57	29.82	276.63	25.15	60.38	238.78
12282	-4.82	-8.70	0.25	52.49	35.78	254.43	19.63	259.39	234.38	133.81	31.46	283.67	25.73	61.12	234.24
12283	-3.82	-8.10	0.25	49.26	31.97	238.73	16.70	266.51	236.20	140.26	28.55	282.34	26.96	60.67	236.30
12284	-3.75	-8.70	0.25	51.35	33.36	245.81	17.91	264.85	231.75	139.97	30.19	289.39	27.85	60.96	231.82
12285	-2.73	-8.10	0.25	48.87	29.96	231.20	15.50	270.80	233.27	149.56	27.93	286.92	29.93	61.13	233.52
12286	-2.68	-8.70	0.25	50.68	31.33	238.94	16.91	268.87	228.91	148.58	29.55	294.00	31.08	61.10	229.13
12287	-1.64	-8.10	0.25	49.07	28.39	225.94	15.07	273.53	230.12	161.78	27.96	290.25	33.96	61.41	230.45
12288	-1.61	-8.70	0.25	50.53	29.75	234.19	16.61	271.42	225.86	159.90	29.54	297.41	35.33	61.22	226.18
12289	-0.55	-8.10	0.25	49.93	27.33	223.23	15.34	274.67	226.75	177.21	28.63	292.24	38.97	61.28	227.13
12290	-0.54	-8.70	0.25	50.97	28.68	231.80	16.96	272.45	222.63	174.20	30.14	299.50	40.52	61.08	223.00
12291	-17.30	-8.10	-1.25	136.00	112.12	522.17	104.55	218.41	317.08	235.57	132.17	570.37	101.55	273.22	316.85
12292	-17.02	-8.70	-1.25	139.82	117.60	528.40	102.08	223.84	316.38	235.46	134.52	562.89	98.36	271.57	316.13
12293	-16.18	-8.10	-1.25	105.53	87.40	413.03	83.26	177.46	271.83	196.06	95.26	361.37	79.11	176.58	270.71
12294	-15.92	-8.70	-1.25	109.15	91.29	417.04	82.51	182.73	270.18	196.39	97.96	360.92	77.40	178.02	268.91
12295	-15.07	-8.10	-1.25	87.88	74.54	389.61	69.22	174.88	260.78	168.24	77.84	299.11	65.45	133.87	259.13
12296	-14.83	-8.70	-1.25	91.55	77.64	392.37	68.69	179.38	258.05	169.11	80.02	301.63	64.02	136.51	256.21
12297	-13.95	-8.10	-1.25	76.80	65.53	375.97	58.44	182.78	257.30	148.34	66.05	270.06	55.30	107.87	255.47
12298	-13.73	-8.70	-1.25	80.37	68.10	378.20	57.97	186.45	253.94	149.53	67.90	274.88	54.01	111.00	251.89
12299	-12.83	-8.10	-1.25	69.30	58.59	364.95	49.91	195.04	256.32	133.33	57.55	259.41	47.50	90.60	254.54
12300	-12.63	-8.70	-1.25	72.79	60.89	367.11	49.58	197.70	252.47	134.81	59.21	265.59	46.42	94.02	250.45
12301	-11.72	-8.10	-1.25	63.75	52.78	353.84	42.97	208.97	256.11	121.45	50.94	258.96	41.35	79.16	254.53
12302	-11.53	-8.70	-1.25	67.15	54.82	356.20	42.70	210.69	251.88	123.16	52.39	265.88	40.42	82.51	250.06
12303	-10.60	-8.10	-1.25	59.29	47.73	341.86	37.09	223.21	256.04	111.87	45.55	263.90	36.35	72.20	254.73
12304	-10.43	-8.70	-1.25	62.63	49.56	344.66	36.90	224.06	251.54	113.80	46.82	271.14	35.59	75.13	250.03
12305	-9.49	-8.10	-1.25	55.53	43.25	328.96	31.98	236.95	255.81	104.21	41.00	271.22	32.23	68.64	254.82
12306	-9.33	-8.70	-1.25	58.72	44.92	332.38	31.87	237.01	251.12	106.24	42.12	278.62	31.65	70.92	249.96
12307	-8.37	-8.10	-1.25	52.28	39.24	315.40	27.46	249.69	255.28	98.36	37.09	279.20	28.87	67.45	254.61
12308	-8.24	-8.70	-1.25	55.34	40.78	319.59	27.44	249.09	250.45	100.43	38.11	286.66	28.50	69.00	249.66
12309	-7.25	-8.10	-1.25	49.49	35.62	301.63	23.42	261.13	254.38	94.34	33.67	286.86	26.29	67.62	254.03
12310	-7.14	-8.70	-1.25	52.40	37.07	306.67	23.52	259.97	249.49	96.37	34.61	294.36	26.17	68.50	249.05
12311	-6.14	-8.10	-1.25	47.13	32.36	288.17	19.83	271.07	253.09	92.27	30.64	293.70	24.57	68.34	253.04
12312	-6.04	-8.70	-1.25	49.88	33.72	294.11	20.11	269.45	248.19	94.17	31.55	301.24	24.74	68.67	248.09
12313	-5.02	-8.10	-1.25	45.22	29.43	275.62	16.72	279.41	251.44	92.35	27.99	299.48	23.83	68.98	251.65
12314	-4.94	-8.70	-1.25	47.76	30.72	282.48	17.23	277.40	246.56	93.98	28.88	307.08	24.32	68.92	246.76
12315	-3.91	-8.10	-1.25	43.77	26.86	264.61	14.19	286.07	249.43	94.78	25.69	304.08	24.20	69.14	249.88
12316	-3.84	-8.70	-1.25	46.06	28.10	272.32	14.97	283.77	244.61	96.01	26.59	311.75	24.99	68.85	245.07
12317	-2.79	-8.10	-1.25	42.80	24.69	255.73	12.42	291.04	247.10	99.80	23.78	307.45	25.71	68.56	247.75
12318	-2.75	-8.70	-1.25	44.82	25.89	264.18	13.46	288.51	242.37	100.48	24.73	315.21	26.75	68.20	243.04
12319	-1.67	-8.10	-1.25	42.36	22.97	249.51	11.56	294.32	244.47	107.66	22.33	309.51	28.31	67.09	245.29
12320	-1.65	-8.70	-1.25	44.05	24.16	258.53	12.81	291.61	239.85	107.61	23.35	317.40	29.55	66.80	240.70
12321	-0.56	-8.10	-1.25	42.52	21.79	246.35	11.65	295.89	241.59	118.55	21.40	310.1			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
12349	8.10	-10.88	1.75	79.93	53.01	283.79	45.63	199.81	170.01	422.78	51.04	275.67	161.50	96.31	173.12
12350	9.15	-10.72	1.75	88.58	57.93	290.41	50.07	189.94	169.08	479.56	51.91	259.91	190.15	101.92	173.91
12351	10.19	-10.54	1.75	100.36	63.89	297.29	55.97	179.91	168.74	548.46	54.59	245.38	225.51	106.37	175.77
12352	0.57	-13.10	1.75	66.03	45.14	280.29	37.37	238.48	175.31	192.14	52.41	350.60	50.42	57.20	176.09
12353	1.70	-13.07	1.75	64.77	45.04	282.11	38.59	235.73	172.66	206.02	52.89	351.91	59.77	60.06	173.73
12354	2.82	-12.99	1.75	63.79	45.58	284.86	39.97	231.75	170.48	222.52	53.24	350.66	70.41	64.92	171.91
12355	3.94	-12.89	1.75	63.23	46.79	288.40	41.51	228.57	168.75	241.98	53.39	346.62	82.63	71.46	170.69
12356	5.05	-12.75	1.75	63.23	48.71	292.56	43.22	220.25	167.46	264.81	53.28	339.62	96.75	79.35	170.14
12357	6.16	-12.58	1.75	64.02	51.36	297.18	45.16	212.88	166.56	291.52	52.99	329.49	113.23	88.33	170.35
12358	7.25	-12.37	1.75	65.82	54.80	302.13	47.46	204.60	166.03	322.71	52.78	316.24	132.69	98.18	171.43
12359	8.32	-12.13	1.75	68.97	59.11	307.31	50.32	195.57	165.85	359.18	53.29	300.22	155.97	108.70	173.46
12360	9.38	-11.86	1.75	73.89	64.48	312.69	54.08	186.02	166.06	401.99	55.89	282.65	184.36	119.68	176.54
12361	10.41	-11.56	1.75	81.15	71.23	318.26	59.36	176.24	166.77	452.61	62.96	266.82	220.09	130.96	180.67
12362	0.58	-14.74	1.75	71.37	50.80	316.92	45.31	235.39	166.06	178.45	57.88	390.41	42.64	52.32	168.88
12363	1.75	-14.69	1.75	69.17	50.52	318.57	46.38	232.40	163.95	188.73	57.89	392.43	51.36	54.25	167.56
12364	2.91	-14.59	1.75	66.99	50.81	320.86	47.47	228.28	162.49	200.98	57.63	391.36	61.19	59.69	167.02
12365	4.07	-14.45	1.75	64.93	51.74	323.64	48.57	223.06	161.61	215.41	57.06	386.94	72.35	68.03	167.32
12366	5.21	-14.25	1.75	63.11	53.37	326.81	49.69	216.79	161.24	232.25	56.20	378.93	85.15	78.64	168.49
12367	6.34	-14.01	1.75	61.68	55.76	330.24	50.86	209.56	161.27	251.75	55.21	367.16	99.98	91.01	170.58
12368	7.45	-13.72	1.75	60.81	59.00	333.82	52.18	201.47	161.62	274.15	54.56	351.66	117.35	104.85	173.66
12369	8.54	-13.38	1.75	60.74	63.20	337.45	53.81	192.65	162.22	299.78	55.25	332.88	137.95	119.97	177.78
12370	9.61	-13.01	1.75	61.74	68.60	341.07	56.07	183.26	163.02	328.94	59.19	312.29	162.75	136.31	183.05
12371	10.64	-12.59	1.75	64.17	75.74	344.62	59.45	173.49	164.05	361.89	69.58	293.56	193.16	153.94	189.68
12372	0.60	-16.38	1.75	77.57	48.58	366.23	52.85	234.45	155.49	168.01	55.09	445.59	31.27	47.23	162.96
12373	1.81	-16.32	1.75	74.72	48.25	367.48	53.67	231.11	153.87	175.41	54.70	448.36	38.96	46.72	162.81
12374	3.01	-16.19	1.75	71.70	48.58	368.89	54.33	228.72	152.99	184.15	54.00	447.22	47.49	52.10	163.58
12375	4.20	-16.00	1.75	68.57	49.63	370.37	54.82	221.30	152.77	194.35	52.99	441.81	57.09	62.32	165.29
12376	5.37	-15.75	1.75	65.41	51.45	371.80	55.15	214.88	153.08	206.08	51.74	431.85	67.99	75.92	167.97
12377	6.52	-15.44	1.75	62.29	54.10	373.09	55.34	207.53	153.77	219.37	50.49	417.14	80.53	91.91	171.67
12378	7.66	-15.07	1.75	59.32	57.62	374.13	55.49	199.33	154.72	234.21	49.82	397.75	95.05	109.73	176.46
12379	8.76	-14.64	1.75	56.64	62.10	374.83	55.72	190.39	155.82	250.59	50.87	374.27	112.00	129.14	182.46
12380	9.83	-14.15	1.75	54.42	67.74	375.11	56.26	180.82	157.01	268.58	55.52	348.42	131.92	150.02	189.90
12381	10.87	-13.61	1.75	52.95	74.84	374.87	57.41	170.81	158.27	288.04	66.10	324.27	155.40	172.44	199.15
12382	0.62	-18.02	1.75	84.21	37.60	426.27	57.94	234.64	132.74	161.00	43.39	513.42	18.09	43.79	149.02
12383	1.87	-17.94	1.75	80.94	37.71	426.71	58.57	230.79	131.83	166.27	42.99	516.61	24.36	38.39	150.16
12384	3.10	-17.79	1.75	77.33	38.96	426.57	58.91	225.90	132.05	172.28	42.52	514.72	31.43	42.50	152.49
12385	4.32	-17.56	1.75	73.42	41.26	425.79	58.96	220.02	133.20	179.06	41.93	507.33	39.43	54.75	156.01
12386	5.53	-17.25	1.75	69.28	44.49	424.32	58.74	213.18	135.08	186.57	41.31	494.16	48.53	71.67	160.77
12387	6.71	-16.87	1.75	64.98	48.53	422.11	58.27	205.46	137.48	194.75	40.89	475.07	58.87	91.27	166.86
12388	7.86	-16.41	1.75	60.62	53.29	419.15	57.61	196.94	140.20	203.48	41.17	450.24	70.65	112.69	174.39
12389	8.98	-15.89	1.75	56.31	58.75	415.41	56.82	187.75	143.07	212.68	43.05	420.45	84.04	135.63	183.52
12390	10.06	-15.30	1.75	52.20	65.01	410.93	56.03	178.03	146.00	222.41	47.84	387.68	99.29	160.05	194.48
12391	11.10	-14.64	1.75	48.49	72.31	405.75	55.42	167.99	148.91	233.33	57.02	356.31	116.69	185.87	207.67
12392	15.78	-9.51	1.75	356.21	296.78	378.21	253.08	191.12	233.34	1561.16	717.47	818.13	967.74	269.28	341.14
12393	15.19	-10.51	1.75	69.93	180.69	365.23	101.88	128.55	178.92	439.01	351.44	550.18	403.66	348.13	330.42
12394	14.54	-11.48	1.75	52.41	132.34	377.72	67.67	133.21	164.94	338.95	201.77	443.52	247.78	314.30	293.97
12395	14.82	-9.44	1.75	287.62	126.51	346.19	139.35	171.58	187.43	1327.99	179.73	600.62	582.41	106.85	227.09
12396	14.41	-10.32	1.75	155.02	142.23	353.59	126.00	147.12	183.75	780.09	246.14	475.52	510.08	195.09	230.93
12397	13.97	-11.16	1.75	76.22	125.04	361.46	86.91	140.59	171.22	454.55	197.15	387.43	341.51	245.53	239.56
12398	13.87	-9.38	1.75	234.96	96.30	325.07	99.96	162.41	176.21	1149.91	96.77	411.97	435.92	75.13	196.42
12399	13.64	-10.13	1.75	167.53	105.97	335.23	104.34	153.75	177.36	853.31	135.19	370.31	442.28	129.56	200.86
12400	13.38	-10.86	1.75	108.62	110.38	345.90	92.40	149.53	173.64	596.09	155.82	339.32	377.64	183.22	209.21
12401	12.07	-13.93	1.75	45.64	81.12	399.82	55.31	158.15	151.93	245.14	73.12	335.07	136.20	213.01	222.32
12402	11.79	-13.06	1.75	52.71	83.36	373.61	59.50	161.51	159.84	308.29	84.45	310.09	181.80	194.31	208.75
12403	11.51	-12.19	1.75	67.77	83.61	347.35	63.74	164.98	165.31	394.25	86.32	284.53	224.94	169.88	196.15
12404	12.96	-13.17	1.75	43.88	91.98	393.11	56.17	148.81	155.17	259.44	96.22	335.23	159.71	242.55	210.38
12405	12.59	-12.49	1.75	54.24	93.31	371.25	63.33	153.23	161.93	332.58	108.80	312.47	213.87	215.03	219.56
12406	12.22	-11.81	1.75	73.30	91.88	349.15	69.22	158.10	166.92	430.63	107.12	288.42	259.29	182.75	202.55
12407	13.79	-12.36	1.75	43.20	106.77	385.93	59.24	140.03	159.16	276.10	131.50	369.39	191.99	276.42	263.37
12408	13.35	-11.89	1.75	58.61	107.10	368.49	70.32	145.48	164.91	365.23	145.62	340.07	258.18	236.93	232.60
12409	12.91	-11.42	1.75	81.28	101.42	350.66	78.19	151.61	169.45	473.70	130.56	309.63	307.78	196.12	210.14
12410	11.25	-9.48	0.25	115.71	63.75	322.92	50.67	194.09	188.02	604.18	57.32	249.95	209.19	52.32	187.40
12411	12.25	-9.43	0.25	132.30	71.99	332.93	57.52	187.68	189.76	682.55	62.49	281.73	240.49	63.71	191.05
12412	13.25	-9.38	0.25	152.99	81.91	344.83	66.10	185.22	193.86	770.28	70.18	355.10	276.54	78.49	199.79
12413	11.42	-10.43	0.25	97.35	73.81	336.99	58.12	187.53	188.05	525.39	63.93	265.47	226.26	67.83	189.48
12414	12.30	-10.29	0.25	108.47	82.07	345.17	65.09	181.35	191.46	582.18	71.51	287.38	258.47	73.83	195.31
12415	13.17	-10.14	0.25	121.74	92.32	354.81	74.25	177.50	196.96	642.59	83.47	337.98	297.88	85.02	205.07
12416	11.60	-11.38	0.25	77.06	84.90	354.61	62.13	182.18	188.34	436.42	76.00	283.55	221.28	107.65	196.15
12417	12.34	-11.14	0.25	83.14	92.08	360.48	67.47	176.46	192.31	474.56	84.77	295.87	249.84	117.42	203.56
12418	13.08	-10.89	0.25	91.15	102.12	367.55	74.04	171.75	197.50	518.31	100.97				



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
12447	9.63	-11.97	0.25	65.79	70.40	342.55	52.76	199.30	181.99	349.76	63.23	298.48	162.43	90.33	184.85
12448	10.69	-11.66	0.25	70.86	77.61	348.66	57.07	189.79	184.87	393.03	68.73	285.26	191.07	98.99	189.82
12449	0.60	-14.96	0.25	71.40	60.40	343.53	46.56	247.05	173.38	155.56	65.73	410.49	40.91	48.58	174.58
12450	1.80	-14.91	0.25	68.84	60.26	345.07	47.68	244.25	171.84	163.87	66.21	411.60	48.47	49.19	173.40
12451	3.00	-14.80	0.25	66.29	60.78	347.33	48.89	240.24	171.18	174.37	66.73	409.63	57.06	52.89	173.13
12452	4.18	-14.65	0.25	63.84	61.99	350.18	50.18	235.06	171.32	187.28	67.22	404.35	66.86	59.25	173.81
12453	5.36	-14.45	0.25	61.59	63.93	353.53	51.50	228.79	172.19	202.83	67.65	395.61	78.09	67.70	175.48
12454	6.52	-14.20	0.25	59.67	66.64	357.27	52.86	221.57	173.71	221.23	68.05	383.33	91.05	77.82	178.22
12455	7.66	-13.90	0.25	58.23	70.18	361.32	54.30	213.54	175.79	242.65	68.63	367.67	106.08	89.44	182.11
12456	8.78	-13.55	0.25	57.44	74.62	365.67	55.87	204.91	178.42	267.26	69.79	349.28	123.61	102.62	187.30
12457	9.87	-13.16	0.25	57.49	80.12	370.34	57.71	195.90	181.59	295.05	72.39	329.94	144.20	117.69	194.02
12458	10.94	-12.72	0.25	58.53	87.11	375.36	60.11	186.79	185.39	325.80	78.11	313.70	168.64	135.49	202.74
12459	0.62	-16.66	0.25	78.58	75.11	401.90	59.59	246.98	175.83	150.85	82.13	473.74	32.28	41.79	181.96
12460	1.86	-16.60	0.25	75.46	74.60	403.07	60.45	243.97	174.72	156.54	82.25	476.16	39.01	40.03	182.22
12461	3.09	-16.46	0.25	72.26	74.45	404.61	61.18	239.94	174.53	163.98	82.10	474.86	46.49	44.29	183.54
12462	4.32	-16.27	0.25	69.04	74.78	406.45	61.76	234.92	175.17	173.36	81.64	469.53	54.86	53.63	185.95
12463	5.52	-16.00	0.25	65.87	75.64	408.52	62.14	228.95	176.51	184.80	80.84	459.91	64.33	66.52	189.45
12464	6.71	-15.68	0.25	62.81	77.11	410.74	62.30	222.13	178.39	198.37	79.72	445.85	75.12	82.01	194.04
12465	7.87	-15.29	0.25	59.93	79.27	413.07	62.24	214.54	180.66	214.06	78.47	427.42	87.53	99.78	199.81
12466	9.01	-14.85	0.25	57.29	82.20	415.44	62.01	206.29	183.21	231.74	77.51	405.22	101.86	119.91	206.88
12467	10.11	-14.34	0.25	54.93	86.08	417.80	61.70	197.50	185.92	251.20	77.71	380.96	118.47	142.68	215.57
12468	11.18	-13.78	0.25	52.91	91.13	420.07	61.48	188.30	188.78	271.78	80.59	358.65	137.72	168.65	226.53
12469	0.64	-18.36	0.25	86.66	51.31	496.23	65.30	252.76	164.56	150.38	56.82	575.73	19.18	38.08	179.81
12470	1.92	-18.28	0.25	83.28	51.14	496.38	65.68	249.19	163.71	154.55	56.38	579.00	24.59	29.97	181.07
12471	3.19	-18.12	0.25	79.63	51.88	495.97	65.61	244.58	163.85	159.92	55.86	577.06	30.58	33.52	183.38
12472	4.45	-17.88	0.25	75.75	53.44	494.94	65.11	238.94	164.79	166.56	55.14	569.49	37.37	47.19	186.74
12473	5.69	-17.56	0.25	71.64	55.76	493.25	64.22	232.30	166.37	174.44	54.26	555.95	45.18	65.86	191.21
12474	6.90	-17.16	0.25	67.33	58.76	490.86	62.98	224.69	168.39	183.41	53.33	536.27	54.25	87.35	196.89
12475	8.09	-16.69	0.25	62.83	62.39	487.74	61.47	216.17	170.69	193.19	52.62	510.55	64.77	111.08	203.98
12476	9.24	-16.15	0.25	58.16	66.62	483.81	59.78	206.81	173.09	203.37	52.75	479.51	76.93	136.97	212.80
12477	10.35	-15.53	0.25	53.36	71.51	479.01	58.05	196.70	175.50	213.51	54.75	445.04	90.85	165.11	223.86
12478	11.42	-14.85	0.25	48.49	77.17	473.24	56.42	185.94	177.80	223.36	59.92	411.29	106.55	195.36	238.01
12479	16.19	-9.53	0.25	245.95	240.63	423.16	180.74	206.13	267.06	1103.57	496.24	701.98	693.13	304.73	417.93
12480	15.59	-10.57	0.25	47.65	162.66	412.33	80.83	140.71	210.97	335.42	257.53	520.82	314.26	345.20	386.88
12481	14.93	-11.57	0.25	40.52	125.72	431.96	60.46	146.27	194.34	287.30	159.05	454.21	209.67	329.68	346.35
12482	15.21	-9.46	0.25	206.75	120.99	386.86	104.56	192.47	218.85	961.14	131.63	598.52	420.37	140.40	272.31
12483	14.79	-10.37	0.25	113.91	139.56	395.70	101.04	166.21	217.78	614.35	183.87	492.12	389.27	210.73	274.16
12484	14.33	-11.24	0.25	60.63	127.92	408.22	75.21	158.81	205.32	398.60	154.47	414.19	274.68	257.15	278.95
12485	14.23	-9.39	0.25	176.54	97.29	361.55	79.26	186.65	202.21	859.27	86.72	468.63	326.27	93.01	221.18
12486	14.00	-10.17	0.25	128.72	108.67	370.64	86.75	173.75	205.81	674.88	110.17	412.16	343.46	120.93	226.15
12487	13.74	-10.92	0.25	85.94	115.39	382.27	80.06	166.80	203.29	502.60	126.32	371.98	301.99	173.77	235.00
12488	12.40	-14.11	0.25	44.02	84.14	465.99	55.22	175.07	180.31	232.19	70.68	386.26	123.59	227.05	254.88
12489	12.11	-13.21	0.25	51.51	97.41	420.91	61.62	179.62	191.72	292.09	88.32	345.54	158.75	195.28	238.03
12490	11.83	-12.30	0.25	60.34	94.47	379.70	62.79	179.08	189.32	354.88	87.22	307.80	193.20	153.33	211.66
12491	13.31	-13.33	0.25	40.18	93.02	456.86	54.86	164.46	183.23	240.53	87.14	379.82	143.35	260.55	277.44
12492	12.93	-12.62	0.25	50.83	104.71	419.89	62.75	171.58	194.84	313.19	101.03	347.60	183.35	221.23	251.42
12493	12.55	-11.92	0.25	63.33	101.66	383.23	65.96	173.10	193.35	384.89	98.81	314.88	218.71	169.31	221.07
12494	14.17	-12.49	0.25	37.05	104.87	446.10	55.90	154.21	187.08	248.12	111.92	402.28	168.44	295.37	307.85
12495	13.71	-11.99	0.25	51.52	114.85	418.00	65.76	163.83	198.72	337.55	122.75	372.52	215.73	248.30	268.65
12496	13.26	-11.51	0.25	67.58	109.49	386.99	71.18	167.71	198.37	417.50	112.60	338.98	253.39	187.58	233.43
12497	11.53	-9.49	-1.25	85.75	60.48	360.67	41.54	209.10	200.66	425.78	54.80	285.86	154.14	71.85	197.72
12498	12.56	-9.45	-1.25	93.81	69.21	369.18	46.23	200.24	201.10	472.25	62.50	322.06	171.27	81.83	199.82
12499	13.58	-9.40	-1.25	102.89	79.79	377.33	51.72	193.36	203.17	524.94	72.20	383.10	189.43	88.55	208.41
12500	11.72	-10.48	-1.25	72.42	71.78	371.27	49.14	198.72	198.44	384.11	63.06	294.51	166.78	63.32	196.19
12501	12.61	-10.34	-1.25	77.54	80.64	377.37	54.01	190.56	201.03	422.99	70.70	317.40	185.06	72.83	201.49
12502	13.51	-10.18	-1.25	83.15	91.44	383.46	59.83	183.70	205.31	465.92	80.42	358.47	206.13	88.44	212.39
12503	11.90	-11.47	-1.25	58.98	85.89	383.66	55.43	189.24	196.28	339.43	75.91	304.95	164.34	92.15	198.69
12504	12.66	-11.22	-1.25	61.47	93.73	387.45	59.06	182.27	200.13	371.41	82.70	316.31	181.31	104.71	207.03
12505	13.42	-10.96	-1.25	64.74	104.25	391.62	63.35	175.91	205.31	409.35	92.11	340.81	198.84	124.72	220.08
12506	0.55	-9.88	-1.25	46.96	25.45	275.41	17.24	286.62	224.28	127.10	25.40	335.50	40.09	61.18	225.25
12507	1.66	-9.87	-1.25	47.16	25.67	278.26	18.54	284.69	221.41	141.23	25.92	333.66	46.01	58.02	222.32
12508	2.77	-9.86	-1.25	48.01	26.64	283.47	20.10	281.15	218.49	158.51	27.02	329.95	52.93	54.23	219.23
12509	3.88	-9.84	-1.25	49.60	28.37	290.71	21.85	276.02	215.56	179.11	28.63	324.25	60.94	49.95	216.03
12510	4.99	-9.81	-1.25	52.01	30.79	299.55	23.76	269.37	212.67	203.20	30.71	316.46	70.15	45.47	212.74
12511	6.09	-9.77	-1.25	55.32	33.87	309.51	25.85	261.27	209.86	230.94	33.23	306.65	80.69	41.52	209.43
12512	7.19	-9.72	-1.25	59.58	37.61	320.11	28.18	251.89	207.21	262.50	36.18	295.23	92.67	39.46	206.16
12513	8.29	-9.67	-1.25	64.80	42.04	330.88	30.83	241.50	204.80	297.99	39.64	283.38	106.14	41.24	203.06
12514	9.38	-9.62	-1.25	70.99	47.25	341.42	33.88	230.48	202.78	337.40	43.76	273.83	121.09	48.11	200.34
12515	10.47	-9.55	-1.25	78.11	53.39	351.44	37.42	219.40	201.35	380.58	48.75	272.01	137.24	59.34	198.33
12516	0.58	-11.65	-1.25	52.87	31.86	306.23	23.54	276.41	207.60	123.53	32.21	364.49	41.28	59.7	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
12545	11.23	-12.86	-1.25	51.78	94.75	399.30	59.70	191.23	191.08	275.89	87.87	328.22	131.04	119.97	201.32
12546	0.64	-16.94	-1.25	82.13	89.00	412.70	63.60	248.03	165.32	131.87	96.05	473.42	31.85	39.43	168.33
12547	1.91	-16.87	-1.25	78.62	88.80	413.60	64.57	245.26	164.90	135.09	97.17	474.56	37.15	38.30	168.67
12548	3.18	-16.74	-1.25	75.11	89.31	414.90	65.58	241.41	165.86	140.34	98.59	472.22	43.14	42.50	170.46
12549	4.44	-16.53	-1.25	71.66	90.58	416.49	66.58	236.54	168.03	147.95	100.23	466.15	49.88	51.03	173.67
12550	5.68	-16.26	-1.25	68.38	92.63	418.35	67.53	230.71	171.25	158.26	102.06	456.23	57.44	62.54	178.35
12551	6.90	-15.92	-1.25	65.39	95.51	420.46	68.40	224.06	175.34	171.61	104.07	442.48	65.96	76.32	184.59
12552	8.09	-15.52	-1.25	62.82	99.25	422.85	69.15	216.74	180.17	188.37	106.30	425.12	75.59	92.31	192.56
12553	9.25	-15.06	-1.25	60.81	103.90	425.58	69.79	208.94	185.63	209.00	108.86	404.90	86.52	110.96	202.60
12554	10.39	-14.54	-1.25	59.44	109.56	428.80	70.29	200.91	191.71	234.10	111.97	383.48	99.00	133.24	215.37
12555	11.48	-13.96	-1.25	58.72	116.38	432.50	70.69	192.85	198.43	264.32	115.94	364.17	113.35	160.77	231.99
12556	0.66	-18.71	-1.25	86.65	140.19	579.90	101.88	278.28	231.36	131.01	154.29	653.35	28.49	34.89	249.87
12557	1.98	-18.62	-1.25	83.41	139.41	580.04	101.92	275.30	230.66	132.79	155.66	657.26	31.88	23.01	252.42
12558	3.28	-18.46	-1.25	81.15	139.18	579.84	101.29	271.53	230.88	137.17	157.16	656.12	35.76	23.80	256.08
12559	4.58	-18.21	-1.25	79.87	139.49	579.32	100.04	267.00	231.95	144.56	158.71	649.53	40.27	37.94	260.88
12560	5.85	-17.87	-1.25	79.49	140.36	578.51	98.21	261.75	233.73	155.35	160.25	637.15	45.58	57.77	266.89
12561	7.10	-17.46	-1.25	79.86	141.76	577.44	95.85	255.82	236.06	169.95	161.71	618.75	51.90	81.12	274.22
12562	8.32	-16.97	-1.25	80.74	143.68	576.13	93.01	249.28	238.81	188.72	163.07	594.31	59.50	108.10	283.16
12563	9.50	-16.41	-1.25	81.87	146.09	574.60	89.78	242.21	241.85	212.07	164.33	564.33	68.72	139.47	294.16
12564	10.64	-15.77	-1.25	82.97	149.00	572.84	86.27	234.68	245.04	240.45	165.54	530.38	80.04	176.29	308.03
12565	11.73	-15.06	-1.25	83.67	152.41	570.82	82.57	226.81	248.42	274.64	166.76	495.98	94.06	219.58	326.33
12566	16.59	-9.55	-1.25	138.43	206.46	463.64	112.38	192.55	283.07	856.47	216.65	611.32	434.58	400.36	500.02
12567	15.99	-10.62	-1.25	57.64	181.75	478.70	73.35	166.58	258.10	508.55	167.16	535.35	264.69	468.53	489.54
12568	15.32	-11.66	-1.25	68.94	170.55	518.84	69.99	183.72	254.92	466.44	165.11	492.12	203.54	443.54	455.10
12569	15.59	-9.48	-1.25	125.21	119.65	401.08	78.03	184.68	223.78	685.15	107.22	527.88	275.35	180.68	299.90
12570	15.17	-10.41	-1.25	73.87	141.15	410.18	76.05	165.37	228.24	524.77	127.36	449.32	262.63	242.50	305.28
12571	14.70	-11.32	-1.25	54.80	143.16	426.85	70.88	164.45	223.24	423.62	130.24	398.30	205.99	279.81	313.53
12572	14.59	-9.41	-1.25	112.04	95.44	386.66	60.11	187.24	208.66	588.87	86.36	455.64	216.16	104.82	234.13
12573	14.35	-10.21	-1.25	84.22	109.11	392.80	68.21	175.37	213.06	507.17	96.46	405.83	231.95	132.91	238.78
12574	14.09	-10.99	-1.25	61.51	120.25	401.75	68.48	169.11	212.24	425.58	107.35	369.56	211.61	174.97	248.27
12575	12.74	-14.29	-1.25	83.31	156.17	565.96	78.84	218.30	251.31	314.10	167.55	466.63	111.39	268.92	347.78
12576	12.44	-13.36	-1.25	58.23	123.51	435.04	70.75	185.25	204.96	297.16	120.03	352.31	129.02	191.55	249.90
12577	12.14	-12.42	-1.25	51.99	103.10	401.88	61.90	182.84	196.19	306.98	94.17	321.72	147.51	138.76	212.44
12578	13.67	-13.48	-1.25	80.91	160.03	557.20	75.38	208.54	253.31	357.13	167.91	451.44	132.94	324.31	375.94
12579	13.27	-12.75	-1.25	57.45	130.22	436.24	70.48	178.37	211.22	332.52	123.79	352.46	147.40	224.09	271.01
12580	12.88	-12.02	-1.25	52.87	110.62	403.79	63.78	176.49	201.35	338.90	100.11	326.18	164.19	157.38	225.19
12581	14.55	-12.61	-1.25	76.65	165.05	544.96	72.34	197.79	255.49	405.85	168.66	461.96	161.51	386.02	414.77
12582	14.07	-12.10	-1.25	56.55	138.80	437.37	70.40	171.85	218.52	375.03	129.35	370.59	170.91	262.89	298.97
12583	13.60	-11.60	-1.25	54.27	118.26	405.99	66.13	170.76	207.55	375.26	106.53	343.58	185.93	181.73	243.19
12584	-10.98	-9.45	1.75	67.96	58.37	300.57	40.30	198.46	235.22	134.39	48.54	237.36	32.13	109.06	233.42
12585	-11.95	-9.41	1.75	69.11	61.34	313.41	43.80	191.39	238.36	130.18	50.86	244.29	36.45	121.58	236.54
12586	-12.92	-9.36	1.75	69.82	64.12	328.13	47.10	184.75	241.68	123.98	52.93	260.30	41.19	134.50	239.96
12587	-11.17	-10.34	1.75	72.67	61.90	314.62	42.13	199.46	231.08	132.64	51.73	251.54	32.04	119.93	229.03
12588	-12.02	-10.22	1.75	73.11	64.01	325.54	44.70	193.72	234.53	128.37	53.04	258.16	36.16	130.13	232.54
12589	-12.86	-10.08	1.75	73.13	66.00	337.74	47.02	188.11	237.99	122.71	54.08	271.47	40.52	140.10	236.15
12590	-11.35	-11.25	1.75	77.21	65.05	331.83	43.70	201.37	226.89	130.35	54.19	269.10	32.17	130.95	224.73
12591	-12.07	-11.03	1.75	76.97	66.27	339.97	45.23	196.56	230.58	126.22	54.47	274.17	35.94	138.45	228.55
12592	-12.78	-10.80	1.75	76.25	67.52	348.88	46.94	191.43	233.85	120.73	54.66	283.62	40.13	145.59	232.00
12593	-0.53	-9.82	1.75	58.36	34.45	225.41	23.31	248.81	201.05	206.93	40.90	294.29	46.56	61.10	201.04
12594	-1.60	-9.80	1.75	58.17	35.50	226.89	22.72	248.41	204.76	191.60	39.76	290.54	39.79	59.51	204.69
12595	-2.66	-9.78	1.75	58.42	37.02	230.18	22.60	246.68	208.41	178.93	38.98	285.47	34.02	58.87	208.23
12596	-3.72	-9.76	1.75	59.05	38.94	235.16	23.04	243.68	211.99	168.59	38.64	279.26	29.28	59.44	211.65
12597	-4.77	-9.73	1.75	59.96	41.19	241.61	24.07	239.51	215.48	160.26	38.78	272.10	25.68	61.48	214.93
12598	-5.82	-9.69	1.75	61.09	43.70	249.31	25.68	234.26	218.88	153.65	39.42	264.24	23.39	65.19	218.09
12599	-6.87	-9.65	1.75	62.37	46.43	258.02	27.84	228.08	222.19	148.46	40.55	256.06	22.58	70.67	221.16
12600	-7.91	-9.61	1.75	63.77	49.33	267.56	30.47	221.16	225.45	144.35	42.13	248.14	23.28	77.92	224.16
12601	-8.94	-9.55	1.75	65.22	52.37	277.82	33.51	213.70	228.69	140.97	44.10	241.35	25.31	86.86	227.16
12602	-9.98	-9.50	1.75	66.68	55.49	288.83	36.86	205.96	231.97	137.87	46.38	237.09	28.41	97.36	230.26
12603	-0.56	-11.45	1.75	62.26	39.61	250.53	29.26	244.18	189.80	193.08	45.77	317.76	46.02	59.14	189.84
12604	-1.68	-11.41	1.75	63.00	40.72	251.30	28.49	244.07	193.62	180.50	44.95	312.81	38.67	58.77	193.52
12605	-2.79	-11.36	1.75	63.98	42.32	253.68	28.16	242.63	197.57	170.24	44.42	306.33	32.43	60.00	197.27
12606	-3.89	-11.29	1.75	65.12	44.29	257.57	28.32	239.96	201.62	161.98	44.24	298.57	27.32	62.86	201.06
12607	-4.98	-11.20	1.75	66.35	46.55	262.82	29.01	236.16	205.74	155.39	44.46	289.81	23.47	67.32	204.90
12608	-6.06	-11.09	1.75	67.61	49.02	269.25	30.24	231.38	209.91	150.17	45.06	280.43	21.17	73.28	208.77
12609	-7.12	-10.97	1.75	68.86	51.63	276.70	31.97	225.78	214.14	146.01	46.03	270.93	20.64	80.60	212.70
12610	-8.17	-10.83	1.75	70.06	54.31	285.03	34.15	219.52	218.40	142.57	47.30	262.02	21.86	89.16	216.70
12611	-9.21	-10.67	1.75	71.15	57.01	294.18	36.68	212.81	222.72	139.50	48.80	254.77	24.50	98.80	220.80
12612	-10.24	-10.50	1.75	72.08	59.65	304.20	39.45	205.85	227.10	136.35	50.41	250.63	28.16	109.35	225.05
12613	-0.59	-13.09	1.75	67.46	45.81	279.33	36.27	240.01	178.56	180.45	51.85	346.63	42.07	56.59	179.04
12614	-1.76	-13.03	1.75	68.96	46.96	279.47	35.36	240.28	182.40	170.71	51.31	340.2			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
12643	-0.63	-18.02	1.75	87.07	38.57	425.23	57.04	237.47	134.95	156.28	43.71	505.44	12.57	55.38	149.15
12644	-1.88	-17.94	1.75	89.53	40.52	423.75	55.88	239.23	138.40	152.18	44.06	493.28	8.04	69.50	150.41
12645	-3.13	-17.78	1.75	91.52	43.16	422.00	54.53	239.91	143.01	148.52	44.39	477.71	5.86	84.24	152.84
12646	-4.35	-17.54	1.75	93.02	46.28	420.05	53.02	239.51	148.72	145.12	44.77	459.43	7.72	98.73	156.42
12647	-5.56	-17.23	1.75	94.00	49.69	417.94	51.44	238.04	155.39	141.82	45.24	439.26	11.68	112.47	161.12
12648	-6.74	-16.85	1.75	94.44	53.21	415.73	49.88	235.51	162.87	138.46	45.81	418.13	16.23	125.15	166.86
12649	-7.89	-16.40	1.75	94.34	56.70	413.44	48.42	231.93	170.96	134.90	46.47	397.14	20.96	136.52	173.54
12650	-9.01	-15.87	1.75	93.68	60.05	411.09	47.19	227.32	179.52	131.02	47.24	377.52	25.75	146.36	181.01
12651	-10.09	-15.28	1.75	92.45	63.16	408.70	46.32	221.70	188.36	126.72	48.11	360.64	30.52	154.54	189.13
12652	-11.12	-14.62	1.75	90.65	65.94	406.28	45.93	215.14	197.33	121.88	49.06	347.86	35.23	160.94	197.69
12653	-15.78	-9.51	1.75	67.97	71.89	385.54	54.18	163.15	247.13	87.63	55.01	368.19	56.72	160.40	247.33
12654	-15.19	-10.51	1.75	73.09	72.33	389.77	52.08	172.50	239.68	93.68	54.32	356.80	54.12	163.99	239.93
12655	-14.55	-11.47	1.75	78.05	72.38	394.31	50.24	181.99	231.74	99.93	53.49	347.88	51.38	167.12	231.98
12656	-14.83	-9.44	1.75	68.41	69.07	366.33	51.84	170.98	246.06	98.82	53.75	325.97	51.89	155.36	245.18
12657	-14.42	-10.31	1.75	72.47	69.71	372.32	50.08	177.74	240.17	101.59	53.12	324.59	49.93	157.84	239.30
12658	-13.98	-11.15	1.75	76.52	69.91	378.58	48.36	184.46	233.64	104.83	52.27	324.26	47.78	160.04	232.84
12659	-13.88	-9.37	1.75	69.74	66.81	346.39	50.05	178.28	244.37	113.37	54.17	288.24	46.51	147.16	242.91
12660	-13.66	-10.11	1.75	72.92	67.92	354.01	49.06	182.94	240.04	113.23	54.31	294.51	45.27	150.35	238.50
12661	-13.41	-10.83	1.75	76.02	68.63	362.06	47.84	187.72	235.23	113.71	54.00	301.29	43.75	152.99	233.72
12662	-12.09	-13.92	1.75	88.51	68.35	403.67	46.22	207.84	206.12	117.10	50.30	340.19	39.76	165.23	206.22
12663	-11.83	-13.02	1.75	85.05	67.46	378.71	44.96	205.38	215.33	121.11	51.85	315.64	36.13	153.69	213.96
12664	-11.57	-12.14	1.75	81.48	67.28	353.94	44.90	203.51	222.13	126.47	54.89	291.11	33.41	142.52	220.09
12665	-12.97	-13.16	1.75	85.63	70.24	400.74	47.13	199.87	214.76	111.80	51.33	337.86	44.00	167.65	214.88
12666	-12.62	-12.46	1.75	82.74	68.52	379.97	45.79	198.79	221.29	115.76	51.64	316.16	40.59	157.58	220.11
12667	-12.27	-11.78	1.75	80.23	68.00	358.89	45.79	198.38	226.44	121.95	54.46	294.04	37.36	147.89	224.58
12668	-13.80	-12.36	1.75	82.30	71.77	397.93	48.49	191.31	223.26	106.18	52.60	341.18	47.84	168.36	223.47
12669	-13.37	-11.87	1.75	79.98	69.57	381.11	46.87	191.65	227.15	109.87	51.72	320.88	44.68	160.10	226.25
12670	-12.94	-11.39	1.75	78.47	68.48	363.84	46.74	192.81	230.73	116.59	53.78	300.42	41.26	152.44	229.15
12671	-11.26	-9.46	0.25	71.08	60.53	330.18	43.41	205.90	242.89	135.06	54.46	255.27	36.54	101.90	240.95
12672	-12.26	-9.42	0.25	74.30	64.83	342.40	48.43	197.97	246.17	137.72	59.19	259.71	41.33	116.22	244.18
12673	-13.26	-9.37	0.25	77.77	69.16	356.85	53.60	191.66	250.45	139.55	64.22	274.48	46.63	133.58	248.56
12674	-11.47	-10.39	0.25	77.52	66.57	343.72	46.52	206.36	238.94	137.75	60.37	269.25	36.92	114.69	236.67
12675	-12.34	-10.26	0.25	79.88	69.92	354.47	50.56	200.59	243.16	139.37	64.01	274.40	41.30	127.35	240.95
12676	-13.20	-10.12	0.25	82.23	73.19	367.24	54.46	195.97	248.14	140.19	67.70	287.86	45.91	141.78	246.09
12677	-11.66	-11.33	0.25	84.01	73.30	361.17	49.88	208.72	236.34	140.04	66.90	287.60	37.17	128.76	233.88
12678	-12.39	-11.10	0.25	85.39	75.25	369.91	52.57	204.56	241.23	140.48	68.99	292.53	41.04	139.01	238.93
12679	-13.12	-10.86	0.25	86.48	77.21	380.38	55.40	200.84	246.29	139.81	71.09	303.48	45.24	150.29	244.18
12680	-0.55	-9.85	0.25	53.63	32.01	249.13	20.59	267.87	214.00	167.96	33.71	314.89	42.22	60.11	214.29
12681	-1.64	-9.83	0.25	53.88	33.12	250.97	20.10	267.02	217.25	155.48	33.25	312.12	36.56	60.32	217.49
12682	-2.73	-9.81	0.25	54.59	34.76	254.94	20.19	264.66	220.41	145.78	33.37	307.93	31.92	60.63	220.52
12683	-3.82	-9.79	0.25	55.69	36.88	260.83	20.94	260.87	223.47	138.55	34.09	302.46	28.33	61.25	223.38
12684	-4.90	-9.76	0.25	57.13	39.39	268.33	22.38	255.71	226.40	133.53	35.41	295.84	25.90	62.48	226.07
12685	-5.97	-9.72	0.25	58.86	42.25	277.10	24.49	249.29	229.21	130.46	37.32	288.25	24.75	64.67	228.58
12686	-7.05	-9.68	0.25	60.84	45.41	286.79	27.24	241.75	231.91	129.08	39.79	279.99	24.92	68.19	230.97
12687	-8.11	-9.63	0.25	63.05	48.87	297.09	30.56	233.30	234.55	129.14	42.79	271.50	26.36	73.40	233.29
12688	-9.18	-9.57	0.25	65.50	52.60	307.80	34.41	224.20	237.19	130.38	46.30	263.55	28.92	80.61	235.63
12689	-10.23	-9.51	0.25	68.20	56.60	318.83	38.75	214.82	239.96	132.54	50.31	257.42	32.44	90.09	238.15
12690	-0.58	-11.54	0.25	58.96	38.64	276.54	26.93	260.81	200.33	159.54	40.87	340.08	42.43	58.17	200.42
12691	-1.73	-11.51	0.25	60.12	39.80	277.61	26.27	260.25	203.75	149.68	40.53	336.01	36.29	58.98	203.76
12692	-2.87	-11.45	0.25	61.54	41.55	280.49	26.14	258.18	207.29	142.30	40.73	330.25	31.27	60.52	207.12
12693	-4.00	-11.37	0.25	63.15	43.79	285.03	26.62	254.70	210.93	137.08	41.51	323.01	27.41	62.91	210.49
12694	-5.12	-11.28	0.25	64.92	46.43	290.98	27.75	249.93	214.64	133.73	42.86	314.52	24.84	66.29	213.87
12695	-6.22	-11.17	0.25	66.80	49.38	298.08	29.55	244.03	218.41	131.98	44.77	305.08	23.73	70.80	217.28
12696	-7.31	-11.04	0.25	68.77	52.58	306.05	31.99	237.17	222.27	131.58	47.17	295.13	24.13	76.60	220.77
12697	-8.39	-10.89	0.25	70.84	55.99	314.69	35.01	229.58	226.21	132.26	50.04	285.29	25.93	83.81	224.39
12698	-9.46	-10.73	0.25	73.01	59.56	323.88	38.56	221.56	230.32	133.78	53.31	276.55	28.91	92.58	228.23
12699	-10.51	-10.55	0.25	75.30	63.24	333.66	42.54	213.46	234.68	135.86	56.92	270.41	32.82	103.05	232.43
12700	-0.60	-13.25	0.25	65.88	48.17	307.02	35.08	253.96	186.61	153.02	51.20	369.81	39.70	55.02	186.60
12701	-1.81	-13.19	0.25	67.77	49.36	307.38	34.29	253.79	190.13	145.87	50.93	364.24	33.54	57.38	189.95
12702	-2.99	-13.10	0.25	69.71	51.13	309.21	33.96	252.19	194.10	140.74	51.13	356.70	28.50	61.16	193.63
12703	-4.16	-12.98	0.25	71.65	53.36	312.41	34.16	249.27	198.46	137.35	51.84	347.50	24.68	66.20	197.62
12704	-5.31	-12.82	0.25	73.58	55.95	316.82	34.93	245.19	203.16	135.43	53.04	336.99	22.31	72.34	201.90
12705	-6.44	-12.64	0.25	75.47	58.80	322.27	36.30	240.10	208.16	134.72	54.71	325.62	21.61	79.48	206.49
12706	-7.56	-12.42	0.25	77.34	61.81	328.62	38.24	234.22	213.43	134.96	56.78	313.97	22.61	87.57	211.38
12707	-8.65	-12.18	0.25	79.16	64.90	335.75	40.71	227.76	218.94	135.92	59.17	302.92	25.08	96.63	216.60
12708	-9.72	-11.90	0.25	80.94	67.98	343.66	43.64	221.00	224.72	137.34	61.81	293.66	28.67	106.71	222.21
12709	-10.77	-11.60	0.25	82.63	70.97	352.47	46.92	214.22	230.82	138.91	64.59	287.89	33.06	117.93	228.26
12710	-0.62	-14.95	0.25	73.91	61.06	342.56	45.50	248.65	175.93	149.08	65.27	406.13	34.18	51.15	176.71
12711	-1.87	-14.88	0.25	76.35	62.23	342.38	44.60	248.98	179.46	144.33	64.98	398.87	28.31	56.47	179.75
12712	-3.09	-14.76	0.25	78.64	63.88	343.34	44.04	248.04	183.82	141.13	65.02	389.41	23.49	63.66	183.58
12713	-4.30	-14.59	0.25	80.79	65.90										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
12741	-15.59	-10.56	0.25	72.91	72.24	455.35	52.98	185.50	259.32	91.19	58.13	423.33	59.15	176.85	259.66
12742	-14.94	-11.56	0.25	76.87	71.62	462.68	50.21	194.37	251.61	95.89	54.84	413.67	56.67	177.84	252.10
12743	-15.21	-9.45	0.25	82.08	76.74	411.69	61.63	187.89	263.84	127.40	72.71	366.95	57.90	177.98	262.62
12744	-14.80	-10.35	0.25	84.95	78.50	422.01	59.39	195.14	260.12	126.57	72.48	369.78	55.04	179.10	258.86
12745	-14.35	-11.22	0.25	87.34	79.39	433.43	56.86	202.06	255.81	125.57	71.40	373.95	51.91	179.30	254.61
12746	-14.24	-9.38	0.25	81.30	73.68	377.42	58.77	188.06	256.00	137.75	69.28	306.41	52.49	155.25	254.34
12747	-14.02	-10.15	0.25	84.85	76.64	387.61	58.23	194.08	253.67	137.27	71.26	316.89	50.78	160.26	251.90
12748	-13.77	-10.90	0.25	87.83	79.16	399.69	57.22	200.41	251.45	136.55	72.77	329.10	48.55	164.43	249.66
12749	-12.42	-14.10	0.25	90.50	70.60	475.29	47.17	222.09	228.88	118.82	53.47	401.05	42.94	174.36	229.07
12750	-12.16	-13.17	0.25	94.69	83.62	429.44	54.07	220.44	239.21	137.03	75.24	356.29	38.21	163.14	237.60
12751	-11.89	-12.26	0.25	90.45	80.29	386.84	53.28	213.25	236.23	140.77	73.36	313.82	37.66	145.28	233.87
12752	-13.33	-13.31	0.25	86.32	70.93	471.64	47.62	213.40	236.32	111.53	52.90	400.08	48.46	177.48	236.62
12753	-12.97	-12.59	0.25	92.76	82.43	433.25	54.57	214.84	245.19	133.44	73.69	360.44	43.05	170.39	243.73
12754	-12.60	-11.88	0.25	90.37	80.67	393.88	54.75	209.30	241.88	139.60	73.67	318.65	41.60	153.80	239.73
12755	-14.18	-12.48	0.25	81.60	70.99	468.01	48.44	203.99	243.62	103.27	52.68	405.39	53.29	178.36	244.13
12756	-13.74	-11.97	0.25	89.86	80.90	437.33	55.08	208.70	250.86	128.16	71.90	370.14	47.69	176.37	249.61
12757	-13.29	-11.48	0.25	89.63	80.37	402.00	56.03	205.35	247.64	137.25	73.37	328.73	45.56	162.34	245.76
12758	-11.55	-9.48	-1.25	72.69	59.01	362.56	44.32	210.03	246.50	128.06	56.18	274.78	40.65	89.28	244.34
12759	-12.57	-9.43	-1.25	78.16	65.13	372.42	50.96	199.01	248.01	139.12	63.09	274.67	46.49	100.88	245.70
12760	-13.59	-9.39	-1.25	85.40	72.28	382.85	58.74	189.72	250.57	152.92	71.62	283.19	53.57	117.00	248.30
12761	-11.76	-10.44	-1.25	81.55	67.34	373.71	48.38	207.75	240.17	137.26	64.02	286.92	42.06	101.25	237.50
12762	-12.65	-10.31	-1.25	86.49	72.98	381.75	54.42	199.74	243.22	147.16	70.57	287.62	47.63	112.42	240.56
12763	-13.53	-10.16	-1.25	92.75	79.64	390.76	61.13	193.18	247.35	159.15	78.51	295.60	54.01	126.68	244.86
12764	-11.96	-11.41	-1.25	91.61	78.42	387.23	53.83	207.64	235.34	147.86	74.87	302.25	43.85	115.51	232.29
12765	-12.71	-11.18	-1.25	95.93	82.84	393.42	58.70	202.29	239.87	156.35	80.18	303.29	48.96	125.41	236.99
12766	-13.46	-10.93	-1.25	101.31	88.60	400.90	64.51	197.94	245.21	166.36	87.06	309.95	54.89	137.65	242.61
12767	-0.56	-9.88	-1.25	47.32	26.01	275.05	16.31	286.94	227.11	115.92	25.52	335.56	35.08	63.70	228.05
12768	-1.68	-9.86	-1.25	48.18	27.23	277.29	15.94	285.64	229.89	107.51	26.22	333.95	30.98	65.64	230.71
12769	-2.80	-9.84	-1.25	49.46	29.07	282.05	16.28	282.69	232.52	101.78	27.53	330.87	27.87	66.99	233.13
12770	-3.91	-9.82	-1.25	51.12	31.41	289.04	17.41	278.12	234.96	98.50	29.38	326.40	25.81	67.87	235.30
12771	-5.02	-9.78	-1.25	53.12	34.20	297.84	19.32	271.98	237.19	97.41	31.71	320.63	24.86	68.46	237.21
12772	-6.13	-9.74	-1.25	55.44	37.37	307.97	21.94	264.34	239.19	98.31	34.50	313.66	25.05	69.06	238.84
12773	-7.22	-9.70	-1.25	58.08	40.89	318.93	25.20	255.31	240.96	101.01	37.72	305.66	26.33	70.04	240.22
12774	-8.32	-9.65	-1.25	61.06	44.79	330.23	29.04	245.03	242.52	105.38	41.43	296.94	28.60	71.94	241.36
12775	-9.41	-9.59	-1.25	64.42	49.11	341.46	33.49	233.75	243.91	111.35	45.69	288.07	31.78	75.36	242.35
12776	-10.49	-9.53	-1.25	68.27	53.93	352.33	38.61	221.83	245.22	118.95	50.66	280.04	35.86	80.95	243.30
12777	-0.59	-11.64	-1.25	54.28	32.38	305.62	22.53	277.02	210.31	115.00	32.09	363.62	35.92	61.68	210.98
12778	-1.78	-11.60	-1.25	55.97	33.67	306.99	21.94	275.99	213.29	108.91	32.58	360.58	31.48	63.53	213.84
12779	-2.95	-11.54	-1.25	57.91	35.67	310.45	21.98	273.26	216.32	105.24	33.76	355.72	28.11	65.32	216.62
12780	-4.11	-11.46	-1.25	60.05	38.27	315.76	22.74	268.93	219.35	103.69	35.60	349.20	25.86	67.14	219.30
12781	-5.25	-11.36	-1.25	62.38	41.34	322.56	24.27	263.08	222.38	104.01	38.03	341.19	24.82	69.15	221.90
12782	-6.38	-11.25	-1.25	64.89	44.82	330.44	26.57	255.86	225.37	106.00	41.01	331.90	25.03	71.58	224.42
12783	-7.50	-11.11	-1.25	67.59	48.65	339.01	29.61	247.41	228.32	109.50	44.51	321.64	26.47	74.72	226.88
12784	-8.61	-10.96	-1.25	70.52	52.83	347.87	33.35	237.96	231.24	114.41	48.54	310.92	29.03	78.91	229.35
12785	-9.70	-10.79	-1.25	73.76	57.39	356.75	37.78	227.79	234.18	120.72	53.16	300.52	32.62	84.53	231.90
12786	-10.78	-10.61	-1.25	77.45	62.37	365.49	42.93	217.29	237.25	128.52	58.48	291.69	37.15	91.99	234.69
12787	-0.62	-13.40	-1.25	63.38	42.49	337.75	31.23	266.48	191.75	117.00	42.97	394.40	34.52	57.72	191.94
12788	-1.86	-13.34	-1.25	65.71	43.82	338.32	30.51	265.82	194.92	113.23	43.22	389.76	30.13	60.25	194.98
12789	-3.07	-13.25	-1.25	68.10	45.94	340.45	30.32	263.53	198.49	111.46	44.23	382.93	26.81	63.46	198.23
12790	-4.27	-13.12	-1.25	70.55	48.70	343.99	30.77	259.71	202.38	111.42	45.97	374.17	24.67	67.28	201.68
12791	-5.45	-12.96	-1.25	73.06	52.00	348.68	31.91	254.50	206.56	112.91	48.40	363.75	23.84	71.68	205.32
12792	-6.62	-12.77	-1.25	75.65	55.72	354.26	33.82	248.07	210.95	115.74	51.47	352.06	24.41	76.71	209.17
12793	-7.76	-12.54	-1.25	78.34	59.80	360.44	36.48	240.61	215.53	119.83	55.12	339.57	26.33	82.46	213.23
12794	-8.88	-12.29	-1.25	81.21	64.19	366.99	39.91	232.38	220.28	125.14	59.36	327.01	29.47	89.07	217.56
12795	-9.98	-12.01	-1.25	84.35	68.89	373.76	44.10	223.67	225.23	131.71	64.19	315.42	33.67	96.79	222.23
12796	-11.05	-11.69	-1.25	87.93	73.92	380.75	49.02	214.89	230.50	139.65	69.70	306.33	38.81	105.92	227.38
12797	-0.64	-15.17	-1.25	73.96	59.31	373.98	43.79	256.72	174.66	122.11	61.44	430.47	31.33	51.83	174.69
12798	-1.92	-15.09	-1.25	76.80	60.66	373.88	42.97	256.58	177.97	120.38	61.41	424.02	27.23	56.49	177.69
12799	-3.18	-14.97	-1.25	79.57	62.81	374.79	42.57	254.95	182.14	120.24	62.15	415.05	24.20	62.60	181.39
12800	-4.41	-14.80	-1.25	82.30	65.63	376.63	42.69	251.97	187.08	121.48	63.65	403.89	22.45	69.65	185.75
12801	-5.63	-14.58	-1.25	85.01	68.99	379.30	43.39	247.78	192.68	123.94	65.87	390.99	22.20	77.33	190.72
12802	-6.82	-14.31	-1.25	87.74	72.78	382.67	44.76	242.56	198.80	127.51	68.77	376.90	23.51	85.46	196.27
12803	-7.99	-14.00	-1.25	90.57	76.89	386.63	46.82	236.53	205.38	132.17	72.29	362.32	26.26	94.02	202.38
12804	-9.12	-13.64	-1.25	93.59	81.26	391.13	49.62	229.94	212.36	137.92	76.39	348.25	30.22	103.09	209.06
12805	-10.23	-13.24	-1.25	96.93	85.82	396.17	53.16	223.12	219.74	144.86	81.05	336.02	35.19	112.89	216.35
12806	-11.30	-12.80	-1.25	100.76	90.65	401.93	57.48	216.43	227.60	153.17	86.38	327.43	41.02	123.80	224.32
12807	-0.66	-16.93	-1.25	85.56	89.68	411.97	62.61	249.71	167.21	130.30	95.09	468.63	27.23	45.39	169.40
12808	-1.97	-16.85	-1.25	88.94	91.00	411.51	61.69	250.22	170.50	130.25	94.57	460.43	23.50	54.46	171.77
12809	-3.26	-16.70	-1.25	92.23	92.97	411.69	61.05	249.61	175.18	131.52	94.69	449.60	20.95	65.02	175.51
12810	-4.53	-16.49	-1.25	95.46	95.48	412.61	60.75	247.97	181.15	133.92	95.46	436.69	19.97	76.23	180.56
12811	-5.77	-16.21	-1.25	98.69	98.41	414.									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
12839	-13.69	-13.47	-1.25	156.42	158.06	583.04	79.20	263.93	307.23	217.61	155.84	508.08	56.42	233.82	307.01
12840	-13.31	-12.72	-1.25	125.92	120.05	450.31	74.74	220.29	255.40	188.21	118.01	369.02	56.60	174.39	253.50
12841	-12.93	-11.98	-1.25	108.24	98.16	412.67	65.82	207.28	241.48	169.31	95.64	326.18	52.17	144.23	238.75
12842	-14.56	-12.60	-1.25	158.67	155.09	584.18	82.51	260.32	314.86	226.58	155.40	526.89	66.28	249.78	314.60
12843	-14.10	-12.08	-1.25	129.79	121.32	458.82	78.12	218.44	265.54	197.48	120.86	383.36	63.15	188.19	264.01
12844	-13.64	-11.56	-1.25	112.27	100.61	419.28	69.97	204.39	248.96	177.94	99.41	333.76	57.83	155.72	246.63
12845	19.11	-1.65	-2.70	85.10	97.47	277.59	65.56	123.27	175.14	599.42	83.25	595.22	78.41	298.67	178.34
12846	19.17	-0.55	-2.70	69.08	99.52	255.13	49.55	94.11	176.49	655.34	103.67	667.40	51.86	258.98	177.21
12847	19.17	0.55	-2.70	69.08	99.51	255.11	49.55	94.11	176.49	655.34	103.67	667.38	51.91	258.98	177.18
12848	19.11	1.65	-2.70	85.11	97.45	277.55	65.57	123.26	175.12	599.42	83.23	595.17	78.50	298.65	178.27
12849	17.87	-1.65	-2.70	84.33	82.71	346.60	38.26	142.59	201.61	397.01	61.26	582.23	40.21	171.90	204.01
12850	17.93	-0.55	-2.70	76.65	90.90	338.70	26.57	121.75	209.52	401.39	74.45	578.71	26.87	165.71	209.65
12851	17.93	0.55	-2.70	76.65	90.89	338.68	26.58	121.75	209.52	401.39	74.45	578.70	26.89	165.71	209.65
12852	17.87	1.65	-2.70	84.33	82.70	346.57	38.26	142.59	201.59	397.02	61.26	582.18	40.24	171.89	204.02
12853	16.64	-1.65	-2.70	82.42	72.30	374.34	21.40	169.69	215.00	278.94	45.91	587.19	21.76	109.01	217.59
12854	16.69	-0.55	-2.70	78.77	78.02	371.81	16.08	161.57	219.08	265.77	46.38	583.11	16.08	104.80	219.48
12855	16.69	0.55	-2.70	78.77	78.01	371.80	16.09	161.57	219.08	265.77	46.38	583.10	16.07	104.80	219.48
12856	16.64	1.65	-2.70	82.42	72.30	374.32	21.40	169.69	214.98	278.95	45.92	587.16	21.77	109.01	217.59
12857	15.41	-1.65	-2.70	81.89	64.06	386.12	14.21	198.30	223.19	231.22	34.79	555.87	17.62	136.34	224.12
12858	15.46	-0.55	-2.70	80.32	66.14	385.35	12.13	196.32	225.43	221.92	35.58	560.17	12.24	132.51	225.58
12859	15.46	0.55	-2.70	80.31	66.14	385.35	12.13	196.32	225.42	221.93	35.59	560.17	12.24	132.51	225.58
12860	15.41	1.65	-2.70	81.88	64.06	386.11	14.20	198.29	223.17	231.23	34.82	555.85	17.65	136.35	224.11
12861	14.18	-1.65	-2.70	80.93	56.02	384.37	13.84	222.88	228.90	222.34	33.43	479.60	19.28	178.13	229.21
12862	14.22	-0.55	-2.70	80.56	56.39	383.79	12.80	222.73	230.43	218.55	34.41	484.39	13.34	179.02	230.48
12863	14.22	0.55	-2.70	80.55	56.39	383.79	12.80	222.73	230.43	218.56	34.42	484.39	13.35	179.02	230.47
12864	14.18	1.65	-2.70	80.92	56.02	384.37	13.83	222.88	228.88	222.36	33.46	479.59	19.31	178.13	229.19
12865	12.94	-1.65	-2.70	78.81	47.88	374.00	15.72	243.33	234.23	226.09	35.00	387.51	20.16	192.37	234.28
12866	12.98	-0.55	-2.70	78.86	47.83	373.26	15.15	243.62	235.49	224.76	35.81	390.59	15.67	194.74	235.49
12867	12.98	0.55	-2.70	78.86	47.84	373.27	15.15	243.62	235.48	224.77	35.81	390.60	15.68	194.74	235.49
12868	12.94	1.65	-2.70	78.79	47.89	374.01	15.71	243.33	234.21	226.11	35.02	387.52	20.18	192.37	234.27
12869	11.71	-1.65	-2.70	75.23	39.96	358.04	17.88	260.84	239.72	227.47	34.65	303.86	21.01	182.33	239.67
12870	11.75	-0.55	-2.70	75.37	39.95	357.07	17.62	261.28	240.83	226.92	35.75	304.84	17.98	184.97	240.82
12871	11.75	0.55	-2.70	75.37	39.96	357.08	17.61	261.28	240.82	226.93	35.75	304.85	17.98	184.96	240.82
12872	11.71	1.65	-2.70	75.21	39.97	358.06	17.88	260.84	239.70	227.49	34.66	303.89	21.01	182.33	239.65
12873	10.48	-1.65	-2.70	70.38	32.72	338.50	19.49	276.26	245.29	221.10	32.53	243.52	21.88	158.35	245.24
12874	10.51	-0.55	-2.70	70.53	32.77	337.27	19.44	276.81	246.30	220.89	33.91	242.44	19.72	160.95	246.30
12875	10.51	0.55	-2.70	70.53	32.77	337.28	19.44	276.81	246.30	220.90	33.91	242.45	19.72	160.95	246.29
12876	10.48	1.65	-2.70	70.35	32.73	338.53	19.49	276.26	245.27	221.12	32.53	243.56	21.88	158.34	245.22
12877	9.25	-1.65	-2.70	64.70	26.41	316.76	20.23	289.95	250.75	206.92	29.87	212.02	22.31	128.92	250.75
12878	9.27	-0.55	-2.70	64.88	26.47	315.25	20.33	290.59	251.71	207.00	31.29	209.31	20.56	131.37	251.71
12879	9.27	0.55	-2.70	64.88	26.47	315.26	20.33	290.59	251.71	207.01	31.29	209.33	20.56	131.37	251.71
12880	9.25	1.65	-2.70	64.68	26.42	316.80	20.23	289.95	250.73	206.94	29.86	212.06	22.30	128.91	250.73
12881	8.01	-1.65	-2.70	58.73	21.16	293.95	20.05	301.98	255.96	186.98	27.55	205.14	22.00	99.59	256.02
12882	8.04	-0.55	-2.70	58.95	21.17	292.13	20.23	302.69	256.91	187.32	28.82	201.60	20.45	101.78	256.92
12883	8.04	0.55	-2.70	58.94	21.17	292.15	20.23	302.69	256.91	187.33	28.82	201.61	20.44	101.78	256.92
12884	8.01	1.65	-2.70	58.70	21.17	294.00	20.04	301.98	255.94	187.01	27.53	205.17	21.99	99.58	256.01
12885	6.78	-1.65	-2.70	52.90	16.96	271.09	18.99	312.31	260.89	163.77	25.96	212.46	20.88	73.91	261.00
12886	6.80	-0.55	-2.70	53.14	16.90	268.95	19.21	313.05	261.85	164.27	27.02	208.80	19.42	75.70	261.86
12887	6.80	0.55	-2.70	53.13	16.90	268.96	19.20	313.06	261.84	164.28	27.01	208.81	19.41	75.69	261.86
12888	6.78	1.65	-2.70	52.88	16.97	271.14	18.99	312.31	260.87	163.80	25.94	212.48	20.86	73.90	260.99
12889	5.55	-1.65	-2.70	47.54	13.76	249.22	17.16	320.87	265.54	139.49	25.16	224.92	19.00	54.73	265.67
12890	5.56	-0.55	-2.70	47.78	13.66	246.74	17.37	321.65	266.52	140.03	26.00	221.44	17.58	55.95	266.53
12891	5.56	0.55	-2.70	47.77	13.66	246.75	17.37	321.65	266.51	140.05	25.99	221.44	17.57	55.95	266.53
12892	5.55	1.65	-2.70	47.51	13.77	249.26	17.15	320.88	265.52	139.52	25.13	224.92	18.98	54.73	265.66
12893	4.31	-1.65	-2.70	42.81	11.54	229.44	14.66	327.65	269.93	115.78	25.04	237.52	16.48	45.09	270.07
12894	4.33	-0.55	-2.70	43.03	11.41	226.63	14.83	328.43	270.94	116.28	25.70	234.30	15.04	45.58	270.96
12895	4.30	0.55	-2.70	43.02	11.41	226.65	14.82	328.43	270.93	116.29	25.69	234.30	15.03	45.58	270.95
12896	4.31	1.65	-2.70	42.77	11.54	229.48	14.65	327.66	269.92	115.82	25.01	237.51	16.45	45.09	270.06
12897	3.08	-1.65	-2.70	38.79	10.23	213.00	11.58	332.61	274.12	93.82	25.44	248.23	13.45	45.79	274.26
12898	3.09	-0.55	-2.70	38.98	10.11	209.88	11.69	333.40	275.16	94.20	25.95	245.24	11.91	45.71	275.17
12899	3.09	0.55	-2.70	38.97	10.10	209.89	11.68	333.40	275.15	94.21	25.94	245.24	11.90	45.71	275.17
12900	3.08	1.65	-2.70	38.75	10.23	213.03	11.56	332.62	274.10	93.86	25.40	248.21	13.42	45.79	274.25
12901	1.85	-1.65	-2.70	35.47	9.76	201.16	8.02	335.75	278.12	74.36	26.16	256.48	10.11	52.88	278.25
12902	1.85	-0.55	-2.70	35.60	9.64	197.81	8.06	336.54	279.20	74.58	26.57	253.66	8.31	52.59	279.21
12903	1.85	0.55	-2.70	35.59	9.64	197.81	8.05	336.54	279.19	74.60	26.56	253.66	8.31	52.59	279.21
12904	1.85	1.65	-2.70	35.43	9.75	201.18	8.00	335.76	278.11	74.41	26.13	256.46	10.09	52.88	278.24
12905	0.62	-1.65	-2.70	32.76	9.96	195.04	4.11	337.07	281.95	57.88	27.08	262.31	6.90	61.91	282.06
12906	0.62	-0.55	-2.70	32.82	9.86	191.57	4.02	337.84	283.06	57.91	27.40	259.62	4.43	61.63	283.07
12907	0.62	0.55	-2.70	32.81	9.85	191.57	4.02	337.84	283.06	57.93	27.39	259.61	4.42	61.63	283.07
12908	0.62	1.65	-2.70	32.71	9.95	195.05	4.09	337.07	281.94	57.92	27.05	262.28	6.88	61.91	282.06
12909	19.11	-1.65	-4.10	104.40	90.34	312.39	20.50	155.61	172.55						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
12937	10.48	-1.65	-4.10	55.08	21.61	373.38	25.40	301.11	266.00	29.02	37.77	274.75	25.67	130.68	266.01
12938	10.51	-0.55	-4.10	55.39	21.56	372.02	25.56	301.79	267.08	30.91	39.08	273.74	25.59	133.13	267.08
12939	10.51	0.55	-4.10	55.38	21.56	372.03	25.56	301.79	267.08	30.90	39.08	273.76	25.59	133.13	267.08
12940	10.48	1.65	-4.10	55.06	21.62	373.42	25.40	301.11	265.99	29.00	37.76	274.80	25.67	130.67	266.00
12941	9.25	-1.65	-4.10	47.41	16.02	348.46	25.85	315.26	271.09	15.58	41.35	240.08	26.05	110.34	271.18
12942	9.27	-0.55	-4.10	47.66	15.94	346.79	26.13	316.02	272.14	16.99	42.78	237.50	26.15	112.69	272.15
12943	9.27	0.55	-4.10	47.65	15.95	346.80	26.13	316.02	272.14	16.99	42.77	237.51	26.15	112.68	272.15
12944	9.25	1.65	-4.10	47.38	16.03	348.51	25.85	315.27	271.08	15.55	41.34	240.13	26.05	110.33	271.17
12945	8.01	-1.65	-4.10	41.30	11.42	322.62	25.28	327.05	275.69	9.41	43.32	226.26	25.47	88.21	275.84
12946	8.04	-0.55	-4.10	41.52	11.29	320.62	25.62	327.85	276.73	10.46	44.68	222.72	25.64	90.31	276.74
12947	8.04	0.55	-4.10	41.51	11.29	320.64	25.62	327.86	276.72	10.45	44.67	222.74	25.64	90.30	276.74
12948	8.01	1.65	-4.10	41.27	11.43	322.68	25.28	327.06	275.67	9.39	43.30	226.30	25.46	88.19	275.84
12949	6.78	-1.65	-4.10	36.58	7.81	297.05	23.74	336.73	279.88	8.98	44.40	227.28	23.92	67.76	280.08
12950	6.80	-0.55	-4.10	36.78	7.61	294.71	24.09	337.56	280.92	9.83	45.60	223.44	24.11	69.44	280.94
12951	6.80	0.55	-4.10	36.76	7.61	294.73	24.09	337.57	280.92	9.82	45.59	223.45	24.10	69.44	280.94
12952	6.78	1.65	-4.10	36.53	7.80	297.10	23.73	336.74	279.86	8.94	44.37	227.30	23.91	67.74	280.07
12953	5.55	-1.65	-4.10	33.08	5.23	272.84	21.30	344.49	283.75	13.36	44.99	235.70	21.50	52.57	283.96
12954	5.56	-0.55	-4.10	33.27	5.00	270.17	21.63	345.33	284.81	14.03	46.01	231.95	21.66	53.63	284.83
12955	5.56	0.55	-4.10	33.26	4.99	270.19	21.63	345.33	284.80	14.02	46.00	231.95	21.65	53.63	284.83
12956	5.55	1.65	-4.10	33.03	5.22	272.89	21.30	344.50	283.73	13.32	44.96	235.71	21.49	52.57	283.95
12957	4.31	-1.65	-4.10	30.66	3.91	251.16	18.10	350.43	287.39	20.50	45.30	246.27	18.32	46.55	287.59
12958	4.33	-0.55	-4.10	30.85	3.71	248.16	18.39	351.27	288.46	21.06	46.15	242.73	18.41	46.83	288.48
12959	4.33	0.55	-4.10	30.83	3.69	248.18	18.38	351.28	288.46	21.04	46.14	242.73	18.40	46.83	288.48
12960	4.31	1.65	-4.10	30.61	3.88	251.20	18.09	350.44	287.37	20.45	45.26	246.27	18.30	46.55	287.59
12961	3.08	-1.65	-4.10	29.17	3.90	233.23	14.24	354.65	290.86	28.60	45.41	256.25	14.49	50.50	291.05
12962	3.09	-0.55	-4.10	29.35	3.80	229.93	14.46	355.49	291.96	29.10	46.11	252.94	14.49	50.23	291.98
12963	3.09	0.55	-4.10	29.33	3.79	229.94	14.46	355.49	291.95	29.09	46.10	252.94	14.48	50.23	291.97
12964	3.08	1.65	-4.10	29.11	3.87	233.26	14.22	354.66	290.84	28.54	45.36	256.24	14.47	50.50	291.04
12965	1.85	-1.65	-4.10	28.44	4.66	220.31	9.84	357.21	294.21	36.45	45.34	264.56	10.17	60.34	294.37
12966	1.85	-0.55	-4.10	28.59	4.63	216.78	9.99	358.03	295.33	36.95	45.93	261.43	10.03	59.91	295.35
12967	1.85	0.55	-4.10	28.57	4.61	216.79	9.99	358.04	295.33	36.93	45.91	261.42	10.02	59.92	295.35
12968	1.85	1.65	-4.10	28.37	4.62	220.33	9.82	357.21	294.20	36.40	45.30	264.54	10.15	60.35	294.37
12969	0.62	-1.65	-4.10	28.25	5.64	213.50	5.02	358.12	297.46	43.26	45.12	270.93	5.60	72.02	297.60
12970	0.62	-0.55	-4.10	28.37	5.62	209.85	5.09	358.94	298.62	43.76	45.60	267.93	5.16	71.64	298.63
12971	0.62	0.55	-4.10	28.35	5.60	209.85	5.09	358.94	298.62	43.74	45.58	267.92	5.15	71.65	298.64
12972	0.62	1.65	-4.10	28.18	5.59	213.51	5.00	358.13	297.45	43.20	45.08	270.90	5.57	72.03	297.60
12973	19.11	-1.65	-5.50	162.07	79.63	365.08	5.49	169.27	197.75	518.30	229.61	319.51	11.98	208.65	198.96
12974	19.17	-0.55	-5.50	160.65	78.16	359.40	8.94	166.78	201.49	511.36	246.18	322.98	11.15	206.16	201.54
12975	19.17	0.55	-5.50	160.65	78.16	359.39	8.95	166.78	201.49	511.36	246.17	322.97	11.17	206.16	201.55
12976	19.11	1.65	-5.50	162.07	79.62	365.04	5.49	169.27	197.75	518.30	229.58	319.48	12.02	208.65	198.97
12977	17.87	-1.65	-5.50	162.68	65.36	425.45	7.74	186.00	222.61	531.29	155.67	451.96	12.45	131.83	223.72
12978	17.93	-0.55	-5.50	164.08	64.88	422.90	4.44	184.62	224.61	531.34	163.52	457.33	6.40	129.53	224.70
12979	17.93	0.55	-5.50	164.07	64.88	422.89	4.43	184.62	224.61	531.34	163.51	457.32	6.41	129.53	224.71
12980	17.87	1.65	-5.50	162.67	65.35	425.42	7.73	186.00	222.61	531.28	155.64	451.93	12.46	131.83	223.73
12981	16.64	-1.65	-5.50	152.71	52.10	460.27	14.44	209.99	242.28	509.30	92.07	501.58	15.86	100.96	242.95
12982	16.69	-0.55	-5.50	154.39	51.96	459.42	12.94	209.18	243.76	511.68	95.79	506.12	13.23	100.18	243.83
12983	16.69	0.55	-5.50	154.39	51.96	459.42	12.94	209.18	243.76	511.67	95.79	506.11	13.23	100.19	243.84
12984	16.64	1.65	-5.50	152.70	52.10	460.25	14.44	209.99	242.29	509.29	92.06	501.56	15.85	100.97	242.97
12985	15.41	-1.65	-5.50	135.65	40.59	472.45	20.14	237.91	256.90	469.42	41.31	496.96	20.32	92.20	257.12
12986	15.46	-0.55	-5.50	137.11	40.50	471.99	19.36	237.67	258.24	473.47	43.14	500.89	19.40	92.42	258.26
12987	15.46	0.55	-5.50	137.10	40.50	471.99	19.36	237.67	258.24	473.46	43.14	500.88	19.39	92.42	258.27
12988	15.41	1.65	-5.50	135.64	40.59	472.45	20.13	237.91	256.91	469.41	41.32	496.95	20.31	92.20	257.14
12989	14.18	-1.65	-5.50	115.97	30.78	468.33	24.91	265.28	267.68	418.47	4.19	459.42	24.85	92.03	267.67
12990	14.22	-0.55	-5.50	117.19	30.65	467.77	24.54	265.49	268.94	423.19	4.15	462.71	24.53	92.90	268.94
12991	14.22	0.55	-5.50	117.19	30.66	467.77	24.54	265.50	268.95	423.18	4.21	462.71	24.53	92.90	268.95
12992	14.18	1.65	-5.50	115.96	30.79	468.33	24.91	265.29	267.69	418.45	4.36	459.42	24.85	92.03	267.68
12993	12.94	-1.65	-5.50	96.54	22.42	453.33	28.71	289.59	275.87	363.17	25.72	404.40	28.72	93.75	275.82
12994	12.98	-0.55	-5.50	97.56	22.26	452.50	28.61	290.08	277.07	367.78	25.64	406.44	28.61	95.17	277.07
12995	12.98	0.55	-5.50	97.56	22.27	452.50	28.61	290.08	277.08	367.77	25.65	406.45	28.61	95.17	277.07
12996	12.94	1.65	-5.50	96.52	22.43	453.35	28.71	289.59	275.89	363.14	25.74	404.43	28.73	93.74	275.84
12997	11.71	-1.65	-5.50	79.14	15.34	431.42	31.40	310.03	282.31	310.51	44.65	346.37	31.54	92.52	282.32
12998	11.75	-0.55	-5.50	80.01	15.15	430.24	31.51	310.69	283.46	314.74	45.25	346.76	31.52	94.28	283.46
12999	11.75	0.55	-5.50	80.00	15.15	430.25	31.51	310.69	283.46	314.73	45.25	346.78	31.53	94.28	283.46
13000	11.71	1.65	-5.50	79.12	15.35	431.45	31.40	310.03	282.32	310.48	44.65	346.41	31.56	92.51	282.33
13001	10.48	-1.65	-5.50	64.65	9.46	405.45	32.86	326.76	287.51	265.28	56.88	297.18	33.10	86.52	287.61
13002	10.51	-0.55	-5.50	65.37	9.20	403.92	33.12	327.52	288.63	269.02	57.92	295.88	33.15	88.41	288.64
13003	10.51	0.55	-5.50	65.36	9.20	403.93	33.13	327.53	288.63	269.01	57.91	295.90	33.16	88.40	288.64
13004	10.48	1.65	-5.50	64.63	9.45	405.50	32.87	326.77	287.52	265.25	56.87	297.24	33.11	86.50	287.63
13005	9.25	-1.65	-5.50	53.24	4.85	377.46	33.06	340.28	291.82	229.48	64.30	263.95	33.32	76.45	292.01
13006	9.27	-0.55	-5.50	53.83	4.43	375.58	33.42	341.10	292.93	232.70	65.56	261.22	33.45	78.28	292.95
13007	9.27	0.55	-5.50	53.82	4.42	375.59	33.42	341.11	292.93	232.69	65.56	261.24	33.45	78.28	292.95
13008	9.25														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
13035	0.62	0.55	-5.50	32.83	10.13	228.54	6.32	377.78	313.61	154.01	66.72	277.16	6.33	88.23	313.63
13036	0.62	1.65	-5.50	32.58	10.05	232.35	6.23	376.97	312.39	152.75	66.11	280.41	6.29	88.71	312.55
13037	19.11	-1.65	-6.90	252.31	71.42	439.65	11.79	175.13	229.85	1004.99	260.04	318.57	13.67	191.47	232.61
13038	19.17	-0.55	-6.90	250.74	72.45	438.03	15.61	174.30	231.18	994.35	276.73	318.57	16.61	191.44	231.45
13039	19.17	0.55	-6.90	250.74	72.45	438.02	15.61	174.30	231.19	994.36	276.72	318.56	16.60	191.44	231.46
13040	19.11	1.65	-6.90	252.31	71.41	439.62	11.80	175.14	229.86	1005.00	260.01	318.56	13.67	191.48	232.65
13041	17.87	-1.65	-6.90	228.43	55.62	491.81	5.06	201.39	252.48	970.72	171.49	451.06	5.73	157.75	253.89
13042	17.93	-0.55	-6.90	229.49	55.75	491.23	1.93	200.88	253.66	971.99	179.76	454.59	2.82	158.12	253.81
13043	17.93	0.55	-6.90	229.49	55.75	491.22	1.92	200.88	253.67	971.99	179.75	454.58	2.79	158.12	253.82
13044	17.87	1.65	-6.90	228.43	55.62	491.78	5.04	201.40	252.50	970.72	171.47	451.04	5.71	157.76	253.93
13045	16.64	-1.65	-6.90	201.21	41.46	516.98	16.55	235.20	269.81	895.26	93.76	504.22	16.39	131.60	270.35
13046	16.69	-0.55	-6.90	202.85	41.48	516.81	15.09	234.99	270.96	899.79	98.79	508.61	15.07	131.66	271.02
13047	16.69	0.55	-6.90	202.85	41.48	516.81	15.08	234.99	270.97	899.79	98.79	508.60	15.06	131.66	271.03
13048	16.64	1.65	-6.90	201.20	41.47	516.96	16.53	235.21	269.84	895.25	93.75	504.20	16.38	131.61	270.38
13049	15.41	-1.65	-6.90	173.66	29.57	520.91	26.01	267.67	282.91	804.51	33.08	497.29	26.28	109.45	283.01
13050	15.46	-0.55	-6.90	175.33	29.56	520.71	25.24	267.77	284.06	810.15	36.10	501.13	25.25	109.38	284.08
13051	15.46	0.55	-6.90	175.33	29.57	520.71	25.23	267.77	284.08	810.15	36.10	501.13	25.25	109.39	284.09
13052	15.41	1.65	-6.90	173.66	29.59	520.90	26.00	267.68	282.95	804.49	33.09	497.28	26.29	109.46	283.05
13053	14.18	-1.65	-6.90	147.87	20.18	509.85	33.07	295.91	292.68	713.23	20.81	457.85	34.03	90.08	292.65
13054	14.22	-0.55	-6.90	149.43	20.13	509.35	32.72	296.29	293.82	719.40	19.45	460.56	32.80	89.97	293.82
13055	14.22	0.55	-6.90	149.43	20.13	509.35	32.71	296.29	293.84	719.39	19.46	460.56	32.81	89.97	293.84
13056	14.18	1.65	-6.90	147.86	20.20	509.86	33.07	295.92	292.73	713.21	20.85	457.87	34.05	90.09	292.70
13057	12.94	-1.65	-6.90	125.14	13.54	489.17	38.06	319.24	299.95	628.21	51.18	405.50	39.59	74.78	299.94
13058	12.98	-0.55	-6.90	126.56	13.45	488.25	37.99	319.84	301.07	634.44	50.59	406.74	38.15	74.69	301.06
13059	12.98	0.55	-6.90	126.56	13.46	488.26	37.99	319.84	301.08	634.43	50.60	406.75	38.16	74.70	301.08
13060	12.94	1.65	-6.90	125.14	13.55	489.19	38.06	319.25	299.99	628.17	51.19	405.53	39.63	74.78	299.99
13061	11.71	-1.65	-6.90	105.99	10.34	462.74	41.19	337.98	305.35	552.77	73.16	353.53	43.04	64.84	305.44
13062	11.75	-0.55	-6.90	107.24	10.28	461.39	41.32	338.71	306.46	558.71	73.45	353.15	41.52	64.91	306.47
13063	11.75	0.55	-6.90	107.24	10.28	461.41	41.33	338.71	306.48	558.70	73.45	353.16	41.54	64.91	306.49
13064	11.71	1.65	-6.90	105.99	10.33	462.78	41.20	338.00	305.39	552.73	73.17	353.58	43.09	64.84	305.49
13065	10.48	-1.65	-6.90	90.36	10.66	433.23	42.59	352.78	309.40	488.46	87.35	310.89	44.53	59.16	309.59
13066	10.51	-0.55	-6.90	91.43	10.67	431.48	42.86	353.57	310.52	493.90	88.23	308.97	43.08	59.39	310.54
13067	10.51	0.55	-6.90	91.42	10.67	431.50	42.87	353.57	310.53	493.89	88.23	308.99	43.09	59.39	310.55
13068	10.48	1.65	-6.90	90.36	10.63	433.28	42.60	352.79	309.44	488.42	87.35	310.95	44.58	59.16	309.64
13069	9.25	-1.65	-6.90	77.85	12.66	402.50	42.35	364.34	312.48	435.45	95.74	282.20	44.22	55.75	312.76
13070	9.27	-0.55	-6.90	78.72	12.74	400.38	42.72	365.16	313.62	440.29	96.95	279.08	42.92	55.97	313.65
13071	9.27	0.55	-6.90	78.72	12.73	400.40	42.72	365.16	313.63	440.27	96.94	279.10	42.94	55.97	313.67
13072	9.25	1.65	-6.90	77.85	12.62	402.56	42.37	364.36	312.51	435.39	95.73	282.26	44.28	55.75	312.80
13073	8.01	-1.65	-6.90	67.90	14.82	371.91	40.61	373.29	314.91	392.84	100.02	267.62	42.32	54.06	315.24
13074	8.04	-0.55	-6.90	68.60	14.93	369.45	41.01	374.11	316.08	397.08	101.35	263.79	41.20	54.06	316.12
13075	8.04	0.55	-6.90	68.60	14.91	369.47	41.02	374.12	316.09	397.06	101.34	263.80	41.22	54.06	316.13
13076	8.01	1.65	-6.90	67.90	14.78	371.97	40.63	373.32	314.93	392.77	100.00	267.67	42.38	54.07	315.27
13077	6.78	-1.65	-6.90	59.99	16.60	342.57	37.50	380.13	316.94	359.17	101.43	263.94	39.03	55.26	317.28
13078	6.80	-0.55	-6.90	60.53	16.71	339.80	37.90	380.94	318.14	362.84	102.76	259.84	38.08	54.88	318.18
13079	6.80	0.55	-6.90	60.53	16.70	339.82	37.91	380.95	318.15	362.82	102.75	259.86	38.09	54.89	318.19
13080	6.78	1.65	-6.90	59.99	16.56	342.64	37.51	380.16	316.95	359.09	101.40	263.98	39.08	55.27	317.30
13081	5.55	-1.65	-6.90	53.75	17.89	315.52	33.19	385.22	318.77	332.73	100.89	266.85	34.55	60.64	319.09
13082	5.56	-0.55	-6.90	54.17	18.00	312.44	33.57	386.03	320.00	335.92	102.13	262.77	33.72	59.93	320.03
13083	5.56	0.55	-6.90	54.17	17.98	312.46	33.57	386.04	320.00	335.89	102.12	262.78	33.74	59.94	320.04
13084	5.55	1.65	-6.90	53.75	17.85	315.58	33.20	385.25	318.77	332.65	100.86	266.87	34.59	60.66	319.10
13085	4.31	-1.65	-6.90	49.03	18.74	291.79	27.88	388.84	320.54	311.88	99.01	272.77	29.09	70.24	320.83
13086	4.33	-0.55	-6.90	49.36	18.83	288.43	28.20	389.65	321.80	314.64	100.12	268.85	28.34	69.37	321.83
13087	4.33	0.55	-6.90	49.36	18.82	288.45	28.20	389.65	321.80	314.61	100.11	268.85	28.35	69.38	321.83
13088	4.31	1.65	-6.90	49.02	18.70	291.85	27.88	388.87	320.54	311.79	98.96	272.78	29.12	70.26	320.84
13089	3.08	-1.65	-6.90	45.87	19.23	272.49	21.74	391.20	322.36	295.13	96.20	279.47	22.86	82.91	322.61
13090	3.09	-0.55	-6.90	46.14	19.31	268.87	21.99	391.99	323.65	297.53	97.17	275.72	22.12	82.06	323.68
13091	3.09	0.55	-6.90	46.14	19.29	268.89	21.99	392.00	323.65	297.50	97.15	275.72	22.12	82.07	323.68
13092	3.08	1.65	-6.90	45.85	19.19	272.53	21.73	391.22	322.36	295.03	96.15	279.46	22.88	82.93	322.62
13093	1.85	-1.65	-6.90	44.39	19.45	258.71	14.97	392.41	324.32	281.23	92.73	285.78	16.08	97.29	324.52
13094	1.85	-0.55	-6.90	44.63	19.51	254.89	15.12	393.19	325.63	283.34	93.55	282.17	15.25	96.56	325.65
13095	1.85	0.55	-6.90	44.62	19.50	254.90	15.11	393.20	325.63	283.31	93.53	282.17	15.25	96.56	325.66
13096	1.85	1.65	-6.90	44.35	19.42	258.74	14.95	392.42	324.31	281.13	92.68	285.76	16.08	97.30	324.53
13097	0.62	-1.65	-6.90	44.63	19.49	251.38	7.76	392.56	326.43	269.19	88.79	291.23	9.09	112.24	326.59
13098	0.62	-0.55	-6.90	44.86	19.53	247.44	7.77	393.34	327.77	271.05	89.47	287.73	7.94	111.68	327.79
13099	0.62	0.55	-6.90	44.84	19.53	247.45	7.77	393.34	327.77	271.02	89.45	287.72	7.94	111.68	327.79
13100	0.62	1.65	-6.90	44.58	19.46	251.39	7.74	392.57	326.43	269.08	88.74	291.20	9.08	112.24	326.60
13101	19.11	-1.65	-8.30	338.01	68.99	531.65	12.43	177.64	269.44	1499.49	270.14	393.72	15.48	227.29	272.84
13102	19.17	-0.55	-8.30	337.79	71.03	531.47	15.77	176.78	270.75	1489.40	287.35	394.19	17.15	225.64	271.09
13103	19.17	0.55	-8.30	337.79	71.04	531.46	15.78	176.79	270.76	1489.41	287.34	394.19	17.12	225.65	271.11
13104	19.11	1.65	-8.30	338.01	69.01	531.62	12.44	177.67	269.47	1499.51	270.12	393.71	15.45	227.31	272.89
13105	17.87	-1.65	-8.30	285.56	51.39	567.97									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
13133	9.25	-1.65	-8.30	112.41	29.85	422.74	54.06	385.73	332.16	629.09	133.60	295.72	58.50	90.40	332.49
13134	9.27	-0.55	-8.30	113.45	30.12	420.37	54.36	386.44	333.38	635.52	134.86	292.05	54.87	89.39	333.41
13135	9.27	0.55	-8.30	113.46	30.11	420.39	54.37	386.45	333.40	635.50	134.86	292.07	54.91	89.40	333.44
13136	9.25	1.65	-8.30	112.43	29.84	422.80	54.09	385.76	332.23	629.01	133.59	295.78	58.61	90.43	332.56
13137	8.01	-1.65	-8.30	100.81	31.01	390.95	51.26	392.04	333.17	575.23	136.28	285.23	55.30	85.31	333.53
13138	8.04	-0.55	-8.30	101.64	31.25	388.25	51.60	392.73	334.47	580.99	137.71	281.11	52.06	84.19	334.51
13139	8.04	0.55	-8.30	101.64	31.25	388.27	51.61	392.74	334.49	580.96	137.71	281.13	52.10	84.20	334.53
13140	8.01	1.65	-8.30	100.84	30.98	391.01	51.29	392.07	333.22	575.15	136.27	285.28	55.41	85.34	333.59
13141	6.78	-1.65	-8.30	90.32	31.67	360.99	46.89	396.67	333.91	530.17	135.86	282.65	50.52	86.15	334.27
13142	6.80	-0.55	-8.30	90.95	31.89	358.00	47.24	397.35	335.29	535.25	137.31	278.41	47.66	84.97	335.33
13143	6.80	0.55	-8.30	90.96	31.88	358.02	47.26	397.36	335.30	535.22	137.30	278.42	47.69	84.98	335.35
13144	6.78	1.65	-8.30	90.35	31.64	361.06	46.92	396.70	333.95	530.08	135.83	282.69	50.62	86.18	334.32
13145	5.55	-1.65	-8.30	80.88	31.91	333.76	41.18	399.96	334.60	492.41	133.29	284.77	44.44	91.80	334.93
13146	5.56	-0.55	-8.30	81.36	32.10	330.49	41.52	400.63	336.04	496.85	134.66	280.59	41.89	90.61	336.07
13147	5.56	0.55	-8.30	81.37	32.09	330.50	41.53	400.65	336.05	496.81	134.65	280.60	41.92	90.62	336.09
13148	5.55	1.65	-8.30	80.91	31.88	333.82	41.21	400.00	334.62	492.30	133.26	284.79	44.52	91.83	334.97
13149	4.31	-1.65	-8.30	72.69	31.84	310.15	34.37	402.17	335.38	460.59	129.26	289.11	37.33	101.24	335.67
13150	4.33	-0.55	-8.30	73.05	31.98	306.62	34.66	402.84	336.88	464.45	130.50	285.07	35.00	100.13	336.91
13151	4.33	0.55	-8.30	73.05	31.97	306.63	34.66	402.85	336.88	464.42	130.49	285.08	35.02	100.14	336.92
13152	4.31	1.65	-8.30	72.71	31.80	310.20	34.38	402.20	335.40	460.47	129.21	289.12	37.40	101.27	335.70
13153	3.08	-1.65	-8.30	66.17	31.55	291.14	26.66	403.46	336.38	433.53	124.22	294.14	29.46	113.45	336.62
13154	3.09	-0.55	-8.30	66.45	31.65	287.37	26.88	404.13	337.91	436.88	125.31	290.25	27.21	112.46	337.94
13155	3.09	0.55	-8.30	66.45	31.64	287.38	26.88	404.14	337.92	436.84	125.29	290.25	27.23	112.47	337.95
13156	3.08	1.65	-8.30	66.18	31.52	291.18	26.66	403.49	336.38	433.40	124.17	294.14	29.51	113.47	336.64
13157	1.85	-1.65	-8.30	61.91	31.16	277.67	18.29	403.97	337.64	410.20	118.49	299.04	21.14	127.39	337.84
13158	1.85	-0.55	-8.30	62.13	31.23	273.72	18.41	404.64	339.22	413.09	119.41	295.26	18.76	126.57	339.24
13159	1.85	0.55	-8.30	62.13	31.22	273.73	18.41	404.65	339.22	413.05	119.39	295.26	18.77	126.58	339.24
13160	1.85	1.65	-8.30	61.89	31.13	277.69	18.29	403.99	337.64	410.06	118.43	299.02	21.17	127.40	337.85
13161	0.62	-1.65	-8.30	60.39	30.76	270.53	9.50	403.79	339.21	389.73	112.27	303.44	12.96	142.16	339.36
13162	0.62	-0.55	-8.30	60.59	30.81	266.48	9.45	404.45	340.82	392.24	113.03	299.75	9.92	141.54	340.83
13163	0.62	0.55	-8.30	60.57	30.81	266.48	9.45	404.45	340.82	392.19	113.01	299.75	9.92	141.54	340.84
13164	0.62	1.65	-8.30	60.35	30.74	270.54	9.49	403.80	339.21	389.59	112.21	303.42	12.96	142.17	339.37
13165	23.52	-1.65	-2.70	266.87	385.94	238.81	231.45	137.87	247.03	435.20	774.55	912.41	308.50	675.53	1300.06
13166	23.57	-0.55	-2.70	20.68	178.11	20.12	25.99	15.82	73.55	75.81	209.36	226.28	77.58	42.75	218.60
13167	23.57	0.55	-2.70	20.68	178.14	20.12	26.00	15.82	73.57	75.81	209.37	226.28	77.54	42.74	218.44
13168	23.52	1.65	-2.70	266.85	385.97	238.78	231.45	137.87	247.03	435.25	774.39	912.28	308.50	675.49	1299.80
13169	22.67	-1.65	-2.70	219.17	154.47	179.80	154.60	133.24	165.50	600.93	543.45	531.26	191.99	564.60	488.56
13170	22.73	-0.55	-2.70	80.67	168.77	28.61	100.17	24.05	85.15	333.05	136.57	113.39	149.95	151.35	183.25
13171	22.73	0.55	-2.70	80.66	168.76	28.60	100.19	24.05	85.15	333.06	136.58	113.39	149.88	151.34	183.12
13172	22.67	1.65	-2.70	219.14	154.40	179.79	154.62	133.24	165.50	600.98	543.31	531.16	191.94	564.58	488.38
13173	21.83	-1.65	-2.70	182.06	139.92	164.04	109.96	132.26	138.25	742.61	432.38	296.91	113.42	473.75	251.51
13174	21.89	-0.55	-2.70	112.29	157.69	30.21	71.85	41.07	74.49	627.41	190.41	47.24	90.88	212.10	100.74
13175	21.89	0.55	-2.70	112.29	157.65	30.21	71.88	41.07	74.49	627.42	190.37	47.24	90.79	212.09	100.65
13176	21.83	1.65	-2.70	182.04	139.82	164.04	110.00	123.26	138.26	742.66	432.26	296.82	113.48	473.74	251.37
13177	20.99	-1.65	-2.70	156.97	135.23	158.14	86.05	119.02	130.24	856.09	295.27	141.04	134.66	454.72	164.30
13178	21.05	-0.55	-2.70	120.65	149.84	41.57	27.28	53.74	74.96	882.62	210.60	59.26	29.49	284.03	85.22
13179	21.05	0.55	-2.70	120.65	149.80	41.57	27.34	53.73	74.96	882.62	210.57	59.25	29.40	284.02	85.16
13180	20.99	1.65	-2.70	156.95	135.14	158.14	86.11	119.01	130.24	856.12	295.16	140.99	134.83	454.71	164.19
13181	20.14	-1.65	-2.70	125.65	120.46	187.01	90.73	129.10	142.63	995.41	130.81	391.00	117.33	563.05	170.08
13182	20.20	-0.55	-2.70	98.11	125.76	121.27	59.21	89.73	113.97	1175.24	112.15	483.37	58.91	536.11	120.82
13183	20.20	0.55	-2.70	98.11	125.74	121.26	59.24	89.71	113.96	1175.24	112.13	483.36	58.92	536.09	120.75
13184	20.14	1.65	-2.70	125.65	120.41	187.00	90.78	129.08	142.62	995.42	130.76	390.99	117.50	563.02	169.95
13185	23.52	-1.65	-4.10	140.62	153.59	155.78	94.47	114.86	178.75	162.51	437.09	923.36	92.54	793.55	1131.60
13186	23.57	-0.55	-4.10	6.56	96.87	101.20	21.16	9.13	141.88	6.15	617.72	680.28	31.78	143.01	359.22
13187	23.57	0.55	-4.10	6.56	96.86	101.20	21.16	9.12	141.90	6.15	617.70	680.26	31.79	143.01	358.90
13188	23.52	1.65	-4.10	140.62	153.60	155.75	94.48	114.86	178.79	162.50	437.10	923.35	92.53	793.52	1131.28
13189	22.67	-1.65	-4.10	100.70	126.18	152.13	44.29	131.83	132.67	143.66	383.31	612.07	40.27	744.41	371.10
13190	22.73	-0.55	-4.10	42.73	117.10	102.46	66.90	57.03	151.05	85.88	498.51	424.22	68.55	439.40	272.98
13191	22.73	0.55	-4.10	42.73	117.09	102.46	66.91	57.03	151.06	85.88	498.50	424.20	68.57	439.39	272.72
13192	22.67	1.65	-4.10	100.71	126.14	152.11	44.31	131.83	132.68	143.65	383.27	612.06	40.27	744.40	370.86
13193	21.83	-1.65	-4.10	78.57	123.69	164.72	19.78	135.19	121.06	150.56	349.31	346.64	20.76	623.57	172.65
13194	21.89	-0.55	-4.10	52.88	114.86	116.62	54.94	92.22	146.17	149.52	411.60	229.13	57.16	501.66	171.89
13195	21.89	0.55	-4.10	52.88	114.84	116.61	54.95	92.22	146.17	149.52	411.58	229.12	57.18	501.65	171.74
13196	21.83	1.65	-4.10	78.58	123.65	164.71	19.82	135.19	121.07	150.55	349.28	346.64	20.80	623.55	172.47
13197	20.99	-1.65	-4.10	73.68	114.04	195.55	12.04	142.15	129.08	137.03	291.04	144.63	18.46	530.72	139.57
13198	21.05	-0.55	-4.10	60.75	107.72	153.13	29.70	117.62	150.53	162.46	335.25	105.52	34.11	488.78	155.57
13199	21.05	0.55	-4.10	60.75	107.70	153.13	29.71	117.61	150.53	162.46	335.23	105.51	34.16	488.77	155.49
13200	20.99	1.65	-4.10	73.69	114.02	195.52	12.04	142.14	129.08	137.03	291.01	144.63	18.54	530.70	139.47
13201	20.14	-1.65	-4.10	85.34	102.74	244.77	15.48	149.33	146.37	41.48	240.55	257.75	26.97	386.28	148.62
13202	20.20	-0.55	-4.10	81.11	101.11	213.51	15.08	134.47	161.13	42.11	280.75	286.26	21.96	360.48	



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
13231	22.73	0.55	-6.90	107.66	127.14	119.50	70.26	143.73	132.96	262.43	569.26	790.21	122.48	371.79	177.77
13232	22.67	1.65	-6.90	232.97	117.71	128.86	88.75	184.31	129.11	632.23	470.36	871.91	237.79	558.23	215.51
13233	21.83	-1.65	-6.90	262.00	107.36	216.46	52.77	191.60	154.83	788.75	433.19	640.63	123.65	386.67	155.41
13234	21.89	-0.55	-6.90	203.30	120.99	208.60	65.46	179.24	159.51	588.74	535.17	618.37	93.23	335.77	161.65
13235	21.89	0.55	-6.90	203.30	120.99	208.58	65.46	179.24	159.51	588.75	535.16	618.39	93.24	335.78	161.59
13236	21.83	1.65	-6.90	262.01	107.35	216.42	52.78	191.60	154.82	788.78	433.16	640.69	123.66	386.68	155.36
13237	20.99	-1.65	-6.90	271.01	96.38	301.43	36.47	179.61	182.45	910.53	388.86	376.39	58.57	287.37	184.83
13238	21.05	-0.55	-6.90	246.72	104.38	296.40	48.91	175.81	185.40	816.94	452.99	367.53	58.87	274.64	185.41
13239	21.05	0.55	-6.90	246.72	104.38	296.39	48.91	175.81	185.40	816.95	452.98	367.54	58.88	274.64	185.41
13240	20.99	1.65	-6.90	271.01	96.38	301.40	36.49	179.62	182.45	910.56	388.83	376.44	58.58	287.38	184.86
13241	20.14	-1.65	-6.90	267.28	85.25	373.77	25.25	170.00	206.25	984.76	335.33	232.71	30.67	232.42	209.88
13242	20.20	-0.55	-6.90	258.53	88.67	370.72	33.02	168.55	208.07	946.60	369.40	226.71	36.08	229.72	208.33
13243	20.20	0.55	-6.90	258.53	88.67	370.70	33.03	168.56	208.07	946.61	369.39	226.72	36.08	229.72	208.33
13244	20.14	1.65	-6.90	267.29	85.24	373.73	25.27	170.01	206.25	984.78	335.29	232.74	30.67	232.42	209.92
13245	23.52	-1.65	-8.30	488.53	185.58	80.67	144.06	274.30	97.73	1015.85	624.10	1286.52	397.02	455.36	615.11
13246	23.57	-0.55	-8.30	374.60	122.56	129.21	87.51	277.90	56.04	465.44	428.72	924.21	88.84	291.52	143.37
13247	23.57	0.55	-8.30	374.60	122.54	129.21	87.51	277.90	56.04	465.44	428.72	924.23	88.85	291.52	142.94
13248	23.52	1.65	-8.30	488.54	185.53	80.64	144.07	274.30	97.73	1015.90	624.10	1286.58	397.08	455.35	614.65
13249	22.67	-1.65	-8.30	506.04	143.46	161.69	108.89	253.65	138.54	1387.30	575.04	1115.61	293.24	276.49	197.03
13250	22.73	-0.55	-8.30	431.24	147.87	151.42	112.16	266.32	142.33	960.22	699.73	1023.80	165.33	285.11	170.53
13251	22.73	0.55	-8.30	431.24	147.86	151.40	112.16	266.32	142.32	960.23	699.73	1023.82	165.33	285.11	170.31
13252	22.67	1.65	-8.30	506.04	143.46	161.64	108.90	253.65	138.52	1387.35	575.03	1115.67	293.26	276.50	196.75
13253	21.83	-1.65	-8.30	477.07	121.97	296.97	77.23	199.47	187.44	1570.59	519.72	707.07	156.55	201.61	187.36
13254	21.89	-0.55	-8.30	440.25	133.67	291.70	92.14	207.43	192.03	1346.20	637.99	688.46	122.52	214.14	192.98
13255	21.89	0.55	-8.30	440.26	133.68	291.69	92.15	207.43	192.03	1346.22	637.99	688.48	122.52	214.14	192.94
13256	21.83	1.65	-8.30	477.08	121.98	296.93	77.25	199.47	187.44	1570.64	519.70	707.12	156.54	201.62	187.36
13257	20.99	-1.65	-8.30	434.12	103.29	400.63	53.97	160.43	222.41	1618.29	449.87	375.65	80.79	170.54	227.39
13258	21.05	-0.55	-8.30	418.63	111.43	398.16	64.69	163.41	225.21	1517.82	518.59	371.22	76.01	163.60	225.34
13259	21.05	0.55	-8.30	418.63	111.44	398.15	64.70	163.41	225.21	1517.83	518.59	371.23	76.00	163.61	225.35
13260	20.99	1.65	-8.30	434.13	103.30	400.60	54.00	160.44	222.42	1618.34	449.85	375.70	80.78	170.56	227.45
13261	20.14	-1.65	-8.30	389.45	86.80	474.78	33.73	151.81	247.59	1589.70	370.33	289.85	42.57	186.47	253.14
13262	20.20	-0.55	-8.30	384.30	91.17	473.69	40.41	151.92	249.32	1549.72	405.23	287.07	44.27	180.12	249.76
13263	20.20	0.55	-8.30	384.30	91.17	473.68	40.42	151.92	249.33	1549.74	405.23	287.08	44.26	180.13	249.78
13264	20.14	1.65	-8.30	389.46	86.81	474.75	33.76	151.83	247.61	1589.74	370.31	289.86	42.56	186.49	253.21
13265	-0.62	-1.65	-2.70	30.54	10.68	195.31	1.11	336.54	285.58	44.62	28.10	265.98	5.12	70.58	285.68
13266	-0.62	-0.55	-2.70	30.52	10.57	191.86	0.50	337.30	286.74	44.46	28.35	263.37	1.74	70.39	286.75
13267	-0.62	0.55	-2.70	30.50	10.56	191.86	0.49	337.30	286.74	44.48	28.34	263.36	1.74	70.39	286.75
13268	-0.62	1.65	-2.70	30.50	10.66	195.30	1.11	336.54	285.58	44.66	28.06	265.95	5.12	70.58	285.68
13269	-1.85	-1.65	-2.70	28.68	11.78	201.91	4.97	334.13	289.00	34.71	29.15	267.78	6.73	77.92	289.07
13270	-1.85	-0.55	-2.70	28.55	11.64	198.64	4.94	334.87	290.20	34.34	29.35	265.21	5.17	77.85	290.20
13271	-1.85	0.55	-2.70	28.53	11.63	198.63	4.95	334.87	290.20	34.35	29.34	265.20	5.18	77.85	290.21
13272	-1.85	1.65	-2.70	28.63	11.75	201.90	4.98	334.13	289.00	34.75	29.11	267.74	6.75	77.93	289.08
13273	-3.08	-1.65	-2.70	27.03	13.18	214.12	9.58	329.79	292.13	28.14	30.23	267.94	10.46	83.53	292.19
13274	-3.09	-0.55	-2.70	26.76	13.01	211.12	9.66	330.51	293.37	27.55	30.39	265.40	9.76	83.56	293.38
13275	-3.09	0.55	-2.70	26.75	13.00	211.11	9.67	330.50	293.38	27.56	30.37	265.39	9.77	83.56	293.38
13276	-3.08	1.65	-2.70	26.99	13.15	214.09	9.59	329.79	292.14	28.18	30.20	267.90	10.48	83.53	292.20
13277	-4.31	-1.65	-2.70	25.49	14.85	230.78	14.31	323.45	294.91	24.78	31.35	266.63	14.83	87.16	294.95
13278	-4.33	-0.55	-2.70	25.04	14.64	228.12	14.46	324.13	296.20	23.95	31.46	264.11	14.51	87.28	296.20
13279	-4.33	0.55	-2.70	25.03	14.63	228.11	14.46	324.12	296.20	23.95	31.45	264.09	14.52	87.28	296.21
13280	-4.31	1.65	-2.70	25.45	14.82	230.75	14.32	323.44	294.92	24.81	31.32	266.59	14.85	87.17	294.97
13281	-5.55	-1.65	-2.70	23.99	16.80	250.64	19.05	315.00	297.23	24.35	32.54	263.97	19.41	88.70	297.26
13282	-5.56	-0.55	-2.70	23.31	16.56	248.32	19.25	315.64	298.56	23.30	32.61	261.44	19.29	88.86	298.57
13283	-5.56	0.55	-2.70	23.29	16.55	248.31	19.25	315.63	298.57	23.31	32.60	261.43	19.29	88.86	298.57
13284	-5.55	1.65	-2.70	23.94	16.78	250.60	19.06	314.99	297.24	24.37	32.50	263.92	19.42	88.70	297.28
13285	-6.78	-1.65	-2.70	22.56	19.07	272.50	23.76	304.35	298.99	26.60	33.84	260.00	24.03	88.02	299.01
13286	-6.80	-0.55	-2.70	21.56	18.79	270.53	24.00	304.92	300.36	25.42	33.89	257.48	24.03	88.19	300.36
13287	-6.80	0.55	-2.70	21.55	18.78	270.51	24.00	304.92	300.36	25.42	33.88	257.47	24.03	88.20	300.37
13288	-6.78	1.65	-2.70	22.51	19.04	272.46	23.76	304.33	299.01	26.61	33.81	259.96	24.03	88.03	299.02
13289	-8.01	-1.65	-2.70	21.33	21.67	295.30	28.42	291.35	300.05	31.45	35.32	254.82	28.63	85.06	300.06
13290	-8.04	-0.55	-2.70	19.95	21.37	293.66	28.69	291.85	301.45	30.22	35.34	252.30	28.71	85.20	301.45
13291	-8.04	0.55	-2.70	19.93	21.36	293.64	28.69	291.84	301.46	30.22	35.33	252.29	28.71	85.20	301.46
13292	-8.01	1.65	-2.70	21.27	21.64	295.26	28.42	291.34	300.07	31.45	35.30	254.78	28.62	85.07	300.07
13293	-9.25	-1.65	-2.70	20.61	24.65	318.08	33.06	275.90	300.28	38.87	37.05	248.59	33.23	79.80	300.27
13294	-9.27	-0.55	-2.70	18.79	24.33	316.76	33.34	276.29	301.69	37.68	37.05	246.09	33.36	79.83	301.69
13295	-9.27	0.55	-2.70	18.76	24.32	316.75	33.33	276.29	301.70	37.68	37.04	246.08	33.35	79.84	301.70
13296	-9.25	1.65	-2.70	20.54	24.63	318.05	33.05	275.89	300.30	38.86	37.03	248.55	33.21	79.82	300.28
13297	-10.48	-1.65	-2.70	20.82	28.06	339.95	37.75	257.91	299.52	48.84	39.10	241.77	37.89	72.36	299.49
13298	-10.51	-0.55	-2.70	18.58	27.71	338.92	38.04	258.16	300.93	47.73	39.09	239.30	38.05	72.19	300.93
13299	-10.51	0.55	-2.70	18.55	27.70	338.91	38.03	258.16	300.94	47.73	39.08	239.29	38.05	72.20	300.93
13300	-10.48	1.65	-2.70	20.74	28.03	339.91	37.73	257.90	299.53	48.83	39.08	241.73	37.87	72.39	299.50
13301	-11.71	-1.65	-												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
13329	-0.62	-1.65	-4.10	28.38	6.65	213.47	0.38	357.41	300.61	48.45	44.76	275.45	2.44	83.43	300.72
13330	-0.62	-0.55	-4.10	28.47	6.61	209.83	0.17	358.21	301.81	48.97	45.15	272.53	0.81	83.19	301.82
13331	-0.62	0.55	-4.10	28.45	6.60	209.83	0.17	358.21	301.81	48.95	45.13	272.52	0.82	83.19	301.82
13332	-0.62	1.65	-4.10	28.32	6.60	213.46	0.39	357.40	300.61	48.39	44.71	275.41	2.45	83.44	300.73
13333	-1.85	-1.65	-4.10	28.63	7.68	220.17	5.47	355.02	303.63	51.69	44.28	278.32	5.97	93.63	303.72
13334	-1.85	-0.55	-4.10	28.66	7.61	216.68	5.52	355.81	304.87	52.21	44.59	275.45	5.57	93.53	304.88
13335	-1.85	0.55	-4.10	28.64	7.59	216.68	5.52	355.81	304.87	52.19	44.57	275.44	5.58	93.53	304.88
13336	-1.85	1.65	-4.10	28.56	7.63	220.15	5.49	355.02	303.63	51.63	44.23	278.28	5.99	93.63	303.73
13337	-3.08	-1.65	-4.10	28.76	8.79	232.90	10.88	350.92	306.46	52.74	43.72	279.74	11.14	102.13	306.53
13338	-3.09	-0.55	-4.10	28.72	8.67	229.67	11.00	351.69	307.75	53.24	43.95	276.89	11.03	102.17	307.76
13339	-3.09	0.55	-4.10	28.70	8.65	229.66	11.01	351.68	307.75	53.23	43.94	276.88	11.04	102.17	307.76
13340	-3.08	1.65	-4.10	28.70	8.74	232.87	10.90	350.91	306.47	52.69	43.67	279.69	11.16	102.13	306.55
13341	-4.31	-1.65	-4.10	28.58	10.04	250.52	16.28	345.01	309.02	51.50	43.11	279.85	16.46	108.65	309.08
13342	-4.33	-0.55	-4.10	28.44	9.87	247.60	16.46	345.75	310.36	51.95	43.28	277.01	16.48	108.82	310.37
13343	-4.33	0.55	-4.10	28.42	9.85	247.59	16.47	345.74	310.36	51.93	43.27	277.00	16.49	108.82	310.37
13344	-4.31	1.65	-4.10	28.52	10.00	250.48	16.29	344.99	309.04	51.44	43.07	279.80	16.48	108.65	309.09
13345	-5.55	-1.65	-4.10	27.89	11.52	271.78	21.57	337.16	311.21	47.91	42.52	278.74	21.72	112.99	311.25
13346	-5.56	-0.55	-4.10	27.61	11.29	269.20	21.81	337.87	312.59	48.26	42.64	275.90	21.82	113.25	312.59
13347	-5.56	0.55	-4.10	27.59	11.28	269.18	21.81	337.87	312.59	48.25	42.63	275.88	21.82	113.25	312.60
13348	-5.55	1.65	-4.10	27.84	11.48	271.74	21.57	337.15	311.22	47.86	42.48	278.69	21.73	112.99	311.26
13349	-6.78	-1.65	-4.10	26.56	13.31	295.48	26.67	327.23	312.87	42.02	42.00	276.43	26.81	114.97	312.90
13350	-6.80	-0.55	-4.10	26.06	13.03	293.24	26.95	327.90	314.29	42.20	42.09	273.58	26.96	115.30	314.30
13351	-6.80	0.55	-4.10	26.04	13.02	293.22	26.95	327.90	314.30	42.18	42.08	273.56	26.96	115.30	314.30
13352	-6.78	1.65	-4.10	26.50	13.28	295.43	26.67	327.21	312.88	41.97	41.97	276.38	26.80	114.97	312.91
13353	-8.01	-1.65	-4.10	24.49	15.49	320.54	31.53	315.02	313.84	33.95	41.62	272.92	31.66	114.40	313.85
13354	-8.04	-0.55	-4.10	23.66	15.17	318.63	31.84	315.65	315.30	33.81	41.68	270.07	31.86	114.77	315.30
13355	-8.04	0.55	-4.10	23.63	15.16	318.61	31.84	315.65	315.30	33.79	41.67	270.05	31.85	114.77	315.30
13356	-8.01	1.65	-4.10	24.42	15.46	320.49	31.53	315.01	313.85	33.90	41.60	272.87	31.65	114.41	313.86
13357	-9.25	-1.65	-4.10	21.70	18.14	345.96	36.14	300.33	313.91	24.11	41.44	268.26	36.26	111.13	313.91
13358	-9.27	-0.55	-4.10	20.35	17.79	344.38	36.47	300.89	315.39	23.30	41.47	265.42	36.49	111.49	315.39
13359	-9.27	0.55	-4.10	20.32	17.78	344.36	36.47	300.89	315.39	23.28	41.47	265.40	36.48	111.49	315.39
13360	-9.25	1.65	-4.10	21.62	18.11	345.91	36.13	300.32	313.92	24.05	41.42	268.21	36.24	111.14	313.91
13361	-10.48	-1.65	-4.10	18.49	21.33	370.75	40.54	282.95	312.83	14.29	41.50	262.62	40.65	105.01	312.82
13362	-10.51	-0.55	-4.10	16.29	20.96	369.50	40.88	283.41	314.33	11.61	41.53	259.81	40.90	105.30	314.33
13363	-10.51	0.55	-4.10	16.25	20.95	369.48	40.88	283.41	314.33	11.57	41.53	259.80	40.89	105.30	314.33
13364	-10.48	1.65	-4.10	18.38	21.30	370.71	40.52	282.94	312.84	14.20	41.49	262.58	40.62	105.03	312.82
13365	-11.71	-1.65	-4.10	15.69	25.12	393.88	44.85	262.68	310.33	13.80	41.85	256.55	44.94	95.95	310.30
13366	-11.75	-0.55	-4.10	12.18	24.75	392.94	45.19	263.00	311.83	9.51	41.89	253.80	45.20	96.08	311.82
13367	-11.75	0.55	-4.10	12.11	24.74	392.93	45.19	263.00	311.83	9.44	41.89	253.79	45.20	96.08	311.82
13368	-11.71	1.65	-4.10	15.55	25.10	393.84	44.82	262.68	310.34	13.67	41.85	256.51	44.91	95.97	310.31
13369	-12.94	-1.65	-4.10	15.02	29.61	414.16	49.28	239.46	306.06	26.50	42.51	251.29	49.36	84.04	306.01
13370	-12.98	-0.55	-4.10	10.27	29.23	413.52	49.63	239.57	307.53	23.99	42.57	248.67	49.64	83.87	307.53
13371	-12.98	0.55	-4.10	10.19	29.23	413.52	49.62	239.57	307.53	23.95	42.57	248.66	49.63	83.88	307.52
13372	-12.94	1.65	-4.10	14.86	29.58	414.14	49.26	239.46	306.06	26.39	42.52	251.25	49.33	84.06	306.01
13373	-14.18	-1.65	-4.10	17.82	34.86	430.23	54.23	213.49	299.55	43.04	43.46	249.45	54.28	69.82	299.48
13374	-14.22	-0.55	-4.10	13.24	34.50	429.85	54.58	213.32	300.97	41.26	43.56	247.07	54.58	69.19	300.97
13375	-14.22	0.55	-4.10	13.17	34.49	429.84	54.57	213.32	300.97	41.21	43.57	247.06	54.57	69.20	300.96
13376	-14.18	1.65	-4.10	17.68	34.84	430.21	54.20	213.50	299.54	42.90	43.48	249.40	54.25	69.84	299.48
13377	-15.41	-1.65	-4.10	23.19	41.05	440.38	60.28	185.64	290.06	59.98	44.60	255.76	60.31	55.19	289.98
13378	-15.46	-0.55	-4.10	19.31	40.70	440.18	60.65	185.12	291.41	58.53	44.75	253.82	60.65	53.86	291.40
13379	-15.46	0.55	-4.10	19.27	40.69	440.17	60.64	185.12	291.40	58.46	44.76	253.79	60.64	53.87	291.40
13380	-15.41	1.65	-4.10	23.09	41.04	440.35	60.26	185.65	290.04	59.80	44.62	255.69	60.28	55.20	289.96
13381	-16.64	-1.65	-4.10	29.44	48.44	442.61	68.42	158.23	276.09	74.28	45.62	277.61	68.43	46.07	276.01
13382	-16.69	-0.55	-4.10	25.94	48.07	442.48	68.82	157.33	277.33	72.89	45.84	276.42	68.82	44.11	277.32
13383	-16.69	0.55	-4.10	25.91	48.07	442.46	68.81	157.33	277.32	72.81	45.83	276.37	68.81	44.11	277.31
13384	-16.64	1.65	-4.10	29.37	48.43	442.55	68.89	158.25	276.06	74.04	45.62	277.47	68.39	46.08	275.98
13385	-17.87	-1.65	-4.10	35.29	57.96	429.31	79.88	138.77	253.05	79.14	44.53	318.18	79.89	59.89	253.01
13386	-17.93	-0.55	-4.10	31.77	57.57	429.19	80.37	137.64	254.10	77.38	44.79	318.14	80.37	58.64	254.10
13387	-17.93	0.55	-4.10	31.75	57.57	429.16	80.35	137.64	254.10	77.30	44.76	318.06	80.35	58.64	254.09
13388	-17.87	1.65	-4.10	35.24	57.96	429.19	79.81	138.78	253.03	78.86	44.45	317.92	79.83	59.91	252.99
13389	-19.11	-1.65	-4.10	36.95	71.45	370.08	88.77	137.36	214.13	70.80	33.54	334.61	88.81	121.89	214.23
13390	-19.17	-0.55	-4.10	33.18	71.16	369.80	89.30	136.44	214.80	68.39	33.65	335.54	89.30	122.28	214.81
13391	-19.17	0.55	-4.10	33.16	71.17	369.75	89.28	136.43	214.82	68.30	33.60	335.42	89.28	122.26	214.83
13392	-19.11	1.65	-4.10	36.89	71.44	369.93	88.68	137.31	214.20	70.52	33.40	334.25	88.73	121.82	214.30
13393	-0.62	-1.65	-5.50	34.29	10.42	232.10	0.73	376.13	315.09	149.71	63.98	285.20	0.60	102.24	315.22
13394	-0.62	-0.55	-5.50	34.48	10.46	228.30	0.24	376.94	316.35	150.82	64.45	282.01	0.22	101.93	316.36
13395	-0.62	0.55	-5.50	34.46	10.45	228.30	0.26	376.94	316.35	150.79	64.43	282.00	0.21	101.93	316.37
13396	-0.62	1.65	-5.50	34.22	10.39	232.10	0.75	376.13	315.09	149.63	63.92	285.17	0.59	102.24	315.22
13397	-1.85	-1.65	-5.50	36.22	10.62	238.82	6.43	373.93	317.79	145.85	61.58	288.66	6.38	114.67	317.88
13398	-1.85	-0.55	-5.50	36.39	10.64	235.15	6.44	374.72	319.09	146.89	61.95	285.51	6.44	114.53	319.10
13399	-1.85	0.55	-5.50	36.37	10.63	235.14	6.45	374.72	319.09	146.86	61.94	285.49	6.44	114.53	319.10
13400	-1.85	1.65	-5.50	36.14											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
13427	-10.51	0.55	-5.50	30.42	15.31	398.71	45.44	311.41	329.08	77.21	44.16	279.70	45.44	143.22	329.08
13428	-10.48	1.65	-5.50	31.19	15.65	400.20	45.07	310.79	327.55	77.04	44.15	282.85	45.09	142.67	327.55
13429	-11.71	-1.65	-5.50	24.91	18.66	426.66	48.76	292.44	325.12	60.76	42.14	277.98	48.78	134.85	325.11
13430	-11.75	-0.55	-5.50	23.30	18.27	425.51	49.13	292.96	326.64	60.51	42.16	274.83	49.13	135.34	326.64
13431	-11.75	0.55	-5.50	23.26	18.26	425.50	49.12	292.95	326.64	60.51	42.16	274.83	49.12	135.34	326.64
13432	-11.71	1.65	-5.50	24.80	18.64	426.62	48.74	292.43	325.10	60.74	42.14	277.93	48.76	134.84	325.09
13433	-12.94	-1.65	-5.50	17.57	22.67	450.34	52.00	270.92	320.63	43.80	40.22	272.71	52.04	122.91	320.63
13434	-12.98	-0.55	-5.50	14.25	22.27	449.56	52.40	271.28	322.16	42.87	40.27	269.69	52.40	123.25	322.16
13435	-12.98	0.55	-5.50	14.19	22.26	449.55	52.39	271.28	322.15	42.87	40.27	269.68	52.39	123.24	322.15
13436	-12.94	1.65	-5.50	17.43	22.65	450.31	52.00	270.92	320.63	43.79	40.23	272.66	52.01	122.90	320.61
13437	-14.18	-1.65	-5.50	13.10	27.84	469.31	55.03	246.23	313.55	27.86	38.23	268.47	55.02	106.30	313.52
13438	-14.22	-0.55	-5.50	6.36	27.45	468.89	55.41	246.34	315.03	25.55	38.34	265.66	55.41	106.35	315.02
13439	-14.22	0.55	-5.50	6.25	27.45	468.88	55.41	246.34	315.02	25.54	38.35	265.64	55.40	106.34	315.01
13440	-14.18	1.65	-5.50	12.95	27.83	469.28	55.01	246.24	313.53	27.84	38.26	268.42	55.00	106.28	313.50
13441	-15.41	-1.65	-5.50	18.64	34.37	480.64	57.93	218.97	302.94	17.01	35.85	267.99	57.91	84.70	302.90
13442	-15.46	-0.55	-5.50	14.07	34.02	480.52	58.33	218.75	304.35	11.57	36.03	265.56	58.33	84.28	304.35
13443	-15.46	0.55	-5.50	14.04	34.02	480.51	58.32	218.76	304.35	11.53	36.04	265.53	58.32	84.27	304.34
13444	-15.41	1.65	-5.50	18.58	34.37	480.60	57.91	218.98	302.92	16.94	35.88	267.91	57.88	84.66	302.89
13445	-16.64	-1.65	-5.50	30.08	42.61	479.11	60.69	191.27	287.42	16.03	32.34	274.58	60.66	60.62	287.39
13446	-16.69	-0.55	-5.50	27.34	42.33	479.22	61.09	190.67	288.72	8.95	32.63	272.83	61.08	59.47	288.71
13447	-16.69	0.55	-5.50	27.34	42.33	479.20	61.08	190.67	288.71	8.88	32.63	272.79	61.07	59.46	288.71
13448	-16.64	1.65	-5.50	30.07	42.61	479.06	60.66	191.28	287.40	15.91	32.37	274.46	60.62	60.58	287.38
13449	-17.87	-1.65	-5.50	39.73	53.01	454.25	62.00	166.52	265.38	17.99	26.40	284.93	62.00	58.57	265.41
13450	-17.93	-0.55	-5.50	37.80	52.85	454.44	62.37	165.60	266.47	11.94	26.73	284.15	62.37	57.49	266.47
13451	-17.93	0.55	-5.50	37.80	52.85	454.42	62.36	165.59	266.47	11.88	26.74	284.08	62.36	57.49	266.47
13452	-17.87	1.65	-5.50	39.74	53.00	454.19	61.96	166.50	265.38	17.87	26.44	284.75	61.95	58.56	265.42
13453	-19.11	-1.65	-5.50	38.76	65.04	395.25	58.78	142.65	237.23	17.91	18.80	283.00	58.78	101.91	237.36
13454	-19.17	-0.55	-5.50	37.11	65.09	395.23	58.99	141.57	238.03	13.07	18.98	283.08	58.99	102.19	238.04
13455	-19.17	0.55	-5.50	37.11	65.08	395.21	58.97	141.55	238.05	13.01	19.00	283.01	58.97	102.17	238.06
13456	-19.11	1.65	-5.50	38.77	65.02	395.21	58.73	142.60	237.29	17.77	18.86	282.80	58.74	101.85	237.42
13457	-0.62	-1.65	-6.90	46.41	19.40	251.03	1.40	391.70	328.71	258.20	84.51	295.70	3.90	126.93	328.84
13458	-0.62	-0.55	-6.90	46.63	19.44	247.10	0.46	392.46	330.08	259.85	85.05	292.27	1.34	126.57	330.10
13459	-0.62	0.55	-6.90	46.61	19.44	247.10	0.48	392.46	330.09	259.82	85.04	292.26	1.32	126.56	330.10
13460	-0.62	1.65	-6.90	46.34	19.38	251.03	1.43	391.69	328.71	258.09	84.45	295.67	3.88	126.93	328.84
13461	-1.85	-1.65	-6.90	49.32	19.24	257.66	7.78	389.81	331.14	247.63	79.98	299.26	8.18	140.78	331.23
13462	-1.85	-0.55	-6.90	49.54	19.28	253.84	7.71	390.55	332.54	249.11	80.40	295.85	7.76	140.60	332.55
13463	-1.85	0.55	-6.90	49.52	19.28	253.83	7.71	390.55	332.54	249.08	80.38	295.84	7.76	140.59	332.56
13464	-1.85	1.65	-6.90	49.24	19.23	257.64	7.80	389.80	331.14	247.53	79.92	299.22	8.18	140.77	331.24
13465	-3.08	-1.65	-6.90	52.82	19.03	270.69	15.41	386.86	333.66	237.00	75.27	301.98	15.46	153.33	333.73
13466	-3.09	-0.55	-6.90	53.05	19.09	267.06	15.46	387.59	335.10	238.34	75.58	298.57	15.47	153.32	335.11
13467	-3.09	0.55	-6.90	53.02	19.09	267.05	15.47	387.58	335.10	238.31	75.57	298.56	15.47	153.31	335.11
13468	-3.08	1.65	-6.90	52.74	19.03	270.66	15.42	386.84	333.66	236.91	75.22	301.93	15.46	153.31	333.74
13469	-4.31	-1.65	-6.90	56.36	18.79	289.17	22.89	382.77	336.20	225.94	70.46	303.94	22.85	164.23	336.25
13470	-4.33	-0.55	-6.90	56.60	18.86	285.79	23.03	383.48	337.66	227.14	70.68	300.51	23.03	164.37	337.67
13471	-4.33	0.55	-6.90	56.57	18.86	285.77	23.03	383.48	337.66	227.11	70.67	300.50	23.03	164.36	337.67
13472	-4.31	1.65	-6.90	56.28	18.79	289.12	22.89	382.74	336.20	225.85	70.42	303.89	22.84	164.21	336.25
13473	-5.55	-1.65	-6.90	59.41	18.51	312.01	30.02	377.43	338.63	214.13	65.63	305.19	29.96	173.16	338.66
13474	-5.56	-0.55	-6.90	59.65	18.59	308.90	30.23	378.13	340.12	215.22	65.77	301.72	30.23	173.45	340.12
13475	-5.56	0.55	-6.90	59.62	18.59	308.88	30.23	378.12	340.12	215.20	65.76	301.70	30.22	173.44	340.12
13476	-5.55	1.65	-6.90	59.33	18.51	311.95	30.02	377.40	338.62	214.05	65.59	305.13	29.94	173.14	338.66
13477	-6.78	-1.65	-6.90	61.47	18.20	338.13	36.65	370.68	340.79	201.35	60.83	305.70	36.58	179.84	340.81
13478	-6.80	-0.55	-6.90	61.71	18.27	335.32	36.90	371.38	342.30	202.34	60.91	302.18	36.90	180.25	342.30
13479	-6.80	0.55	-6.90	61.68	18.28	335.30	36.90	371.37	342.29	202.32	60.90	302.16	36.89	180.24	342.29
13480	-6.78	1.65	-6.90	61.40	18.20	338.07	36.64	370.66	340.78	201.28	60.81	305.63	36.56	179.82	340.81
13481	-8.01	-1.65	-6.90	62.09	17.87	366.57	42.60	362.34	342.46	187.42	56.14	305.40	42.53	183.95	342.48
13482	-8.04	-0.55	-6.90	62.29	17.92	364.06	42.89	363.04	343.97	188.31	56.17	301.85	42.88	184.48	343.97
13483	-8.04	0.55	-6.90	62.27	17.92	364.04	42.88	363.03	343.97	188.29	56.17	301.83	42.88	184.47	343.97
13484	-8.01	1.65	-6.90	62.01	17.86	366.50	42.58	362.31	342.44	187.36	56.13	305.34	42.51	183.93	342.46
13485	-9.25	-1.65	-6.90	60.80	17.59	396.37	47.75	352.14	343.38	172.22	51.62	304.21	47.69	185.13	343.39
13486	-9.27	-0.55	-6.90	60.93	17.60	394.20	48.07	352.84	344.88	172.98	51.61	300.63	48.06	185.75	344.88
13487	-9.27	0.55	-6.90	60.90	17.60	394.17	48.06	352.83	344.87	172.96	51.61	300.61	48.05	185.75	344.87
13488	-9.25	1.65	-6.90	60.73	17.58	396.31	47.73	352.12	343.35	172.17	51.61	304.15	47.66	185.11	343.36
13489	-10.48	-1.65	-6.90	57.19	17.55	426.56	52.01	339.77	343.18	155.68	47.27	302.01	51.95	182.90	343.19
13490	-10.51	-0.55	-6.90	57.15	17.48	424.76	52.35	340.46	344.68	156.28	47.24	298.45	52.34	183.59	344.68
13491	-10.51	0.55	-6.90	57.13	17.48	424.74	52.34	340.45	344.66	156.27	47.24	298.43	52.33	183.58	344.66
13492	-10.48	1.65	-6.90	57.11	17.53	426.51	51.99	339.75	343.15	155.64	47.27	301.95	51.92	182.88	343.15
13493	-11.71	-1.65	-6.90	50.91	18.05	456.00	55.33	324.81	341.48	137.86	43.10	298.73	55.26	176.57	341.49
13494	-11.75	-0.55	-6.90	50.59	17.89	454.60	55.68	325.46	342.95	138.26	43.06	295.22	55.67	177.28	342.95
13495	-11.75	0.55	-6.90	50.56	17.88	454.59	55.67	325.46	342.94	138.25	43.06	295.20	55.66	177.27	342.94
13496	-11.71	1.65	-6.90	50.83	18.04	455.95	55.31	324.80	341.44	137.84	43.11	298.67	55.24	176.55	341.44
13497	-12.94	-1.65	-6.90	41.93	19.56	483.09	57.67	306.78	337.79	119.02	39.06	294			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
13525	-1.85	-1.65	-8.30	65.50	30.18	276.60	9.39	401.46	343.28	354.60	98.87	310.52	10.97	171.40	343.36
13526	-1.85	-0.55	-8.30	65.69	30.25	272.64	9.25	402.08	344.93	356.49	99.35	306.89	9.46	171.14	344.94
13527	-1.85	0.55	-8.30	65.66	30.25	272.63	9.25	402.08	344.93	356.44	99.33	306.88	9.44	171.14	344.94
13528	-1.85	1.65	-8.30	65.41	30.18	276.58	9.42	401.44	343.28	354.47	98.82	310.48	10.93	171.38	343.36
13529	-3.08	-1.65	-8.30	70.93	30.06	289.31	18.55	399.29	345.71	338.82	91.88	313.27	19.03	184.79	345.77
13530	-3.09	-0.55	-8.30	71.13	30.16	285.52	18.56	399.90	347.37	340.47	92.23	309.63	18.62	184.70	347.38
13531	-3.09	0.55	-8.30	71.10	30.16	285.51	18.56	399.89	347.37	340.43	92.22	309.61	18.61	184.69	347.38
13532	-3.08	1.65	-8.30	70.83	30.07	289.28	18.56	399.27	345.70	338.70	91.84	313.23	18.99	184.76	345.77
13533	-4.31	-1.65	-8.30	77.14	30.04	307.51	27.52	396.41	348.32	323.62	84.80	315.57	27.66	196.80	348.36
13534	-4.33	-0.55	-8.30	77.37	30.18	303.93	27.62	397.00	349.99	325.07	85.05	311.88	27.64	196.86	349.99
13535	-4.33	0.55	-8.30	77.34	30.19	303.92	27.61	396.99	349.99	325.04	85.04	311.87	27.62	196.85	349.99
13536	-4.31	1.65	-8.30	77.03	30.06	307.46	27.52	396.38	348.31	323.51	84.77	315.52	27.62	196.77	348.35
13537	-5.55	-1.65	-8.30	83.32	30.09	330.23	36.06	392.72	351.01	308.63	77.72	317.43	36.06	207.11	351.04
13538	-5.56	-0.55	-8.30	83.60	30.27	326.91	36.21	393.30	352.67	309.92	77.88	313.69	36.22	207.30	352.67
13539	-5.56	0.55	-8.30	83.56	30.28	326.89	36.20	393.29	352.66	309.89	77.87	313.67	36.20	207.29	352.66
13540	-5.55	1.65	-8.30	83.22	30.11	330.18	36.04	392.69	350.99	308.52	77.69	317.37	36.02	207.07	351.02
13541	-6.78	-1.65	-8.30	88.77	30.14	356.55	43.95	388.13	353.62	293.51	70.71	318.83	43.89	215.37	353.63
13542	-6.80	-0.55	-8.30	89.10	30.35	353.49	44.14	388.70	355.25	294.68	70.81	315.03	44.14	215.70	355.25
13543	-6.80	0.55	-8.30	89.07	30.35	353.47	44.13	388.69	355.23	294.65	70.80	315.01	44.12	215.69	355.24
13544	-6.78	1.65	-8.30	88.68	30.15	356.49	43.92	388.09	353.58	293.42	70.69	318.77	43.85	215.34	353.60
13545	-8.01	-1.65	-8.30	92.86	30.10	385.56	50.98	382.47	355.93	277.96	63.88	319.72	50.89	221.27	355.95
13546	-8.04	-0.55	-8.30	93.23	30.32	382.79	51.20	383.06	357.52	279.04	63.93	315.86	51.19	221.73	357.52
13547	-8.04	0.55	-8.30	93.20	30.32	382.77	51.19	383.05	357.50	279.01	63.92	315.84	51.18	221.72	357.50
13548	-8.01	1.65	-8.30	92.77	30.10	385.50	50.95	382.44	355.88	277.88	63.87	319.66	50.85	221.24	355.90
13549	-9.25	-1.65	-8.30	94.96	29.88	416.44	56.97	375.57	357.69	261.70	57.32	319.99	56.87	224.40	357.70
13550	-9.27	-0.55	-8.30	95.36	30.09	413.99	57.21	376.19	359.21	262.69	57.32	316.08	57.20	224.98	359.21
13551	-9.27	0.55	-8.30	95.33	30.09	413.97	57.20	376.18	359.19	262.67	57.31	316.06	57.19	224.97	359.19
13552	-9.25	1.65	-8.30	94.88	29.87	416.38	56.94	375.54	357.62	261.63	57.31	319.92	56.83	224.37	357.63
13553	-10.48	-1.65	-8.30	94.44	29.43	448.31	61.76	367.12	358.54	244.41	51.10	319.50	61.65	224.23	358.55
13554	-10.51	-0.55	-8.30	94.83	29.62	446.23	62.03	367.78	359.99	245.30	51.05	315.59	62.02	224.92	360.00
13555	-10.51	0.55	-8.30	94.80	29.61	446.21	62.02	367.77	359.97	245.28	51.05	315.57	62.00	224.91	359.97
13556	-10.48	1.65	-8.30	94.37	29.40	448.26	61.73	367.10	358.46	244.35	51.09	319.44	61.61	224.20	358.47
13557	-11.71	-1.65	-8.30	90.65	28.75	480.13	65.23	356.71	358.10	225.72	45.28	318.08	65.12	219.99	358.11
13558	-11.75	-0.55	-8.30	90.94	28.91	478.48	65.54	357.39	359.49	226.48	45.19	314.22	65.53	220.75	359.49
13559	-11.75	0.55	-8.30	90.92	28.90	478.47	65.53	357.38	359.46	226.47	45.18	314.20	65.52	220.74	359.46
13560	-11.71	1.65	-8.30	90.58	28.72	480.08	65.21	356.69	358.02	225.68	45.27	318.03	65.09	219.95	358.03
13561	-12.94	-1.65	-8.30	82.96	27.98	510.43	67.30	343.64	355.94	205.19	39.92	315.49	67.18	210.49	355.96
13562	-12.98	-0.55	-8.30	83.07	28.09	509.28	67.66	344.29	357.29	205.78	39.80	311.74	67.64	211.26	357.29
13563	-12.98	0.55	-8.30	83.04	28.08	509.27	67.65	344.28	357.26	205.77	39.80	311.72	67.64	211.25	357.26
13564	-12.94	1.65	-8.30	82.89	27.94	510.39	67.29	343.62	355.85	205.16	39.91	315.44	67.17	210.46	355.87
13565	-14.18	-1.65	-8.30	71.02	27.42	536.94	67.86	326.83	351.62	182.26	35.19	311.32	67.74	194.05	351.63
13566	-14.22	-0.55	-8.30	70.82	27.48	536.33	68.26	327.38	352.95	182.62	35.06	307.76	68.25	194.70	352.95
13567	-14.22	0.55	-8.30	70.80	27.47	536.32	68.26	327.37	352.92	182.61	35.06	307.75	68.25	194.68	352.92
13568	-14.18	1.65	-8.30	70.95	27.40	536.91	67.86	326.81	351.53	182.23	35.19	311.28	67.74	194.01	351.55
13569	-15.41	-1.65	-8.30	55.29	27.66	555.95	66.67	304.68	344.68	156.22	31.44	300.90	66.56	168.64	344.70
13570	-15.46	-0.55	-8.30	54.63	27.62	555.88	67.11	305.00	346.02	156.30	31.33	301.62	67.10	168.98	346.03
13571	-15.46	0.55	-8.30	54.61	27.62	555.87	67.11	304.99	346.00	156.29	31.34	301.61	67.10	168.97	346.00
13572	-15.41	1.65	-8.30	55.23	27.66	555.93	66.69	304.65	344.60	156.19	31.46	300.86	66.57	168.60	344.62
13573	-16.64	-1.65	-8.30	38.01	29.47	561.92	63.33	274.95	334.71	126.16	29.29	295.23	63.25	133.12	334.75
13574	-16.69	-0.55	-8.30	36.72	29.31	562.28	63.74	274.91	336.09	125.91	29.19	292.32	63.73	132.91	336.09
13575	-16.69	0.55	-8.30	36.70	29.33	562.28	63.75	274.90	336.06	125.90	29.20	292.31	63.74	132.89	336.07
13576	-16.64	1.65	-8.30	37.95	29.51	561.92	63.35	274.91	334.64	126.13	29.34	295.19	63.27	133.09	334.69
13577	-17.87	-1.65	-8.30	25.36	33.62	547.74	57.32	235.24	321.36	91.81	29.26	281.45	57.30	90.58	321.43
13578	-17.93	-0.55	-8.30	23.50	33.35	548.28	57.62	234.67	322.76	91.16	29.06	279.01	57.62	89.52	322.77
13579	-17.93	0.55	-8.30	23.49	33.38	548.28	57.63	234.66	322.74	91.16	29.09	279.00	57.63	89.51	322.75
13580	-17.87	1.65	-8.30	25.31	33.70	547.76	57.34	235.19	321.31	91.78	29.33	281.41	57.33	90.54	321.37
13581	-19.11	-1.65	-8.30	25.69	40.49	506.02	48.27	184.61	304.45	55.25	31.11	265.06	48.35	57.53	304.52
13582	-19.17	-0.55	-8.30	24.45	40.17	506.35	48.37	183.33	305.81	54.15	30.65	263.25	48.38	55.74	305.82
13583	-19.17	0.55	-8.30	24.44	40.20	506.36	48.38	183.31	305.80	54.15	30.68	263.24	48.39	55.72	305.80
13584	-19.11	1.65	-8.30	25.67	40.59	506.07	48.30	184.54	304.41	55.23	31.20	265.03	48.39	57.48	304.48
13585	-20.14	-1.65	-2.70	119.77	91.48	222.06	191.68	168.77	140.80	362.52	76.19	305.33	191.62	278.43	141.53
13586	-20.20	-0.55	-2.70	116.27	88.65	221.64	192.86	168.56	140.51	362.08	73.33	306.84	192.86	280.42	140.59
13587	-20.20	0.55	-2.70	116.15	88.69	221.59	192.83	168.52	140.52	361.83	73.15	306.71	192.82	280.30	140.60
13588	-20.14	1.65	-2.70	119.38	91.58	221.87	191.57	168.60	140.85	361.68	75.64	304.90	191.49	278.02	141.58
13589	-20.99	-1.65	-2.70	54.32	110.68	61.24	108.26	55.44	64.67	201.24	10.00	78.60	108.03	123.55	65.01
13590	-21.05	-0.55	-2.70	51.25	110.72	61.12	108.46	55.18	64.78	200.30	5.30	78.89	108.44	124.32	64.82
13591	-21.05	0.55	-2.70	51.18	110.79	61.10	108.48	55.16	64.81	200.13	4.99	78.86	108.45	124.27	64.85
13592	-20.99	1.65	-2.70	54.09	110.91	61.19	108.33	55.35	64.81	200.69	9.30	78.52	108.09	123.38	65.15
13593	-21.83	-1.65	-2.70	36.25	115.74	31.59	60.07	15.67	43.54	102.56	25.54	43.51	59.57	60.52	43.57
13594	-21.89	-0.55	-2.70	34.27	116.13	31.53	59.68	15.31	43.73	101.54	25.56	43.68	59.63	60.72	43.73
13595	-21.89	0.55	-2.70	34.24	116.20	31.53	59.74	15.30	4						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
13623	-23.57	0.55	-4.10	4.00	114.43	43.52	9.12	8.34	81.05	13.41	53.50	78.13	8.82	28.36	81.10
13624	-23.52	1.65	-4.10	4.42	114.30	43.48	12.20	10.14	81.10	13.30	53.18	77.93	10.01	29.32	81.47
13625	-20.14	-1.65	-5.50	30.36	75.72	322.17	52.48	116.71	210.14	24.08	16.10	265.45	52.40	137.91	210.32
13626	-20.20	-0.55	-5.50	28.73	75.94	321.93	52.40	115.57	210.73	21.84	15.99	265.99	52.39	138.74	210.75
13627	-20.20	0.55	-5.50	28.73	75.93	321.92	52.40	115.55	210.76	21.79	16.01	265.94	52.39	138.71	210.78
13628	-20.14	1.65	-5.50	30.37	75.70	322.18	52.46	116.65	210.25	23.92	16.16	265.32	52.39	137.82	210.42
13629	-20.99	-1.65	-5.50	22.64	84.52	252.07	42.49	90.47	187.71	26.89	20.59	241.48	42.27	148.16	187.84
13630	-21.05	-0.55	-5.50	21.22	84.81	251.82	42.07	89.36	188.20	25.85	20.27	242.26	42.04	148.92	188.22
13631	-21.05	0.55	-5.50	21.22	84.80	251.83	42.07	89.34	188.24	25.81	20.28	242.24	42.05	148.89	188.26
13632	-20.99	1.65	-5.50	22.64	84.51	252.13	42.50	90.43	187.82	26.75	20.61	241.47	42.28	148.08	187.94
13633	-21.83	-1.65	-5.50	15.43	92.48	182.86	32.00	62.58	166.90	32.08	28.13	218.89	31.56	136.66	166.94
13634	-21.89	-0.55	-5.50	14.36	92.78	182.63	31.12	61.40	167.32	31.86	27.76	219.82	31.07	137.08	167.33
13635	-21.89	0.55	-5.50	14.35	92.79	182.65	31.14	61.39	167.37	31.83	27.75	219.83	31.08	137.06	167.37
13636	-21.83	1.65	-5.50	15.41	92.49	182.95	32.04	62.56	167.02	31.96	28.13	218.98	31.59	136.62	167.04
13637	-22.67	-1.65	-5.50	9.98	100.49	122.78	20.12	35.81	148.24	22.88	37.81	202.77	19.20	99.40	148.23
13638	-22.73	-0.55	-5.50	9.30	100.75	122.64	18.53	34.29	148.60	22.90	37.34	203.78	18.43	99.20	148.60
13639	-22.73	0.55	-5.50	9.30	100.76	122.67	18.55	34.29	148.64	22.88	37.33	203.83	18.44	99.20	148.64
13640	-22.67	1.65	-5.50	9.97	100.52	122.88	20.16	35.81	148.35	22.82	37.79	202.97	19.24	99.42	148.35
13641	-23.52	-1.65	-5.50	3.91	108.38	88.27	9.92	15.24	133.20	7.58	47.61	194.47	7.49	42.98	133.40
13642	-23.57	-0.55	-5.50	3.45	108.54	88.41	6.48	12.42	133.33	7.65	47.16	195.43	6.10	41.78	133.35
13643	-23.57	0.55	-5.50	3.45	108.55	88.44	6.49	12.42	133.38	7.64	47.13	195.52	6.11	41.80	133.42
13644	-23.52	1.65	-5.50	3.90	108.41	88.37	9.94	15.26	133.33	7.56	47.55	194.77	7.52	43.04	133.59
13645	-20.14	-1.65	-6.90	36.35	63.98	378.46	39.24	119.61	247.43	14.02	25.33	254.98	39.27	101.43	247.53
13646	-20.20	-0.55	-6.90	35.59	64.05	378.34	39.08	118.03	248.27	11.26	24.67	254.84	39.09	101.70	248.29
13647	-20.20	0.55	-6.90	35.60	64.06	378.36	39.09	118.01	248.28	11.25	24.70	254.82	39.09	101.68	248.29
13648	-20.14	1.65	-6.90	36.37	64.02	378.54	39.25	119.56	247.45	13.99	25.41	254.95	39.28	101.37	247.54
13649	-20.99	-1.65	-6.90	30.72	72.18	313.14	31.30	89.32	229.36	10.91	28.57	253.58	31.27	115.97	229.41
13650	-21.05	-0.55	-6.90	30.06	72.31	312.91	30.87	87.57	230.12	9.03	27.69	254.05	30.86	116.25	230.13
13651	-21.05	0.55	-6.90	30.07	72.32	312.94	30.87	87.55	230.14	9.01	27.72	254.05	30.87	116.23	230.14
13652	-20.99	1.65	-6.90	30.74	72.24	313.24	31.32	89.28	229.38	10.85	28.64	253.62	31.29	115.92	229.42
13653	-21.83	-1.65	-6.90	23.39	80.49	243.48	22.50	61.58	211.31	12.55	32.71	261.91	22.26	113.66	211.30
13654	-21.89	-0.55	-6.90	22.82	80.64	243.19	21.64	59.59	212.00	11.99	31.63	262.90	21.61	113.64	212.00
13655	-21.89	0.55	-6.90	22.83	80.65	243.22	21.65	59.58	212.01	11.98	31.65	262.94	21.62	113.63	212.01
13656	-21.83	1.65	-6.90	23.41	80.56	243.60	22.52	61.55	211.34	12.51	32.78	262.02	22.28	113.63	211.31
13657	-22.67	-1.65	-6.90	14.34	88.55	179.73	14.21	38.28	194.18	11.40	36.99	283.96	13.40	90.00	194.15
13658	-22.73	-0.55	-6.90	13.85	88.72	179.50	12.57	35.80	194.80	11.31	35.70	285.33	12.47	89.38	194.79
13659	-22.73	0.55	-6.90	13.85	88.74	179.54	12.58	35.79	194.81	11.31	35.72	285.40	12.48	89.38	194.81
13660	-22.67	1.65	-6.90	14.34	88.62	179.87	14.22	38.26	194.21	11.37	37.04	284.15	13.42	90.00	194.18
13661	-23.52	-1.65	-6.90	5.13	96.55	142.69	7.99	17.95	178.78	4.86	41.00	321.72	5.56	40.94	178.90
13662	-23.57	-0.55	-6.90	4.71	96.66	142.79	4.53	13.54	179.11	4.86	39.67	323.28	4.10	38.98	179.11
13663	-23.57	0.55	-6.90	4.71	96.68	142.82	4.54	13.54	179.12	4.86	39.68	323.37	4.11	39.00	179.15
13664	-23.52	1.65	-6.90	5.13	96.61	142.82	8.00	17.94	178.81	4.85	41.04	322.00	5.58	40.99	178.98
13665	-20.14	-1.65	-8.30	31.05	48.27	448.02	38.52	135.49	287.67	26.46	33.41	255.74	38.69	61.90	287.72
13666	-20.20	-0.55	-8.30	30.45	47.95	448.02	38.38	133.59	288.99	24.91	32.57	254.73	38.40	60.79	289.00
13667	-20.20	0.55	-8.30	30.45	47.99	448.04	38.39	133.57	288.98	24.90	32.61	254.73	38.41	60.77	288.98
13668	-20.14	1.65	-8.30	31.06	48.38	448.09	38.54	135.43	287.64	26.44	33.52	255.73	38.73	61.84	287.68
13669	-20.99	-1.65	-8.30	31.55	55.79	382.36	29.54	95.56	272.17	11.13	35.26	261.06	29.76	77.44	272.17
13670	-21.05	-0.55	-8.30	31.13	55.52	382.16	29.18	93.20	273.46	9.18	34.03	260.95	29.21	76.76	273.46
13671	-21.05	0.55	-8.30	31.13	55.56	382.20	29.19	93.18	273.46	9.17	34.07	260.96	29.22	76.74	273.45
13672	-20.99	1.65	-8.30	31.56	55.91	382.46	29.57	95.50	272.15	11.11	35.37	261.09	29.80	77.40	272.14
13673	-21.83	-1.65	-8.30	26.86	64.00	306.88	20.48	60.75	255.53	9.95	36.74	289.63	20.60	84.74	255.48
13674	-21.89	-0.55	-8.30	26.50	63.82	306.53	19.78	57.70	256.77	9.33	35.10	290.45	19.79	83.95	256.76
13675	-21.89	0.55	-8.30	26.51	63.85	306.57	19.79	57.68	256.76	9.32	35.14	290.48	19.81	83.93	256.75
13676	-21.83	1.65	-8.30	26.87	64.11	306.99	20.50	60.69	255.51	9.93	36.85	289.72	20.65	84.71	255.45
13677	-22.67	-1.65	-8.30	17.34	72.48	235.33	12.31	35.28	238.26	10.50	37.76	348.02	11.98	72.63	238.18
13678	-22.73	-0.55	-8.30	16.99	72.43	235.01	10.95	31.02	239.42	10.46	35.72	349.58	10.91	71.22	239.41
13679	-22.73	0.55	-8.30	16.99	72.46	235.05	10.96	31.00	239.42	10.46	35.76	349.63	10.92	71.22	239.41
13680	-22.67	1.65	-8.30	17.34	72.57	235.46	12.33	35.23	238.24	10.49	37.86	348.18	12.02	72.62	238.17
13681	-23.52	-1.65	-8.30	5.72	80.59	196.77	6.73	18.80	221.32	4.88	38.18	432.58	4.95	34.83	221.34
13682	-23.57	-0.55	-8.30	5.39	80.58	196.78	3.78	11.83	222.11	4.86	35.93	434.55	3.44	31.48	222.11
13683	-23.57	0.55	-8.30	5.39	80.61	196.81	3.78	11.82	222.11	4.86	35.96	434.62	3.46	31.49	222.12
13684	-23.52	1.65	-8.30	5.72	80.68	196.89	6.74	18.78	221.31	4.87	38.27	432.79	4.97	34.86	221.36
13685	19.03	2.50	-2.70	114.80	89.63	312.56	63.27	164.24	146.10	561.37	50.33	535.82	74.13	342.33	147.83
13686	18.94	3.10	-2.70	115.27	90.68	318.81	60.39	168.10	151.87	567.11	48.31	537.58	68.14	335.74	179.38
13687	17.80	2.50	-2.70	95.17	76.63	353.15	36.57	160.78	194.38	398.17	54.69	586.64	41.76	175.25	201.59
13688	17.72	3.10	-2.70	94.92	76.40	354.78	36.02	161.93	195.73	403.21	57.75	581.73	45.93	170.49	205.76
13689	16.57	2.50	-2.70	86.23	68.94	376.89	21.25	175.76	211.85	292.12	49.70	585.88	28.72	113.09	215.28
13690	16.50	3.10	-2.70	85.72	70.12	377.72	22.46	175.54	211.08	295.84	52.61	575.24	41.54	111.86	214.32
13691	15.34	2.50	-2.70	82.90	63.27	387.05	15.59	199.53	220.89	238.90	36.46	548.03	28.79	137.81	222.24
13692	15.28	3.10	-2.70	82.25	64.58	387.69	16.95	199.09	219.31	240.12	38.73	538.23	39.66	134.85	220.82
13693	14.12	2.50	-2.70	80.95	56.26	385.29	14.97	222.80	226.93	225.37	33.70	472.92	27.79	175.75	227.47
13694	14.05	3.10	-2.70	80.42	57.11	386.09	15.86								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
13721	16.57	2.50	-4.10	106.78	62.63	414.34	17.93	189.93	220.90	104.44	70.23	518.11	24.10	108.02	223.23
13722	16.50	3.10	-4.10	106.23	63.28	414.99	18.06	189.94	219.76	100.31	70.06	510.68	26.32	106.83	222.94
13723	15.34	2.50	-4.10	98.43	52.85	427.70	18.12	214.86	234.63	113.25	38.30	503.82	23.04	120.51	235.47
13724	15.28	3.10	-4.10	97.68	53.48	428.31	18.50	214.65	233.06	109.03	38.46	496.41	26.02	118.56	234.11
13725	14.12	2.50	-4.10	86.89	44.01	426.72	19.81	240.49	244.41	100.03	19.28	458.31	23.22	138.13	244.53
13726	14.05	3.10	-4.10	86.09	44.42	427.49	20.12	240.10	242.76	96.06	20.17	452.50	25.20	135.33	242.88
13727	12.89	2.50	-4.10	74.84	35.78	415.52	21.99	263.64	252.13	74.28	22.03	394.39	23.90	146.37	252.00
13728	12.83	3.10	-4.10	74.12	35.97	416.59	22.10	263.04	250.54	70.56	21.86	390.84	24.91	143.12	250.34
13729	11.66	2.50	-4.10	63.89	28.28	397.58	23.91	283.46	258.69	47.38	30.21	329.12	24.94	141.85	258.58
13730	11.61	3.10	-4.10	63.30	28.36	399.01	23.78	282.67	257.19	44.12	28.93	328.08	25.34	138.39	257.02
13731	10.43	2.50	-4.10	54.61	21.72	375.44	25.12	300.18	264.45	26.42	35.90	276.46	25.76	127.29	264.49
13732	10.39	3.10	-4.10	54.13	21.80	377.29	24.80	299.22	263.02	23.84	34.11	277.91	25.84	123.80	263.09
13733	9.21	2.50	-4.10	47.01	16.18	350.99	25.43	314.23	269.59	13.67	39.34	243.92	25.93	107.09	269.81
13734	9.17	3.10	-4.10	46.61	16.32	353.26	24.99	313.16	268.18	11.88	37.45	247.43	25.83	103.78	268.53
13735	7.98	2.50	-4.10	40.93	11.65	325.61	24.79	325.96	274.19	8.03	41.41	231.35	25.25	85.31	274.57
13736	7.94	3.10	-4.10	40.58	11.87	328.32	24.29	324.82	272.79	6.81	39.63	236.06	25.08	82.40	273.36
13737	6.75	2.50	-4.10	36.22	8.10	300.49	23.23	335.61	278.37	7.81	42.69	232.74	23.69	65.46	278.84
13738	6.72	3.10	-4.10	35.89	8.39	303.65	22.73	334.45	276.96	6.74	41.13	237.83	23.51	63.20	277.66
13739	5.52	2.50	-4.10	32.72	5.56	276.75	20.82	343.35	282.22	12.41	43.52	241.02	21.31	51.19	282.72
13740	5.50	3.10	-4.10	32.41	5.86	280.34	20.36	342.17	280.78	11.55	42.18	246.02	21.17	49.89	281.53
13741	4.30	2.50	-4.10	30.31	4.16	255.51	17.68	349.29	285.83	19.69	44.06	251.27	18.20	46.25	286.31
13742	4.28	3.10	-4.10	30.02	4.39	259.52	17.28	348.12	284.37	18.97	42.92	255.99	18.14	46.04	285.09
13743	3.07	2.50	-4.10	28.84	3.99	237.97	13.89	353.52	289.27	27.84	44.36	260.94	14.49	50.92	289.71
13744	3.06	3.10	-4.10	28.57	4.08	242.37	13.58	352.35	287.78	27.17	43.40	265.37	14.55	51.37	288.43
13745	1.84	2.50	-4.10	28.13	4.63	225.35	9.59	356.08	292.59	35.70	44.46	268.98	10.37	60.95	292.97
13746	1.83	3.10	-4.10	27.90	4.63	230.04	9.37	354.91	291.05	35.02	43.66	273.18	10.60	61.56	291.63
13747	0.61	2.50	-4.10	27.98	5.58	218.69	4.88	357.00	295.80	42.48	44.39	275.16	6.18	72.54	296.13
13748	0.61	3.10	-4.10	27.80	5.55	223.53	4.77	355.85	294.22	41.77	43.72	279.18	6.73	73.04	294.71
13749	19.03	2.50	-5.50	162.09	79.98	369.61	6.19	171.10	195.81	520.85	216.77	316.81	6.60	208.36	200.27
13750	18.94	3.10	-5.50	160.48	79.51	370.39	7.23	170.75	196.18	516.21	213.24	315.13	6.45	204.38	204.19
13751	17.80	2.50	-5.50	161.03	65.71	427.55	9.48	187.04	220.94	528.72	148.61	445.75	13.07	132.65	224.00
13752	17.72	3.10	-5.50	159.58	65.56	427.89	10.12	187.19	220.30	523.40	145.13	440.56	12.48	130.90	225.23
13753	16.57	2.50	-5.50	150.75	52.28	461.12	15.59	210.68	240.63	504.77	87.96	495.50	17.16	101.11	242.18
13754	16.50	3.10	-5.50	149.26	52.35	461.39	16.24	210.79	239.37	498.66	84.66	489.27	17.59	100.02	241.67
13755	15.34	2.50	-5.50	133.87	40.79	473.10	20.87	238.03	255.17	463.36	38.96	491.45	21.05	91.55	255.62
13756	15.28	3.10	-5.50	132.31	40.95	473.53	21.38	237.87	253.65	456.60	36.63	485.50	21.47	90.38	254.26
13757	14.12	2.50	-5.50	114.37	31.03	469.22	25.29	264.93	265.97	411.84	4.66	455.01	25.18	90.67	265.92
13758	14.05	3.10	-5.50	112.83	31.22	469.96	25.53	264.46	264.39	404.93	5.01	450.36	25.42	89.04	264.30
13759	12.89	2.50	-5.50	95.12	22.70	454.65	28.77	288.90	274.21	356.73	25.82	401.88	28.87	91.75	274.10
13760	12.83	3.10	-5.50	93.69	22.92	455.80	28.73	288.16	272.66	350.09	25.84	399.19	29.00	89.62	272.50
13761	11.66	2.50	-5.50	77.92	15.65	433.24	31.19	309.12	280.70	304.60	43.76	346.18	31.59	90.10	280.74
13762	11.61	3.10	-5.50	76.68	15.94	434.86	30.92	308.18	279.19	298.53	42.83	345.77	31.60	87.63	279.26
13763	10.43	2.50	-5.50	63.62	9.85	407.79	32.47	325.72	285.94	260.06	55.37	299.33	33.03	83.93	286.19
13764	10.39	3.10	-5.50	62.59	10.25	409.87	32.02	324.64	284.46	254.74	53.88	301.18	32.90	81.32	284.85
13765	9.21	2.50	-5.50	52.39	5.40	380.29	32.54	339.17	290.27	225.00	62.51	268.02	33.14	73.95	290.71
13766	9.17	3.10	-5.50	51.56	5.98	382.84	31.99	338.01	288.79	220.50	60.76	271.72	32.89	71.47	289.48
13767	7.98	2.50	-5.50	44.02	3.13	352.25	31.44	349.96	293.93	199.21	66.62	253.12	31.99	62.45	294.51
13768	7.94	3.10	-5.50	43.35	3.78	355.25	30.85	348.77	292.44	195.46	64.84	257.95	31.65	60.41	293.33
13769	6.75	2.50	-5.50	38.08	4.03	324.90	29.23	358.51	297.12	181.32	68.71	250.82	29.70	52.73	297.77
13770	6.72	3.10	-5.50	37.54	4.30	328.33	28.65	357.31	295.63	178.19	67.03	256.06	29.32	51.49	296.60
13771	5.52	2.50	-5.50	34.17	5.83	299.34	26.04	365.13	300.02	169.50	69.44	255.73	26.42	48.74	300.66
13772	5.50	3.10	-5.50	33.72	5.85	303.20	25.50	363.92	298.50	166.85	67.92	260.95	26.04	48.54	299.47
13773	4.30	2.50	-5.50	31.90	7.38	276.70	21.98	370.03	302.74	161.97	69.23	263.56	22.29	52.66	303.34
13774	4.28	3.10	-5.50	31.51	7.28	280.96	21.52	368.84	301.21	159.68	67.89	268.55	21.95	53.24	302.10
13775	3.07	2.50	-5.50	30.99	8.54	258.15	17.21	373.39	305.39	157.17	68.36	271.74	17.45	62.68	305.92
13776	3.06	3.10	-5.50	30.64	8.40	262.76	16.84	372.20	303.82	155.14	67.20	276.48	17.18	63.54	304.62
13777	1.84	2.50	-5.50	31.19	9.37	244.83	11.86	375.30	308.02	153.86	67.00	279.05	12.04	75.63	308.47
13778	1.83	3.10	-5.50	30.86	9.22	249.71	11.61	374.12	306.42	152.02	66.01	283.57	11.86	76.44	307.10
13779	0.61	2.50	-5.50	32.26	9.93	237.75	6.12	375.83	310.66	151.06	65.26	285.05	6.22	89.35	311.03
13780	0.61	3.10	-5.50	31.94	9.80	242.77	6.01	374.67	309.03	149.36	64.44	289.41	6.14	89.97	309.59
13781	19.03	2.50	-6.90	252.07	70.43	441.04	9.90	175.83	228.91	1009.58	245.69	318.47	10.64	190.35	235.90
13782	18.94	3.10	-6.90	249.19	69.84	441.44	10.69	175.94	228.68	1002.90	240.03	318.07	17.34	187.80	239.53
13783	17.80	2.50	-6.90	226.44	55.31	492.20	8.00	202.00	251.25	966.40	162.69	446.48	7.82	156.89	254.56
13784	17.72	3.10	-6.90	223.89	54.78	492.05	10.16	202.36	250.35	959.23	156.04	441.91	10.74	155.68	255.27
13785	16.57	2.50	-6.90	198.90	41.34	517.11	18.20	235.45	268.38	888.21	87.46	498.47	18.19	131.34	269.58
13786	16.50	3.10	-6.90	196.47	40.97	516.93	19.57	235.58	267.12	880.05	81.58	492.74	20.26	130.91	268.86
13787	15.34	2.50	-6.90	171.36	29.57	521.26	26.93	267.52	281.40	796.24	29.11	492.25	28.10	109.51	281.62
13788	15.28	3.10	-6.90	169.01	29.42	521.41	27.71	267.27	279.99	787.16	25.31	487.08	30.29	109.51	280.28
13789	14.12	2.50	-6.90	145.70	20.28	510.70	33.49	295.37	291.18	704.38	22.71	454.41	36.17	90.27	291.09
13790	14.05	3.10	-6.90	143.47	20.32	511.37	33.80	294.77	289.73	694.91	24.47	450.78	38.51	90.50	289.60
13791	12.89	2.50	-6.90	123.17	13.69	490.63	38.10	318.43	298.46	619.36	51.90	404.14	41.93	74.95	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
13819	15.34	2.50	-8.30	204.85	29.22	567.77	38.30	304.62	310.78	1077.00	30.44	490.18	44.83	221.89	310.85
13820	15.28	3.10	-8.30	201.93	28.63	567.70	39.15	304.20	309.55	1065.73	31.85	485.92	50.32	221.37	309.64
13821	14.12	2.50	-8.30	177.52	25.35	547.65	46.03	330.78	318.14	954.45	62.42	445.42	55.15	187.48	318.10
13822	14.05	3.10	-8.30	174.81	24.93	548.31	46.36	330.02	316.95	942.64	64.76	443.14	60.88	187.33	316.88
13823	12.89	2.50	-8.30	155.86	24.86	520.84	51.15	350.39	323.38	848.75	92.48	396.60	61.70	153.17	323.51
13824	12.83	3.10	-8.30	153.42	24.51	522.25	51.14	349.44	322.20	837.08	93.16	396.54	67.31	153.49	322.39
13825	11.66	2.50	-8.30	138.32	26.12	490.43	54.00	365.15	326.95	759.01	112.78	353.61	64.93	124.49	327.33
13826	11.61	3.10	-8.30	136.21	25.77	492.53	53.77	364.12	325.71	747.97	112.15	355.65	70.14	125.28	326.29
13827	10.43	2.50	-8.30	123.68	27.86	458.44	54.78	376.33	329.25	683.42	125.19	321.35	65.37	103.98	329.85
13828	10.39	3.10	-8.30	121.91	27.50	461.12	54.41	375.29	327.92	673.30	123.74	325.07	70.05	105.14	328.84
13829	9.21	2.50	-8.30	111.01	29.44	426.24	53.66	384.79	330.66	620.08	131.81	301.04	63.49	91.82	331.42
13830	9.17	3.10	-8.30	109.59	29.06	429.41	53.20	383.76	329.23	610.98	129.90	305.85	67.61	93.22	330.38
13831	7.98	2.50	-8.30	99.73	30.59	394.90	50.81	391.12	331.54	567.18	134.27	291.12	59.70	86.88	332.37
13832	7.94	3.10	-8.30	98.62	30.21	398.49	50.30	390.11	330.01	559.11	132.19	296.48	63.28	88.42	331.26
13833	6.75	2.50	-8.30	89.51	31.28	365.36	46.43	395.77	332.16	523.05	133.82	288.67	54.38	87.80	332.98
13834	6.72	3.10	-8.30	88.67	30.92	369.31	45.91	394.77	330.53	515.96	131.75	294.17	57.48	89.41	331.78
13835	5.52	2.50	-8.30	80.28	31.57	338.49	40.74	399.07	332.74	486.15	131.34	290.66	47.84	93.44	333.50
13836	5.50	3.10	-8.30	79.64	31.25	342.79	40.26	398.07	331.04	479.96	129.40	296.07	50.55	95.03	332.19
13837	4.30	2.50	-8.30	72.23	31.54	315.22	33.98	401.27	333.44	455.11	127.48	294.79	40.39	102.79	334.11
13838	4.28	3.10	-8.30	71.74	31.28	319.84	33.57	400.27	331.68	449.72	125.71	300.01	42.81	104.25	332.69
13839	3.07	2.50	-8.30	65.80	31.32	296.50	26.36	402.55	334.36	428.74	122.64	299.60	32.33	114.79	334.93
13840	3.06	3.10	-8.30	65.40	31.10	301.40	26.07	401.54	332.55	424.05	121.09	304.64	34.58	116.06	333.40
13841	1.84	2.50	-8.30	61.56	30.98	283.25	18.13	403.05	335.57	406.01	117.13	304.32	24.03	128.48	336.03
13842	1.83	3.10	-8.30	61.21	30.81	288.36	17.99	402.04	333.72	401.94	115.81	309.20	26.24	129.50	334.41
13843	0.61	2.50	-8.30	60.04	30.62	276.22	9.58	402.86	337.10	386.07	111.13	308.59	16.17	142.98	337.45
13844	0.61	3.10	-8.30	59.71	30.48	281.44	9.71	401.85	335.21	382.53	110.03	313.37	18.50	143.73	335.74
13845	23.44	2.50	-2.70	361.72	127.47	278.57	59.79	312.94	72.63	926.24	539.29	1377.70	67.87	1605.79	385.99
13846	23.37	3.10	-2.70	368.91	156.16	307.98	78.06	327.76	60.82	902.46	531.69	1341.85	89.30	1596.39	438.06
13847	22.60	2.50	-2.70	261.18	97.98	262.97	69.94	243.71	71.73	849.25	580.51	895.01	69.57	985.35	153.03
13848	22.52	3.10	-2.70	264.61	99.44	287.23	67.39	248.49	60.39	827.48	589.29	883.66	82.48	962.09	234.01
13849	21.75	2.50	-2.70	210.92	94.87	267.02	53.57	210.07	59.22	817.75	389.50	501.23	84.91	757.61	82.85
13850	21.68	3.10	-2.70	212.34	95.71	290.17	55.39	213.04	48.17	784.28	375.74	502.47	81.53	736.73	114.59
13851	20.91	2.50	-2.70	179.83	95.47	273.02	53.16	191.53	40.97	819.32	230.56	247.66	98.98	657.42	46.11
13852	20.83	3.10	-2.70	178.60	100.58	294.86	54.13	194.17	36.48	790.32	227.47	274.04	70.81	631.33	55.29
13853	20.06	2.50	-2.70	153.41	96.99	280.73	74.55	183.73	70.83	773.94	93.10	347.68	100.34	590.46	72.83
13854	19.98	3.10	-2.70	152.43	102.36	296.87	71.26	188.59	77.81	768.55	98.02	361.14	69.96	570.59	96.13
13855	23.44	2.50	-4.10	175.64	120.38	161.52	77.93	251.75	75.12	254.60	261.06	1054.06	88.52	1596.77	422.20
13856	23.37	3.10	-4.10	162.22	122.72	173.61	90.01	260.27	59.97	177.07	269.60	1063.92	84.85	1582.12	506.22
13857	22.60	2.50	-4.10	104.90	139.45	179.54	44.70	188.57	61.26	161.42	362.28	742.47	58.87	948.72	94.23
13858	22.52	3.10	-4.10	101.00	124.68	187.05	49.88	190.42	60.41	129.58	353.68	736.53	48.96	917.34	230.88
13859	21.75	2.50	-4.10	85.09	127.93	199.46	20.90	163.88	75.12	134.38	325.14	427.49	25.22	690.45	74.55
13860	21.68	3.10	-4.10	84.22	120.43	205.13	28.00	163.51	78.06	117.77	315.24	423.53	31.08	668.72	130.63
13861	20.91	2.50	-4.10	81.60	122.76	228.87	19.54	157.34	99.76	106.86	270.34	197.54	18.08	541.61	99.48
13862	20.83	3.10	-4.10	80.63	117.80	232.81	22.75	156.62	103.17	99.86	262.74	202.80	18.62	526.18	120.66
13863	20.06	2.50	-4.10	88.59	110.61	269.96	21.74	158.78	129.50	49.57	212.52	245.71	23.95	399.70	129.95
13864	19.98	3.10	-4.10	87.38	107.76	272.31	20.14	158.45	132.61	47.33	209.77	247.60	19.46	390.80	142.71
13865	23.44	2.50	-5.50	264.76	107.39	113.35	65.69	250.40	92.42	501.68	361.61	1005.98	97.29	1522.14	359.02
13866	23.37	3.10	-5.50	271.93	118.28	115.29	76.85	257.02	88.36	596.90	380.58	1018.44	135.17	1497.26	473.42
13867	22.60	2.50	-5.50	185.72	109.22	147.63	34.78	189.07	104.03	417.16	354.24	756.68	42.68	859.12	105.50
13868	22.52	3.10	-5.50	188.14	101.21	151.80	40.40	188.44	107.95	451.19	332.96	750.49	86.21	825.51	234.37
13869	21.75	2.50	-5.50	157.88	100.41	192.72	7.51	173.42	126.33	404.69	322.96	502.84	5.26	595.93	131.06
13870	21.68	3.10	-5.50	157.11	96.93	195.72	22.78	171.39	129.08	414.84	310.76	497.05	71.89	577.18	170.50
13871	20.91	2.50	-5.50	153.40	96.28	247.69	9.60	167.86	149.28	437.69	302.20	274.59	10.38	433.66	154.97
13872	20.83	3.10	-5.50	151.44	95.00	249.56	17.71	166.00	151.31	437.91	296.64	274.30	49.50	422.08	170.17
13873	20.06	2.50	-5.50	157.26	90.47	305.74	9.64	166.22	171.29	482.88	270.37	193.47	8.64	314.33	176.50
13874	19.98	3.10	-5.50	155.36	89.71	307.07	12.94	165.02	172.64	479.57	266.23	196.47	25.94	306.67	183.92
13875	23.44	2.50	-6.90	432.27	114.16	76.25	72.29	257.06	91.58	1158.31	412.29	1179.41	171.20	1362.56	313.58
13876	23.37	3.10	-6.90	459.00	133.58	75.81	85.90	264.29	99.93	1311.92	468.10	1187.86	220.99	1330.59	417.99
13877	22.60	2.50	-6.90	341.95	101.98	139.91	29.37	216.76	117.53	984.98	345.32	926.90	78.17	685.36	117.47
13878	22.52	3.10	-6.90	348.35	92.18	143.32	39.31	213.69	122.89	1030.60	312.48	909.03	144.17	657.53	226.87
13879	21.75	2.50	-6.90	306.37	93.22	223.75	21.41	199.52	151.31	952.23	337.53	651.12	22.98	415.78	164.20
13880	21.68	3.10	-6.90	304.97	89.25	225.85	33.26	197.07	153.38	958.63	322.62	641.73	116.22	402.72	200.07
13881	20.91	2.50	-6.90	287.40	89.27	305.96	24.39	181.69	180.75	979.44	337.35	381.71	27.07	292.86	195.02
13882	20.83	3.10	-6.90	284.22	87.79	307.47	28.83	180.09	181.98	974.93	331.83	379.66	76.62	285.55	210.93
13883	20.06	2.50	-6.90	272.07	82.39	376.54	19.82	170.73	205.22	1009.11	308.67	238.53	22.66	232.10	216.41
13884	19.98	3.10	-6.90	268.78	81.62	377.59	21.10	170.01	205.73	1002.49	304.29	241.26	42.91	227.60	224.43
13885	23.44	2.50	-8.30	675.64	154.84	50.51	64.26	289.72	56.90	1904.52	457.54	1627.75	196.32	995.22	268.09
13886	23.37	3.10	-8.30	701.15	169.97	48.08	88.60	292.52	79.97	2034.24	494.40	1608.13	371.44	996.83	328.55
13887	22.60	2.50	-8.30	575.68	129.22	171.22	60.42	238.68	129.42	1798.99	399.22	1169.19	96.12	366.11	132.71
13888	22.52	3.10	-8.30	579.85	121.76	173.17	63.12	235.40	132.24						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
13917	-14.12	2.50	-2.70	32.86	41.69	391.65	54.21	190.33	287.91	95.11	48.60	235.89	54.30	49.16	287.73
13918	-14.05	3.10	-2.70	35.71	42.24	392.14	53.82	191.00	286.15	96.10	48.69	238.49	53.96	51.39	285.86
13919	-15.34	2.50	-2.70	38.76	47.25	401.08	62.62	165.14	281.81	116.27	53.71	248.87	62.64	51.25	281.60
13920	-15.28	3.10	-2.70	41.63	47.90	401.45	62.24	166.30	280.18	117.13	53.85	250.77	62.26	53.89	279.85
13921	-16.57	2.50	-2.70	47.11	53.73	405.98	74.69	141.17	273.94	143.10	60.78	280.77	74.64	64.37	273.72
13922	-16.50	3.10	-2.70	50.05	54.56	406.37	74.27	142.84	272.48	143.85	61.01	281.64	74.19	66.68	272.14
13923	-17.80	2.50	-2.70	60.38	61.70	410.98	94.82	121.92	263.56	180.39	72.38	348.22	94.73	85.83	263.38
13924	-17.72	3.10	-2.70	63.51	63.01	411.51	94.26	124.02	262.29	181.09	72.81	347.58	94.11	87.50	262.01
13925	-19.03	2.50	-2.70	87.91	75.08	382.51	139.69	131.34	228.99	244.70	87.67	432.16	139.56	144.24	228.98
13926	-18.94	3.10	-2.70	91.76	77.72	383.18	138.52	132.85	228.20	245.45	88.81	429.50	138.32	144.23	228.18
13927	-0.61	2.50	-4.10	28.18	6.61	218.61	0.58	356.30	298.91	47.66	44.15	279.55	3.74	83.77	299.18
13928	-0.61	3.10	-4.10	28.06	6.62	223.42	0.71	355.16	297.28	46.93	43.60	283.46	4.67	84.08	297.69
13929	-1.84	2.50	-4.10	28.50	7.70	225.08	5.43	353.93	301.88	50.90	43.78	282.34	6.55	93.76	302.09
13930	-1.83	3.10	-4.10	28.46	7.77	229.70	5.38	352.82	300.20	50.17	43.34	286.18	7.06	93.86	300.52
13931	-3.07	2.50	-4.10	28.75	8.89	237.44	10.74	349.85	304.65	51.98	43.32	283.72	11.36	102.07	304.82
13932	-3.06	3.10	-4.10	28.81	9.03	241.73	10.58	348.76	302.91	51.28	42.97	287.52	11.53	101.98	303.17
13933	-4.30	2.50	-4.10	28.71	10.22	254.62	16.04	343.96	307.15	50.82	42.80	283.82	16.48	108.43	307.28
13934	-4.28	3.10	-4.10	28.92	10.45	258.50	15.79	342.91	305.35	50.20	42.54	287.61	16.48	108.18	305.54
13935	-5.52	2.50	-4.10	28.24	11.79	275.41	21.25	336.16	309.27	47.38	42.29	282.70	21.60	112.64	309.36
13936	-5.50	3.10	-4.10	28.63	12.09	278.85	20.92	335.15	307.40	46.91	42.10	286.49	21.48	112.26	307.54
13937	-6.75	2.50	-4.10	27.20	13.66	298.64	26.28	326.28	310.87	41.75	41.85	280.40	26.59	114.52	310.93
13938	-6.72	3.10	-4.10	27.87	14.03	301.62	25.89	325.32	308.94	41.52	41.72	284.19	26.38	114.06	309.03
13939	-7.98	2.50	-4.10	25.56	15.90	323.23	31.09	314.14	311.78	34.14	41.52	276.89	31.37	113.92	311.81
13940	-7.94	3.10	-4.10	26.61	16.33	325.77	30.65	313.26	309.80	34.35	41.44	280.68	31.09	113.41	309.84
13941	-9.21	2.50	-4.10	23.41	18.60	348.18	35.65	299.56	311.81	25.21	41.38	272.22	35.92	110.68	311.81
13942	-9.17	3.10	-4.10	25.01	19.07	350.29	35.18	298.77	309.78	26.26	41.33	275.99	35.59	110.19	309.78
13943	-10.43	2.50	-4.10	21.13	21.82	372.53	40.03	282.32	310.71	17.38	41.47	266.55	40.27	104.68	310.67
13944	-10.39	3.10	-4.10	23.46	22.31	374.19	39.53	281.68	308.66	19.95	41.43	270.28	39.91	104.29	308.61
13945	-11.66	2.50	-4.10	19.53	25.63	395.22	44.32	262.26	308.20	18.16	41.83	260.39	44.53	95.86	308.13
13946	-11.61	3.10	-4.10	22.66	26.14	396.47	43.81	261.83	306.16	21.59	41.78	264.03	44.14	95.70	306.05
13947	-12.89	2.50	-4.10	19.80	30.12	415.10	48.75	239.34	303.95	29.61	42.48	254.96	48.92	84.35	303.84
13948	-12.83	3.10	-4.10	23.54	30.62	415.95	48.24	239.19	301.93	32.38	42.41	258.44	48.50	84.58	301.76
13949	-14.12	2.50	-4.10	22.71	35.38	430.82	53.69	213.76	297.49	45.28	43.40	252.77	53.81	70.78	297.34
13950	-14.05	3.10	-4.10	26.61	35.87	431.34	53.18	213.99	295.53	47.43	43.29	255.94	53.36	71.61	295.30
13951	-15.34	2.50	-4.10	27.76	41.57	440.71	59.74	186.41	288.08	61.74	44.49	258.42	59.79	57.07	287.90
13952	-15.28	3.10	-4.10	31.53	42.07	440.98	59.21	187.11	286.22	63.52	44.31	261.00	59.29	58.73	285.95
13953	-16.57	2.50	-4.10	33.80	49.00	442.75	67.82	159.53	274.22	75.86	45.39	279.13	67.83	48.76	274.04
13954	-16.50	3.10	-4.10	37.50	49.51	442.89	67.24	160.74	272.51	77.55	45.13	280.67	67.25	51.13	272.24
13955	-17.80	2.50	-4.10	39.82	58.61	429.31	79.11	140.38	251.42	81.13	44.10	317.88	79.14	61.68	251.33
13956	-17.72	3.10	-4.10	43.69	59.17	429.37	78.38	141.90	249.99	83.24	43.77	317.78	78.42	63.28	249.84
13957	-19.03	2.50	-4.10	41.77	71.97	370.20	87.87	138.54	213.15	73.64	33.10	332.75	87.98	121.26	213.38
13958	-18.94	3.10	-4.10	45.92	72.35	370.44	87.07	139.73	212.31	76.55	32.94	331.20	87.23	120.68	212.67
13959	-0.61	2.50	-5.50	33.91	10.29	237.48	1.15	375.01	313.32	148.05	63.24	289.69	0.81	102.64	313.62
13960	-0.61	3.10	-5.50	33.61	10.19	242.49	1.44	373.86	311.65	146.47	62.56	293.95	0.90	103.02	312.09
13961	-1.84	2.50	-5.50	35.86	10.52	243.99	6.46	372.82	315.97	144.30	60.99	293.08	6.32	114.83	316.20
13962	-1.83	3.10	-5.50	35.58	10.46	248.83	6.46	371.69	314.24	142.82	60.45	297.27	6.24	114.97	314.59
13963	-3.07	2.50	-5.50	37.77	10.69	256.68	12.71	369.21	318.55	139.41	58.59	295.33	12.62	125.49	318.73
13964	-3.06	3.10	-5.50	37.53	10.67	261.23	12.58	368.10	316.77	138.03	58.17	299.51	12.44	125.41	317.04
13965	-4.30	2.50	-5.50	39.34	10.86	274.54	18.89	364.09	320.99	133.13	56.08	296.57	18.84	134.30	321.12
13966	-4.28	3.10	-5.50	39.16	10.92	278.72	18.65	363.00	319.15	131.85	55.78	300.74	18.58	134.02	319.35
13967	-5.52	2.50	-5.50	40.26	11.14	296.41	24.86	357.32	323.16	125.27	53.54	296.82	24.84	141.02	323.25
13968	-5.50	3.10	-5.50	40.16	11.28	300.19	24.53	356.26	321.25	124.10	53.34	301.01	24.51	140.56	321.40
13969	-6.75	2.50	-5.50	40.25	11.65	321.16	30.50	348.75	324.90	115.71	51.03	296.07	30.50	145.39	324.97
13970	-6.72	3.10	-5.50	40.26	11.88	324.52	30.09	347.72	322.94	114.68	50.91	300.29	30.11	144.80	323.04
13971	-7.98	2.50	-5.50	39.04	12.54	347.74	35.70	338.17	326.03	104.40	48.60	294.28	35.72	147.18	326.07
13972	-7.94	3.10	-5.50	39.25	12.87	350.67	35.24	337.17	324.01	103.57	48.54	298.52	35.29	146.48	324.08
13973	-9.21	2.50	-5.50	36.43	13.98	375.16	40.39	325.32	326.29	91.40	46.30	291.37	40.43	146.13	326.31
13974	-9.17	3.10	-5.50	36.96	14.41	377.63	39.89	324.37	324.23	90.81	46.28	295.61	39.96	145.37	324.26
13975	-10.43	2.50	-5.50	32.32	16.16	402.39	44.55	309.94	325.38	76.84	44.16	287.34	44.60	141.92	325.37
13976	-10.39	3.10	-5.50	33.36	16.66	404.40	44.03	309.08	323.29	76.62	44.15	291.55	44.11	141.15	323.28
13977	-11.66	2.50	-5.50	26.92	19.20	428.31	48.21	291.73	322.92	61.11	42.15	282.34	48.25	134.18	322.89
13978	-11.61	3.10	-5.50	28.78	19.74	429.83	47.67	291.00	320.82	61.44	42.13	286.47	47.74	133.49	320.78
13979	-12.89	2.50	-5.50	21.30	23.24	451.48	51.46	270.45	318.46	45.11	40.21	276.91	51.48	122.45	318.41
13980	-12.83	3.10	-5.50	24.40	23.79	452.51	50.92	269.94	316.38	46.31	40.15	280.90	50.95	121.97	316.30
13981	-14.12	2.50	-5.50	18.84	28.41	469.95	54.46	246.10	311.40	30.87	38.17	272.38	54.43	106.23	311.32
13982	-14.05	3.10	-5.50	23.07	28.94	470.50	53.91	245.93	309.37	33.48	38.04	276.09	53.88	106.11	309.25
13983	-15.34	2.50	-5.50	23.69	34.91	480.83	57.35	219.30	300.87	22.59	35.68	271.34	57.28	85.26	300.78
13984	-15.28	3.10	-5.50	27.65	35.39	480.96	56.79	219.58	298.93	26.85	35.46	274.54	56.70	85.76	298.80
13985	-16.57	2.50	-5.50	33.68	43.07	478.95	60.08	192.12	285.50	22.52	32.04	276.91	60.00	62.15	285.45
13986	-16.50	3.10	-5.50	36.74	43.46	478.75	59.51	192.91	283.73	27.33	31.70	279.20	59.40	63.55	283.66
13987	-17.80	2.50	-5.50	42.44	53.31	453.94	61.39	167.76	263.76	24.07	26.03	285.80	61.38	60.07	263.8



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
14015	-15.34	2.50	-6.90	26.66	28.03	519.35	58.70	259.51	319.96	82.02	31.10	287.64	58.49	121.19	319.97
14016	-15.28	3.10	-6.90	29.62	28.54	519.36	58.18	259.37	318.07	82.82	31.15	291.43	57.86	121.03	318.09
14017	-16.57	2.50	-6.90	28.79	35.02	517.90	57.39	230.45	306.56	65.26	27.15	281.24	57.21	88.36	306.62
14018	-16.50	3.10	-6.90	31.59	35.46	517.45	56.91	230.82	304.79	66.57	27.22	284.37	56.64	89.08	304.89
14019	-17.80	2.50	-6.90	35.80	43.92	494.25	53.81	196.92	288.83	48.42	24.16	273.48	53.73	61.30	288.98
14020	-17.72	3.10	-6.90	37.72	44.22	493.66	53.44	197.88	287.26	50.20	24.38	275.70	53.32	62.90	287.49
14021	-19.03	2.50	-6.90	39.28	54.39	442.64	47.37	158.06	266.95	30.28	23.80	263.31	47.41	73.18	267.18
14022	-18.94	3.10	-6.90	40.60	54.46	442.43	47.24	159.67	265.66	32.64	24.30	264.48	47.31	73.69	266.01
14023	-0.61	2.50	-8.30	61.35	30.30	275.86	3.06	402.01	338.94	368.20	104.77	312.34	10.92	157.57	339.21
14024	-0.61	3.10	-8.30	61.02	30.17	281.07	3.94	401.01	337.02	365.12	103.88	317.05	13.22	158.04	337.43
14025	-1.84	2.50	-8.30	65.08	30.05	282.13	9.69	400.53	341.09	351.79	98.14	315.56	12.64	171.67	341.29
14026	-1.83	3.10	-8.30	64.75	29.92	287.23	9.97	399.55	339.14	349.11	97.46	320.26	13.91	171.89	339.44
14027	-3.07	2.50	-8.30	70.47	29.91	294.59	18.58	398.38	343.50	336.35	91.34	318.32	19.47	184.82	343.64
14028	-3.06	3.10	-8.30	70.11	29.75	299.48	18.61	397.43	341.52	334.00	90.83	323.04	19.83	184.82	341.73
14029	-4.30	2.50	-8.30	76.64	29.85	312.46	27.39	395.51	346.09	321.43	84.42	320.66	27.60	196.62	346.19
14030	-4.28	3.10	-8.30	76.24	29.65	317.07	27.27	394.59	344.09	319.36	84.07	325.43	27.52	196.42	344.24
14031	-5.52	2.50	-8.30	82.77	29.85	334.84	35.82	391.84	348.77	306.67	77.47	322.59	35.75	206.74	348.83
14032	-5.50	3.10	-8.30	82.33	29.61	339.14	35.59	390.94	346.76	304.82	77.25	327.43	35.45	206.35	346.86
14033	-6.75	2.50	-8.30	88.17	29.86	360.78	43.63	387.25	351.38	291.74	70.57	324.08	43.45	214.83	351.43
14034	-6.72	3.10	-8.30	87.68	29.58	364.75	43.32	386.35	349.38	290.07	70.46	329.00	43.03	214.27	349.45
14035	-7.98	2.50	-8.30	92.21	29.78	389.40	50.61	381.58	353.73	276.35	63.83	325.05	50.38	220.56	353.76
14036	-7.94	3.10	-8.30	91.66	29.49	393.02	50.26	380.67	351.76	274.82	63.80	330.06	49.89	219.83	351.80
14037	-9.21	2.50	-8.30	94.28	29.55	419.85	56.57	374.64	355.54	260.23	57.34	325.38	56.31	223.52	355.56
14038	-9.17	3.10	-8.30	93.70	29.26	423.07	56.18	373.70	353.61	258.83	57.38	330.46	55.78	222.64	353.65
14039	-10.43	2.50	-8.30	93.80	29.11	451.23	61.33	366.16	356.46	243.09	51.18	324.92	61.06	223.21	356.48
14040	-10.39	3.10	-8.30	93.25	28.85	453.98	60.91	365.18	354.60	241.84	51.28	330.02	60.50	222.18	354.64
14041	-11.66	2.50	-8.30	90.14	28.47	482.47	64.76	355.72	356.09	224.61	45.41	323.46	64.49	218.86	356.12
14042	-11.61	3.10	-8.30	89.71	28.26	484.65	64.32	354.71	354.31	223.53	45.55	328.51	63.89	217.73	354.35
14043	-12.89	2.50	-8.30	82.71	27.77	512.09	66.79	342.69	353.99	204.34	40.10	320.72	66.51	209.36	354.02
14044	-12.83	3.10	-8.30	82.53	27.63	513.61	66.30	341.71	352.26	203.50	40.27	325.64	65.87	208.22	352.30
14045	-14.12	2.50	-8.30	71.21	27.33	537.85	67.30	326.02	349.68	181.73	35.39	316.30	67.02	193.09	349.72
14046	-14.05	3.10	-8.30	71.44	27.29	538.62	66.78	325.18	347.99	181.21	35.57	320.96	66.34	192.10	348.05
14047	-15.34	2.50	-8.30	56.12	27.75	556.12	66.10	304.16	342.73	156.07	31.64	309.49	65.84	168.09	342.80
14048	-15.28	3.10	-8.30	56.95	27.84	556.15	65.56	303.61	341.04	155.93	31.81	313.79	65.16	167.52	341.14
14049	-16.57	2.50	-8.30	39.69	29.80	561.51	62.80	274.91	332.74	126.47	29.53	299.30	62.61	133.35	332.85
14050	-16.50	3.10	-8.30	41.29	30.04	560.94	62.31	274.85	331.04	126.79	29.70	303.09	62.02	133.54	331.20
14051	-17.80	2.50	-8.30	27.75	34.18	547.09	56.93	235.91	319.40	92.67	29.66	284.85	56.90	91.98	319.55
14052	-17.72	3.10	-8.30	29.89	34.54	546.27	56.59	236.57	317.71	93.53	29.93	288.04	56.53	93.30	317.94
14053	-19.03	2.50	-8.30	27.41	41.17	505.69	48.16	186.25	302.56	56.76	31.87	267.59	48.36	59.95	302.71
14054	-18.94	3.10	-8.30	28.95	41.56	505.19	48.08	187.88	300.95	58.23	32.42	269.97	48.39	62.20	301.19
14055	-20.06	2.50	-2.70	124.05	95.81	222.35	189.56	168.70	140.92	361.71	79.46	302.59	189.37	274.92	142.54
14056	-19.98	3.10	-2.70	128.32	95.55	222.84	187.77	168.80	141.34	361.63	82.90	300.27	187.48	271.80	143.72
14057	-20.91	2.50	-2.70	58.19	111.15	61.41	107.80	55.65	64.65	201.64	13.44	78.17	107.25	122.22	65.40
14058	-20.83	3.10	-2.70	61.77	111.29	61.57	107.50	55.95	64.62	202.52	16.57	77.75	106.66	121.07	65.74
14059	-21.75	2.50	-2.70	38.86	115.69	31.71	60.81	16.16	43.48	103.51	25.31	43.34	59.68	60.22	43.54
14060	-21.68	3.10	-2.70	41.26	115.32	31.78	61.47	16.61	43.36	104.72	25.16	43.10	59.75	59.94	43.45
14061	-22.60	2.50	-2.70	24.54	116.20	17.76	31.45	12.23	33.17	43.41	43.94	28.91	28.79	25.28	33.20
14062	-22.52	3.10	-2.70	26.07	115.87	17.78	33.17	12.60	33.08	44.33	43.46	28.75	29.25	25.59	33.13
14063	-23.44	2.50	-2.70	8.43	115.72	12.20	15.20	9.47	24.97	9.93	55.29	13.73	8.94	5.36	25.86
14064	-23.37	3.10	-2.70	9.45	115.68	12.20	18.08	9.87	25.00	10.06	54.58	13.69	9.71	6.20	26.33
14065	-20.06	2.50	-4.10	31.75	84.06	276.54	78.24	130.59	175.54	67.37	15.06	288.84	78.05	178.75	176.23
14066	-19.98	3.10	-4.10	35.56	83.91	276.99	77.96	131.39	175.22	69.56	15.18	287.11	77.66	176.84	176.27
14067	-20.91	2.50	-4.10	38.78	92.38	183.32	71.61	101.54	144.32	107.88	7.61	210.55	70.89	187.45	145.02
14068	-20.83	3.10	-4.10	40.55	91.91	183.70	72.00	102.26	144.13	108.06	7.65	209.34	70.91	185.66	145.20
14069	-21.75	2.50	-4.10	28.49	101.81	107.76	50.26	51.92	115.15	85.30	22.86	139.66	49.08	133.38	115.29
14070	-21.68	3.10	-4.10	29.55	101.26	108.00	51.33	52.85	114.93	85.20	22.34	138.88	49.55	132.62	115.15
14071	-22.60	2.50	-4.10	15.20	108.43	64.79	30.40	23.27	95.25	47.98	38.65	108.27	28.39	79.97	95.27
14072	-22.52	3.10	-4.10	16.00	108.02	64.90	32.13	24.64	95.11	47.85	38.23	107.64	29.18	80.21	95.13
14073	-23.44	2.50	-4.10	5.06	114.15	43.41	15.57	12.34	80.79	13.08	53.16	77.55	11.42	30.67	81.61
14074	-23.37	3.10	-4.10	5.77	114.02	43.32	18.27	14.27	80.77	12.81	52.91	77.17	12.65	32.08	82.01
14075	-20.06	2.50	-5.50	32.64	75.48	322.54	52.51	118.18	209.38	26.76	16.36	264.54	52.34	136.65	209.77
14076	-19.98	3.10	-5.50	34.67	75.15	322.90	52.60	119.65	208.68	29.24	16.49	263.74	52.33	135.43	209.26
14077	-20.91	2.50	-5.50	24.59	84.22	252.53	43.05	91.97	187.10	28.11	21.09	240.42	42.55	147.03	187.37
14078	-20.83	3.10	-5.50	26.35	83.81	252.95	43.60	93.42	186.53	29.39	21.43	239.38	42.86	145.92	186.94
14079	-21.75	2.50	-5.50	16.87	92.20	183.34	33.22	64.21	166.43	32.21	28.69	217.79	32.23	136.09	166.48
14080	-21.68	3.10	-5.50	18.22	91.77	183.75	34.36	65.76	165.97	32.48	29.09	216.61	32.89	135.51	166.05
14081	-22.60	2.50	-5.50	10.93	100.34	123.14	22.20	37.93	147.87	22.72	38.45	201.75	20.26	99.78	147.86
14082	-22.52	3.10	-5.50	11.86	100.01	123.42	24.02	39.85	147.54	22.66	38.91	200.51	21.25	100.10	147.53
14083	-23.44	2.50	-5.50	4.57	108.20	88.26	13.44	18.69	132.67	7.35	48.54	193.60	9.14	44.82	133.24
14084	-23.37	3.10	-5.50	5.31	108.04	88.14	16.14	21.71	132.45	7.11	49.16	192.43	10.48	46.68	133.31
14085	-20.06	2.50	-6.90	37.50	64.09	378.79	39.43	121.71	246.20	17.25	26.38	255.21	39.51	101.03	246.42

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
14113	10.30	3.96	-2.70	69.22	32.35	344.95	19.42	273.23	240.28	221.61	26.32	249.50	32.25	143.52	240.02
14114	11.51	3.96	-2.70	74.18	39.84	363.19	18.73	258.47	234.38	229.80	29.99	299.19	33.32	167.33	234.01
14115	12.73	3.96	-2.70	77.56	48.79	378.04	17.70	241.66	228.33	229.28	34.17	371.82	36.13	177.79	228.37
14116	13.94	3.96	-2.70	79.18	58.83	387.54	17.02	221.67	222.40	225.54	38.00	453.18	42.54	164.57	223.44
14117	15.15	3.96	-2.70	79.78	68.84	388.81	18.51	197.29	216.73	236.09	43.19	519.53	52.37	126.27	218.87
14118	16.36	3.96	-2.70	80.83	77.50	377.69	25.11	169.82	210.57	289.66	56.53	547.26	59.49	105.36	214.09
14119	17.57	3.96	-2.70	83.90	86.53	353.04	38.34	146.85	202.29	408.22	69.64	553.96	56.48	160.33	214.86
14120	18.78	3.96	-2.70	85.82	108.71	291.14	61.56	130.68	183.88	601.33	87.43	567.83	67.03	284.55	233.55
14121	0.60	5.05	-2.70	32.45	11.04	225.03	5.16	329.67	271.66	57.87	24.42	286.38	17.39	64.33	272.58
14122	1.79	5.05	-2.70	34.38	10.93	230.27	8.02	328.28	268.16	72.40	22.98	281.61	20.29	55.79	269.19
14123	2.99	5.06	-2.70	37.03	11.56	240.28	10.89	325.12	264.47	89.96	21.61	274.84	23.64	47.58	265.59
14124	4.18	5.06	-2.70	40.49	12.98	254.26	13.47	320.18	260.58	110.22	20.42	266.01	27.15	42.51	261.74
14125	5.38	5.06	-2.70	44.79	15.15	271.26	15.63	313.50	256.47	132.69	19.53	255.50	30.59	45.06	257.60
14126	6.58	5.06	-2.70	49.90	18.05	290.25	17.30	305.11	252.11	156.56	19.14	244.56	33.76	57.59	253.09
14127	7.77	5.06	-2.70	55.70	21.74	310.28	18.44	295.10	247.43	180.57	19.48	236.29	36.45	78.17	248.10
14128	8.97	5.07	-2.70	61.89	26.33	330.39	19.07	283.60	242.39	202.84	20.78	236.68	38.50	103.79	242.58
14129	10.16	5.07	-2.70	67.97	32.07	349.64	19.21	270.75	236.91	220.76	23.30	254.34	39.92	131.09	236.54
14130	11.36	5.07	-2.70	73.22	39.32	367.00	18.99	256.56	230.97	231.34	27.29	296.11	41.14	154.83	230.28
14131	12.55	5.07	-2.70	76.76	48.55	381.19	18.62	240.55	224.65	232.68	33.07	360.68	43.36	166.44	224.46
14132	13.75	5.07	-2.70	77.97	60.23	390.31	18.47	221.35	218.19	227.92	40.69	435.02	48.67	154.77	219.92
14133	14.94	5.08	-2.70	77.20	74.37	391.35	19.33	196.50	212.03	232.31	50.21	494.26	58.68	116.69	216.70
14134	16.14	5.08	-2.70	76.18	89.95	379.19	23.13	164.42	206.48	278.84	65.47	509.67	68.71	101.14	214.36
14135	17.33	5.08	-2.70	76.27	105.65	351.08	31.07	130.11	201.18	409.24	94.73	508.42	64.40	154.83	219.74
14136	18.53	5.08	-2.70	74.76	123.33	272.94	48.55	103.04	176.58	645.54	136.09	574.48	66.87	241.29	220.55
14137	0.59	6.15	-2.70	32.76	11.78	239.67	5.97	325.61	266.21	58.03	23.38	298.73	20.68	65.43	267.44
14138	1.76	6.15	-2.70	34.20	11.72	244.50	8.38	324.18	262.88	71.37	21.82	294.45	23.81	57.36	264.26
14139	2.94	6.16	-2.70	36.39	12.44	253.67	10.92	321.01	259.36	87.70	20.35	288.31	27.46	49.13	260.85
14140	4.11	6.16	-2.70	39.39	13.94	266.51	13.26	316.10	255.84	106.74	19.06	280.29	31.44	42.68	257.18
14141	5.29	6.16	-2.70	43.28	16.14	282.18	15.26	309.46	251.71	128.09	18.11	270.65	35.56	41.83	253.22
14142	6.46	6.16	-2.70	48.03	18.99	299.76	16.85	301.16	247.55	151.11	17.71	260.34	39.65	50.10	248.87
14143	7.64	6.16	-2.70	53.54	22.51	318.37	18.03	291.27	243.11	174.82	18.11	251.72	43.50	66.95	244.06
14144	8.81	6.17	-2.70	59.61	26.79	337.11	18.78	279.97	238.34	197.72	19.54	249.46	46.83	89.57	238.68
14145	9.99	6.17	-2.70	65.82	32.04	355.12	19.18	267.46	233.15	217.64	22.18	260.85	49.40	114.78	232.72
14146	11.16	6.17	-2.70	71.52	38.64	371.44	19.35	253.89	227.46	231.88	26.20	293.14	51.07	138.04	226.38
14147	12.34	6.17	-2.70	75.83	47.23	384.94	19.54	239.03	221.17	238.16	31.98	347.77	52.19	151.83	220.39
14148	13.51	6.17	-2.70	77.83	58.79	393.93	20.23	221.79	214.21	237.50	40.43	415.02	53.94	145.66	216.24
14149	14.69	6.18	-2.70	77.26	74.55	395.61	22.16	199.58	206.54	240.83	52.83	471.80	58.63	114.45	215.49
14150	15.86	6.18	-2.70	75.78	94.87	384.70	26.22	169.20	198.02	278.73	71.54	485.82	68.12	101.85	217.09
14151	17.04	6.18	-2.70	76.29	116.20	356.82	33.73	132.88	189.14	401.92	110.34	472.39	79.18	156.12	218.61
14152	18.21	6.18	-2.70	78.28	131.96	279.80	53.97	104.23	165.76	642.47	174.91	519.08	96.63	231.32	200.95
14153	0.58	7.25	-2.70	33.59	12.79	256.12	7.10	320.71	259.69	58.49	22.45	313.01	23.68	66.53	261.20
14154	1.73	7.25	-2.70	34.44	12.80	260.50	9.11	319.25	256.57	70.37	20.87	309.23	27.04	59.13	258.25
14155	2.88	7.25	-2.70	36.01	13.63	268.76	11.31	316.08	253.26	85.14	19.43	303.75	31.00	51.23	255.05
14156	4.03	7.25	-2.70	38.39	15.23	280.34	13.41	311.21	249.76	102.55	18.25	296.52	35.45	44.03	251.59
14157	5.18	7.25	-2.70	41.65	17.51	294.52	15.28	304.65	246.07	122.28	17.51	287.74	40.27	40.18	247.84
14158	6.33	7.26	-2.70	45.79	20.38	310.51	16.85	296.44	242.17	143.86	17.42	278.07	45.34	43.40	243.73
14159	7.48	7.26	-2.70	50.74	23.82	327.50	18.12	286.69	238.06	166.57	18.25	269.19	50.50	55.11	239.20
14160	8.63	7.26	-2.70	56.36	27.88	344.67	19.11	275.55	233.69	189.33	20.20	264.49	55.47	73.29	234.15
14161	9.78	7.26	-2.70	62.36	32.70	361.22	19.88	263.29	229.01	210.63	23.38	269.61	59.87	94.95	228.54
14162	10.93	7.26	-2.70	68.29	38.55	376.32	20.52	250.18	223.92	228.57	27.87	291.38	63.22	116.35	222.48
14163	12.08	7.26	-2.70	73.51	45.91	389.00	21.20	236.35	218.25	241.53	33.79	333.68	65.06	131.75	216.57
14164	13.23	7.26	-2.70	77.34	55.57	397.95	22.33	221.41	211.65	250.19	41.60	391.82	65.31	133.11	212.50
14165	14.38	7.26	-2.70	79.43	68.88	401.12	25.17	204.07	203.37	262.04	52.75	449.14	65.58	115.47	213.79
14166	15.53	7.26	-2.70	80.60	87.49	394.56	32.38	182.37	191.76	298.65	70.90	477.30	72.14	104.38	223.12
14167	16.68	7.26	-2.70	83.98	111.37	374.40	45.48	156.18	175.24	400.14	108.24	466.41	96.58	153.34	227.21
14168	17.83	7.26	-2.70	88.57	136.54	309.77	70.33	128.26	150.45	589.94	197.01	444.86	142.87	235.19	186.95
14169	0.61	3.95	-4.10	27.51	5.49	231.91	4.59	353.70	291.44	40.54	42.56	286.26	7.67	73.92	292.20
14170	1.82	3.95	-4.10	27.51	4.59	238.17	9.00	352.74	288.34	33.85	42.28	280.56	11.07	62.66	289.24
14171	3.03	3.95	-4.10	28.11	4.22	250.01	13.03	350.15	285.13	26.04	41.77	273.15	14.72	52.30	286.15
14172	4.24	3.95	-4.10	29.49	4.78	266.51	16.58	345.91	281.77	17.80	40.99	264.26	18.11	45.89	282.90
14173	5.45	3.95	-4.10	31.82	6.40	286.58	19.53	339.97	278.24	10.18	39.92	254.75	21.02	47.77	279.40
14174	6.67	3.95	-4.10	35.25	8.94	309.11	21.82	332.26	274.45	5.09	38.49	246.73	23.31	59.16	275.56
14175	7.88	3.96	-4.10	39.88	12.33	333.00	23.36	322.69	270.32	5.19	36.63	244.30	24.88	76.99	271.24
14176	9.09	3.96	-4.10	45.82	16.63	357.17	24.12	311.13	265.72	9.11	34.19	253.58	25.73	97.51	266.31
14177	10.30	3.96	-4.10	53.18	21.95	380.45	24.11	297.39	260.54	19.27	30.92	280.41	25.96	117.13	260.69
14178	11.51	3.96	-4.10	62.12	28.43	401.47	23.38	281.15	254.64	38.01	26.50	326.09	25.89	131.77	254.39
14179	12.73	3.96	-4.10	72.68	36.16	418.43	22.09	261.92	247.87	63.51	21.34	384.39	26.17	136.88	247.50
14180	13.94	3.96	-4.10	84.54	45.08	428.85	20.50	239.31	239.96	88.97	21.50	442.00	27.63	129.61	240.07
14181	15.15	3.96	-4.10	96.46	55.00	429.28	19.01	213.73	230.40	102.41	38.39	482.08	29.97	113.34	231.82
14182	16.36	3.96	-4.10	106.04	65.78	415.57	18.21	187.92	218.06	93.18	70.08	494.00	30.39	101.71	222.47
14183	17.57	3.96	-4.10	110.49	77.99	380.58	18.48	166.85	200.39	67.31	113.07				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
14211	12.34	6.17	-4.10	66.96	35.75	425.30	20.76	257.92	239.80	36.18	17.26	365.46	28.19	115.06	238.73
14212	13.51	6.17	-4.10	77.71	44.58	434.66	20.97	237.68	231.53	58.37	22.97	412.10	30.15	112.29	231.24
14213	14.69	6.18	-4.10	89.35	55.71	435.10	21.91	214.25	221.18	74.22	38.36	445.59	34.99	100.94	224.22
14214	15.86	6.18	-4.10	100.77	69.42	422.33	23.60	188.47	207.85	71.15	68.06	452.60	43.55	93.10	217.06
14215	17.04	6.18	-4.10	110.37	85.42	387.70	25.63	163.91	189.78	59.37	118.20	432.14	55.05	101.38	205.30
14216	18.21	6.18	-4.10	111.51	101.97	317.30	25.00	146.44	166.69	71.25	192.91	364.48	60.90	159.63	179.78
14217	0.58	7.25	-4.10	27.64	5.64	278.06	4.15	340.43	275.23	35.07	36.45	326.87	12.28	78.08	277.19
14218	1.73	7.25	-4.10	26.89	5.12	283.02	7.38	339.34	272.56	29.11	35.22	322.62	14.35	68.76	274.81
14219	2.88	7.25	-4.10	26.74	5.85	292.30	10.42	336.67	269.72	22.20	33.70	317.07	16.91	59.07	272.24
14220	4.03	7.25	-4.10	27.38	7.60	305.35	13.09	332.41	266.71	14.97	31.85	310.34	19.62	50.07	269.44
14221	5.18	7.25	-4.10	28.96	10.00	321.40	15.30	326.49	263.49	8.95	29.62	302.82	22.25	43.81	266.32
14222	6.33	7.26	-4.10	31.63	12.88	339.61	17.02	318.89	260.03	7.87	26.94	295.49	24.65	43.33	262.80
14223	7.48	7.26	-4.10	35.45	16.19	359.09	18.20	309.56	256.28	11.09	23.80	290.24	26.69	50.22	258.72
14224	8.63	7.26	-4.10	40.48	19.99	378.88	18.89	298.48	252.14	13.44	20.27	290.18	28.24	62.68	253.93
14225	9.78	7.26	-4.10	46.73	24.37	397.98	19.15	285.66	247.49	13.13	16.73	299.36	29.24	77.45	248.25
14226	10.93	7.26	-4.10	54.20	29.53	415.24	19.18	271.07	242.13	12.87	14.45	321.15	29.71	91.11	241.62
14227	12.08	7.26	-4.10	62.88	35.73	429.29	19.31	254.63	235.77	21.19	16.22	355.34	29.97	100.07	234.25
14228	13.23	7.26	-4.10	72.69	43.34	438.25	20.05	236.15	227.93	36.87	24.04	395.56	31.09	101.36	226.84
14229	14.38	7.26	-4.10	83.27	52.91	439.47	22.10	215.50	217.71	50.94	38.95	428.92	35.36	95.89	220.46
14230	15.53	7.26	-4.10	93.76	65.01	429.31	26.01	193.23	203.62	53.17	65.00	440.66	46.25	93.96	214.56
14231	16.68	7.26	-4.10	103.16	79.74	400.80	31.84	171.19	183.12	48.17	108.59	419.92	65.43	109.96	202.04
14232	17.83	7.26	-4.10	107.42	95.50	344.86	37.40	154.25	154.70	62.36	168.26	348.96	81.71	167.02	171.31
14233	0.61	3.95	-5.50	31.39	9.51	251.47	5.83	372.47	306.20	146.28	62.97	297.04	5.95	91.04	307.07
14234	1.82	3.95	-5.50	30.27	8.91	258.17	11.17	371.90	303.65	148.69	64.26	291.48	11.49	77.89	304.70
14235	3.03	3.95	-5.50	30.00	8.11	270.74	16.19	369.95	301.11	151.48	65.15	284.77	16.65	65.13	302.34
14236	4.24	3.95	-5.50	30.81	7.08	288.33	20.68	366.57	298.52	155.56	65.53	277.27	21.29	54.45	299.92
14237	5.45	3.95	-5.50	32.90	5.87	309.87	24.51	361.65	295.85	162.08	65.25	270.03	25.29	48.48	297.36
14238	6.67	3.95	-5.50	36.56	4.79	334.27	27.56	355.03	293.00	172.53	64.08	265.18	28.53	49.56	294.53
14239	7.88	3.96	-5.50	42.12	4.86	360.42	29.72	346.51	289.84	188.63	61.71	266.33	30.90	56.87	291.24
14240	9.09	3.96	-5.50	50.01	7.05	387.22	30.91	335.81	286.20	212.20	57.63	278.13	32.28	66.99	287.31
14241	10.30	3.96	-5.50	60.65	11.06	413.43	31.10	322.58	281.86	244.79	51.08	304.36	32.53	76.51	282.52
14242	11.51	3.96	-5.50	74.31	16.50	437.59	30.27	306.38	276.57	286.94	40.92	344.93	31.53	83.00	276.70
14243	12.73	3.96	-5.50	90.93	23.30	457.73	28.49	286.75	270.00	337.19	25.53	394.28	29.22	85.56	269.73
14244	13.94	3.96	-5.50	109.82	31.49	471.17	25.79	263.51	261.69	391.33	5.78	441.88	25.84	85.76	261.49
14245	15.15	3.96	-5.50	129.37	41.15	474.21	22.14	237.35	251.05	442.90	32.55	474.52	22.03	87.76	251.82
14246	16.36	3.96	-5.50	146.79	52.39	461.61	17.35	210.44	237.24	485.46	78.98	477.78	18.28	97.01	240.49
14247	17.57	3.96	-5.50	157.34	65.10	427.25	11.07	186.54	219.50	511.18	140.49	431.62	12.82	125.51	226.93
14248	18.78	3.96	-5.50	157.00	78.32	368.73	8.48	168.25	197.80	502.94	213.58	312.18	9.57	194.41	210.52
14249	0.60	5.05	-5.50	30.59	9.00	265.11	5.58	368.87	301.79	141.46	60.69	309.19	5.57	92.60	303.11
14250	1.79	5.05	-5.50	29.40	8.35	271.45	10.48	368.26	299.33	143.49	61.55	304.05	10.83	80.09	300.92
14251	2.99	5.06	-5.50	29.04	7.59	283.33	15.15	366.28	296.85	145.79	62.00	297.88	15.72	67.70	298.72
14252	4.18	5.06	-5.50	29.73	6.77	299.98	19.34	362.88	294.33	149.19	61.92	291.00	20.12	56.70	296.44
14253	5.38	5.06	-5.50	31.64	6.01	320.44	22.91	357.94	291.69	154.75	61.18	284.28	23.93	49.19	293.98
14254	6.58	5.06	-5.50	35.03	5.73	343.67	25.77	351.31	288.87	163.83	59.59	279.47	27.07	47.51	291.20
14255	7.77	5.06	-5.50	40.22	6.56	368.62	27.82	342.82	285.74	178.05	56.90	279.56	29.45	52.10	287.91
14256	8.97	5.07	-5.50	47.60	8.86	394.19	29.02	332.22	282.12	199.21	52.73	288.54	31.01	60.44	283.88
14257	10.16	5.07	-5.50	57.59	12.56	419.14	29.35	319.22	277.81	228.91	46.52	309.97	31.66	69.23	278.90
14258	11.36	5.07	-5.50	70.47	17.60	442.03	28.87	303.43	272.53	267.99	37.41	344.46	31.29	75.92	272.80
14259	12.55	5.07	-5.50	86.30	23.99	460.97	27.68	284.45	265.93	315.58	24.09	387.64	29.74	79.41	265.53
14260	13.75	5.07	-5.50	104.57	31.86	473.41	25.86	262.06	257.59	368.11	6.49	430.02	26.96	80.94	257.15
14261	14.94	5.08	-5.50	123.98	41.29	475.79	23.35	236.70	246.95	419.45	26.78	459.13	23.41	84.14	247.79
14262	16.14	5.08	-5.50	142.03	52.34	462.90	19.82	210.20	233.36	463.36	69.42	461.45	20.09	93.35	237.48
14263	17.33	5.08	-5.50	153.81	64.74	428.04	14.59	185.76	216.56	492.41	129.82	418.43	16.56	118.72	225.97
14264	18.53	5.08	-5.50	153.32	77.32	368.67	11.02	165.39	197.40	487.08	207.95	307.77	9.23	180.98	213.36
14265	0.59	6.15	-5.50	29.78	8.33	281.18	5.30	364.25	296.60	135.62	58.00	323.74	5.06	94.25	298.39
14266	1.76	6.15	-5.50	28.48	7.63	287.09	9.69	363.59	294.26	137.25	58.40	319.05	9.98	82.57	296.40
14267	2.94	6.16	-5.50	28.00	6.99	298.15	13.92	361.58	291.86	139.02	58.36	313.44	14.53	70.80	294.36
14268	4.11	6.16	-5.50	28.52	6.53	313.69	17.73	358.15	289.39	141.67	57.79	307.18	18.61	59.84	292.21
14269	5.29	6.16	-5.50	30.21	6.46	332.86	20.97	353.20	286.80	146.15	56.56	300.96	22.15	51.18	289.85
14270	6.46	6.16	-5.50	33.28	7.08	354.70	23.56	346.58	284.01	153.66	54.53	296.15	25.08	46.82	287.13
14271	7.64	6.16	-5.50	38.02	8.61	378.20	25.43	338.13	280.91	165.66	51.48	295.10	27.39	48.04	283.86
14272	8.81	6.17	-5.50	44.78	11.13	402.27	26.54	327.64	277.35	183.80	47.12	301.03	29.06	53.75	279.79
14273	9.99	6.17	-5.50	53.94	14.67	425.71	26.92	314.89	273.12	209.68	41.06	317.17	30.12	61.20	274.69
14274	11.16	6.17	-5.50	65.79	19.28	447.12	26.69	299.59	267.95	244.37	32.67	344.71	30.55	67.86	268.40
14275	12.34	6.17	-5.50	80.41	25.09	464.71	26.03	281.44	261.47	287.65	21.00	380.80	30.24	72.46	260.92
14276	13.51	6.17	-5.50	97.48	32.28	476.11	25.16	260.21	253.23	337.06	5.54	417.58	28.89	75.81	252.45
14277	14.69	6.18	-5.50	116.02	41.03	478.04	24.22	236.17	242.59	387.61	21.42	443.54	26.31	81.01	243.26
14278	15.86	6.18	-5.50	134.07	51.47	465.72	23.02	210.61	228.84	433.84	57.46	445.40	23.26	91.79	233.28
14279	17.04	6.18	-5.50	147.55	63.47	432.83	20.92	186.10	211.61	469.73	109.59	405.93	21.30	116.43	221.93
14280	18.21	6.18	-5.50	150.91	76.48	376.45	17.71	164.64	191.82	478.80	179.61	306.61	17.46	172.76	209.77
14281	0.58	7.25	-5.50	29.17	7.59	299.46	4.99	358.56	290.70	128.86	55.00	340.57	4.49	95.81	292.92

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
14309	15.15	3.96	-6.90	164.32	29.13	521.54	28.91	266.69	277.55	768.24	19.11	477.67	35.38	109.75	277.89
14310	16.36	3.96	-6.90	191.59	40.13	516.42	21.78	235.68	264.93	862.68	70.85	482.47	25.21	130.39	267.38
14311	17.57	3.96	-6.90	218.67	53.53	491.43	13.47	202.76	248.82	943.56	143.98	433.94	16.31	153.79	255.99
14312	18.78	3.96	-6.90	242.22	69.00	441.49	12.64	175.55	228.56	983.67	233.77	317.33	24.33	183.02	244.71
14313	0.60	5.05	-6.90	42.11	18.48	284.86	8.00	384.63	315.48	251.51	82.33	321.46	14.28	116.51	316.83
14314	1.79	5.05	-6.90	41.78	18.30	291.39	13.69	384.42	313.57	261.38	85.00	316.90	20.41	103.30	315.25
14315	2.99	5.06	-6.90	43.04	17.93	303.65	19.45	383.17	311.79	272.66	87.16	311.77	26.88	90.36	313.81
14316	4.18	5.06	-6.90	45.78	17.35	320.92	24.80	380.79	310.11	286.22	88.70	306.44	33.22	78.40	312.46
14317	5.38	5.06	-6.90	49.79	16.51	342.31	29.51	377.14	308.49	303.18	89.43	301.68	39.19	68.32	311.10
14318	6.58	5.06	-6.90	54.98	15.41	366.85	33.42	372.02	306.81	324.86	89.10	298.99	44.62	61.04	309.57
14319	7.77	5.06	-6.90	61.50	14.07	393.52	36.38	365.16	304.95	352.85	87.35	300.68	49.32	57.17	307.65
14320	8.97	5.07	-6.90	69.72	12.71	421.23	38.28	356.26	302.70	388.90	83.68	309.72	53.11	56.78	305.08
14321	10.16	5.07	-6.90	80.25	11.87	448.78	39.05	344.93	299.78	434.74	77.39	328.71	55.75	59.65	301.54
14322	11.36	5.07	-6.90	93.76	12.55	474.77	38.65	330.71	295.86	491.89	67.46	358.34	56.91	66.10	296.77
14323	12.55	5.07	-6.90	110.80	15.64	497.40	37.10	313.09	290.52	561.22	52.50	395.92	56.14	77.02	290.58
14324	13.75	5.07	-6.90	131.66	21.22	514.30	34.41	291.52	283.29	642.60	30.86	434.79	52.84	92.50	282.92
14325	14.94	5.08	-6.90	156.11	29.05	522.06	30.50	265.66	273.70	734.38	12.51	464.17	46.44	111.01	274.00
14326	16.14	5.08	-6.90	183.01	39.07	516.10	25.13	235.72	261.32	831.17	53.62	467.79	36.98	131.01	264.40
14327	17.33	5.08	-6.90	210.02	51.56	491.25	18.48	203.34	245.87	917.80	120.72	423.31	26.74	152.82	255.36
14328	18.53	5.08	-6.90	232.81	67.35	442.75	14.86	175.04	227.14	962.30	213.59	318.03	24.64	178.76	248.72
14329	0.59	6.15	-6.90	40.79	17.84	301.15	8.35	379.94	310.50	242.34	79.10	336.53	15.41	118.14	312.33
14330	1.76	6.15	-6.90	40.39	17.59	307.29	13.19	379.69	308.68	251.14	81.14	332.34	21.37	105.89	310.93
14331	2.94	6.16	-6.90	41.52	17.19	318.81	18.34	378.42	306.95	261.14	82.67	327.68	27.71	93.81	309.65
14332	4.11	6.16	-6.90	44.04	16.64	335.08	23.20	376.04	305.30	273.14	83.58	322.85	34.01	82.51	308.43
14333	5.29	6.16	-6.90	47.72	15.93	355.32	27.51	372.39	303.68	288.12	83.73	318.49	40.07	72.70	307.15
14334	6.46	6.16	-6.90	52.44	15.09	378.59	31.12	367.28	301.99	307.32	82.89	315.78	45.77	65.17	305.66
14335	7.64	6.16	-6.90	58.28	14.22	403.91	33.89	360.44	300.11	332.20	80.81	316.57	50.99	60.60	303.74
14336	8.81	6.17	-6.90	65.63	13.56	430.18	35.73	351.59	297.86	364.39	77.13	323.22	55.63	59.39	301.09
14337	9.99	6.17	-6.90	75.05	13.57	456.18	36.61	340.40	294.98	405.63	71.32	337.98	59.59	61.76	297.41
14338	11.16	6.17	-6.90	87.22	14.89	480.46	36.53	326.48	291.14	457.54	62.70	361.69	62.69	68.13	292.45
14339	12.34	6.17	-6.90	102.74	17.98	501.28	35.60	309.43	285.93	521.42	50.28	392.48	64.59	79.15	286.05
14340	13.51	6.17	-6.90	121.95	22.97	516.37	33.95	288.79	278.87	597.85	32.87	424.89	64.75	94.84	278.32
14341	14.69	6.18	-6.90	144.85	29.81	522.66	31.64	264.18	269.48	686.43	12.86	449.55	62.40	113.79	269.58
14342	15.86	6.18	-6.90	170.75	38.50	516.07	28.61	235.55	257.30	784.16	35.22	452.17	56.86	134.20	260.60
14343	17.04	6.18	-6.90	198.08	49.39	492.06	24.65	203.98	242.13	880.28	88.00	413.46	47.78	155.58	253.01
14344	18.21	6.18	-6.90	223.45	63.78	446.45	20.17	174.82	223.91	947.90	166.92	322.87	35.34	179.80	249.65
14345	0.58	7.25	-6.90	39.32	17.12	319.68	8.79	374.04	305.18	231.65	75.45	353.91	16.14	119.54	307.45
14346	1.73	7.25	-6.90	38.82	16.80	325.35	12.71	373.76	303.46	239.31	76.81	350.06	21.93	108.40	306.22
14347	2.88	7.25	-6.90	39.80	16.42	336.00	17.14	372.48	301.80	247.93	77.66	345.83	28.08	97.37	305.07
14348	4.03	7.25	-6.90	42.08	15.99	351.11	21.41	370.10	300.16	258.21	77.91	341.43	34.26	86.96	303.92
14349	5.18	7.25	-6.90	45.40	15.54	369.96	25.24	366.47	298.51	271.03	77.43	337.36	40.31	77.74	302.68
14350	6.33	7.26	-6.90	49.61	15.16	391.71	28.46	361.39	296.77	287.46	76.03	334.53	46.15	70.38	301.17
14351	7.48	7.26	-6.90	54.76	14.97	415.41	30.95	354.60	294.84	308.79	73.53	334.30	51.76	65.50	299.19
14352	8.63	7.26	-6.90	61.16	15.21	439.96	32.64	345.84	292.56	336.45	69.66	338.49	57.14	63.71	296.45
14353	9.78	7.26	-6.90	69.34	16.16	464.13	33.51	334.82	289.69	372.05	64.09	348.88	62.34	65.50	292.67
14354	10.93	7.26	-6.90	79.94	18.15	486.46	33.63	321.26	285.95	417.18	56.36	366.37	67.38	71.45	287.59
14355	12.08	7.26	-6.90	93.51	21.39	505.22	33.18	304.85	280.96	473.30	45.89	389.83	72.27	82.18	281.15
14356	13.23	7.26	-6.90	110.43	25.97	518.28	32.39	285.24	274.29	541.65	32.22	415.14	76.77	97.84	273.54
14357	14.38	7.26	-6.90	130.79	31.92	522.89	31.59	262.03	265.41	622.85	16.69	434.60	80.36	117.52	265.23
14358	15.53	7.26	-6.90	154.31	39.24	515.60	31.04	234.98	253.82	716.15	23.01	436.33	82.69	139.47	257.05
14359	16.68	7.26	-6.90	180.60	48.07	492.72	30.76	204.56	239.16	817.11	56.98	404.73	82.83	162.26	250.85
14360	17.83	7.26	-6.90	208.68	59.20	451.04	30.05	174.69	221.28	911.89	108.48	331.34	76.46	186.83	250.72
14361	0.61	3.95	-8.30	59.07	30.20	290.36	10.04	399.84	332.11	376.09	108.03	321.60	21.61	144.92	332.94
14362	1.82	3.95	-8.30	60.53	30.47	297.09	17.79	400.03	330.67	394.52	113.40	317.61	29.35	131.20	331.74
14363	3.03	3.95	-8.30	64.62	30.68	309.77	25.56	399.54	329.56	415.51	118.27	313.31	37.80	118.23	330.88
14364	4.24	3.95	-8.30	70.79	30.77	327.75	32.83	398.28	328.75	439.88	122.48	309.00	46.32	106.82	330.33
14365	5.45	3.95	-8.30	78.44	30.66	350.16	39.36	396.11	328.19	468.62	125.81	305.35	54.51	97.85	329.99
14366	6.67	3.95	-8.30	87.10	30.27	376.10	44.92	392.81	327.78	502.93	127.90	303.60	62.05	92.30	329.72
14367	7.88	3.96	-8.30	96.59	29.53	404.65	49.28	388.14	327.38	544.20	128.27	305.68	68.65	91.22	329.34
14368	9.09	3.96	-8.30	106.97	28.38	434.85	52.24	381.76	326.75	594.00	126.19	314.13	73.92	95.76	328.56
14369	10.30	3.96	-8.30	118.64	26.87	465.72	53.60	373.26	325.60	654.17	120.69	331.46	77.44	107.21	327.05
14370	11.51	3.96	-8.30	132.24	25.21	496.11	53.22	362.12	323.53	726.74	110.42	359.12	78.70	126.66	324.44
14371	12.73	3.96	-8.30	148.76	23.97	524.62	50.99	347.57	320.10	814.07	93.61	396.28	77.04	154.03	320.42
14372	13.94	3.96	-8.30	169.50	24.28	549.32	46.81	328.50	314.88	918.56	68.24	438.83	71.63	187.06	314.77
14373	15.15	3.96	-8.30	196.04	27.62	567.36	40.51	303.31	307.45	1041.84	35.80	477.99	61.67	220.61	307.55
14374	16.36	3.96	-8.30	229.98	35.16	574.51	31.78	270.10	297.38	1182.33	48.09	498.32	47.00	246.14	299.21
14375	17.57	3.96	-8.30	272.41	47.49	564.81	20.76	228.11	284.10	1331.73	125.57	476.46	30.22	251.66	290.96
14376	18.78	3.96	-8.30	323.59	64.79	530.32	13.88	182.16	266.49	1471.64	235.05	389.09	24.60	225.85	285.51
14377	0.60	5.05	-8.30	57.99	29.68	304.24	10.77	396.40	327.51	365.93	104.91	334.50	25.14	146.49	328.79
14378	1.79	5.05	-8.30	59.38	29.87	310.69	17.60	396.58	326.15	382.87	109.62	330.78	33.02	133.56	327.77
14379	2.99	5.06	-8.30	63.32	29.										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
14407	17.04	6.18	-8.30	242.52	40.30	558.74	34.55	231.68	276.95	1236.64	58.06	449.36	90.83	260.40	288.52
14408	18.21	6.18	-8.30	292.07	54.93	527.36	28.28	188.31	260.95	1404.78	142.84	383.71	65.69	245.50	290.73
14409	0.58	7.25	-8.30	54.76	28.09	338.56	13.26	385.68	317.41	339.17	96.83	366.90	30.02	148.69	319.52
14410	1.73	7.25	-8.30	55.95	28.07	344.25	17.75	385.84	316.20	352.42	99.88	363.69	38.16	137.84	318.84
14411	2.88	7.25	-8.30	59.54	27.94	355.05	23.20	385.42	315.23	367.37	102.40	360.43	47.13	127.65	318.44
14412	4.03	7.25	-8.30	64.89	27.71	370.48	28.72	384.31	314.48	384.67	104.30	357.31	56.55	118.69	318.27
14413	5.18	7.25	-8.30	71.30	27.34	389.92	33.89	382.33	313.93	405.12	105.42	354.72	66.19	111.60	318.23
14414	6.33	7.26	-8.30	78.21	26.84	412.60	38.46	379.26	313.50	429.70	105.61	353.32	75.91	107.11	318.17
14415	7.48	7.26	-8.30	85.31	26.22	437.65	42.25	374.76	313.10	459.56	104.66	354.10	85.55	106.02	317.86
14416	8.63	7.26	-8.30	92.61	25.51	464.03	45.09	368.47	312.55	496.06	102.30	358.31	95.00	109.27	317.00
14417	9.78	7.26	-8.30	100.46	24.81	490.48	46.87	360.02	311.59	540.82	98.18	367.17	104.16	117.90	315.22
14418	10.93	7.26	-8.30	109.52	24.33	515.56	47.57	349.05	309.83	595.82	91.85	381.37	112.97	132.98	312.18
14419	12.08	7.26	-8.30	120.74	24.36	537.62	47.27	335.20	306.82	663.59	82.76	400.44	121.51	155.14	307.65
14420	13.23	7.26	-8.30	135.37	25.33	554.87	46.18	317.89	302.06	747.58	70.41	422.11	129.76	183.83	301.75
14421	14.38	7.26	-8.30	155.02	27.68	565.21	44.66	296.12	295.06	851.94	54.17	441.51	137.31	216.49	295.09
14422	15.53	7.26	-8.30	181.67	31.79	566.08	43.19	268.38	285.44	981.03	35.41	449.98	143.49	247.65	289.09
14423	16.68	7.26	-8.30	217.72	38.10	554.05	42.10	233.35	272.96	1138.49	33.55	434.49	145.67	268.49	286.48
14424	17.83	7.26	-8.30	265.57	47.96	524.51	40.99	192.09	257.44	1323.67	77.87	381.90	136.47	268.15	291.80
14425	19.82	3.96	-2.70	120.80	144.50	206.92	87.10	132.22	157.25	961.78	159.01	374.36	79.98	509.42	187.87
14426	20.67	3.96	-2.70	149.81	154.95	177.74	96.61	120.36	145.49	793.27	283.78	166.03	109.67	402.92	178.25
14427	21.53	3.96	-2.70	177.17	149.16	183.55	124.14	125.52	149.99	680.60	403.40	290.13	120.81	428.17	265.36
14428	22.38	3.96	-2.70	217.93	155.65	195.99	160.62	141.04	169.92	581.01	564.81	506.15	151.66	524.06	489.27
14429	23.24	3.96	-2.70	270.86	349.63	253.43	243.11	162.66	243.30	423.69	771.08	871.02	234.68	439.71	1202.61
14430	19.56	5.08	-2.70	106.30	147.17	132.16	58.74	91.03	118.46	1126.89	175.79	408.37	71.69	454.29	126.86
14431	20.42	5.08	-2.70	123.08	155.85	43.24	40.14	51.64	74.66	843.70	206.97	53.14	29.16	234.84	82.67
14432	21.29	5.08	-2.70	112.29	157.25	31.40	77.64	40.84	73.57	600.57	166.63	42.89	67.25	177.02	93.65
14433	22.15	5.07	-2.70	88.81	156.64	29.13	101.67	31.78	81.20	340.14	123.03	98.54	115.16	133.69	168.49
14434	23.02	5.07	-2.70	21.46	159.36	24.57	52.42	18.91	71.98	92.71	202.93	212.57	46.93	47.11	287.95
14435	19.24	6.18	-2.70	116.44	153.04	139.67	67.33	91.26	112.13	1139.31	232.96	370.86	88.11	418.49	112.49
14436	20.12	6.18	-2.70	136.68	154.23	47.23	16.86	51.05	67.92	900.48	250.45	45.28	35.80	230.05	72.97
14437	20.99	6.18	-2.70	126.41	159.67	31.92	56.12	39.37	67.25	664.22	181.24	58.19	126.75	189.96	86.62
14438	21.87	6.18	-2.70	85.10	178.24	28.45	91.30	20.09	79.73	349.35	100.99	119.19	183.58	148.38	168.49
14439	22.75	6.17	-2.70	25.64	172.49	20.38	33.05	23.71	67.84	49.17	153.06	214.78	100.71	72.49	118.84
14440	18.86	7.26	-2.70	131.31	153.07	199.16	101.51	116.69	113.96	978.11	297.03	287.39	184.10	390.94	114.90
14441	19.75	7.26	-2.70	159.98	139.11	135.43	83.01	105.83	96.45	904.99	362.05	117.21	134.24	334.93	111.18
14442	20.64	7.26	-2.70	175.74	143.37	126.70	81.77	110.68	105.85	812.61	421.00	269.49	82.50	374.07	178.04
14443	21.53	7.26	-2.70	195.33	150.26	136.04	114.53	115.75	134.33	637.54	398.80	485.13	251.60	477.44	387.34
14444	22.42	7.26	-2.70	231.09	372.24	188.83	191.25	108.62	215.24	441.74	539.61	828.52	426.41	511.24	1171.21
14445	19.82	3.96	-4.10	83.52	99.57	252.58	14.80	147.64	153.78	39.90	229.10	253.94	10.91	352.75	175.37
14446	20.67	3.96	-4.10	70.77	105.29	205.86	24.13	139.31	137.66	118.50	269.34	162.15	36.08	479.94	171.79
14447	21.53	3.96	-4.10	74.44	111.06	177.41	35.85	134.43	128.03	111.10	321.26	336.91	65.46	562.59	224.07
14448	22.38	3.96	-4.10	93.02	113.90	166.94	50.31	139.11	133.65	88.27	358.81	591.21	85.33	687.85	430.02
14449	23.24	3.96	-4.10	128.62	153.84	170.70	90.08	137.61	170.30	108.84	436.42	917.20	126.28	858.43	1128.14
14450	19.56	5.08	-4.10	84.59	106.44	227.28	17.11	132.33	161.90	53.62	263.32	255.92	7.21	302.33	176.80
14451	20.42	5.08	-4.10	62.84	110.20	165.52	32.88	114.07	152.67	148.42	309.11	119.17	47.01	417.23	167.71
14452	21.29	5.08	-4.10	54.11	113.24	127.54	54.77	92.11	147.44	120.48	369.31	227.76	91.98	437.35	182.29
14453	22.15	5.07	-4.10	47.97	113.95	113.38	65.28	67.76	150.91	50.71	450.25	404.62	123.28	403.58	291.18
14454	23.02	5.07	-4.10	10.48	106.70	114.36	37.23	36.56	141.07	22.56	558.24	647.06	144.75	238.95	505.05
14455	19.24	6.18	-4.10	92.34	110.19	233.90	21.18	131.43	148.26	67.41	261.53	236.61	39.47	278.65	154.12
14456	20.12	6.18	-4.10	73.39	117.96	165.54	24.75	113.26	137.18	163.01	311.47	113.29	17.01	402.78	136.70
14457	20.99	6.18	-4.10	63.51	122.26	120.40	47.84	89.80	133.27	149.77	365.54	241.12	61.96	448.09	137.34
14458	21.87	6.18	-4.10	45.09	121.09	99.46	68.02	55.95	139.50	85.90	416.99	412.58	103.29	414.45	212.08
14459	22.75	6.17	-4.10	14.32	92.81	93.86	34.21	26.58	131.88	24.66	518.36	638.90	97.42	117.89	173.41
14460	18.86	7.26	-4.10	97.23	107.42	276.65	36.68	141.59	128.44	65.63	220.62	233.74	63.61	271.68	137.71
14461	19.75	7.26	-4.10	87.43	124.22	215.34	30.64	132.55	110.40	135.12	267.35	183.35	32.24	404.39	114.16
14462	20.64	7.26	-4.10	88.24	140.09	169.35	19.36	127.54	104.05	146.94	306.33	360.68	17.66	528.37	100.73
14463	21.53	7.26	-4.10	99.58	144.43	142.49	42.14	121.68	120.53	144.86	315.84	597.53	73.11	679.31	224.27
14464	22.42	7.26	-4.10	131.94	153.65	134.77	101.03	94.94	174.52	170.03	283.39	856.58	172.52	667.19	917.39
14465	19.82	3.96	-5.50	148.47	89.19	304.37	17.33	158.86	176.64	453.83	276.87	195.89	40.45	288.06	195.11
14466	20.67	3.96	-5.50	136.86	96.28	245.74	29.21	153.92	158.32	402.15	323.58	256.67	84.59	389.21	189.22
14467	21.53	3.96	-5.50	127.28	100.55	191.58	45.07	146.75	142.20	346.18	355.93	454.11	142.21	510.98	215.70
14468	22.38	3.96	-5.50	130.73	104.56	155.16	68.89	135.20	135.52	331.12	388.47	674.18	206.53	646.80	363.40
14469	23.24	3.96	-5.50	155.48	163.85	131.53	109.77	131.42	166.39	340.96	582.36	902.93	299.73	799.87	999.85
14470	19.56	5.08	-5.50	141.84	88.49	302.55	19.00	152.10	179.77	429.29	285.45	196.53	28.77	266.49	200.98
14471	20.42	5.08	-5.50	120.46	97.96	241.03	34.20	140.57	165.65	356.51	356.08	240.60	72.63	358.25	191.83
14472	21.29	5.08	-5.50	88.03	106.31	183.96	52.26	118.27	153.60	247.75	415.51	410.57	136.01	447.81	192.87
14473	22.15	5.07	-5.50	51.52	111.91	151.09	64.56	74.47	144.02	152.33	465.97	587.65	192.02	455.99	267.17
14474	23.02	5.07	-5.50	13.20	103.73	146.60	34.82	31.49	125.41	42.16	457.61	723.68	138.08	266.59	437.49
14475	19.24	6.18	-5.50	143.70	90.02	311.75	17.06	150.77	173.73	437.05	257.33	209.07	12.23	253.52	197.90
14476	20.12	6.18	-5.50	124.85	103.15	248.90	24.90	140.							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
14505	19.82	3.96	-8.30	374.20	82.51	476.51	25.83	154.88	246.86	1565.48	343.43	298.79	51.42	182.71	286.93
14506	20.67	3.96	-8.30	420.26	98.04	405.33	44.82	159.47	224.26	1601.35	428.13	371.32	117.80	163.68	296.43
14507	21.53	3.96	-8.30	468.90	113.24	305.05	69.77	194.24	192.12	1581.27	481.78	672.77	246.52	194.35	319.60
14508	22.38	3.96	-8.30	512.28	132.85	171.81	105.41	243.82	145.85	1473.97	498.37	1049.63	456.21	261.62	369.96
14509	23.24	3.96	-8.30	517.55	221.00	70.53	165.20	280.02	144.74	1188.38	716.96	1254.15	688.24	483.45	604.29
14510	19.56	5.08	-8.30	356.66	82.11	477.42	23.16	156.47	246.75	1527.70	332.82	305.04	37.43	183.86	297.07
14511	20.42	5.08	-8.30	394.44	103.98	408.27	40.34	159.15	227.60	1521.52	468.42	369.69	81.88	157.07	310.71
14512	21.29	5.08	-8.30	423.74	125.86	309.56	67.38	195.11	201.17	1389.45	594.45	644.48	195.02	201.03	327.18
14513	22.15	5.07	-8.30	429.01	145.44	175.27	95.64	249.90	159.61	1070.97	654.23	949.06	360.70	270.92	335.24
14514	23.02	5.07	-8.30	373.19	149.35	92.33	78.52	276.16	116.76	546.23	487.11	869.44	300.11	282.85	228.33
14515	19.24	6.18	-8.30	341.53	74.91	479.10	23.67	157.04	244.34	1528.40	263.33	313.78	34.86	204.17	300.94
14516	20.12	6.18	-8.30	382.35	100.93	413.83	27.46	154.23	227.10	1557.70	419.19	371.56	27.09	166.55	312.41
14517	20.99	6.18	-8.30	411.03	132.66	320.04	45.81	187.65	205.36	1433.47	610.58	641.04	45.87	186.58	304.68
14518	21.87	6.18	-8.30	410.35	149.76	191.75	71.42	243.87	173.79	1070.86	713.77	950.27	126.94	256.86	227.38
14519	22.75	6.17	-8.30	368.54	133.81	78.46	81.02	263.34	116.07	567.69	461.51	825.63	267.47	288.96	116.25
14520	18.86	7.26	-8.30	319.16	62.01	480.25	38.45	157.80	241.07	1502.40	154.86	323.17	106.60	242.69	306.48
14521	19.75	7.26	-8.30	373.45	83.52	420.58	32.89	145.27	223.91	1639.73	271.19	365.44	52.90	209.16	325.78
14522	20.64	7.26	-8.30	427.33	120.11	334.88	27.07	168.64	202.51	1692.43	463.39	627.05	52.95	203.91	329.95
14523	21.53	7.26	-8.30	463.64	164.68	216.43	40.50	225.05	175.19	1552.01	699.59	1019.83	127.77	275.86	237.37
14524	22.42	7.26	-8.30	443.13	165.16	69.67	68.23	252.39	152.98	1144.60	655.99	1137.91	127.39	399.01	381.41
14525	-0.61	3.95	-2.70	30.72	11.27	212.64	2.70	332.45	279.53	45.68	26.74	279.39	12.13	71.46	280.04
14526	-0.60	5.05	-2.70	31.14	11.81	225.04	3.62	329.27	274.95	46.58	25.88	289.35	15.34	72.00	275.73
14527	-0.59	6.15	-2.70	31.96	12.55	239.58	4.70	325.27	269.31	47.86	24.97	301.35	18.36	72.52	270.37
14528	-0.58	7.25	-2.70	33.37	13.55	255.96	6.00	320.46	262.57	49.66	24.11	315.24	21.10	72.91	263.90
14529	-1.82	3.95	-2.70	29.45	12.47	218.40	5.21	330.14	282.72	36.89	28.05	280.93	11.94	78.21	283.15
14530	-1.79	5.05	-2.70	30.32	13.08	230.28	5.47	327.04	277.98	38.65	27.33	290.70	14.59	78.31	278.63
14531	-1.76	6.15	-2.70	31.69	13.90	244.25	5.93	323.15	272.14	40.97	26.57	302.47	17.15	78.28	273.04
14532	-1.73	7.25	-2.70	33.68	14.95	260.01	6.69	318.48	265.20	43.93	25.82	316.06	19.51	78.06	266.32
14533	-3.03	3.95	-2.70	28.52	14.02	229.27	9.24	325.94	285.63	31.47	29.36	280.94	13.53	83.29	285.97
14534	-2.99	5.06	-2.70	29.91	14.74	240.26	9.03	322.95	280.71	34.02	28.79	290.60	15.38	83.00	281.24
14535	-2.94	6.16	-2.70	31.85	15.68	253.25	8.90	319.22	274.68	37.23	28.17	302.19	17.26	82.54	275.40
14536	-2.88	7.25	-2.70	34.42	16.84	267.96	8.98	314.73	267.52	41.12	27.55	315.55	19.07	81.84	268.43
14537	-4.24	3.95	-2.70	27.85	15.88	244.29	13.58	319.78	288.18	29.18	30.68	279.55	16.43	86.53	288.44
14538	-4.18	5.06	-2.70	29.82	16.73	254.18	13.07	316.95	283.09	32.40	30.26	289.13	17.49	85.96	283.49
14539	-4.11	6.16	-2.70	32.37	17.81	265.91	12.54	313.41	276.86	36.31	29.79	300.61	18.64	85.19	277.41
14540	-4.03	7.25	-2.70	35.54	19.11	279.25	12.12	309.19	269.50	40.86	29.32	313.77	19.80	84.18	270.19
14541	-5.45	3.95	-2.70	27.42	18.03	262.40	18.03	311.58	290.29	29.61	32.06	276.84	20.04	87.82	290.47
14542	-5.38	5.06	-2.70	30.05	19.01	271.07	17.30	308.95	285.04	33.34	31.77	286.37	20.49	87.11	285.31
14543	-5.29	6.16	-2.70	33.25	20.24	281.39	16.48	305.68	278.62	37.73	31.46	297.75	20.99	86.19	278.99
14544	-5.18	7.25	-2.70	37.01	21.69	293.17	15.68	301.80	271.08	42.72	31.14	310.75	21.52	85.06	271.53
14545	-6.67	3.95	-2.70	27.27	20.47	282.52	22.52	301.25	291.86	32.41	33.54	272.84	24.02	87.11	291.96
14546	-6.58	5.06	-2.70	30.62	21.58	289.94	21.60	298.88	286.46	36.46	33.37	282.34	24.02	86.40	286.60
14547	-6.46	6.16	-2.70	34.50	22.95	298.80	20.56	295.96	279.88	41.15	33.20	293.62	24.01	85.53	280.06
14548	-6.33	7.26	-2.70	38.85	24.56	308.95	19.50	292.51	272.19	46.40	33.05	306.48	24.00	84.51	272.39
14549	-7.88	3.96	-2.70	27.51	23.23	303.63	27.01	288.68	292.77	37.45	35.16	267.62	28.18	84.38	292.79
14550	-7.77	5.06	-2.70	31.62	24.45	309.83	25.97	286.66	287.25	41.64	35.11	277.07	27.85	83.88	287.26
14551	-7.64	6.16	-2.70	36.18	25.96	317.24	24.76	284.19	280.55	46.45	35.07	288.26	27.46	83.29	280.54
14552	-7.48	7.26	-2.70	41.10	27.72	325.75	23.49	281.28	272.75	51.80	35.08	300.97	27.01	82.65	272.69
14553	-9.09	3.96	-2.70	28.32	26.34	324.81	31.53	273.80	292.91	44.75	37.01	261.31	32.47	79.71	292.83
14554	-8.97	5.07	-2.70	33.15	27.66	329.83	30.41	272.24	287.32	48.89	37.05	270.69	31.90	79.67	287.18
14555	-8.81	6.17	-2.70	38.35	29.29	335.86	29.09	270.33	280.55	53.66	37.14	281.78	31.22	79.67	280.33
14556	-8.63	7.26	-2.70	43.80	31.20	342.79	27.68	268.11	272.69	58.95	37.30	294.31	30.43	79.72	272.35
14557	-10.30	3.96	-2.70	29.87	29.84	345.18	36.17	256.57	292.13	54.35	39.16	254.31	36.91	73.36	291.96
14558	-10.16	5.07	-2.70	35.34	31.25	349.10	35.00	255.60	286.53	58.29	39.28	263.56	36.18	74.12	286.24
14559	-9.99	6.17	-2.70	41.10	32.99	353.83	33.62	254.42	279.76	62.85	39.49	274.48	35.27	75.07	279.32
14560	-9.78	7.26	-2.70	47.03	35.04	359.29	32.13	253.06	271.93	67.94	39.81	286.81	34.23	76.20	271.29
14561	-11.51	3.96	-2.70	32.31	33.77	363.87	41.09	237.04	290.30	66.30	41.72	247.50	41.65	65.94	290.03
14562	-11.36	5.07	-2.70	38.28	35.26	366.81	39.91	236.82	284.76	69.92	41.92	256.50	40.79	67.94	284.32
14563	-11.16	6.17	-2.70	44.50	37.13	370.37	38.51	236.55	278.08	74.16	42.25	267.13	39.73	70.28	277.41
14564	-10.93	7.26	-2.70	50.83	39.34	374.53	36.98	236.25	270.38	78.90	42.75	279.13	38.48	72.86	269.43
14565	-12.73	3.96	-2.70	35.75	38.21	380.06	46.57	215.41	287.29	80.70	44.86	242.67	46.96	58.91	286.92
14566	-12.55	5.07	-2.70	42.07	39.80	382.16	45.41	216.15	281.91	83.93	45.15	251.16	46.01	62.58	281.30
14567	-12.34	6.17	-2.70	48.65	41.81	384.76	44.03	217.01	275.42	87.76	45.62	261.22	44.82	66.66	274.51
14568	-12.08	7.26	-2.70	55.34	44.23	387.85	42.49	217.98	267.96	92.07	46.33	272.62	43.40	70.95	266.70
14569	-13.94	3.96	-2.70	40.30	43.25	392.96	53.10	192.19	282.99	97.85	48.82	243.11	53.31	55.06	282.52
14570	-13.75	5.07	-2.70	46.88	44.99	394.46	51.96	194.09	277.85	100.69	49.23	250.58	52.27	60.48	277.09
14571	-13.51	6.17	-2.70	53.79	47.21	396.36	50.60	196.30	271.68	104.07	49.90	259.52	50.97	66.23	270.56
14572	-13.23	7.26	-2.70	60.80	49.91	398.71	49.06	198.75	264.60	107.92	50.89	269.77	49.39	72.02	263.07
14573	-15.15	3.96	-2.70	46.33	49.06	402.08	61.50	168.36	277.25	118.63	54.06	259.18	61.53	58.23	276.72
14574	-14.94	5.08	-2.70	53.18	51.10	403.28	60.36	171.60	272.49	121.11	54.68	259.82	60.37	64.52	271.62
14575	-14.69	6.18	-2.70	60.44	53.71	404.86	58.99	175.32</							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
14603	-4.11	6.16	-4.10	31.60	12.43	288.79	13.64	333.78	290.83	45.92	40.39	317.63	16.57	105.68	291.50
14604	-4.03	7.25	-4.10	33.61	13.44	303.34	12.56	328.95	283.61	44.52	39.29	332.20	16.70	104.17	284.47
14605	-5.45	3.95	-4.10	29.39	12.64	284.85	20.32	333.26	304.08	46.07	41.75	293.15	21.24	111.53	304.30
14606	-5.38	5.06	-4.10	30.79	13.56	294.43	19.33	330.23	298.75	44.97	41.20	303.77	20.90	110.34	299.10
14607	-5.29	6.16	-4.10	32.73	14.68	305.82	18.13	326.43	292.33	43.97	40.52	316.39	20.54	108.80	292.81
14608	-5.18	7.25	-4.10	35.30	15.96	318.82	16.73	321.85	284.86	43.33	39.68	330.79	20.17	106.88	285.48
14609	-6.67	3.95	-4.10	29.09	14.70	306.84	25.17	323.54	305.50	41.15	41.47	290.85	25.98	113.17	305.64
14610	-6.58	5.06	-4.10	31.16	15.81	315.19	23.99	320.68	299.98	40.84	41.09	301.44	25.37	111.75	300.21
14611	-6.46	6.16	-4.10	33.79	17.16	325.13	22.55	317.12	293.34	40.82	40.61	313.98	24.66	109.96	293.64
14612	-6.33	7.26	-4.10	37.02	18.67	336.47	20.87	312.87	285.63	41.36	40.00	328.22	23.88	107.82	286.01
14613	-7.88	3.96	-4.10	28.45	17.10	330.19	29.83	311.61	306.26	34.78	41.27	287.34	30.57	112.45	306.33
14614	-7.77	5.06	-4.10	31.39	18.37	337.31	28.51	309.00	300.57	35.75	41.03	297.90	29.75	110.95	300.67
14615	-7.64	6.16	-4.10	34.87	19.90	345.77	26.87	305.75	293.72	37.25	40.71	310.35	28.78	109.10	293.84
14616	-7.48	7.26	-4.10	38.86	21.62	355.41	24.97	301.90	285.80	39.44	40.28	324.41	27.68	106.94	285.94
14617	-9.09	3.96	-4.10	27.68	19.91	353.93	34.30	297.32	306.16	28.08	41.21	282.62	34.98	109.27	306.15
14618	-8.97	5.07	-4.10	31.69	21.30	359.82	32.86	295.02	300.34	31.08	41.05	293.12	34.01	107.86	300.31
14619	-8.81	6.17	-4.10	36.14	22.97	366.81	31.09	292.19	293.32	34.68	40.85	305.46	32.83	106.16	293.26
14620	-8.63	7.26	-4.10	40.96	24.85	374.76	29.01	288.85	285.24	38.87	40.55	319.31	31.47	104.23	285.12
14621	-10.30	3.96	-4.10	27.14	23.20	377.06	38.61	280.49	304.99	23.89	41.33	276.84	39.23	103.56	304.90
14622	-10.16	5.07	-4.10	32.35	24.66	381.74	37.10	278.63	299.08	29.40	41.22	287.22	38.14	102.48	298.92
14623	-9.99	6.17	-4.10	37.84	26.42	387.30	35.22	276.35	291.96	35.14	41.07	299.38	36.80	101.21	291.71
14624	-9.78	7.26	-4.10	43.50	28.42	393.61	33.01	273.68	283.78	41.11	40.84	312.99	35.23	99.79	283.40
14625	-11.51	3.96	-4.10	27.39	27.04	398.59	42.87	261.01	302.48	26.66	41.67	270.45	43.41	95.36	302.30
14626	-11.36	5.07	-4.10	33.77	28.54	402.10	41.32	259.75	296.55	33.41	41.55	280.61	42.22	94.92	296.25
14627	-11.16	6.17	-4.10	40.21	30.36	406.28	39.38	258.20	289.41	40.22	41.40	292.49	40.75	94.42	288.95
14628	-10.93	7.26	-4.10	46.66	32.44	411.04	37.08	256.41	281.22	47.06	41.19	305.76	39.00	93.88	280.55
14629	-12.73	3.96	-4.10	29.04	31.52	417.38	47.28	238.88	298.31	36.81	42.24	264.57	47.72	84.92	298.03
14630	-12.55	5.07	-4.10	36.30	33.03	419.82	45.71	238.44	292.44	43.12	42.06	274.31	46.45	85.53	291.98
14631	-12.34	6.17	-4.10	43.50	34.87	422.74	43.74	237.86	285.38	49.76	41.86	285.70	44.85	86.22	284.70
14632	-12.08	7.26	-4.10	50.59	37.01	426.10	41.38	237.15	277.30	56.57	41.61	298.44	42.93	86.98	276.35
14633	-13.94	3.96	-4.10	32.41	36.76	432.18	52.21	214.37	292.02	51.05	43.04	261.53	52.51	72.99	291.65
14634	-13.75	5.07	-4.10	40.15	38.26	433.69	50.62	214.98	286.32	56.49	42.75	270.45	51.13	75.14	285.72
14635	-13.51	6.17	-4.10	47.86	40.12	435.55	48.62	215.63	279.48	62.48	42.45	280.93	49.39	77.48	278.59
14636	-13.23	7.26	-4.10	55.43	42.31	437.76	46.19	216.27	271.66	68.80	42.13	292.71	47.27	79.89	270.45
14637	-15.15	3.96	-4.10	37.33	42.94	441.40	58.19	188.32	282.90	66.59	43.94	265.57	58.34	61.47	282.46
14638	-14.94	5.08	-4.10	45.30	44.47	442.25	56.55	190.21	277.50	71.36	43.51	272.93	56.34	65.52	276.79
14639	-14.69	6.18	-4.10	53.36	46.38	443.34	54.48	192.31	271.02	76.77	43.08	281.69	54.87	69.75	270.00
14640	-14.38	7.26	-4.10	61.34	48.63	444.71	51.96	194.51	263.64	82.59	42.64	291.65	52.51	73.87	262.27
14641	-16.36	3.96	-4.10	43.33	50.41	443.09	66.11	162.85	269.49	80.48	44.61	283.40	66.12	54.93	269.05
14642	-16.14	5.08	-4.10	51.56	52.03	443.57	64.29	166.09	264.54	85.11	44.01	287.94	64.32	60.34	263.85
14643	-15.86	6.18	-4.10	60.03	54.06	444.20	62.01	169.70	258.62	90.42	43.43	293.50	62.06	65.78	257.65
14644	-15.53	7.26	-4.10	68.51	56.46	445.02	59.25	173.47	251.92	96.19	42.91	300.02	59.32	70.89	250.65
14645	-17.57	3.96	-4.10	49.86	60.12	429.45	76.98	144.54	247.52	86.89	43.16	317.53	77.03	65.88	247.29
14646	-17.33	5.08	-4.10	58.66	61.86	429.68	74.74	148.56	243.41	92.56	42.46	317.43	74.80	69.64	243.07
14647	-17.04	6.18	-4.10	67.77	64.02	429.96	71.94	153.03	238.55	98.94	41.88	317.58	71.99	73.45	238.10
14648	-16.68	7.26	-4.10	76.89	66.55	430.28	68.59	157.67	233.12	105.75	41.46	318.14	68.60	77.00	232.58
14649	-18.78	3.96	-4.10	52.48	72.95	370.87	85.51	141.82	211.02	81.47	32.81	328.38	85.79	119.52	211.58
14650	-18.53	5.08	-4.10	61.76	74.19	371.61	83.11	145.01	208.74	88.85	32.76	324.20	83.42	117.68	209.63
14651	-18.21	6.18	-4.10	71.31	75.73	372.52	80.07	148.55	206.16	96.91	33.06	319.53	80.40	115.35	207.41
14652	-17.83	7.26	-4.10	80.80	77.51	373.56	76.47	152.23	203.41	105.26	33.70	314.74	76.74	112.58	205.04
14653	-0.61	3.95	-5.50	33.10	9.97	251.16	1.85	371.69	308.74	143.59	61.35	301.40	0.93	103.65	309.44
14654	-0.60	5.05	-5.50	32.38	9.57	264.78	2.37	368.14	304.20	139.07	59.47	313.26	0.80	104.50	305.27
14655	-0.59	6.15	-5.50	31.68	9.06	280.83	2.81	363.58	298.87	133.57	57.24	327.49	0.55	105.28	300.34
14656	-0.58	7.25	-5.50	31.21	8.51	299.09	3.08	357.96	292.82	127.19	54.71	343.96	0.52	105.83	294.66
14657	-1.82	3.95	-5.50	35.12	10.33	257.23	6.46	369.55	311.24	140.11	59.49	304.63	6.08	115.16	311.79
14658	-1.79	5.05	-5.50	34.49	10.10	270.44	6.43	366.06	306.55	135.86	57.98	316.33	5.84	115.33	307.40
14659	-1.76	6.15	-5.50	33.92	9.84	286.03	6.36	361.57	301.04	130.68	56.17	330.35	5.56	115.28	302.22
14660	-1.73	7.25	-5.50	33.61	9.60	303.78	6.17	356.05	294.81	124.66	54.10	346.53	5.30	114.92	296.30
14661	-3.03	3.95	-5.50	37.14	10.66	269.13	12.32	366.00	313.66	135.50	57.43	306.82	12.11	125.19	314.09
14662	-2.99	5.06	-5.50	36.63	10.65	281.61	11.90	362.57	308.79	131.52	56.27	318.46	11.59	124.73	309.45
14663	-2.94	6.16	-5.50	36.23	10.70	296.36	11.36	358.18	303.07	126.67	54.86	332.34	10.99	123.95	303.99
14664	-2.88	7.25	-5.50	36.12	10.87	313.17	10.67	352.78	296.60	121.03	53.22	348.32	10.34	122.76	297.78
14665	-4.24	3.95	-5.50	38.86	11.04	285.99	18.20	360.94	315.92	129.51	55.24	308.06	18.09	133.45	316.23
14666	-4.18	5.06	-5.50	38.52	11.29	297.51	17.46	357.59	310.84	125.83	54.39	319.68	17.32	132.43	311.34
14667	-4.11	6.16	-5.50	38.34	11.71	311.15	16.52	353.31	304.88	121.35	53.36	333.49	16.41	131.01	305.58
14668	-4.03	7.25	-5.50	38.49	12.31	326.70	15.39	348.06	298.13	116.14	52.14	349.31	15.40	129.11	299.04
14669	-5.45	3.95	-5.50	40.00	11.56	306.75	23.91	354.26	317.90	121.97	52.97	308.36	23.88	139.68	318.13
14670	-5.38	5.06	-5.50	39.91	12.11	317.19	22.89	351.00	312.61	118.64	52.41	320.00	22.89	138.20	312.98
14671	-5.29	6.16	-5.50	40.03	12.90	329.54	21.62	346.85	306.38	114.60	51.71	333.77	21.70	136.24	306.90
14672	-5.18	7.25	-5.50	40.54	13.94	343.62	20.09	341.78	299.34	109.93	50.86	349.45	20.37	133.75	300.01
14673	-6.67	3.95	-5.50	40.33	12.35	330.35	29.34	345.77	319.46	112.81	50.68	307.67	29.38	143.66	319.63

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
14701	-15.15	3.96	-5.50	33.54	36.23	481.08	55.74	220.03	295.48	33.09	35.02	280.16	55.61	86.54	295.27
14702	-14.94	5.08	-5.50	41.41	37.70	481.42	54.04	220.67	289.87	41.26	34.42	289.08	53.86	87.69	289.55
14703	-14.69	6.18	-5.50	49.17	39.54	481.81	51.90	221.24	283.19	49.21	33.76	299.43	51.70	88.76	282.74
14704	-14.38	7.26	-5.50	56.66	41.71	482.22	49.28	221.68	275.69	56.80	33.08	310.82	49.12	89.63	275.11
14705	-16.36	3.96	-5.50	41.61	44.11	478.30	58.45	194.26	280.62	34.24	31.05	283.22	58.28	65.84	280.50
14706	-16.14	5.08	-5.50	48.56	45.31	477.71	56.73	196.28	275.55	43.18	30.15	289.69	56.48	69.15	275.39
14707	-15.86	6.18	-5.50	55.73	46.83	476.97	54.61	198.42	269.57	51.80	29.18	297.29	54.29	72.46	269.36
14708	-15.53	7.26	-5.50	62.84	48.65	476.08	52.05	200.48	262.93	59.98	28.23	305.76	51.70	75.46	262.69
14709	-17.57	3.96	-5.50	48.69	53.82	452.99	59.85	171.03	259.79	35.53	24.93	288.43	59.82	63.62	259.99
14710	-17.33	5.08	-5.50	54.53	54.51	452.08	58.24	174.16	255.67	44.43	23.96	291.32	58.18	66.82	256.00
14711	-17.04	6.18	-5.50	60.78	55.40	450.93	56.26	177.53	250.88	53.09	22.97	294.89	56.17	70.04	251.37
14712	-16.68	7.26	-5.50	67.13	56.50	449.58	53.92	180.90	245.65	61.34	22.08	299.10	53.82	73.00	246.32
14713	-18.78	3.96	-5.50	46.65	64.69	395.27	57.48	147.89	233.42	33.22	18.17	282.04	57.48	100.20	234.11
14714	-18.53	5.08	-5.50	51.93	64.51	395.32	56.50	151.62	230.63	41.34	17.76	281.75	56.49	98.96	231.71
14715	-18.21	6.18	-5.50	57.69	64.36	395.39	55.31	155.73	227.46	49.40	17.39	281.73	55.26	97.44	228.96
14716	-17.83	7.26	-5.50	63.67	64.27	395.45	53.89	159.94	224.08	57.23	17.14	282.15	53.79	95.71	226.00
14717	-0.61	3.95	-6.90	44.96	18.95	270.59	3.71	387.39	322.05	249.11	81.47	312.92	8.35	128.53	322.74
14718	-0.60	5.05	-6.90	43.90	18.53	284.47	4.94	383.85	317.51	242.34	79.26	325.38	9.86	129.41	318.57
14719	-0.59	6.15	-6.90	42.63	17.99	300.76	6.20	379.21	312.40	234.07	76.63	340.20	10.94	130.11	313.86
14720	-0.58	7.25	-6.90	41.22	17.37	319.30	7.37	373.38	306.96	224.38	73.64	357.29	11.63	130.44	308.78
14721	-1.82	3.95	-6.90	47.84	18.84	276.68	8.35	385.56	324.31	239.45	77.59	316.32	9.59	141.39	324.84
14722	-1.79	5.05	-6.90	46.79	18.49	290.21	8.82	382.07	319.63	233.33	75.87	328.68	10.08	141.54	320.45
14723	-1.76	6.15	-6.90	45.55	18.05	306.11	9.40	377.49	314.36	225.83	73.80	343.36	10.33	141.38	315.49
14724	-1.73	7.25	-6.90	44.19	17.58	324.20	10.00	371.76	308.75	217.00	71.44	360.23	10.32	140.75	310.18
14725	-3.03	3.95	-6.90	51.32	18.66	288.74	15.19	382.67	326.65	229.61	73.48	319.03	15.13	153.04	327.04
14726	-2.99	5.06	-6.90	50.28	18.37	301.65	15.05	379.25	321.80	224.07	72.21	331.37	14.69	152.53	322.42
14727	-2.94	6.16	-6.90	49.06	18.07	316.82	14.89	374.76	316.33	217.25	70.68	345.99	14.00	151.58	317.19
14728	-2.88	7.25	-6.90	47.76	17.81	334.08	14.72	369.14	310.49	209.19	68.91	362.72	13.09	150.10	311.60
14729	-4.24	3.95	-6.90	54.84	18.43	305.99	22.14	378.66	328.99	219.24	69.21	321.09	21.74	163.12	329.28
14730	-4.18	5.06	-6.90	53.81	18.22	318.07	21.56	375.30	323.96	214.21	68.35	333.48	20.77	162.02	324.42
14731	-4.11	6.16	-6.90	52.63	18.08	332.27	20.86	370.92	318.25	208.01	67.32	348.10	19.52	160.39	318.89
14732	-4.03	7.25	-6.90	51.40	18.09	348.39	20.06	365.43	312.12	200.67	66.11	364.74	18.00	158.13	312.96
14733	-5.45	3.95	-6.90	57.90	18.18	327.46	28.87	373.39	331.22	208.06	64.84	322.50	28.38	171.33	331.43
14734	-5.38	5.06	-6.90	56.90	18.07	338.59	27.95	370.11	326.00	203.50	64.34	335.00	27.09	169.72	326.33
14735	-5.29	6.16	-6.90	55.78	18.12	351.66	26.81	365.83	320.03	197.89	63.76	349.66	25.45	167.48	320.50
14736	-5.18	7.25	-6.90	54.63	18.44	366.45	25.47	360.50	313.57	191.24	63.07	366.24	23.51	164.56	314.19
14737	-6.67	3.95	-6.90	60.04	17.95	352.14	35.18	366.69	333.21	195.87	60.44	323.21	34.70	177.37	333.36
14738	-6.58	5.06	-6.90	59.12	17.97	362.25	33.99	363.48	327.79	191.77	60.24	335.84	33.18	175.30	328.03
14739	-6.46	6.16	-6.90	58.11	18.25	374.09	32.49	359.32	321.54	186.72	60.05	350.57	31.27	172.55	321.88
14740	-6.33	7.26	-6.90	57.11	18.93	387.42	30.72	354.16	314.73	180.76	59.82	367.08	29.00	169.07	315.18
14741	-7.88	3.96	-6.90	60.85	17.77	379.05	40.90	358.38	334.74	182.55	56.05	323.11	40.46	180.92	334.85
14742	-7.77	5.06	-6.90	60.09	17.98	388.08	39.52	355.22	329.15	178.91	56.10	335.85	38.79	178.46	329.31
14743	-7.64	6.16	-6.90	59.30	18.55	398.63	37.75	351.18	322.62	174.45	56.22	350.63	36.67	175.28	322.85
14744	-7.48	7.26	-6.90	58.58	19.63	410.40	35.63	346.20	315.45	169.21	56.37	367.07	34.16	171.34	315.77
14745	-9.09	3.96	-6.90	60.00	17.77	407.21	45.91	348.21	335.56	168.03	51.74	322.04	45.50	181.62	335.63
14746	-8.97	5.07	-6.90	59.57	18.22	415.08	44.39	345.11	329.82	164.92	51.96	334.85	43.73	178.84	329.93
14747	-8.81	6.17	-6.90	59.18	19.14	424.23	42.44	341.18	323.04	161.12	52.30	349.64	41.49	175.31	323.20
14748	-8.63	7.26	-6.90	58.91	20.64	434.35	40.07	336.40	315.53	156.66	52.75	365.93	38.81	171.04	315.74
14749	-10.30	3.96	-6.90	57.20	18.12	435.59	50.07	335.92	335.34	152.36	47.53	319.82	49.69	179.06	335.38
14750	-10.16	5.07	-6.90	57.37	18.89	442.17	48.48	332.91	329.49	149.89	47.85	332.60	47.88	176.05	329.56
14751	-9.99	6.17	-6.90	57.68	20.18	449.79	46.44	329.13	322.52	146.88	48.33	347.29	45.57	172.29	322.61
14752	-9.78	7.26	-6.90	58.16	22.10	458.12	43.93	324.60	314.72	143.35	48.96	363.35	42.80	167.82	314.84
14753	-11.51	3.96	-6.90	52.34	19.12	462.98	53.33	321.21	333.66	135.67	43.43	316.29	52.95	172.65	333.68
14754	-11.36	5.07	-6.90	53.52	20.23	468.09	51.72	318.39	327.77	134.04	43.78	328.89	51.12	169.59	327.80
14755	-11.16	6.17	-6.90	54.93	21.89	473.98	49.66	314.86	320.67	132.02	44.30	343.33	48.80	165.79	320.71
14756	-10.93	7.26	-6.90	56.56	24.17	480.35	47.12	310.67	312.68	129.63	45.01	358.99	46.03	161.32	312.73
14757	-12.73	3.96	-6.90	45.70	21.11	487.80	55.65	303.71	330.05	118.29	39.38	311.39	55.23	161.56	330.05
14758	-12.55	5.07	-6.90	48.41	22.52	491.25	54.06	301.28	324.18	117.74	39.71	323.60	53.40	158.74	324.18
14759	-12.34	6.17	-6.90	51.42	24.47	495.21	52.03	298.22	317.08	116.99	40.21	337.55	51.12	155.22	317.08
14760	-12.08	7.26	-6.90	54.59	27.00	499.42	49.55	294.57	309.05	116.01	40.90	352.59	48.41	151.09	309.04
14761	-13.94	3.96	-6.90	38.58	24.46	507.76	57.00	283.07	323.94	100.84	35.31	305.23	56.52	144.64	323.93
14762	-13.75	5.07	-6.90	43.29	26.05	509.43	55.45	281.33	318.19	101.60	35.59	316.75	54.71	142.52	318.18
14763	-13.51	6.17	-6.90	48.21	28.14	511.31	53.52	279.07	311.23	102.37	36.03	329.87	52.50	139.80	311.22
14764	-13.23	7.26	-6.90	53.08	30.73	513.22	51.17	276.30	303.36	103.04	36.70	343.98	49.91	136.53	303.35
14765	-15.15	3.96	-6.90	34.24	29.44	519.23	57.25	259.02	314.69	84.21	31.21	298.05	56.75	120.63	314.72
14766	-14.94	5.08	-6.90	40.60	31.03	519.17	55.78	258.36	309.18	86.39	31.45	308.44	55.00	119.92	309.24
14767	-14.69	6.18	-6.90	46.95	33.04	519.01	53.99	257.32	302.55	88.78	31.88	320.28	52.93	118.80	302.64
14768	-14.38	7.26	-6.90	53.01	35.49	518.67	51.86	255.83	295.10	91.16	32.56	333.00	50.55	117.21	295.23
14769	-16.36	3.96	-6.90	36.01	36.21	516.49	56.07	231.40	301.67	68.83	27.33	289.84	55.64	90.24	301.82
14770	-16.14	5.08	-6.90	42.22	37.55	515.11	54.74	232.18	296.58	72.32	27.66	298.50	54.09	91.90	296.84
14771	-15.86	6.18	-6.90	48.50	39.23	513.37	53.17	232.77	290.54	76.15	28.				



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
14799	-5.29	6.16	-8.30	78.70	27.99	371.64	33.48	381.91	332.31	289.34	75.92	364.11	31.99	201.52	332.65
14800	-5.18	7.25	-8.30	76.84	27.48	386.66	32.46	376.49	326.20	281.36	75.40	381.03	29.92	198.19	326.66
14801	-6.67	3.95	-8.30	86.78	29.11	371.59	42.72	384.59	345.96	287.00	70.31	337.53	42.17	213.12	346.07
14802	-6.58	5.06	-8.30	85.39	28.43	382.35	41.68	381.59	340.68	282.15	70.19	350.86	40.65	211.08	340.84
14803	-6.46	6.16	-8.30	83.71	27.78	394.83	40.35	377.57	334.56	276.16	70.17	366.27	38.59	208.22	334.80
14804	-6.33	7.26	-8.30	81.76	27.33	408.60	38.77	372.35	328.10	269.00	70.23	383.27	36.03	204.37	328.42
14805	-7.88	3.96	-8.30	90.67	28.98	399.25	49.54	378.91	348.35	272.03	63.81	338.75	48.91	218.40	348.42
14806	-7.77	5.06	-8.30	89.15	28.25	409.11	48.31	375.94	342.98	267.62	63.98	352.33	47.18	215.95	343.10
14807	-7.64	6.16	-8.30	87.36	27.58	420.50	46.67	372.01	336.65	262.21	64.34	367.96	44.86	212.64	336.81
14808	-7.48	7.26	-8.30	85.31	27.20	432.96	44.67	366.98	329.81	255.78	64.89	385.02	41.97	208.35	330.04
14809	-9.09	3.96	-8.30	92.66	28.76	428.63	55.40	371.89	350.25	256.28	57.51	339.28	54.73	220.92	350.30
14810	-8.97	5.07	-8.30	91.07	28.03	437.46	54.04	368.90	344.86	252.26	57.87	353.08	52.89	218.07	344.95
14811	-8.81	6.17	-8.30	89.22	27.38	447.67	52.21	365.00	338.34	247.35	58.52	368.89	50.43	214.34	338.47
14812	-8.63	7.26	-8.30	87.13	27.11	458.70	49.93	360.08	331.14	241.56	59.44	386.00	47.35	209.65	331.32
14813	-10.30	3.96	-8.30	92.25	28.39	458.73	60.09	363.30	351.32	239.54	51.49	338.90	59.40	220.20	351.37
14814	-10.16	5.07	-8.30	90.73	27.73	466.36	58.67	360.22	345.96	235.92	51.99	352.82	57.51	216.96	346.04
14815	-9.99	6.17	-8.30	88.95	27.20	475.18	56.75	356.27	339.32	231.51	52.79	368.71	55.00	212.84	339.43
14816	-9.78	7.26	-8.30	86.97	27.11	484.61	54.35	351.40	331.80	226.33	53.95	385.75	51.87	207.78	331.95
14817	-11.51	3.96	-8.30	88.92	27.90	488.42	63.46	352.78	351.12	221.55	45.83	337.33	62.76	215.56	351.17
14818	-11.36	5.07	-8.30	87.72	27.39	494.56	62.01	349.63	345.83	218.44	46.40	351.17	60.85	212.04	345.92
14819	-11.16	6.17	-8.30	86.32	27.08	501.67	60.11	345.63	339.14	214.63	47.27	366.95	58.38	207.60	339.26
14820	-10.93	7.26	-8.30	84.72	27.27	509.20	57.72	340.76	331.39	210.15	48.53	383.74	55.32	202.25	331.55
14821	-12.73	3.96	-8.30	82.19	27.41	516.19	65.41	339.82	349.16	201.96	40.58	334.22	64.70	206.03	349.23
14822	-12.55	5.07	-8.30	81.70	27.16	520.50	63.96	336.73	343.97	199.54	41.18	347.72	62.79	202.46	344.08
14823	-12.34	6.17	-8.30	81.09	27.19	525.50	62.14	332.78	337.31	196.54	42.06	363.08	60.42	197.96	337.46
14824	-12.08	7.26	-8.30	80.32	27.77	530.72	59.90	327.99	329.46	192.95	43.31	379.33	57.56	192.56	329.66
14825	-13.94	3.96	-8.30	71.85	27.26	539.85	65.85	323.53	344.95	180.25	35.88	329.11	65.15	190.19	345.05
14826	-13.75	5.07	-8.30	72.51	27.37	542.04	64.42	320.78	339.86	178.73	36.47	341.94	63.27	187.04	340.01
14827	-13.51	6.17	-8.30	73.21	27.84	544.56	62.72	317.20	333.29	176.80	37.34	356.52	61.06	182.99	333.50
14828	-13.23	7.26	-8.30	73.81	28.86	547.08	60.73	312.78	325.51	174.42	38.58	371.88	58.53	178.07	325.79
14829	-15.15	3.96	-8.30	58.40	28.05	556.02	64.65	302.48	338.03	155.67	32.10	321.28	64.00	166.36	338.19
14830	-14.94	5.08	-8.30	60.66	28.58	556.04	63.28	300.54	333.03	155.27	32.69	333.10	62.25	164.38	333.28
14831	-14.69	6.18	-8.30	63.12	29.50	555.97	61.76	297.86	326.62	154.70	33.57	346.52	60.31	161.65	326.98
14832	-14.38	7.26	-8.30	65.53	30.89	555.64	60.11	294.33	319.07	153.86	34.79	360.65	58.23	158.10	319.52
14833	-16.36	3.96	-8.30	43.99	30.48	559.72	61.50	274.61	328.07	127.36	30.00	309.73	61.05	133.76	328.32
14834	-16.14	5.08	-8.30	48.02	31.37	557.96	60.32	274.07	323.17	128.29	30.64	320.23	59.62	132.93	323.57
14835	-15.86	6.18	-8.30	52.32	32.61	555.76	59.09	273.02	317.01	129.35	31.57	332.18	58.14	133.68	317.57
14836	-15.53	7.26	-8.30	56.55	34.14	553.08	57.86	271.20	309.84	130.38	32.78	344.82	56.70	132.74	310.55
14837	-17.57	3.96	-8.30	33.39	35.12	544.62	56.05	237.66	314.82	95.08	30.39	293.63	55.97	95.51	315.18
14838	-17.33	5.08	-8.30	38.43	36.19	542.12	55.27	239.21	310.12	97.57	31.25	302.53	55.20	98.76	310.68
14839	-17.04	6.18	-8.30	43.69	37.49	539.03	54.53	240.63	304.32	100.50	32.31	312.79	54.49	102.00	305.10
14840	-16.68	7.26	-8.30	48.89	38.87	535.37	53.86	241.55	297.71	103.69	33.45	323.80	53.93	104.75	298.68
14841	-18.78	3.96	-8.30	31.53	42.12	504.16	48.03	190.73	298.27	60.87	33.30	274.21	48.53	65.98	298.64
14842	-18.53	5.08	-8.30	35.49	43.15	502.59	47.97	195.05	293.93	65.00	34.66	281.11	48.80	71.60	294.51
14843	-18.21	6.18	-8.30	39.86	44.25	500.61	48.01	199.75	288.69	69.84	36.02	289.28	49.23	77.45	289.48
14844	-17.83	7.26	-8.30	44.44	45.23	498.22	48.18	204.35	282.84	75.18	37.12	298.37	49.85	83.01	283.83
14845	-19.82	3.96	-2.70	135.36	105.78	223.61	184.71	169.03	142.54	361.28	88.62	295.83	184.23	266.15	146.21
14846	-19.56	5.08	-2.70	145.99	115.59	224.93	179.42	169.35	143.94	360.85	97.74	289.01	178.60	257.27	149.43
14847	-19.24	6.18	-2.70	157.45	126.54	226.60	173.04	169.55	145.92	360.02	108.06	281.00	171.77	246.53	153.12
14848	-18.86	7.26	-2.70	168.99	138.14	228.50	165.71	169.61	148.52	358.65	119.12	272.02	163.83	234.26	157.10
14849	-20.67	3.96	-2.70	67.74	111.39	61.76	107.18	56.45	64.79	204.07	21.05	76.81	105.80	118.84	66.55
14850	-20.42	5.08	-2.70	76.69	111.84	62.20	106.16	57.26	64.86	206.68	26.88	75.51	103.87	115.39	67.57
14851	-20.12	6.18	-2.70	86.31	112.49	62.78	104.98	58.21	65.04	209.75	32.77	74.04	101.56	111.26	68.75
14852	-19.75	7.26	-2.70	96.32	113.32	63.45	103.62	59.18	65.41	213.18	38.62	72.37	98.83	106.41	70.07
14853	-21.53	3.96	-2.70	45.39	114.54	31.83	62.83	17.38	43.25	106.95	25.03	42.58	60.08	59.35	43.41
14854	-21.29	5.08	-2.70	51.71	113.46	32.03	64.60	18.62	42.97	110.61	24.61	41.88	60.20	58.48	43.22
14855	-20.99	6.18	-2.70	58.76	112.19	32.30	66.61	20.03	42.63	115.07	24.07	41.66	60.31	57.44	42.98
14856	-20.64	7.26	-2.70	66.50	110.76	32.64	68.74	21.56	42.26	120.26	23.40	40.18	60.37	56.19	42.72
14857	-22.38	3.96	-2.70	28.78	115.19	17.74	36.21	13.23	33.04	46.09	42.64	28.42	30.23	26.13	33.10
14858	-22.15	5.07	-2.70	33.00	114.22	17.81	40.49	14.25	32.85	49.00	41.37	27.99	31.57	27.01	32.94
14859	-21.87	6.18	-2.70	37.96	112.99	17.90	45.13	15.40	32.60	52.68	39.81	27.46	33.18	28.02	32.70
14860	-21.53	7.26	-2.70	43.67	111.60	18.04	49.88	16.66	32.26	57.13	38.07	26.89	35.01	29.15	32.34
14861	-23.24	3.96	-2.70	11.17	115.41	12.09	22.54	10.50	25.28	10.59	53.15	13.62	11.11	7.47	27.36
14862	-23.02	5.07	-2.70	13.89	115.01	12.00	28.33	11.45	25.40	11.61	51.22	13.55	13.03	9.26	28.58
14863	-22.75	6.17	-2.70	17.35	114.47	11.91	34.25	12.58	25.53	13.11	49.12	13.46	15.20	11.33	29.89
14864	-22.42	7.26	-2.70	21.37	113.70	11.78	40.29	13.77	25.66	15.30	47.03	13.40	17.68	13.51	31.20
14865	-19.82	3.96	-4.10	41.52	83.49	277.80	77.49	132.86	174.93	73.38	15.68	283.93	76.99	173.36	176.56
14866	-19.56	5.08	-4.10	49.81	83.17	279.11	76.64	135.15	174.16	79.18	16.34	279.09	75.78	167.95	176.66
14867	-19.24	6.18	-4.10	58.39	82.84	280.77	75.53	137.70	173.43	85.71	17.38	273.59	74.20	161.43	176.84
14868	-18.86	7.26	-4.10	67.01	82.52	282.73	74.19	140.38	172.84	92.67	18.76	267.76	72.24	153.97	177.10
14869	-20.67	3.96	-4.10	43.63	90.89	184.35	72.79	103.57	144.02	108.50	7.74	207			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
14897	-22.38	3.96	-5.50	13.56	99.26	123.94	27.08	43.10	147.06	22.78	39.59	198.20	23.04	100.65	147.05
14898	-22.15	5.07	-5.50	16.27	98.30	124.80	31.41	47.95	146.16	23.19	40.70	194.52	25.63	101.55	146.14
14899	-21.87	6.18	-5.50	19.57	97.07	125.93	35.96	53.27	145.09	24.04	41.80	190.06	28.50	102.56	145.05
14900	-21.53	7.26	-5.50	23.47	95.65	127.36	40.59	58.91	143.82	25.49	42.88	184.92	31.50	103.67	143.75
14901	-23.24	3.96	-5.50	6.67	107.70	87.91	20.19	26.05	132.61	7.11	49.77	190.32	12.75	49.64	133.98
14902	-23.02	5.07	-5.50	8.85	107.06	87.55	25.44	31.86	132.02	7.39	51.16	186.83	15.85	54.03	134.17
14903	-22.75	6.17	-5.50	11.69	106.25	87.17	30.76	38.00	131.36	8.23	52.60	182.51	19.18	59.15	134.40
14904	-22.42	7.26	-5.50	15.03	105.22	86.82	36.12	44.07	130.65	9.93	54.00	177.46	22.72	64.52	134.62
14905	-19.82	3.96	-6.90	40.34	63.71	379.41	40.09	127.43	243.36	24.12	28.36	255.83	40.27	99.82	243.88
14906	-19.56	5.08	-6.90	43.28	63.46	380.07	40.71	133.00	240.46	29.96	30.05	256.75	41.03	98.78	241.27
14907	-19.24	6.18	-6.90	46.73	63.14	380.87	41.40	139.21	237.15	36.10	31.61	258.16	41.90	97.61	238.26
14908	-18.86	7.26	-6.90	50.59	62.76	381.80	42.12	145.67	233.63	42.43	32.89	260.23	42.84	96.35	235.03
14909	-20.67	3.96	-6.90	34.29	71.67	314.85	33.56	97.94	225.75	18.22	32.45	251.40	33.45	114.30	225.99
14910	-20.42	5.08	-6.90	36.95	71.21	316.12	35.16	104.01	223.20	22.76	34.60	249.90	35.04	113.14	223.57
14911	-20.12	6.18	-6.90	40.13	70.63	317.68	36.95	110.78	220.27	27.70	36.56	248.36	36.84	111.76	220.77
14912	-19.75	7.26	-6.90	43.79	69.92	319.52	38.82	117.90	217.17	33.03	38.11	247.02	38.77	110.18	217.79
14913	-21.53	3.96	-6.90	26.56	79.92	245.66	26.65	71.16	208.21	15.65	37.42	257.10	25.60	113.65	208.10
14914	-21.29	5.08	-6.90	28.98	79.40	247.31	29.43	77.68	206.04	18.24	40.07	253.39	27.96	113.67	205.86
14915	-20.99	6.18	-6.90	31.91	78.74	249.40	32.46	84.86	203.50	21.44	42.54	249.05	30.62	113.62	203.23
14916	-20.64	7.26	-6.90	35.36	77.93	251.89	35.55	92.40	200.75	25.25	44.53	244.32	33.42	113.51	200.37
14917	-22.38	3.96	-6.90	17.16	88.04	181.61	20.89	49.50	191.68	12.15	42.38	277.28	17.86	93.23	191.54
14918	-22.15	5.07	-6.90	19.36	87.59	183.05	24.88	56.60	189.95	13.31	45.48	271.94	20.86	95.56	189.74
14919	-21.87	6.18	-6.90	22.08	86.95	184.92	29.03	64.14	187.88	15.09	48.43	265.45	24.20	98.17	187.58
14920	-21.53	7.26	-6.90	25.32	86.12	187.24	33.21	71.94	185.46	17.58	50.96	257.95	27.69	101.02	185.05
14921	-23.24	3.96	-6.90	7.62	96.20	142.75	17.43	33.26	176.96	4.86	47.00	314.10	10.94	50.88	177.83
14922	-23.02	5.07	-6.90	9.55	95.83	142.77	22.14	41.10	175.58	5.57	50.51	307.88	14.25	57.09	176.97
14923	-22.75	6.17	-6.90	12.06	95.34	142.90	26.92	49.25	174.02	6.92	53.92	300.17	17.90	64.06	176.00
14924	-22.42	7.26	-6.90	15.03	94.64	143.22	31.72	57.16	172.28	9.04	56.92	291.12	21.83	71.13	174.89
14925	-19.82	3.96	-8.30	34.23	49.82	448.09	39.46	144.90	281.85	33.89	37.11	260.96	40.49	67.33	282.08
14926	-19.56	5.08	-8.30	36.65	50.72	448.01	40.22	151.56	277.85	38.99	39.21	265.10	41.84	71.29	278.20
14927	-19.24	6.18	-8.30	39.54	51.60	447.84	41.15	158.96	273.02	44.80	41.13	270.26	43.43	75.66	273.49
14928	-18.86	7.26	-8.30	42.84	52.22	447.54	42.23	166.60	267.72	51.18	42.45	276.34	45.22	80.10	268.30
14929	-20.67	3.96	-8.30	33.84	57.20	383.79	31.57	107.05	266.66	18.83	40.44	261.71	32.80	80.82	266.61
14930	-20.42	5.08	-8.30	35.64	58.00	384.80	33.10	115.01	262.89	23.63	43.35	262.39	35.00	83.34	262.81
14931	-20.12	6.18	-8.30	37.86	58.75	386.02	34.87	123.79	258.33	28.96	45.99	263.51	37.49	86.18	258.20
14932	-19.75	7.26	-8.30	40.50	59.20	387.40	36.78	132.91	253.31	34.83	47.84	265.19	40.17	89.13	253.11
14933	-21.53	3.96	-8.30	28.91	65.14	309.41	24.01	74.78	250.49	13.44	43.43	285.35	24.81	88.65	250.15
14934	-21.29	5.08	-8.30	30.54	65.80	311.37	26.51	83.92	247.13	16.29	47.17	282.09	27.77	91.43	246.58
14935	-20.99	6.18	-8.30	32.58	66.39	313.82	29.29	93.69	242.97	19.82	50.63	278.39	31.06	94.51	242.18
14936	-20.64	7.26	-8.30	35.05	66.67	316.75	32.18	103.72	238.28	24.04	53.19	274.47	34.50	97.73	237.23
14937	-22.38	3.96	-8.30	19.39	73.30	237.95	18.06	52.44	233.90	11.15	45.80	339.70	17.12	79.60	233.51
14938	-22.15	5.07	-8.30	21.06	73.85	240.06	21.63	62.40	231.10	12.29	50.29	333.03	20.58	84.37	230.48
14939	-21.87	6.18	-8.30	23.15	74.29	242.78	25.39	72.55	227.55	14.11	54.55	324.97	24.47	89.56	226.68
14940	-21.53	7.26	-8.30	25.70	74.37	246.16	29.24	82.72	223.28	16.70	57.92	315.68	28.50	95.00	222.16
14941	-23.24	3.96	-8.30	7.71	81.15	197.36	14.92	39.38	217.84	4.88	47.28	421.74	10.59	49.74	218.16
14942	-23.02	5.07	-8.30	9.32	81.57	197.88	19.11	49.33	215.56	5.59	52.37	412.86	14.22	58.26	216.10
14943	-22.75	6.17	-8.30	11.45	81.94	198.71	23.40	59.44	212.78	6.96	57.29	401.89	18.30	67.34	213.58
14944	-22.42	7.26	-8.30	14.02	82.02	199.97	27.75	69.04	209.51	9.14	61.39	389.03	22.70	76.18	210.62
14945	0.56	8.10	-2.70	34.72	13.78	269.88	8.24	316.43	253.89	59.18	21.89	325.22	25.70	67.29	255.57
14946	1.69	8.10	-2.70	35.05	13.87	273.89	9.99	314.94	250.97	69.76	20.36	321.83	29.21	60.54	252.80
14947	2.82	8.10	-2.70	36.08	14.79	281.42	11.96	311.78	247.84	83.11	19.06	316.86	33.37	53.16	249.78
14948	3.95	8.10	-2.70	37.88	16.50	291.98	13.90	306.95	244.53	99.01	18.11	310.25	38.12	45.92	246.48
14949	5.08	8.10	-2.70	40.51	18.86	304.95	15.68	300.46	241.05	117.18	17.67	302.12	43.40	40.56	242.90
14950	6.21	8.10	-2.70	44.00	21.79	319.62	17.28	292.35	237.40	137.24	17.97	292.98	49.15	40.09	239.00
14951	7.34	8.10	-2.70	48.31	25.25	335.24	18.69	282.71	233.59	158.65	19.20	284.02	55.26	47.01	234.72
14952	8.47	8.10	-2.70	53.31	29.25	351.07	19.96	271.70	229.60	180.64	21.55	277.75	61.52	60.65	230.02
14953	9.60	8.10	-2.70	58.80	33.88	366.37	21.17	259.58	225.43	202.19	25.16	278.49	67.62	78.41	224.85
14954	10.73	8.10	-2.70	64.50	39.33	380.37	22.40	246.66	221.01	222.11	30.18	292.10	73.07	97.05	219.30
14955	11.85	8.10	-2.70	70.00	45.90	392.27	23.75	233.27	216.23	239.63	36.85	323.44	77.29	112.16	213.81
14956	12.98	8.10	-2.70	74.98	53.94	401.06	25.39	219.56	210.79	255.94	45.53	371.67	79.87	118.12	209.88
14957	14.11	8.10	-2.70	79.63	64.15	405.32	27.87	205.39	203.88	277.60	57.05	426.59	81.52	111.51	211.29
14958	15.24	8.10	-2.70	85.23	78.12	402.96	33.14	190.94	193.53	320.17	74.27	468.67	87.65	106.84	224.25
14959	16.37	8.10	-2.70	95.08	99.00	391.80	44.25	177.64	175.07	410.84	103.91	476.66	112.28	147.47	242.10
14960	17.50	8.10	-2.70	112.94	123.56	358.24	64.04	165.39	130.16	569.17	171.35	429.05	157.76	237.98	197.61
14961	0.56	8.70	-2.70	35.86	14.61	280.08	9.21	313.06	249.36	59.93	21.61	334.46	26.93	67.74	251.12
14962	1.67	8.70	-2.70	35.82	14.75	283.83	10.79	311.55	246.58	69.52	20.18	331.37	30.50	61.50	248.49
14963	2.78	8.70	-2.70	36.43	15.75	290.83	12.62	308.41	243.60	81.75	19.03	326.77	34.76	54.62	245.58
14964	3.89	8.70	-2.70	37.77	17.53	300.64	14.46	303.62	240.43	96.43	18.29	320.60	39.65	47.65	242.40
14965	5.00	8.70	-2.70	39.89	19.97	312.71	16.21	297.20	237.11	113.31	18.13	312.95	45.16	41.79	238.94
14966	6.11	8.70	-2.70	42.82	22.97	326.39	17.84	289.18	233.65	132.03	18.71	304.19	51.27	39.30	235.18
14967	7.22	8.70	-2.70	46.53	26.49	340.99	19.38	279.64	230.06	152.16	20.21	295.25	57.90	42.73	231.08
14968	8.34	8.70	-2.70												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
14995	2.78	8.70	-4.10	27.65	7.52	316.07	9.67	328.09	260.21	22.66	29.93	342.31	18.24	63.30	263.08
14996	3.89	8.70	-4.10	27.70	9.72	327.23	11.89	323.85	257.41	17.12	27.86	336.48	20.76	54.89	260.45
14997	5.00	8.70	-4.10	28.60	12.48	341.03	13.76	318.01	254.41	13.46	25.47	329.78	23.39	47.51	257.51
14998	6.11	8.70	-4.10	30.49	15.63	356.76	15.23	310.51	251.20	13.64	22.74	322.77	26.02	42.86	254.16
14999	7.22	8.70	-4.10	33.45	19.12	373.64	16.29	301.33	247.75	16.79	19.71	316.57	28.53	42.95	250.32
15000	8.34	8.70	-4.10	37.53	22.98	390.83	17.00	290.47	244.01	20.18	16.56	313.01	30.81	48.41	245.86
15001	9.45	8.70	-4.10	42.71	27.26	407.42	17.45	277.97	239.91	22.08	14.01	314.75	32.69	57.62	240.67
15002	10.56	8.70	-4.10	48.98	32.07	422.42	17.80	263.90	235.34	21.94	13.98	324.63	34.00	67.97	234.65
15003	11.67	8.70	-4.10	56.36	37.61	434.68	18.32	248.35	230.08	20.79	18.59	344.18	34.80	76.68	227.95
15004	12.78	8.70	-4.10	64.73	44.02	442.74	19.35	231.41	223.83	21.93	28.20	371.52	35.46	81.74	221.27
15005	13.89	8.70	-4.10	73.86	51.55	444.63	21.17	213.37	215.92	26.62	42.60	399.98	37.71	83.76	216.09
15006	15.00	8.70	-4.10	83.30	60.80	437.20	23.95	194.72	205.19	31.58	65.08	418.07	45.21	89.09	213.43
15007	16.11	8.70	-4.10	91.18	71.98	414.96	28.17	177.08	189.58	37.38	98.84	409.15	59.85	112.64	209.23
15008	17.23	8.70	-4.10	94.46	83.76	373.32	35.38	160.79	165.55	49.94	144.30	353.16	72.95	169.14	192.68
15009	0.56	8.10	-5.50	29.00	7.08	314.96	4.69	353.49	285.64	123.14	52.53	355.04	4.06	96.87	288.13
15010	1.69	8.10	-5.50	27.46	6.43	319.95	8.08	352.75	283.56	124.03	52.06	351.14	8.19	87.13	286.47
15011	2.82	8.10	-5.50	26.67	6.44	329.29	11.44	350.69	281.36	124.85	51.17	346.47	11.96	77.06	284.69
15012	3.95	8.10	-5.50	26.81	7.21	342.49	14.46	347.24	279.02	126.16	49.78	341.19	15.33	67.19	282.72
15013	5.08	8.10	-5.50	27.99	8.68	358.88	17.00	342.30	276.51	128.66	47.78	335.69	18.23	58.23	280.48
15014	6.21	8.10	-5.50	30.36	10.73	377.66	18.99	335.73	273.80	133.21	45.05	330.74	20.62	51.18	277.83
15015	7.34	8.10	-5.50	34.15	13.29	397.93	20.37	327.40	270.80	140.87	41.41	327.67	22.54	47.24	274.62
15016	8.47	8.10	-5.50	39.60	16.34	418.69	21.13	317.16	267.41	152.83	36.67	328.37	24.09	47.12	270.63
15017	9.60	8.10	-5.50	46.99	19.92	438.83	21.32	304.89	263.48	170.31	30.58	335.01	25.48	50.31	265.65
15018	10.73	8.10	-5.50	56.54	24.12	457.03	21.08	290.48	258.81	194.43	22.77	349.20	27.00	55.36	259.52
15019	11.85	8.10	-5.50	68.29	29.09	471.75	20.71	273.83	253.10	225.67	12.65	370.51	28.94	61.11	252.30
15020	12.98	8.10	-5.50	82.05	34.94	480.99	20.62	254.94	245.96	263.67	2.71	395.13	31.38	67.69	244.36
15021	14.11	8.10	-5.50	97.18	41.92	482.03	21.32	233.88	236.78	306.77	18.37	415.16	33.45	77.20	236.33
15022	15.24	8.10	-5.50	112.32	50.20	471.17	23.24	211.13	224.68	351.82	41.97	418.71	34.61	93.36	228.35
15023	16.37	8.10	-5.50	125.50	59.72	444.32	26.67	187.64	208.75	396.01	71.43	391.08	36.45	121.03	219.90
15024	17.50	8.10	-5.50	135.42	70.19	399.43	31.16	165.32	188.51	435.74	104.84	322.09	41.24	168.53	213.18
15025	0.56	8.70	-5.50	29.22	6.84	326.73	4.45	349.44	281.74	118.79	50.75	366.14	3.82	97.49	284.36
15026	1.67	8.70	-5.50	27.58	6.31	331.41	7.53	348.68	279.77	119.46	50.01	362.50	7.60	88.42	282.82
15027	2.78	8.70	-5.50	26.68	6.69	340.16	10.63	346.60	277.63	120.01	48.90	358.11	11.13	79.02	281.09
15028	3.89	8.70	-5.50	26.68	7.92	352.53	13.40	343.15	275.34	120.92	47.29	353.10	14.25	69.74	279.15
15029	5.00	8.70	-5.50	27.67	9.80	367.92	15.72	338.22	272.87	122.81	45.09	347.79	16.92	61.14	276.92
15030	6.11	8.70	-5.50	29.80	12.19	385.59	17.51	331.69	270.18	126.46	42.20	342.79	19.12	54.01	274.28
15031	7.22	8.70	-5.50	33.24	15.01	404.67	18.73	323.42	267.22	132.78	38.45	339.15	20.87	49.30	271.08
15032	8.34	8.70	-5.50	38.24	18.24	424.22	19.36	313.28	263.90	142.77	33.65	338.38	22.30	47.80	267.13
15033	9.45	8.70	-5.50	45.03	21.92	443.14	19.45	301.17	260.09	157.47	27.53	342.28	23.64	49.49	262.26
15034	10.56	8.70	-5.50	53.78	26.11	460.18	19.14	287.02	255.63	177.78	19.94	352.32	25.30	53.53	256.31
15035	11.67	8.70	-5.50	64.57	30.99	473.83	18.72	270.78	250.25	204.43	10.27	368.51	27.60	59.08	249.33
15036	12.78	8.70	-5.50	77.16	36.62	482.19	18.64	252.47	243.67	237.17	5.12	388.21	30.92	66.13	241.80
15037	13.89	8.70	-5.50	90.97	43.23	482.67	19.39	232.28	235.37	274.89	19.61	405.15	34.82	76.13	234.47
15038	15.00	8.70	-5.50	104.76	51.01	471.49	21.52	210.23	224.68	316.13	41.14	408.59	38.22	93.48	227.78
15039	16.11	8.70	-5.50	116.25	59.69	444.87	25.83	187.29	210.75	357.54	67.13	385.03	44.05	121.34	221.59
15040	17.23	8.70	-5.50	124.91	68.84	401.62	32.60	164.13	193.02	397.15	92.85	325.51	55.95	165.88	218.90
15041	0.56	8.10	-6.90	38.17	16.58	335.48	9.12	368.73	300.92	222.52	72.43	368.87	16.48	120.36	303.44
15042	1.69	8.10	-6.90	37.59	16.24	340.75	12.34	368.42	299.29	229.24	73.23	365.29	22.12	110.18	302.33
15043	2.82	8.10	-6.90	38.42	15.93	350.66	16.17	367.13	297.68	236.74	73.55	361.35	28.09	100.05	301.26
15044	3.95	8.10	-6.90	40.49	15.70	364.76	19.95	364.75	296.05	245.63	73.27	357.24	34.11	90.46	300.13
15045	5.08	8.10	-6.90	43.53	15.60	382.39	23.35	361.14	294.36	256.68	72.28	353.34	40.08	81.90	298.86
15046	6.21	8.10	-6.90	47.35	15.71	402.79	26.22	356.10	292.57	270.84	70.44	350.34	45.93	74.92	297.30
15047	7.34	8.10	-6.90	51.94	16.18	425.03	28.44	349.38	290.58	289.20	67.57	349.31	51.70	70.12	295.24
15048	8.47	8.10	-6.90	57.60	17.15	448.05	29.95	340.72	288.24	313.03	63.47	351.62	57.47	68.10	292.42
15049	9.60	8.10	-6.90	64.78	18.79	470.60	30.74	329.87	285.38	343.68	57.93	358.71	63.43	69.47	288.59
15050	10.73	8.10	-6.90	74.06	21.25	491.24	30.91	316.61	281.72	382.68	50.66	371.39	69.74	74.87	283.50
15051	11.85	8.10	-6.90	85.93	24.69	508.24	30.67	300.73	276.97	431.40	41.21	388.96	76.63	85.04	277.15
15052	12.98	8.10	-6.90	100.72	29.11	519.56	30.35	281.98	270.74	491.27	29.89	408.38	84.48	100.25	269.82
15053	14.11	8.10	-6.90	118.51	34.57	522.64	30.43	259.94	262.54	563.62	18.59	423.37	92.97	120.24	262.10
15054	15.24	8.10	-6.90	139.14	41.05	514.47	31.50	234.23	251.85	648.51	20.94	424.07	102.49	143.74	254.93
15055	16.37	8.10	-6.90	162.73	48.43	492.12	34.19	205.02	238.21	745.06	42.34	397.98	114.03	168.59	250.29
15056	17.50	8.10	-6.90	190.09	56.97	453.36	38.28	174.79	221.31	849.28	73.36	338.03	125.00	194.96	253.16
15057	0.56	8.70	-6.90	37.43	16.30	347.57	9.28	364.43	297.81	215.54	70.25	380.43	16.62	120.77	300.45
15058	1.67	8.70	-6.90	36.78	15.95	352.54	12.02	364.11	296.27	221.60	70.64	377.05	22.13	111.26	299.44
15059	2.78	8.70	-6.90	37.49	15.76	361.88	15.45	362.81	294.69	228.29	70.60	373.30	27.94	101.81	298.39
15060	3.89	8.70	-6.90	39.40	15.74	375.17	18.87	360.43	293.06	236.17	69.96	369.37	33.82	92.86	297.26
15061	5.00	8.70	-6.90	42.23	15.94	391.84	21.97	356.84	291.35	245.94	68.63	365.54	39.67	84.86	295.95
15062	6.11	8.70	-6.90	45.76	16.46	411.13	24.58	351.83	289.52	258.44	66.48	362.39	45.47	78.30	294.32
15063	7.22	8.70	-6.90	49.98	17.41	432.18	26.59	345.17	287.47	274.63	63.37	360.75	51.26	73.72	292.19
15064	8.34	8.70	-6.90	55.12	18.87	453.95	27.94	336.61	285.10	295.61	59.11	361.73	57.17	71.71	289.32
15065	9.45	8.70	-6.90	61.60	20.95	475.21	28.66	325.91	282.23	322.54	53.48	366.50	63.43	72.87	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
15093	5.00	8.70	-8.30	66.91	26.04	411.80	30.90	372.36	307.97	369.31	94.11	381.92	67.83	117.34	312.69
15094	6.11	8.70	-8.30	72.99	25.78	432.26	34.72	369.46	307.30	388.47	93.11	380.23	77.78	113.66	312.37
15095	7.22	8.70	-8.30	78.99	25.58	454.91	37.94	365.18	306.59	411.75	91.09	379.96	87.96	112.83	311.73
15096	8.34	8.70	-8.30	84.82	25.53	478.72	40.44	359.13	305.71	440.21	87.89	381.86	98.38	115.57	310.50
15097	9.45	8.70	-8.30	90.71	25.73	502.40	42.16	350.91	304.44	475.00	83.29	386.68	109.16	122.67	308.38
15098	10.56	8.70	-8.30	97.18	26.29	524.40	43.09	340.22	302.49	517.50	77.34	394.73	120.63	134.91	305.03
15099	11.67	8.70	-8.30	105.03	27.50	542.93	43.40	326.81	299.49	569.76	69.36	405.47	133.01	153.46	300.33
15100	12.78	8.70	-8.30	115.22	29.40	556.17	43.43	310.42	295.09	634.05	59.62	417.26	147.51	178.68	294.65
15101	13.89	8.70	-8.30	128.83	31.98	562.28	43.68	290.43	288.81	713.43	49.12	426.84	165.09	208.95	288.78
15102	15.00	8.70	-8.30	147.63	35.63	559.28	44.94	265.32	280.14	813.42	37.47	428.42	185.61	243.18	284.28
15103	16.11	8.70	-8.30	173.33	40.27	545.12	48.61	234.71	268.89	936.57	32.47	414.36	212.45	273.29	284.33
15104	17.23	8.70	-8.30	208.88	46.18	517.04	56.02	198.04	254.82	1090.50	44.99	376.96	246.72	293.72	294.57
15105	18.52	8.10	-2.70	148.50	127.86	305.41	78.21	162.51	60.25	783.04	246.73	300.32	188.41	365.48	73.64
15106	19.42	8.10	-2.70	174.31	110.05	263.78	60.88	170.93	45.90	846.03	290.71	246.69	144.39	436.86	45.54
15107	20.33	8.10	-2.70	199.21	115.36	237.85	55.19	191.41	70.43	857.49	384.37	468.24	83.48	545.01	71.67
15108	21.23	8.10	-2.70	233.77	134.41	220.53	63.35	223.06	82.91	855.01	465.94	821.60	87.12	769.15	88.39
15109	22.14	8.10	-2.70	313.32	111.71	219.69	45.65	280.27	81.94	915.73	387.81	1282.40	120.69	1300.35	258.10
15110	18.24	8.70	-2.70	150.00	136.78	361.94	67.30	177.55	97.21	755.38	264.99	341.97	189.45	318.52	134.61
15111	19.16	8.70	-2.70	181.23	124.27	342.81	59.60	178.41	44.19	762.94	315.13	352.64	101.85	364.78	74.55
15112	20.07	8.70	-2.70	219.40	118.70	321.82	60.94	200.18	28.86	772.47	382.74	535.39	45.18	483.05	135.20
15113	20.99	8.70	-2.70	273.81	138.60	305.29	67.01	238.67	38.41	801.97	502.93	843.84	73.57	710.04	274.80
15114	21.91	8.70	-2.70	386.37	204.55	321.66	93.56	320.29	40.40	838.47	386.32	1238.36	105.67	1266.48	445.59
15115	18.52	8.10	-4.10	98.32	104.40	313.73	44.66	147.32	122.47	67.00	193.45	258.29	70.65	263.22	147.71
15116	19.42	8.10	-4.10	98.27	120.53	262.72	44.53	143.48	91.29	95.04	233.61	254.08	45.23	379.93	135.07
15117	20.33	8.10	-4.10	103.90	136.69	219.89	39.55	152.93	66.43	105.58	261.16	440.84	28.61	540.01	153.67
15118	21.23	8.10	-4.10	116.28	168.67	187.50	46.42	175.67	58.26	116.95	283.10	724.75	55.12	813.83	149.68
15119	22.14	8.10	-4.10	165.60	156.37	156.05	61.62	227.05	84.54	212.87	200.41	1008.73	79.89	1373.90	207.19
15120	18.24	8.70	-4.10	93.78	95.12	323.46	43.67	147.16	136.08	63.12	173.50	271.36	66.12	249.91	171.87
15121	19.16	8.70	-4.10	98.28	104.66	279.18	49.99	143.00	104.70	83.05	195.02	271.79	44.21	350.48	177.39
15122	20.07	8.70	-4.10	111.65	114.50	242.53	50.65	154.43	74.71	76.64	214.08	442.19	22.85	494.14	245.34
15123	20.99	8.70	-4.10	136.20	130.21	215.67	57.57	183.96	49.34	67.40	219.90	724.68	39.85	756.43	385.20
15124	21.91	8.70	-4.10	199.48	166.74	199.87	86.46	243.42	38.56	102.62	205.58	1053.92	65.98	1340.55	588.75
15125	18.52	8.10	-5.50	142.64	80.45	346.07	34.58	151.64	166.90	461.94	138.33	257.12	44.66	235.77	215.10
15126	19.42	8.10	-5.50	149.14	91.35	291.11	34.53	149.82	145.49	474.13	173.50	306.05	42.05	333.23	236.74
15127	20.33	8.10	-5.50	157.86	107.28	233.93	30.84	158.94	122.75	477.06	225.83	498.78	25.11	492.43	277.31
15128	21.23	8.10	-5.50	175.95	135.35	180.23	37.38	176.39	100.04	487.34	321.08	750.11	36.50	771.61	290.83
15129	22.14	8.10	-5.50	236.08	132.22	134.35	51.90	225.47	96.30	549.11	347.18	990.85	81.35	1353.40	107.24
15130	18.24	8.70	-5.50	132.51	77.49	350.71	39.73	147.82	173.61	431.32	116.84	265.35	71.86	225.00	228.41
15131	19.16	8.70	-5.50	141.98	86.69	298.59	44.58	143.33	153.41	461.77	139.79	296.68	86.56	312.28	265.59
15132	20.07	8.70	-5.50	159.01	98.11	245.17	46.91	153.14	131.27	500.24	169.68	472.42	94.35	453.35	348.30
15133	20.99	8.70	-5.50	193.73	116.47	192.38	50.80	176.59	107.25	578.70	228.09	730.75	90.95	707.33	483.46
15134	21.91	8.70	-5.50	280.23	155.65	142.81	79.35	232.35	77.94	799.13	389.02	1024.75	145.95	1303.34	655.82
15135	18.52	8.10	-6.90	219.21	66.41	403.96	41.39	154.10	203.37	944.69	111.69	288.72	127.12	223.40	268.65
15136	19.42	8.10	-6.90	248.98	77.94	345.94	40.41	150.61	184.74	1018.92	161.94	354.59	110.16	270.46	301.38
15137	20.33	8.10	-6.90	281.13	96.68	274.11	31.62	166.24	162.91	1075.04	245.72	578.23	58.04	376.53	348.97
15138	21.23	8.10	-6.90	314.34	135.18	190.84	24.44	192.01	134.29	1122.98	413.41	880.51	44.82	635.24	367.07
15139	22.14	8.10	-6.90	382.67	144.91	120.11	52.50	228.21	108.17	1277.86	481.15	1150.01	143.00	1235.86	117.01
15140	18.24	8.70	-6.90	198.02	64.78	405.95	50.34	151.31	205.56	870.78	91.47	293.03	178.57	229.45	274.21
15141	19.16	8.70	-6.90	228.91	73.42	351.31	57.16	141.66	188.05	963.29	123.37	333.98	193.31	272.95	317.03
15142	20.07	8.70	-6.90	270.26	85.91	284.36	61.25	151.57	168.10	1071.13	175.42	528.60	195.09	363.67	397.95
15143	20.99	8.70	-6.90	332.18	110.67	205.20	61.18	179.11	143.62	1239.97	286.35	828.49	176.88	587.97	528.08
15144	21.91	8.70	-6.90	467.42	180.29	117.98	97.87	233.85	101.68	1672.44	618.67	1194.77	296.30	1191.41	685.51
15145	18.52	8.10	-8.30	288.29	53.82	479.60	56.18	159.96	239.62	1408.24	84.62	329.34	212.82	277.50	313.72
15146	19.42	8.10	-8.30	350.08	66.63	424.74	58.87	138.73	222.66	1617.86	144.75	352.39	195.60	259.19	346.07
15147	20.33	8.10	-8.30	428.42	92.61	347.21	55.73	147.88	201.58	1844.28	262.22	579.85	136.32	263.53	389.17
15148	21.23	8.10	-8.30	518.94	154.14	237.59	46.72	194.97	168.78	2045.88	522.25	1016.43	45.40	399.30	405.51
15149	22.14	8.10	-8.30	631.54	194.23	110.55	25.94	258.07	115.84	2282.24	724.05	1483.37	96.18	932.45	150.18
15150	18.24	8.70	-8.30	253.81	52.80	477.23	66.51	162.66	239.56	1268.74	70.03	331.78	282.77	297.72	318.45
15151	19.16	8.70	-8.30	310.13	61.97	425.19	78.24	136.11	223.32	1473.69	108.47	339.72	312.26	292.30	359.24
15152	20.07	8.70	-8.30	389.01	79.35	353.50	91.24	132.05	203.82	1736.55	183.15	521.41	333.17	301.23	428.47
15153	20.99	8.70	-8.30	500.72	123.32	252.73	103.71	163.81	178.01	2083.21	361.52	926.20	338.89	424.82	540.45
15154	21.91	8.70	-8.30	694.46	243.00	119.40	164.88	224.56	123.15	2721.96	891.79	1490.39	551.69	993.43	689.89
15155	-17.50	8.10	-2.70	137.29	115.40	394.20	118.88	153.16	217.22	254.96	110.76	390.56	116.86	141.22	217.57
15156	-16.37	8.10	-2.70	101.79	85.38	421.60	84.47	151.93	242.16	192.04	83.91	341.59	82.85	107.11	240.57
15157	-15.24	8.10	-2.70	84.35	69.76	414.58	67.41	165.83	249.54	155.67	68.11	298.63	66.25	92.85	247.46
15158	-14.11	8.10	-2.70	73.74	59.74	408.83	56.11	182.76	254.57	130.42	58.53	282.02	55.57	82.51	252.48
15159	-12.98	8.10	-2.70	66.35	52.39	400.91	47.80	200.84	258.51	111.22	51.98	278.64	47.97	76.51	256.63
15160	-11.85	8.10	-2.70	60.61	46.43	390.65	41.27	218.86	261.54	95.74	47.13	282.36	42.16	74.39	259.97
15161	-10.73	8.10	-2.70	55.84	41.33	378.21	35.80	236.06	263.73	82.92	43.32	289.33	37.41	75.07	262.53
15162	-9.60	8.10	-2.70												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
15191	-12.98	8.10	-4.10	61.30	44.23	439.77	44.02	216.82	264.95	73.93	41.89	302.70	45.37	81.83	263.46
15192	-11.85	8.10	-4.10	56.09	38.87	429.07	39.30	236.59	270.36	61.99	41.40	309.18	41.24	87.66	269.17
15193	-10.73	8.10	-4.10	51.72	34.21	415.17	35.08	254.91	274.17	52.47	40.98	316.94	37.49	93.54	273.32
15194	-9.60	8.10	-4.10	48.05	30.11	399.04	31.11	271.43	276.73	45.96	40.61	324.46	33.89	98.69	276.22
15195	-8.47	8.10	-4.10	44.95	26.42	381.58	27.23	286.00	278.25	42.56	40.24	331.01	30.33	102.64	278.07
15196	-7.34	8.10	-4.10	42.30	23.04	363.67	23.35	298.57	278.94	41.73	39.85	336.31	26.78	105.12	279.07
15197	-6.21	8.10	-4.10	39.94	19.92	346.16	19.45	309.16	278.94	42.35	39.41	340.30	23.27	105.98	279.35
15198	-5.08	8.10	-4.10	37.76	17.02	329.91	15.55	317.84	278.35	43.32	38.91	343.06	19.90	105.18	279.06
15199	-3.95	8.10	-4.10	35.68	14.29	315.72	11.67	324.70	277.29	43.82	38.31	344.66	16.83	102.77	278.28
15200	-2.82	8.10	-4.10	33.65	11.74	304.35	7.89	329.85	275.83	43.34	37.61	345.16	14.34	98.83	277.12
15201	-1.69	8.10	-4.10	31.71	9.40	296.45	4.45	333.36	274.03	41.60	36.78	344.61	12.78	93.45	275.62
15202	-0.56	8.10	-4.10	29.95	7.38	292.51	2.57	335.29	271.93	38.49	35.79	343.02	12.50	86.77	273.83
15203	-17.23	8.70	-4.10	93.21	80.20	375.04	70.89	157.29	199.67	116.62	34.85	308.59	70.86	108.40	201.85
15204	-16.11	8.70	-4.10	88.91	70.44	430.93	63.23	164.02	225.22	115.19	41.19	320.06	63.10	81.13	224.60
15205	-15.00	8.70	-4.10	79.77	60.13	446.56	54.76	178.56	241.90	104.50	42.28	310.42	54.81	76.96	240.24
15206	-13.89	8.70	-4.10	71.91	52.07	447.05	47.77	197.62	252.51	90.93	42.06	306.79	48.53	79.08	250.66
15207	-12.78	8.70	-4.10	65.42	45.67	441.28	42.30	217.22	259.83	77.64	41.64	310.31	43.83	83.10	258.14
15208	-11.67	8.70	-4.10	59.97	40.24	431.28	37.66	236.17	265.04	65.89	41.15	317.32	39.86	88.11	263.67
15209	-10.56	8.70	-4.10	55.36	35.50	418.25	33.54	253.78	268.78	56.39	40.74	325.38	36.28	93.27	267.79
15210	-9.45	8.70	-4.10	51.35	31.33	403.10	29.66	268.69	271.32	49.50	40.34	333.11	32.85	97.84	270.71
15211	-8.34	8.70	-4.10	47.91	27.53	386.69	25.87	283.78	272.89	45.42	39.90	339.84	29.45	101.41	272.65
15212	-7.22	8.70	-4.10	44.93	24.05	369.88	22.13	295.96	273.66	43.68	39.43	345.30	26.08	103.68	273.77
15213	-6.11	8.70	-4.10	42.26	20.81	353.48	18.39	306.24	273.76	43.41	38.89	349.46	22.80	104.49	274.20
15214	-5.00	8.70	-4.10	39.79	17.77	338.29	14.68	314.67	273.31	43.65	38.27	352.38	19.69	103.78	274.07
15215	-3.89	8.70	-4.10	37.45	14.91	325.07	11.03	321.34	272.38	43.62	37.53	354.13	16.92	101.58	273.45
15216	-2.78	8.70	-4.10	35.20	12.23	314.51	7.53	326.33	271.06	42.81	36.67	354.79	14.73	97.96	272.45
15217	-1.67	8.70	-4.10	33.05	9.75	307.20	4.44	329.72	269.41	40.93	35.68	354.40	13.42	93.00	271.12
15218	-0.56	8.70	-4.10	31.05	7.67	303.57	3.09	331.58	267.41	37.87	34.59	353.03	13.27	86.70	269.43
15219	-17.50	8.10	-5.50	68.46	64.32	395.54	52.64	163.22	221.31	63.24	17.10	282.97	52.48	94.25	223.56
15220	-16.37	8.10	-5.50	72.13	57.57	448.47	51.85	183.47	241.34	67.53	21.55	302.93	51.76	75.09	242.17
15221	-15.24	8.10	-5.50	68.34	50.33	475.38	49.76	202.02	257.39	66.12	27.58	312.95	49.43	77.56	257.15
15222	-14.11	8.10	-5.50	62.37	43.66	482.63	46.88	221.96	269.38	62.53	32.61	320.35	46.82	90.22	268.71
15223	-12.98	8.10	-5.50	57.11	37.96	478.43	43.95	242.20	278.02	60.53	36.44	328.58	44.36	103.08	277.33
15224	-11.85	8.10	-5.50	53.11	33.13	467.34	41.00	261.45	284.19	61.96	39.45	337.10	41.81	113.90	283.64
15225	-10.73	8.10	-5.50	50.28	28.97	451.81	37.90	279.07	288.50	66.91	41.97	344.88	38.96	122.45	288.15
15226	-9.60	8.10	-5.50	48.23	25.40	433.47	34.58	294.74	291.35	74.25	44.12	351.32	35.73	126.67	291.22
15227	-8.47	8.10	-5.50	46.60	22.29	413.62	30.98	308.36	293.04	82.68	45.96	356.24	32.10	132.60	293.13
15228	-7.34	8.10	-5.50	45.05	19.54	393.36	27.11	319.93	293.81	91.18	47.55	359.68	28.11	134.30	294.12
15229	-6.21	8.10	-5.50	43.34	17.10	373.72	23.02	329.53	293.85	99.09	48.93	361.81	23.81	133.89	294.40
15230	-5.08	8.10	-5.50	41.33	14.90	355.64	18.74	337.30	293.34	106.01	50.10	362.81	19.28	131.50	294.13
15231	-3.95	8.10	-5.50	38.99	12.91	339.98	14.37	343.40	292.38	111.73	51.06	362.85	14.59	127.33	293.44
15232	-2.82	8.10	-5.50	36.39	11.10	327.50	10.01	347.98	291.07	116.23	51.80	362.04	9.83	121.57	292.44
15233	-1.69	8.10	-5.50	33.70	9.47	318.88	5.90	351.14	289.48	119.53	52.32	360.45	5.12	114.38	291.19
15234	-0.56	8.10	-5.50	31.15	8.12	314.61	3.13	352.96	287.64	121.76	52.60	358.13	0.82	106.01	289.72
15235	-17.23	8.70	-5.50	71.83	64.27	395.58	51.64	165.46	219.39	67.38	17.12	283.85	51.43	93.12	221.86
15236	-16.11	8.70	-5.50	75.60	58.36	447.56	50.18	185.17	238.26	71.71	21.24	305.95	50.10	76.33	239.20
15237	-15.00	8.70	-5.50	72.17	51.58	474.80	47.87	202.97	253.33	70.31	27.14	318.40	47.59	78.78	253.09
15238	-13.89	8.70	-5.50	66.34	45.11	482.86	44.88	222.14	264.69	66.50	32.27	327.49	44.93	90.60	263.97
15239	-12.78	8.70	-5.50	60.89	39.52	479.61	42.00	241.47	272.97	63.82	36.17	336.70	42.60	102.42	272.20
15240	-11.67	8.70	-5.50	56.55	34.72	469.59	39.06	260.00	278.96	64.23	39.27	345.78	40.11	112.54	278.32
15241	-10.56	8.70	-5.50	53.25	30.52	455.21	36.04	277.04	283.24	67.96	41.86	353.94	37.37	120.64	282.83
15242	-9.45	8.70	-5.50	50.62	26.88	438.03	32.82	292.24	286.15	74.12	44.01	360.68	34.27	126.55	285.98
15243	-8.34	8.70	-5.50	48.48	23.63	419.35	29.34	305.49	287.94	81.58	45.78	365.84	30.76	130.35	288.03
15244	-7.22	8.70	-5.50	46.49	20.71	400.27	25.63	316.77	288.87	89.32	47.26	369.50	26.91	132.07	289.20
15245	-6.11	8.70	-5.50	44.43	18.06	381.78	21.72	326.14	289.09	96.61	48.49	371.82	22.79	131.78	289.69
15246	-5.00	8.70	-5.50	42.15	15.63	364.78	17.68	333.73	288.75	103.04	49.47	373.01	18.47	129.63	289.62
15247	-3.89	8.70	-5.50	39.61	13.40	350.09	13.56	339.68	287.97	108.38	50.21	373.21	14.01	125.81	289.13
15248	-2.78	8.70	-5.50	36.86	11.34	338.41	9.47	344.13	286.82	112.56	50.72	372.56	9.48	120.49	288.31
15249	-1.67	8.70	-5.50	34.04	9.45	330.37	5.63	347.20	285.39	115.63	50.99	371.13	4.99	113.83	287.25
15250	-0.56	8.70	-5.50	31.31	7.92	326.38	3.04	348.95	283.64	117.65	51.05	369.00	1.09	105.81	285.88
15251	-17.50	8.10	-6.90	58.44	55.58	438.94	45.57	179.70	247.82	59.44	29.53	284.69	46.29	80.52	249.56
15252	-16.37	8.10	-6.90	60.08	48.97	484.01	48.18	208.37	264.56	72.09	28.25	308.35	47.95	79.33	265.80
15253	-15.24	8.10	-6.90	59.17	43.09	509.56	49.72	232.88	278.25	83.03	29.90	327.93	48.62	95.13	278.85
15254	-14.11	8.10	-6.90	57.54	37.73	518.35	49.91	254.43	288.92	92.97	33.36	343.36	48.48	115.77	289.09
15255	-12.98	8.10	-6.90	56.82	33.12	514.74	49.03	273.89	296.80	103.50	37.45	355.48	47.64	133.78	296.81
15256	-11.85	8.10	-6.90	57.16	29.37	502.83	47.30	291.44	302.36	115.12	41.63	364.89	46.02	147.58	302.35
15257	-10.73	8.10	-6.90	58.02	26.38	485.57	44.82	307.05	306.06	127.57	45.70	371.86	43.59	157.51	306.11
15258	-9.60	8.10	-6.90	58.75	24.04	465.01	41.69	320.64	308.29	140.32	49.55	376.62	40.39	163.96	308.43
15259	-8.47	8.10	-6.90	58.88	22.24	442.81	37.98	332.18	309.38	152.83	53.15	379.50	36.48	167.29	309.63
15260	-7.34	8.10	-6.90	58.15	20.84	420.34	33.76	341.76	309.61	164.67	56.50	380.85	31.98	167.83	309.99
15261	-6.21	8.10	-6.90	56.44	19.76	398.76	29.17	349.53	309.21	175.58	59.60	381.03	27.04	165.90	309.75
15262															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
15289	-10.73	8.10	-8.30	83.38	27.96	515.13	55.54	336.44	325.07	206.23	49.79	397.19	52.58	197.56	325.27
15290	-9.60	8.10	-8.30	85.33	27.53	492.17	52.18	347.01	325.79	221.82	55.09	399.53	49.06	203.25	325.99
15291	-8.47	8.10	-8.30	85.38	27.32	467.68	47.91	355.57	325.51	236.48	60.32	399.97	44.60	205.36	325.74
15292	-7.34	8.10	-8.30	83.57	27.23	443.24	42.93	362.31	324.58	250.11	65.41	399.10	39.40	204.34	324.87
15293	-6.21	8.10	-8.30	80.06	27.22	420.11	37.44	367.50	323.25	262.69	70.30	397.42	33.76	200.71	323.65
15294	-5.08	8.10	-8.30	75.20	27.25	399.31	31.64	371.45	321.70	274.31	74.95	395.24	28.09	194.96	322.26
15295	-3.95	8.10	-8.30	69.51	27.30	381.64	25.77	374.45	320.04	285.19	79.33	392.78	23.08	187.56	320.82
15296	-2.82	8.10	-8.30	63.64	27.34	367.80	20.20	376.71	318.36	295.60	83.39	390.15	20.00	178.90	319.43
15297	-1.69	8.10	-8.30	58.38	27.37	358.33	15.63	378.36	316.73	305.81	87.10	387.42	20.41	169.26	318.16
15298	-0.56	8.10	-8.30	54.64	27.38	353.65	13.32	379.47	315.19	316.12	90.41	384.58	24.52	159.02	317.04
15299	-17.23	8.70	-8.30	50.76	46.36	494.60	48.51	209.60	274.81	82.85	38.20	311.83	50.91	89.32	276.00
15300	-16.11	8.70	-8.30	55.48	40.88	529.91	52.98	241.47	288.46	107.98	35.12	339.27	53.34	107.08	289.64
15301	-15.00	8.70	-8.30	61.71	36.70	548.97	55.99	267.31	299.63	131.34	34.88	362.13	54.69	130.10	300.50
15302	-13.89	8.70	-8.30	68.42	33.58	554.72	57.44	288.50	308.26	152.24	37.12	379.80	55.10	152.41	308.82
15303	-12.78	8.70	-8.30	74.30	31.30	549.99	57.49	305.75	314.35	170.52	40.93	392.71	54.62	170.44	314.73
15304	-11.67	8.70	-8.30	79.02	29.79	537.37	56.18	320.42	318.34	187.25	45.67	401.53	53.01	184.18	318.61
15305	-10.56	8.70	-8.30	82.37	28.79	519.21	53.79	332.98	320.69	203.15	50.79	406.95	50.41	193.85	320.91
15306	-9.45	8.70	-8.30	84.08	28.16	497.56	50.47	343.43	321.70	218.27	55.95	409.66	46.87	199.60	321.93
15307	-8.34	8.70	-8.30	84.05	27.75	474.29	46.34	351.84	321.74	232.48	60.95	410.37	42.47	201.84	322.01
15308	-7.22	8.70	-8.30	82.22	27.49	450.98	41.60	358.41	321.15	245.62	65.73	409.72	37.44	201.02	321.49
15309	-6.11	8.70	-8.30	78.74	27.32	428.90	36.43	363.43	320.13	257.66	70.26	408.18	32.06	197.64	320.59
15310	-5.00	8.70	-8.30	73.93	27.20	409.04	31.03	367.23	318.85	268.72	74.52	406.11	26.75	192.24	319.48
15311	-3.89	8.70	-8.30	68.31	27.13	392.19	25.61	370.10	317.42	279.00	78.49	403.73	22.27	185.27	318.27
15312	-2.78	8.70	-8.30	62.49	27.06	378.99	20.54	372.27	315.91	288.77	82.14	401.16	19.85	177.11	317.07
15313	-1.67	8.70	-8.30	57.24	26.98	369.99	16.44	373.87	314.40	298.31	85.41	398.52	20.80	168.01	315.96
15314	-0.56	8.70	-8.30	53.39	26.93	365.55	14.32	374.93	312.89	307.77	88.29	395.84	25.18	157.88	314.86
15315	-22.14	8.10	-2.70	25.10	113.22	11.76	44.71	14.80	25.42	17.42	45.57	13.35	19.60	15.37	31.86
15316	-21.23	8.10	-2.70	48.78	110.63	18.23	53.44	17.74	31.86	61.15	36.34	26.46	36.46	30.15	31.92
15317	-20.33	8.10	-2.70	73.02	109.69	33.01	70.36	22.82	41.86	124.88	22.48	39.56	60.26	55.15	42.37
15318	-19.42	8.10	-2.70	104.36	114.21	64.12	102.28	59.97	65.62	216.16	42.99	71.14	96.23	102.29	70.88
15319	-18.52	8.10	-2.70	177.95	147.55	230.27	159.19	169.43	150.58	357.21	128.16	264.78	156.68	223.72	159.94
15320	-21.91	8.70	-2.70	28.79	112.95	11.80	47.84	15.80	25.28	19.37	44.66	13.20	21.21	17.13	32.33
15321	-20.99	8.70	-2.70	52.88	109.47	18.34	56.21	18.54	31.68	64.50	34.91	26.06	37.79	30.85	31.71
15322	-20.07	8.70	-2.70	77.89	108.65	33.25	71.69	23.74	41.61	128.56	21.91	39.00	60.32	54.32	42.16
15323	-19.16	8.70	-2.70	110.19	114.74	64.88	101.43	60.64	65.97	218.40	46.23	70.46	94.40	99.18	71.59
15324	-18.24	8.70	-2.70	183.93	154.38	231.59	154.10	168.77	152.63	355.30	134.78	259.19	151.03	214.98	162.32
15325	-22.14	8.10	-4.10	19.24	110.36	41.56	43.60	32.32	80.22	15.38	49.91	70.89	25.60	49.56	86.78
15326	-21.23	8.10	-4.10	31.06	101.37	67.17	52.79	41.37	92.55	49.68	33.32	97.72	39.22	83.51	92.60
15327	-20.33	8.10	-4.10	46.86	92.38	112.30	65.65	65.91	112.19	86.53	13.97	127.07	55.65	120.40	113.32
15328	-19.42	8.10	-4.10	64.43	84.97	189.87	77.35	112.43	142.79	113.01	12.02	191.49	70.47	157.64	147.94
15329	-18.52	8.10	-4.10	73.79	82.38	284.44	73.02	142.42	172.32	98.31	19.84	263.15	70.44	147.55	177.22
15330	-21.91	8.70	-4.10	22.56	109.81	41.28	46.61	35.16	79.90	16.73	50.15	69.63	27.19	52.67	87.11
15331	-20.99	8.70	-4.10	34.17	99.98	67.63	55.61	43.74	92.36	50.61	32.63	96.04	40.70	83.99	92.36
15332	-20.07	8.70	-4.10	50.00	90.73	113.22	67.78	67.86	111.95	87.23	12.66	125.30	56.56	118.22	113.21
15333	-19.16	8.70	-4.10	68.07	83.85	191.04	78.15	113.73	142.93	114.03	13.22	188.82	70.29	152.61	148.54
15334	-18.24	8.70	-4.10	78.68	82.13	285.65	72.13	143.82	172.25	102.65	20.75	259.63	69.01	142.43	177.56
15335	-22.14	8.10	-5.50	18.10	104.32	86.58	40.10	48.95	129.34	11.72	55.28	172.95	25.34	69.04	134.04
15336	-21.23	8.10	-5.50	27.03	94.61	128.62	44.08	63.53	142.69	27.05	43.72	180.54	33.78	104.66	142.59
15337	-20.33	8.10	-5.50	37.00	85.06	190.97	48.62	86.66	160.12	40.57	32.27	198.74	41.84	126.34	160.49
15338	-19.42	8.10	-5.50	48.91	77.63	260.09	50.89	113.39	179.44	48.26	23.73	225.40	47.09	128.93	181.51
15339	-18.52	8.10	-5.50	59.81	70.63	328.94	53.14	139.37	199.79	57.33	17.26	255.19	51.66	117.13	202.68
15340	-21.91	8.70	-5.50	21.14	103.71	86.44	42.96	53.15	128.43	13.53	56.12	169.37	27.26	72.94	133.61
15341	-20.99	8.70	-5.50	29.99	93.55	129.68	46.67	66.90	142.16	28.61	44.00	177.26	35.59	105.30	142.01
15342	-20.07	8.70	-5.50	40.18	83.83	192.36	50.58	89.65	159.36	42.56	32.39	196.08	43.17	124.64	159.75
15343	-19.16	8.70	-5.50	52.35	76.58	261.40	51.90	116.20	178.54	51.42	23.80	223.67	47.69	126.01	180.81
15344	-18.24	8.70	-5.50	63.40	69.95	329.99	53.06	142.08	198.63	61.17	17.32	254.57	51.39	114.06	201.78
15345	-22.14	8.10	-6.90	17.74	93.87	143.68	35.34	63.46	169.95	11.09	58.98	283.13	24.80	76.93	173.05
15346	-21.23	8.10	-6.90	28.29	85.57	189.35	36.39	78.24	183.40	20.00	52.59	251.61	30.38	103.45	182.89
15347	-20.33	8.10	-6.90	38.44	77.32	254.10	37.95	98.39	198.57	28.68	45.75	240.59	35.65	113.41	198.08
15348	-19.42	8.10	-6.90	46.97	69.42	321.14	40.27	123.52	214.66	37.46	39.09	246.33	40.31	108.89	215.36
15349	-18.52	8.10	-6.90	53.89	62.55	382.63	42.64	150.72	230.79	47.49	33.78	262.45	43.57	95.37	232.40
15350	-21.91	8.70	-6.90	20.37	93.33	144.14	37.98	68.87	168.32	13.11	60.23	276.80	26.98	81.89	171.75
15351	-20.99	8.70	-6.90	30.76	84.97	191.07	38.67	82.77	182.28	22.18	53.37	246.84	32.47	105.13	181.67
15352	-20.07	8.70	-6.90	40.88	76.68	255.87	39.69	102.67	197.08	31.45	46.36	237.96	37.35	113.18	196.51
15353	-19.16	8.70	-6.90	49.43	68.92	322.42	41.32	127.51	212.95	40.81	39.60	246.11	41.45	107.81	213.70
15354	-18.24	8.70	-6.90	56.37	62.30	383.28	42.97	154.28	228.80	51.19	34.30	264.44	44.07	94.51	230.54
15355	-22.14	8.10	-8.30	16.36	81.62	201.38	31.09	76.59	205.76	11.24	63.86	377.64	26.01	83.23	207.16
15356	-21.23	8.10	-8.30	28.03	74.38	249.26	32.19	90.78	219.76	19.26	59.79	307.79	31.56	99.44	218.43
15357	-20.33	8.10	-8.30	37.32	66.77	319.34	34.42	111.55	234.62	27.87	54.44	271.51	37.24	100.29	233.34
15358	-19.42	8.10	-8.30	42.89	59.41	388.59	38.31	140.01	249.35	39.76	48.68	267.05	42.36	91.47	249.07
15359	-18.52	8.10	-8.30	45.72	52.61	447.26	43.13	172.46	263.52	56.48	43.08	281.77	46.73	83.49	264.

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
15387	4.16	11.50	-8.30	55.09	27.29	460.23	23.33	346.49	297.57	290.61	74.20	449.49	62.99	125.22	300.89
15388	5.32	11.40	-8.30	60.41	28.04	473.20	26.60	344.84	297.02	303.35	72.06	443.26	72.83	122.11	300.55
15389	6.47	11.28	-8.30	65.65	29.01	488.12	29.54	342.09	296.42	319.39	69.21	436.76	83.02	121.15	299.95
15390	7.60	11.15	-8.30	70.50	30.13	504.13	32.03	337.89	295.66	339.68	65.66	430.46	93.67	122.81	298.90
15391	8.72	10.99	-8.30	74.99	31.39	520.13	34.06	331.86	294.62	365.28	61.40	424.96	104.95	127.59	297.22
15392	9.83	10.82	-8.30	79.55	32.74	534.80	35.65	323.70	293.15	397.32	56.47	420.82	117.16	136.16	294.75
15393	10.92	10.63	-8.30	84.83	34.17	546.72	36.94	313.35	291.07	437.18	50.95	418.35	130.80	149.27	291.48
15394	0.63	13.48	-8.30	45.59	30.38	490.66	11.42	328.26	287.12	229.17	70.04	513.81	37.40	137.71	288.56
15395	1.88	13.42	-8.30	46.07	30.88	492.79	13.69	328.40	286.80	234.77	68.91	509.07	46.05	132.11	288.41
15396	3.11	13.32	-8.30	48.65	31.77	497.41	16.77	328.02	286.66	241.42	67.08	502.53	54.97	127.42	288.39
15397	4.33	13.19	-8.30	52.55	32.98	504.16	20.02	326.99	286.67	249.73	64.58	494.23	64.09	124.07	288.46
15398	5.53	13.03	-8.30	56.94	34.40	512.57	23.12	325.16	286.76	260.44	61.45	484.36	73.48	122.45	288.46
15399	6.70	12.83	-8.30	61.21	35.93	522.03	25.91	322.26	286.79	274.44	57.73	473.22	83.29	122.98	288.26
15400	7.86	12.61	-8.30	65.11	37.44	531.81	28.30	317.97	286.62	292.72	53.50	461.30	93.76	126.03	287.66
15401	8.99	12.35	-8.30	68.74	38.83	540.99	30.29	311.95	286.08	316.40	48.90	449.29	105.20	132.08	286.50
15402	10.11	12.06	-8.30	72.53	40.02	548.49	31.97	303.98	284.97	346.74	44.15	437.96	118.05	141.75	284.67
15403	11.19	11.74	-8.30	77.16	41.02	553.28	33.58	294.12	283.17	385.26	39.62	427.96	132.95	156.07	282.25
15404	0.65	15.28	-8.30	51.20	39.32	536.21	7.35	308.48	267.76	193.72	66.71	557.71	37.66	130.73	268.28
15405	1.95	15.20	-8.30	50.80	40.08	537.02	10.00	308.34	267.90	197.61	64.98	552.60	45.79	126.41	268.35
15406	3.22	15.07	-8.30	51.83	41.25	538.90	13.18	307.57	268.43	202.44	62.57	544.59	53.99	122.99	268.76
15407	4.47	14.90	-8.30	53.85	42.71	541.56	16.39	306.11	269.29	208.77	59.57	533.72	62.29	120.89	269.43
15408	5.71	14.67	-8.30	56.33	44.26	544.69	19.45	303.83	270.40	217.32	56.04	520.19	70.81	120.55	270.25
15409	6.91	14.40	-8.30	58.82	45.73	547.88	22.25	300.57	271.58	228.92	52.11	504.35	79.81	122.36	271.10
15410	8.09	14.08	-8.30	61.15	46.95	550.66	24.70	296.06	272.66	244.56	47.95	486.74	89.63	126.69	271.80
15411	9.24	13.72	-8.30	63.40	47.82	552.47	26.78	290.05	273.36	265.39	43.84	468.16	100.77	133.94	272.16
15412	10.36	13.31	-8.30	65.99	48.25	552.70	28.60	282.41	273.43	292.79	40.25	449.65	113.81	144.71	272.06
15413	11.45	12.86	-8.30	69.52	48.34	550.79	30.42	273.25	272.61	328.52	37.91	432.31	129.46	159.85	271.53
15414	0.67	17.07	-8.30	65.73	48.95	558.91	4.70	287.85	239.08	161.92	65.30	578.25	34.84	121.15	239.07
15415	1.99	16.99	-8.30	64.31	49.79	558.73	7.88	287.35	239.63	164.34	63.54	573.39	41.97	118.10	239.50
15416	3.30	16.84	-8.30	63.35	51.00	558.32	11.16	286.10	240.87	167.50	61.30	564.84	49.11	115.94	240.55
15417	4.59	16.62	-8.30	62.71	52.38	557.53	14.33	284.07	242.75	171.90	58.66	552.67	56.32	115.14	242.18
15418	5.85	16.34	-8.30	62.26	53.75	556.23	17.31	281.24	245.18	178.14	55.73	537.11	63.78	116.16	244.33
15419	7.09	15.99	-8.30	61.85	54.92	554.25	20.04	277.51	248.02	186.99	52.66	518.52	71.76	119.38	246.91
15420	8.29	15.58	-8.30	61.47	55.71	551.43	22.42	272.74	251.03	199.37	49.66	497.46	80.69	125.13	249.77
15421	9.46	15.11	-8.30	61.29	55.99	547.59	24.42	266.80	253.91	216.46	47.03	474.74	91.17	133.71	252.75
15422	10.60	14.58	-8.30	61.69	55.70	542.57	26.17	259.64	256.28	239.78	45.24	451.52	103.94	145.59	255.68
15423	11.69	14.00	-8.30	63.26	54.87	536.30	27.97	251.40	257.81	271.44	45.01	429.19	119.79	161.53	258.56
15424	0.68	18.88	-8.30	88.94	51.61	539.56	4.29	265.80	195.94	140.90	59.75	556.04	28.07	107.15	196.30
15425	2.02	18.79	-8.30	86.67	52.56	538.93	8.25	264.99	196.97	141.86	58.61	552.29	33.92	105.81	197.50
15426	3.36	18.61	-8.30	83.82	53.94	537.55	12.09	263.31	199.22	143.09	57.45	545.02	39.98	105.60	199.79
15427	4.68	18.35	-8.30	80.47	55.56	535.43	15.62	260.83	202.69	145.02	56.27	534.33	46.23	106.97	203.21
15428	5.97	18.01	-8.30	76.72	57.21	532.54	18.74	257.59	207.28	148.23	55.13	520.38	52.79	110.24	207.70
15429	7.23	17.59	-8.30	72.69	58.69	528.89	21.35	253.56	212.80	153.45	54.08	503.38	59.88	115.61	213.19
15430	8.47	17.09	-8.30	68.59	59.81	524.46	23.39	248.70	218.97	161.60	53.20	483.71	67.90	123.23	219.54
15431	9.66	16.51	-8.30	64.75	60.38	519.28	24.88	242.99	225.42	173.89	52.61	461.93	77.48	133.32	226.60
15432	10.81	15.87	-8.30	61.66	60.25	513.41	25.98	236.48	231.66	191.95	52.63	438.98	89.55	146.27	234.17
15433	11.91	15.15	-8.30	60.03	59.35	507.02	27.12	229.42	237.17	218.25	53.76	416.15	105.30	162.65	242.17
15434	16.80	9.56	-8.30	170.71	47.76	510.06	57.94	200.13	253.99	909.76	48.26	371.41	275.44	298.81	294.86
15435	16.19	10.65	-8.30	125.55	51.36	501.24	52.60	203.51	252.97	686.14	62.55	365.17	265.08	290.10	290.58
15436	15.52	11.69	-8.30	93.42	53.63	494.54	44.31	205.97	250.94	510.50	70.75	362.75	227.83	268.25	281.27
15437	15.79	9.48	-8.30	148.81	42.41	538.27	49.14	233.06	266.74	812.90	34.20	403.28	230.26	271.63	283.11
15438	15.37	10.42	-8.30	120.39	46.31	529.31	46.47	230.56	263.98	663.68	41.78	391.85	229.81	263.02	280.28
15439	14.91	11.34	-8.30	97.04	49.58	521.18	41.98	227.84	260.85	531.35	50.67	384.89	212.45	248.08	276.06
15440	14.78	9.40	-8.30	131.93	38.25	554.31	44.48	260.87	277.15	729.20	34.99	418.58	196.97	240.99	281.96
15441	14.55	10.21	-8.30	114.83	42.09	547.41	42.80	254.38	273.33	634.33	34.04	408.61	200.85	236.76	278.65
15442	14.30	11.00	-8.30	98.72	45.58	540.02	40.35	248.61	269.41	540.29	38.05	401.25	196.55	227.47	275.36
15443	12.93	14.37	-8.30	60.62	57.85	501.12	28.81	222.37	241.82	255.03	57.32	395.79	125.22	183.40	249.97
15444	12.65	13.39	-8.30	66.45	53.72	530.18	30.11	243.59	258.74	311.11	46.97	410.90	138.13	180.51	261.35
15445	12.36	12.43	-8.30	73.95	48.16	547.54	32.27	264.39	271.37	368.34	37.69	419.05	145.26	177.10	271.12
15446	13.86	13.54	-8.30	64.69	56.28	496.34	31.82	216.17	245.47	308.67	62.45	379.41	151.77	208.46	259.14
15447	13.48	12.78	-8.30	72.03	52.52	524.78	32.94	236.96	259.23	362.41	49.30	397.30	159.50	201.36	265.11
15448	13.10	12.03	-8.30	79.51	47.76	543.56	34.34	256.97	270.04	412.25	38.46	409.58	161.39	193.78	271.41
15449	14.74	12.66	-8.30	74.20	54.90	493.09	36.90	210.65	248.20	387.64	68.63	367.58	186.58	237.01	269.73
15450	14.28	12.13	-8.30	81.04	51.38	519.79	37.03	230.47	259.14	430.35	52.48	387.08	186.12	224.90	269.98
15451	13.81	11.61	-8.30	87.09	47.17	538.79	37.28	249.12	268.38	466.49	38.86	401.89	181.06	213.58	272.81
15452	11.69	9.49	-6.90	76.54	31.83	514.77	25.84	288.42	269.02	368.04	31.53	392.64	81.09	94.29	268.63
15453	12.72	9.44	-6.90	87.86	35.78	520.93	26.14	271.84	263.87	413.09	23.67	401.20	91.60	108.12	262.58
15454	13.76	9.39	-6.90	100.98	40.24	519.93	27.23	253.10	257.45	466.86	19.75	407.26	104.80	125.67	256.80
15455	11.91	10.47	-6.90	73.81	39.19	519.70	22.40	272.84	261.20	331.64	24.31	397.49	85.33	105.37	259.87
15456	12.81	10.33	-6.90	82.94	42.00	520.19	23.34	259.18	257.31	369.53	21.69	398.61	95.98		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
15485	5.53	13.03	-6.90	44.41	33.78	486.93	13.11	309.58	259.22	167.88	46.88	464.96	39.86	95.84	260.64
15486	6.70	12.83	-6.90	46.44	36.23	495.36	14.51	304.11	258.88	176.52	43.15	453.06	45.51	93.77	259.88
15487	7.86	12.61	-6.90	49.19	38.68	503.75	15.60	297.16	258.41	188.54	38.92	440.28	51.61	93.36	258.81
15488	8.99	12.35	-6.90	52.89	41.02	511.20	16.45	288.66	257.66	204.99	34.33	427.42	58.48	94.99	257.33
15489	10.11	12.06	-6.90	57.85	43.20	516.71	17.24	278.66	256.50	227.14	29.76	415.43	66.56	99.19	255.40
15490	11.19	11.74	-6.90	64.31	45.20	519.27	18.25	267.28	254.81	256.50	26.13	405.29	76.42	106.78	253.12
15491	0.65	15.28	-6.90	58.13	40.67	507.92	3.62	297.08	239.04	127.54	59.32	535.48	17.40	107.33	239.66
15492	1.95	15.20	-6.90	56.32	41.66	508.72	5.72	296.32	238.98	129.13	57.60	530.80	22.63	103.23	239.44
15493	3.22	15.07	-6.90	55.16	43.17	510.38	7.48	294.42	239.36	131.05	55.28	522.92	27.72	99.61	239.56
15494	4.47	14.90	-6.90	54.58	45.01	512.66	8.99	291.38	240.11	133.81	52.39	511.94	32.71	96.83	239.96
15495	5.71	14.67	-6.90	54.53	46.97	515.19	10.29	287.16	241.12	137.98	48.96	498.09	37.70	95.20	240.54
15496	6.94	14.40	-6.90	54.98	48.87	517.53	11.41	281.74	242.23	144.29	45.08	481.72	42.90	94.97	241.19
15497	8.09	14.08	-6.90	56.02	50.57	519.15	12.40	275.05	243.26	153.65	40.90	463.41	48.63	96.39	241.77
15498	9.24	13.72	-6.90	57.85	51.97	519.46	13.34	267.10	243.99	167.18	36.79	444.04	55.32	99.78	242.16
15499	10.36	13.31	-6.90	60.71	53.00	517.83	14.42	257.97	244.22	186.29	33.48	424.75	63.51	105.61	242.27
15500	11.45	12.86	-6.90	64.86	53.74	513.70	15.94	247.79	243.76	212.76	32.26	406.85	73.90	114.56	242.15
15501	0.67	17.07	-6.90	79.86	53.35	524.31	6.35	272.29	214.96	113.65	64.26	549.77	15.42	96.39	214.94
15502	1.99	16.99	-6.90	77.62	54.28	524.03	7.78	271.39	215.30	113.43	62.84	545.53	20.00	93.41	215.16
15503	3.30	16.84	-6.90	75.44	55.53	523.30	9.00	269.42	216.36	113.36	60.78	537.26	24.43	91.09	216.02
15504	4.59	16.62	-6.90	73.33	56.89	522.01	10.09	266.42	218.03	113.76	58.09	525.10	28.73	89.85	217.45
15505	5.85	16.34	-6.90	71.30	58.19	520.01	11.09	262.41	220.20	115.10	54.83	509.30	33.01	89.99	219.36
15506	7.09	15.99	-6.90	69.40	59.27	517.14	12.03	257.39	222.65	118.06	51.17	490.26	37.48	91.76	221.62
15507	8.29	15.58	-6.90	67.75	60.03	513.20	12.93	251.35	225.15	123.52	47.33	468.57	42.49	95.33	224.06
15508	9.46	15.11	-6.90	66.55	60.39	508.00	13.86	244.33	227.42	132.71	43.77	445.14	48.56	100.93	226.52
15509	10.60	14.58	-6.90	66.08	60.37	501.34	15.00	236.39	229.21	147.29	41.26	421.20	56.41	108.86	228.90
15510	11.69	14.00	-6.90	66.70	59.98	493.13	16.66	227.67	230.33	169.42	40.89	398.30	66.84	119.67	231.25
15511	0.68	18.88	-6.90	108.11	53.67	491.31	7.99	244.53	185.44	117.86	59.08	512.77	11.83	80.43	186.44
15512	2.02	18.79	-6.90	105.33	54.68	490.58	10.46	243.60	186.04	115.76	58.38	509.81	15.75	78.73	187.48
15513	3.36	18.61	-6.90	101.82	56.04	488.95	12.96	241.77	187.56	113.10	57.36	503.16	19.63	78.15	189.35
15514	4.68	18.35	-6.90	97.67	57.57	486.47	15.26	239.11	189.96	110.14	56.00	492.96	23.36	79.09	192.00
15515	5.97	18.01	-6.90	93.01	59.11	483.14	17.24	235.62	193.14	107.30	54.32	479.37	26.98	81.74	195.35
15516	7.23	17.59	-6.90	88.00	60.50	478.99	18.79	231.34	196.92	105.20	52.36	462.65	30.63	86.19	199.30
15517	8.47	17.09	-6.90	82.85	61.62	474.00	19.90	226.27	201.05	104.79	50.24	443.21	34.64	92.44	203.74
15518	9.66	16.51	-6.90	77.84	62.35	468.22	20.62	220.43	205.26	107.48	48.24	421.69	39.60	100.58	208.53
15519	10.81	15.87	-6.90	73.38	62.66	461.70	21.13	213.94	209.26	115.27	46.92	399.06	46.46	110.81	213.60
15520	11.91	15.15	-6.90	69.94	62.52	454.57	21.78	206.96	212.78	130.91	47.19	376.70	56.46	123.40	219.06
15521	16.80	9.56	-6.90	143.60	57.57	449.11	43.82	174.62	224.26	650.67	62.28	340.29	179.41	207.97	257.02
15522	16.19	10.65	-6.90	110.52	59.33	442.73	40.07	177.21	225.39	490.88	68.99	335.88	175.41	207.55	255.01
15523	15.52	11.69	-6.90	87.18	60.59	437.35	34.13	180.72	223.88	357.71	71.47	330.97	148.69	196.94	247.97
15524	15.79	9.48	-6.90	128.92	51.30	485.40	35.05	203.69	237.63	587.63	41.06	381.98	146.23	177.57	250.07
15525	15.37	10.42	-6.90	107.27	54.23	477.82	32.73	202.25	236.22	475.56	48.31	369.17	147.68	179.11	248.37
15526	14.91	11.34	-6.90	89.89	56.79	470.29	29.44	201.08	233.48	373.25	54.15	358.75	135.58	174.89	245.09
15527	14.78	9.40	-6.90	115.16	45.59	508.79	29.78	229.86	248.62	527.22	25.89	403.30	122.01	150.69	251.85
15528	14.55	10.21	-6.90	102.13	49.28	502.22	27.95	224.79	245.50	453.60	33.29	390.30	125.43	154.69	248.90
15529	14.30	11.00	-6.90	90.23	52.65	494.59	26.03	220.48	241.82	379.94	39.96	379.25	122.78	153.96	245.78
15530	12.93	14.37	-6.90	68.16	61.97	447.87	23.01	199.91	215.95	156.87	50.69	357.17	70.36	138.93	224.38
15531	12.65	13.39	-6.90	68.63	59.32	485.06	18.88	219.48	231.10	199.27	43.54	379.99	79.72	132.54	233.46
15532	12.36	12.43	-6.90	69.71	54.09	508.22	17.87	238.35	242.96	243.51	33.95	393.57	84.86	125.31	242.10
15533	13.86	13.54	-6.90	69.07	61.53	442.06	25.13	193.27	218.73	198.18	56.96	342.21	90.23	156.96	231.08
15534	13.48	12.78	-6.90	72.22	58.70	477.69	21.67	212.30	231.62	239.48	47.37	367.04	95.55	146.33	236.46
15535	13.10	12.03	-6.90	74.86	54.12	502.03	20.15	230.48	242.01	278.17	36.64	384.50	96.61	135.55	242.48
15536	14.74	12.66	-6.90	74.32	61.09	437.30	28.84	186.74	221.20	260.86	65.41	332.59	117.16	176.34	239.09
15537	14.28	12.13	-6.90	78.48	58.09	470.33	25.50	204.97	231.74	293.54	52.71	358.10	115.80	161.49	240.26
15538	13.81	11.61	-6.90	81.37	54.10	494.58	23.31	222.11	240.60	321.41	39.08	377.51	111.25	148.16	243.54
15539	11.69	9.49	-5.50	62.97	34.96	478.57	16.25	262.01	244.87	183.43	6.83	370.72	26.20	60.66	243.41
15540	12.72	9.44	-5.50	74.01	40.10	483.81	16.50	245.34	239.32	210.47	10.15	383.41	30.20	67.96	237.13
15541	13.76	9.39	-5.50	85.96	45.96	482.12	17.63	227.37	232.51	241.83	23.56	394.70	35.35	77.89	231.31
15542	11.91	10.47	-5.50	63.80	42.03	484.16	13.97	246.79	236.23	158.90	10.35	375.03	25.54	68.45	233.81
15543	12.81	10.33	-5.50	72.65	46.09	484.41	14.86	233.17	232.40	180.47	19.01	379.51	29.94	74.93	229.98
15544	13.70	10.18	-5.50	82.12	50.58	479.40	16.55	219.03	227.73	205.76	31.34	383.69	35.59	83.50	226.63
15545	12.11	11.46	-5.50	65.74	49.76	485.13	13.55	230.97	226.80	130.80	20.27	376.63	25.03	79.35	224.09
15546	12.88	11.21	-5.50	72.14	52.51	481.43	14.86	220.95	224.87	147.95	27.64	374.34	29.35	83.88	222.93
15547	13.63	10.96	-5.50	78.95	55.37	474.23	16.78	210.33	222.42	169.24	38.54	372.76	34.04	91.29	221.98
15548	0.57	9.89	-5.50	31.02	6.99	352.24	3.70	340.09	272.70	109.25	46.79	390.39	3.43	97.90	275.46
15549	1.70	9.88	-5.50	29.14	7.05	356.34	6.61	339.26	270.93	109.70	45.68	386.66	6.80	89.80	274.08
15550	2.84	9.86	-5.50	28.04	8.32	364.16	9.38	337.07	269.00	109.98	44.17	382.00	9.95	81.48	272.49
15551	3.96	9.83	-5.50	27.84	10.39	375.24	11.79	333.47	266.92	110.57	42.21	376.53	12.71	73.26	270.68
15552	5.08	9.80	-5.50	28.62	12.96	388.98	13.75	328.38	264.68	112.07	39.72	370.47	15.03	65.58	268.57
15553	6.20	9.76	-5.50	30.54	15.87	404.66	15.21	321.68	262.26	115.16	36.58	364.34	16.92	59.01	266.06
15554	7.31	9.71	-5.50	33.75	19.05	421.42	16.15	313.28	259.61	120.66	32.66	358.97	18.44	54.27	263.02
15555	8.42	9.66	-5.50	38.48											



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
15583	6.91	14.40	-5.50	57.22	42.59	487.37	13.65	262.21	212.67	70.66	27.70	461.34	10.85	76.63	210.80
15584	8.09	14.08	-5.50	57.58	46.03	488.97	13.42	253.97	214.12	71.04	24.12	443.02	11.98	77.06	211.70
15585	9.24	13.72	-5.50	58.93	49.32	489.26	13.32	244.66	215.41	73.33	21.24	423.41	13.45	78.36	212.64
15586	10.36	13.31	-5.50	61.45	52.43	487.56	13.55	234.51	216.36	78.57	20.79	403.76	15.66	80.73	213.60
15587	11.45	12.86	-5.50	65.28	55.37	483.16	14.33	223.77	216.81	88.25	24.83	385.72	19.06	84.58	214.58
15588	0.67	17.07	-5.50	88.80	41.56	497.38	21.05	255.65	188.77	90.61	48.55	530.73	5.55	74.90	188.75
15589	1.99	16.99	-5.50	86.11	43.21	497.12	20.74	254.32	189.00	87.79	47.41	527.50	6.19	72.60	188.85
15590	3.30	16.84	-5.50	83.52	45.51	496.36	20.94	251.69	190.10	84.84	45.54	520.04	7.18	71.07	189.74
15591	4.59	16.62	-5.50	81.06	48.19	495.00	20.52	247.85	191.95	81.81	42.96	508.45	8.19	70.50	191.32
15592	5.85	16.34	-5.50	78.77	51.00	492.87	19.92	242.88	194.34	78.79	39.75	492.92	9.06	70.96	193.48
15593	7.09	15.99	-5.50	76.70	53.76	489.77	19.26	236.87	197.03	75.84	36.12	473.77	9.77	72.43	196.06
15594	8.29	15.58	-5.50	74.96	56.34	485.48	18.69	229.96	199.76	73.09	32.56	451.55	10.43	74.86	198.89
15595	9.46	15.11	-5.50	73.68	58.68	479.69	18.38	222.30	202.27	70.81	29.99	427.10	11.29	78.26	201.77
15596	10.60	14.58	-5.50	72.99	60.73	472.11	18.53	214.08	204.33	69.67	29.88	401.73	12.83	82.78	204.57
15597	11.69	14.00	-5.50	73.06	62.48	462.45	19.33	205.48	205.79	71.38	33.61	377.20	15.61	88.80	207.26
15598	0.68	18.88	-5.50	120.58	42.07	457.33	25.29	221.53	178.61	120.62	45.08	485.49	7.63	58.39	180.85
15599	2.02	18.79	-5.50	117.42	43.75	456.55	26.16	220.50	178.75	117.25	44.73	483.57	9.35	56.31	181.76
15600	3.36	18.61	-5.50	113.63	46.03	454.76	26.88	218.64	179.56	113.21	43.75	477.75	11.04	55.39	183.27
15601	4.68	18.35	-5.50	109.29	48.68	452.00	27.45	215.98	180.95	108.56	42.20	468.08	12.53	55.92	185.27
15602	5.97	18.01	-5.50	104.50	51.46	448.28	27.89	212.57	182.81	103.33	40.16	454.72	13.71	58.02	187.64
15603	7.23	17.59	-5.50	99.37	54.21	443.61	28.22	208.46	184.99	97.54	37.82	437.87	14.53	61.64	190.25
15604	8.47	17.09	-5.50	94.04	56.82	437.98	28.45	203.70	187.28	91.13	35.55	417.93	14.94	66.67	192.98
15605	9.66	16.51	-5.50	88.72	59.21	431.39	28.64	198.37	189.50	84.08	33.99	395.53	14.99	73.07	195.71
15606	10.81	15.87	-5.50	83.64	61.37	423.82	28.88	192.55	191.48	76.46	34.16	371.71	14.88	80.87	198.42
15607	11.91	15.15	-5.50	79.07	63.27	415.29	29.36	186.37	193.12	69.04	37.15	347.98	15.27	90.09	201.26
15608	16.80	9.56	-5.50	109.01	68.21	398.47	33.47	160.83	199.04	329.48	85.72	323.72	69.76	162.29	225.56
15609	16.19	10.65	-5.50	90.71	68.14	392.13	33.64	160.39	202.82	236.98	82.42	315.21	69.16	152.80	225.60
15610	15.52	11.69	-5.50	79.13	68.56	388.12	33.53	162.40	200.92	155.85	77.12	305.14	54.14	141.62	218.99
15611	15.79	9.48	-5.50	105.20	60.87	441.69	24.91	184.93	212.51	302.82	64.50	372.96	51.25	122.19	223.12
15612	15.37	10.42	-5.50	93.10	62.89	435.55	24.86	182.49	212.59	233.29	65.26	355.56	52.16	122.00	222.05
15613	14.91	11.34	-5.50	83.81	64.90	429.43	25.46	180.84	209.96	169.20	64.65	339.95	45.84	120.24	218.77
15614	14.78	9.40	-5.50	97.38	53.19	469.46	20.03	206.68	223.53	274.27	42.60	394.83	41.37	95.72	226.42
15615	14.55	10.21	-5.50	89.98	56.46	464.75	19.42	201.68	221.04	225.67	47.45	378.46	41.95	99.79	223.55
15616	14.30	11.00	-5.50	83.66	59.71	458.54	19.95	197.53	217.49	177.96	50.68	363.64	40.20	101.65	220.31
15617	12.93	14.37	-5.50	75.44	64.77	406.88	30.22	180.10	194.68	65.00	44.10	327.46	17.63	101.12	203.74
15618	12.65	13.39	-5.50	73.91	63.70	452.48	20.74	197.67	206.88	78.54	40.85	357.74	19.95	95.98	209.43
15619	12.36	12.43	-5.50	69.66	57.66	477.08	15.60	214.28	216.92	101.74	31.99	372.87	23.01	89.53	215.53
15620	13.86	13.54	-5.50	73.45	66.45	398.90	31.25	174.00	196.21	72.23	53.81	312.32	24.36	113.43	207.32
15621	13.48	12.78	-5.50	75.39	64.66	442.67	22.47	190.95	207.61	94.53	48.86	344.46	26.48	103.62	211.87
15622	13.10	12.03	-5.50	73.75	59.20	469.75	17.14	206.72	216.68	118.98	39.19	364.71	27.79	94.06	216.57
15623	14.74	12.66	-5.50	74.06	67.85	391.02	32.72	167.82	197.98	100.05	65.75	303.58	37.11	126.09	212.15
15624	14.28	12.13	-5.50	78.17	65.40	432.00	24.67	184.21	208.04	122.14	58.32	336.18	36.04	112.26	214.75
15625	13.81	11.61	-5.50	78.44	60.58	460.32	19.17	199.02	215.87	142.40	46.06	359.15	34.29	100.61	217.89
15626	11.69	9.49	-4.10	54.68	41.07	439.69	19.19	239.82	225.01	29.23	22.05	345.17	37.67	66.46	222.24
15627	12.72	9.44	-4.10	62.11	47.17	445.42	20.60	224.19	219.97	29.64	32.12	364.20	38.73	71.98	216.92
15628	13.76	9.39	-4.10	70.28	54.20	445.90	22.51	207.82	213.73	32.26	46.27	385.60	40.69	76.67	213.04
15629	11.91	10.47	-4.10	54.36	48.15	446.60	21.93	224.98	216.51	43.54	29.27	349.53	40.11	62.93	212.77
15630	12.81	10.33	-4.10	60.45	53.59	448.41	23.49	211.94	213.31	45.52	39.31	359.23	41.60	68.20	210.12
15631	13.70	10.18	-4.10	67.41	59.76	446.29	25.21	198.65	209.29	48.62	53.14	371.67	43.57	74.20	208.66
15632	12.11	11.46	-4.10	55.77	56.45	451.32	25.71	209.45	206.55	62.83	38.26	352.98	40.61	70.56	202.89
15633	12.88	11.21	-4.10	60.35	60.95	449.85	26.82	199.51	205.19	66.28	47.33	354.72	42.81	73.93	203.04
15634	13.63	10.96	-4.10	65.67	66.02	445.60	28.17	189.32	203.47	70.29	60.53	359.43	45.61	79.02	204.01
15635	0.57	9.89	-4.10	33.05	7.28	327.51	6.10	323.29	254.88	34.02	30.33	372.78	15.43	80.13	257.31
15636	1.70	9.88	-4.10	31.41	7.69	331.22	8.07	322.03	252.75	29.45	28.58	369.23	17.06	73.17	255.42
15637	2.84	9.86	-4.10	30.33	9.51	338.25	10.12	319.20	250.43	24.74	26.67	364.37	19.21	65.76	253.28
15638	3.96	9.83	-4.10	29.92	12.16	348.15	12.00	314.77	247.95	20.77	24.56	358.23	21.69	58.26	250.86
15639	5.08	9.80	-4.10	30.33	15.30	360.35	13.62	308.73	245.31	18.84	22.27	350.99	24.36	51.33	248.15
15640	6.20	9.76	-4.10	31.70	18.75	374.17	14.93	301.06	242.53	19.74	19.79	343.13	27.13	46.07	245.09
15641	7.31	9.71	-4.10	34.13	22.48	388.88	15.95	291.74	239.57	22.65	17.25	335.52	29.90	43.90	241.60
15642	8.42	9.66	-4.10	37.68	26.52	403.68	16.76	280.82	236.42	25.96	15.01	329.70	32.52	45.86	237.60
15643	9.52	9.60	-4.10	42.34	30.91	417.72	17.45	268.39	233.03	28.38	14.10	327.87	34.82	51.53	233.02
15644	10.62	9.54	-4.10	48.08	35.75	430.10	18.20	254.58	229.29	29.35	16.22	332.57	36.60	59.17	227.86
15645	0.60	11.68	-4.10	40.91	9.49	365.37	9.74	308.71	236.20	38.99	26.11	408.91	16.50	79.27	238.43
15646	1.80	11.64	-4.10	38.71	10.71	368.21	11.19	307.24	234.50	35.41	24.18	405.24	18.04	73.86	236.81
15647	2.99	11.58	-4.10	37.01	13.33	373.75	12.69	304.08	232.77	32.24	22.21	399.73	20.08	68.18	235.03
15648	4.16	11.50	-4.10	35.89	16.70	381.57	14.11	299.26	231.01	30.15	20.25	392.45	22.48	62.53	233.06
15649	5.32	11.40	-4.10	35.48	20.47	391.12	15.38	292.80	229.23	29.74	18.34	383.55	25.17	57.34	230.89
15650	6.47	11.28	-4.10	35.93	24.48	401.79	16.50	284.71	227.43	31.16	16.63	373.43	28.04	53.17	228.49
15651	7.60	11.15	-4.10	37.38	28.70	412.88	17.50	275.07	225.57	33.89	15.41	362.87	30.98	50.76	225.81
15652	8.72	10.99	-4.10	39.95	33.14	423.70	18.45	264.00	223.64	37.07	15.31	353.16	33.86	50.73	222.84
15653	9.83	10.82	-4.10	43.70	37.85	433.48	19.44	251.66	221.57	39.91	17.24	346.27			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
15681	8.29	15.58	-4.10	73.57	52.75	468.47	37.91	213.13	173.69	100.82	28.49	446.18	23.55	71.46	172.57
15682	9.46	15.11	-4.10	71.97	59.05	464.00	36.92	204.21	177.14	107.06	34.70	421.67	26.68	75.54	176.90
15683	10.60	14.58	-4.10	70.96	65.17	457.74	36.06	194.90	180.24	114.22	43.12	395.66	30.73	79.45	181.51
15684	11.69	14.00	-4.10	70.78	71.06	449.21	35.46	185.50	182.82	121.52	54.05	370.19	35.85	83.42	186.30
15685	0.68	18.88	-4.10	123.46	18.07	445.50	58.83	201.33	169.92	135.86	17.51	482.84	19.97	40.81	174.04
15686	2.02	18.79	-4.10	119.89	23.48	444.72	58.65	200.10	169.74	133.90	18.77	482.28	19.83	38.88	174.89
15687	3.36	18.61	-4.10	116.14	30.64	442.88	57.84	198.06	170.22	132.78	19.97	477.51	19.78	38.50	176.38
15688	4.68	18.35	-4.10	112.22	38.28	440.02	56.49	195.25	171.20	132.75	21.50	468.50	20.03	39.77	178.31
15689	5.97	18.01	-4.10	108.15	45.86	436.13	54.71	191.77	172.54	134.05	23.91	455.29	20.80	42.55	180.54
15690	7.23	17.59	-4.10	103.94	53.14	431.19	52.62	187.71	174.06	136.82	27.73	437.99	22.34	46.57	182.89
15691	8.47	17.09	-4.10	99.63	59.97	425.15	50.38	183.19	175.55	141.05	33.34	416.90	24.92	51.62	185.17
15692	9.66	16.51	-4.10	95.27	66.30	417.95	48.16	178.33	176.85	146.49	40.97	392.61	28.73	57.61	187.22
15693	10.81	15.87	-4.10	90.99	72.09	409.46	46.12	173.29	177.78	152.54	50.71	366.15	33.89	64.51	188.92
15694	11.91	15.15	-4.10	86.90	77.27	399.49	44.51	168.21	178.29	158.14	62.51	339.23	40.35	72.24	190.36
15695	16.80	9.56	-4.10	88.91	84.56	366.12	34.62	154.14	181.49	72.52	139.47	339.47	63.38	150.07	207.91
15696	16.19	10.65	-4.10	83.49	89.80	357.08	40.53	148.83	185.67	109.52	136.05	314.16	65.68	125.54	206.75
15697	15.52	11.69	-4.10	79.43	91.09	357.27	42.73	148.98	180.74	137.71	123.92	294.35	65.89	112.73	197.31
15698	15.79	9.48	-4.10	85.93	74.57	414.36	28.74	171.44	194.48	54.03	99.80	389.71	57.01	105.94	212.14
15699	15.37	10.42	-4.10	80.71	79.48	411.92	32.40	165.33	194.61	83.99	102.46	361.81	57.82	100.62	208.97
15700	14.91	11.34	-4.10	76.98	83.47	409.89	34.91	162.16	190.49	111.90	101.05	338.18	57.73	99.44	203.29
15701	14.78	9.40	-4.10	78.50	63.36	438.13	25.17	189.55	205.30	39.80	67.84	399.30	46.52	84.77	212.05
15702	14.55	10.21	-4.10	74.12	68.34	437.26	27.99	182.52	203.10	60.60	73.22	377.08	48.57	84.38	208.60
15703	14.30	11.00	-4.10	71.28	73.39	435.39	30.68	176.88	198.58	83.23	77.39	357.84	49.04	86.08	204.38
15704	12.93	14.37	-4.10	83.20	81.60	389.06	43.59	163.32	178.57	161.69	76.45	315.72	47.84	81.29	190.83
15705	12.65	13.39	-4.10	71.42	75.99	439.60	35.21	177.33	184.96	126.80	66.44	350.02	41.64	87.47	190.32
15706	12.36	12.43	-4.10	61.08	66.03	452.12	30.13	193.14	195.31	90.81	51.34	355.57	40.49	82.70	194.30
15707	13.86	13.54	-4.10	80.20	85.57	378.19	43.17	158.48	178.61	160.78	91.47	298.57	54.93	91.02	191.72
15708	13.48	12.78	-4.10	72.41	79.90	429.00	35.29	170.73	186.51	128.09	78.74	336.76	47.29	91.18	194.18
15709	13.10	12.03	-4.10	64.14	70.02	446.75	30.67	185.35	195.84	93.55	61.21	350.30	44.11	84.62	197.03
15710	14.74	12.66	-4.10	78.85	88.95	366.01	43.25	153.48	178.89	154.35	108.06	289.66	61.24	100.01	193.29
15711	14.28	12.13	-4.10	74.50	83.43	416.08	35.74	164.68	187.74	125.86	93.00	330.02	53.01	95.05	198.15
15712	13.81	11.61	-4.10	68.15	73.63	438.88	31.27	177.85	195.77	94.78	71.62	349.16	48.24	87.61	200.29
15713	11.69	9.49	-2.70	61.02	51.41	399.74	30.25	222.43	210.95	226.54	42.83	317.40	94.89	76.84	207.44
15714	12.72	9.44	-2.70	65.04	59.11	406.37	33.35	209.48	208.10	247.82	52.52	345.36	102.53	83.34	205.33
15715	13.76	9.39	-2.70	69.02	68.32	409.93	37.10	196.63	204.93	275.49	65.49	383.11	111.18	87.27	207.53
15716	11.91	10.47	-2.70	54.13	60.98	407.77	36.48	208.86	204.83	219.52	51.27	322.35	102.96	66.01	200.85
15717	12.81	10.33	-2.70	56.64	68.57	411.38	39.71	197.59	203.90	241.50	60.63	338.85	111.40	73.28	201.77
15718	13.70	10.18	-2.70	59.37	77.66	412.80	43.35	186.41	202.89	268.70	73.35	363.46	121.16	83.15	206.33
15719	12.11	11.46	-2.70	48.19	73.23	415.56	42.89	194.92	197.31	214.86	63.43	327.54	103.45	79.05	195.18
15720	12.88	11.21	-2.70	49.36	79.98	416.52	45.29	185.77	197.88	237.28	71.80	334.11	112.17	86.56	199.18
15721	13.63	10.96	-2.70	50.95	88.65	416.19	48.14	176.49	198.60	265.57	83.88	347.76	121.57	98.04	206.12
15722	0.57	9.89	-2.70	39.40	16.73	301.65	11.86	305.38	238.75	62.77	21.43	354.38	28.76	67.93	240.54
15723	1.70	9.88	-2.70	38.64	17.02	304.92	13.26	303.76	236.26	70.75	20.25	351.38	32.57	62.62	238.14
15724	2.84	9.86	-2.70	38.47	18.24	311.08	14.87	300.46	233.63	81.35	19.53	346.73	37.11	56.73	235.48
15725	3.96	9.83	-2.70	38.98	20.28	319.72	16.55	295.51	230.88	94.40	19.37	340.37	42.39	50.60	232.60
15726	5.08	9.80	-2.70	40.23	23.00	330.30	18.24	288.92	228.06	109.65	19.86	332.37	48.39	44.96	229.50
15727	6.20	9.76	-2.70	42.27	26.28	342.22	21.60	280.75	225.18	126.80	21.10	323.03	55.11	41.14	226.18
15728	7.31	9.71	-2.70	45.06	30.07	354.85	21.60	271.11	222.28	145.49	23.15	313.14	62.50	41.05	222.64
15729	8.42	9.66	-2.70	48.53	34.40	367.56	23.38	260.15	219.39	165.25	26.14	304.27	70.45	45.95	218.89
15730	9.52	9.60	-2.70	52.53	39.33	379.70	25.36	248.13	216.54	185.63	30.24	299.26	78.74	55.18	214.97
15731	10.62	9.54	-2.70	56.83	45.00	390.66	27.61	235.38	213.76	206.24	35.75	302.31	87.03	66.56	211.03
15732	0.60	11.68	-2.70	46.80	21.03	335.79	17.19	292.62	220.04	69.31	22.81	386.68	30.12	66.82	221.55
15733	1.80	11.64	-2.70	45.02	21.57	338.31	18.44	290.76	218.05	75.02	22.23	383.70	34.19	62.99	219.48
15734	2.99	11.58	-2.70	43.68	23.20	343.16	19.87	287.13	216.11	83.27	22.31	378.61	39.05	58.89	217.30
15735	4.16	11.50	-2.70	42.88	25.74	349.94	21.41	281.79	214.25	93.99	23.08	371.37	44.70	54.76	215.02
15736	5.32	11.40	-2.70	42.68	29.00	358.16	23.03	274.80	212.48	106.99	24.51	362.04	51.17	50.99	212.68
15737	6.47	11.28	-2.70	43.13	32.86	367.29	24.73	266.28	210.82	122.02	26.62	350.93	58.46	48.15	210.29
15738	7.60	11.15	-2.70	44.27	37.27	376.78	26.57	256.38	209.30	138.83	29.44	338.71	66.53	47.04	207.89
15739	8.72	10.99	-2.70	46.07	42.24	386.10	28.60	245.30	207.94	157.14	33.09	326.78	75.28	48.43	205.55
15740	9.83	10.82	-2.70	48.46	47.85	394.71	30.91	233.32	206.77	176.81	37.78	317.62	84.55	52.57	203.40
15741	10.92	10.63	-2.70	51.31	54.22	402.14	33.54	220.82	205.80	197.99	43.90	315.04	94.08	58.96	201.66
15742	0.63	13.48	-2.70	57.21	27.69	371.30	25.25	278.12	197.45	79.44	27.81	421.44	29.75	63.18	198.26
15743	1.88	13.42	-2.70	54.60	28.40	373.02	26.33	276.00	196.12	82.92	27.95	418.81	33.72	61.11	196.64
15744	3.11	13.32	-2.70	52.25	30.33	376.34	27.56	272.10	195.15	88.69	28.86	413.46	38.44	59.51	195.16
15745	4.33	13.19	-2.70	50.22	33.27	380.94	28.91	266.50	194.53	96.81	30.45	405.38	43.94	58.50	193.84
15746	5.53	13.03	-2.70	48.54	37.05	386.44	30.37	259.31	194.23	107.26	32.67	394.66	50.26	58.19	192.69
15747	6.70	12.83	-2.70	47.26	41.52	392.43	31.95	250.66	194.22	119.95	35.52	381.57	57.42	58.69	191.76
15748	7.86	12.61	-2.70	46.44	46.63	398.50	33.69	240.73	194.47	134.78	39.06	366.69	65.40	60.13	191.11
15749	8.99	12.35	-2.70	46.11	52.39	404.24	35.65	229.74	194.95	151.72	43.44	351.21	74.15	62.68	190.86
15750	10.11	12.06	-2.70	46.31	58.87	409.25	37.86	217.97	195.65	170.87	48.93	337.23	83.62	66.57	191.22
15751	11.19	11.74	-2.70	47.07	66.18	413.15	40.35								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
15779	9.66	16.51	-2.70	92.92	132.29	445.16	90.73	177.48	171.35	213.00	156.13	429.00	54.41	82.97	193.34
15780	10.81	15.87	-2.70	91.80	137.80	437.12	87.14	170.58	174.05	244.32	165.83	398.84	64.01	97.82	200.63
15781	11.91	15.15	-2.70	90.13	143.34	427.36	83.85	163.79	176.37	282.65	177.55	367.66	77.01	114.21	208.93
15782	16.80	9.56	-2.70	82.39	143.66	364.90	71.12	148.92	193.65	550.81	199.05	404.62	223.56	219.13	282.84
15783	16.19	10.65	-2.70	62.00	154.07	356.13	71.00	133.19	184.01	512.56	220.01	356.82	207.12	210.66	266.84
15784	15.52	11.69	-2.70	68.11	155.54	371.74	74.09	138.54	179.22	480.57	223.42	327.28	179.32	198.26	250.00
15785	15.79	9.48	-2.70	76.17	101.18	403.66	52.61	167.77	197.19	397.40	116.80	441.20	161.20	139.55	249.67
15786	15.37	10.42	-2.70	57.60	116.75	406.82	57.42	152.70	197.44	375.49	131.70	392.84	159.94	151.92	246.67
15787	14.91	11.34	-2.70	52.84	124.68	412.38	59.45	147.85	190.06	360.22	143.74	358.08	145.32	162.90	239.78
15788	14.78	9.40	-2.70	72.12	81.44	409.46	42.89	182.32	201.19	320.20	85.53	419.09	126.85	98.02	220.28
15789	14.55	10.21	-2.70	59.62	92.16	411.93	49.15	171.85	201.10	311.27	93.59	384.93	135.90	106.06	219.14
15790	14.30	11.00	-2.70	50.93	102.32	415.42	52.71	164.13	196.47	299.18	103.87	358.20	130.89	121.56	218.54
15791	12.93	14.37	-2.70	87.44	148.35	416.22	81.08	157.66	178.24	327.10	190.73	340.25	94.35	132.91	216.83
15792	12.65	13.39	-2.70	58.27	110.41	437.55	60.63	169.12	179.02	256.04	119.51	350.47	92.90	132.81	200.53
15793	12.36	12.43	-2.70	47.94	89.19	424.19	50.43	181.24	188.46	224.05	84.05	335.68	97.72	107.04	193.86
15794	13.86	13.54	-2.70	82.57	152.21	403.35	78.65	151.47	179.12	374.78	204.13	321.33	115.68	153.42	226.04
15795	13.48	12.78	-2.70	56.40	116.93	430.87	60.67	160.56	182.05	290.11	129.99	341.39	107.65	144.45	212.63
15796	13.10	12.03	-2.70	47.87	95.80	422.55	51.72	173.14	190.49	249.85	92.76	335.17	108.31	115.12	201.45
15797	14.74	12.66	-2.70	76.27	155.68	387.45	76.84	145.17	179.45	428.46	219.27	314.91	143.42	174.65	237.04
15798	14.28	12.13	-2.70	55.01	124.24	421.56	60.98	152.36	185.03	331.12	143.37	342.42	126.10	156.83	227.06
15799	13.81	11.61	-2.70	48.59	102.15	419.50	53.07	165.20	192.25	280.44	102.33	342.26	121.61	125.42	211.88
15800	-11.68	9.51	-2.70	70.60	51.94	398.51	40.93	216.42	249.14	105.66	50.06	298.79	41.07	80.38	246.90
15801	-12.72	9.46	-2.70	76.39	58.28	406.72	47.30	201.29	247.18	120.00	55.48	294.35	46.62	84.08	244.64
15802	-13.75	9.41	-2.70	83.80	65.92	413.38	54.98	186.30	244.56	137.72	62.41	295.77	53.53	90.36	241.87
15803	-11.88	10.52	-2.70	80.80	59.66	407.93	43.40	209.81	238.62	119.00	55.31	309.77	41.95	86.97	235.67
15804	-12.79	10.37	-2.70	85.99	65.69	413.47	49.38	197.84	238.17	131.75	60.86	305.77	47.30	91.23	235.07
15805	-13.68	10.21	-2.70	92.43	73.09	418.13	56.24	185.99	237.25	147.08	67.79	306.60	53.65	96.70	234.16
15806	-12.07	11.53	-2.70	92.55	69.96	417.76	47.17	203.90	227.87	134.51	63.29	322.52	43.11	95.03	224.22
15807	-12.84	11.27	-2.70	97.15	75.08	420.86	52.26	194.96	229.03	145.51	68.24	318.39	48.12	98.80	225.44
15808	-13.60	11.00	-2.70	102.81	81.95	423.70	58.48	186.04	229.86	158.61	74.88	318.28	54.21	103.24	226.48
15809	-0.57	9.91	-2.70	40.70	17.39	301.54	10.94	305.34	241.09	57.39	22.97	355.77	25.73	72.45	242.72
15810	-1.70	9.91	-2.70	42.28	18.87	304.47	10.79	303.66	243.24	54.64	24.74	355.73	23.55	75.96	244.64
15811	-2.83	9.90	-2.70	44.15	20.99	310.13	11.57	300.32	245.24	54.02	26.71	354.05	22.31	78.56	246.36
15812	-3.95	9.88	-2.70	46.30	23.61	318.22	13.28	295.32	247.04	55.20	28.84	350.87	22.02	80.24	247.82
15813	-5.07	9.84	-2.70	48.71	26.62	328.33	15.74	288.64	248.56	57.95	31.10	346.30	22.66	81.02	248.97
15814	-6.18	9.80	-2.70	51.41	29.94	339.89	18.77	280.28	249.76	62.11	33.50	340.37	24.14	81.00	249.75
15815	-7.30	9.75	-2.70	54.41	33.57	352.31	22.27	270.27	250.59	67.67	36.08	333.17	26.32	80.36	250.13
15816	-8.41	9.70	-2.70	57.76	37.53	364.96	26.19	258.67	250.99	74.68	38.92	324.85	29.12	79.43	250.07
15817	-9.51	9.64	-2.70	61.52	41.88	377.25	30.55	245.62	250.93	83.26	42.11	315.75	32.49	78.68	249.53
15818	-10.61	9.57	-2.70	65.80	46.73	388.62	35.48	231.33	250.36	93.59	45.85	306.54	36.50	78.75	248.50
15819	-0.59	11.71	-2.70	48.92	21.62	335.88	16.33	292.68	222.07	65.97	24.00	387.45	26.91	70.15	223.48
15820	-1.77	11.71	-2.70	51.35	23.24	338.34	15.98	291.02	224.05	65.03	25.65	386.38	24.56	72.98	225.25
15821	-2.95	11.68	-2.70	53.87	25.65	342.73	16.22	287.77	226.19	65.75	27.71	383.11	23.10	75.28	227.07
15822	-4.11	11.61	-2.70	56.51	28.65	348.92	17.21	282.90	228.38	67.88	30.10	377.86	22.58	77.05	228.83
15823	-5.27	11.51	-2.70	59.28	32.10	356.58	18.98	276.41	230.54	71.28	32.76	370.82	23.00	78.33	230.49
15824	-6.41	11.39	-2.70	62.19	35.90	365.29	21.49	268.34	232.59	75.87	35.67	362.16	24.31	79.22	231.99
15825	-7.55	11.25	-2.70	65.29	39.99	374.57	24.68	258.78	234.47	81.69	38.84	352.09	26.44	79.91	233.29
15826	-8.67	11.09	-2.70	68.62	44.39	383.94	28.49	247.83	236.10	88.81	42.32	340.97	29.31	80.68	234.36
15827	-9.78	10.90	-2.70	72.26	49.14	392.91	32.92	235.67	237.42	97.38	46.21	329.37	32.91	81.86	235.17
15828	-10.88	10.70	-2.70	76.36	54.36	401.10	38.04	222.57	238.37	107.62	50.67	318.23	37.27	83.86	235.69
15829	-0.61	13.51	-2.70	59.99	28.24	371.35	24.44	278.44	199.17	77.96	28.42	421.28	26.64	65.56	200.01
15830	-1.83	13.49	-2.70	62.90	29.95	372.98	23.94	277.08	201.25	78.38	29.74	418.69	24.35	68.11	201.90
15831	-3.05	13.43	-2.70	65.81	32.59	375.87	23.83	274.13	203.82	80.09	31.68	413.44	22.89	70.79	204.10
15832	-4.25	13.31	-2.70	68.73	35.96	379.94	24.25	269.62	206.77	82.95	34.17	405.79	22.32	73.51	206.52
15833	-5.44	13.16	-2.70	71.69	39.88	384.96	25.33	263.59	209.99	86.86	37.14	396.01	22.71	76.22	209.10
15834	-6.62	12.97	-2.70	74.70	44.20	390.66	27.14	256.11	213.35	91.82	40.53	384.41	24.04	78.91	211.79
15835	-7.78	12.73	-2.70	77.82	48.84	396.70	29.73	247.28	216.74	97.88	44.32	371.40	26.30	81.64	214.52
15836	-8.92	12.46	-2.70	81.11	53.79	402.75	33.10	237.27	220.04	105.14	48.51	357.53	29.42	84.52	217.23
15837	-10.04	12.16	-2.70	84.66	59.06	408.49	37.27	226.26	223.13	113.78	53.16	343.66	33.40	87.70	219.85
15838	-11.14	11.82	-2.70	88.61	64.74	413.67	42.24	214.49	225.92	124.02	58.41	330.99	38.28	91.30	222.34
15839	-0.63	15.30	-2.70	73.74	39.75	405.91	36.83	262.67	174.18	93.57	39.65	454.81	25.52	58.00	174.30
15840	-1.89	15.26	-2.70	76.98	41.59	406.67	36.25	261.76	176.52	95.01	40.48	450.40	23.44	61.30	176.41
15841	-3.14	15.16	-2.70	80.16	44.44	408.06	35.87	259.36	179.76	97.52	42.08	442.96	22.11	65.56	179.17
15842	-4.39	15.01	-2.70	83.29	48.13	410.05	35.80	255.51	183.77	101.00	44.43	432.83	21.65	70.43	182.53
15843	-5.61	14.79	-2.70	86.41	52.46	412.55	36.18	250.28	188.38	105.43	47.47	420.38	22.16	75.60	186.38
15844	-6.82	14.52	-2.70	89.57	57.29	415.41	37.14	243.75	193.39	110.84	51.13	406.08	23.68	80.85	190.64
15845	-8.00	14.20	-2.70	92.84	62.52	418.48	38.79	236.03	198.61	117.31	55.36	390.51	26.21	86.03	195.19
15846	-9.16	13.83	-2.70	96.30	68.07	421.57	41.23	227.27	203.84	124.98	60.11	374.48	29.72	91.05	199.91
15847	-10.30	13.41	-2.70	100.06	73.93	424.52	44.54	217.65	208.90	134.06	65.41	359.08	34.18	95.90	204.69
15848	-11.40	12.94	-2.70	104.28	80.23	427.18	48.84	207.39	213.61	144.77	71.34	345.77	39.64	100.60	209.37
15849	-0.65	17.09	-2.70	8											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
15877	-14.28	11.03	-2.70	113.30	93.30	428.60	65.59	177.92	227.43	177.76	85.48	328.63	60.60	109.67	224.45
15878	-12.92	14.39	-2.70	174.62	160.52	426.53	81.22	180.91	203.28	238.33	145.52	357.46	56.35	111.30	203.00
15879	-12.62	13.44	-2.70	131.55	111.39	445.81	62.46	192.38	207.81	185.74	99.91	359.16	48.35	113.35	204.38
15880	-12.32	12.50	-2.70	108.38	86.01	429.10	53.54	198.23	217.45	155.52	77.03	337.20	45.35	104.57	213.39
15881	-13.85	13.56	-2.70	176.99	161.31	419.30	84.50	177.28	206.06	249.14	146.32	353.43	66.32	118.29	205.92
15882	-13.46	12.82	-2.70	135.15	115.17	443.19	66.97	184.96	212.23	196.46	103.90	354.30	55.71	115.79	209.38
15883	-13.06	12.09	-2.70	112.16	90.61	430.20	58.13	190.74	220.42	165.43	81.71	332.93	50.90	107.51	216.68
15884	-14.74	12.67	-2.70	177.67	160.44	411.43	90.65	174.23	207.80	259.10	145.95	354.51	77.86	126.04	207.85
15885	-14.26	12.16	-2.70	138.75	119.10	439.57	72.79	177.75	215.89	208.13	108.20	354.01	64.00	118.19	213.68
15886	-13.79	11.65	-2.70	116.25	94.62	430.93	63.43	183.16	222.86	176.53	85.96	332.48	57.21	110.40	219.58
15887	-11.69	9.52	-4.10	66.36	43.25	437.17	36.57	230.67	256.32	73.81	40.87	326.60	38.85	87.25	254.61
15888	-12.73	9.47	-4.10	71.63	48.56	444.74	41.13	213.78	251.83	84.69	41.35	319.17	42.63	83.59	249.86
15889	-13.76	9.41	-4.10	77.81	54.68	448.67	46.27	196.52	245.57	96.73	41.77	314.81	46.95	80.69	243.52
15890	-11.92	10.55	-4.10	76.80	49.18	445.92	35.93	220.17	243.24	87.52	40.30	337.12	37.89	86.45	240.95
15891	-12.82	10.39	-4.10	81.18	53.88	449.51	40.24	206.74	240.29	96.38	40.81	329.22	41.36	84.28	237.93
15892	-13.70	10.23	-4.10	86.09	59.28	450.45	44.93	193.22	236.00	105.68	41.30	324.01	45.30	82.33	233.76
15893	-12.12	11.56	-4.10	88.37	55.97	452.58	35.50	209.92	229.36	102.37	39.36	347.30	36.44	86.42	226.65
15894	-12.88	11.30	-4.10	91.67	59.82	452.83	39.38	200.01	228.26	108.91	40.00	338.98	39.69	85.08	225.68
15895	-13.63	11.02	-4.10	95.15	64.24	451.21	43.82	190.04	226.19	115.49	40.65	332.65	43.58	83.70	223.96
15896	-0.58	9.92	-4.10	35.39	8.51	327.75	4.85	322.83	256.65	38.14	31.90	375.32	14.50	86.43	258.79
15897	-1.72	9.95	-4.10	37.63	10.75	331.64	5.40	320.76	258.17	41.20	33.31	376.75	14.57	91.48	259.98
15898	-2.86	9.95	-4.10	40.01	13.50	338.30	7.56	317.28	259.69	43.34	34.62	376.35	15.59	95.51	261.15
15899	-3.99	9.92	-4.10	42.51	16.53	347.57	10.49	312.27	261.02	44.74	35.79	374.45	17.41	98.44	262.11
15900	-5.11	9.89	-4.10	45.12	19.75	359.02	13.78	305.64	262.04	45.73	36.83	371.18	19.82	100.16	262.76
15901	-6.22	9.84	-4.10	47.87	23.11	372.10	17.26	297.32	262.69	46.82	37.73	366.58	22.60	100.62	263.01
15902	-7.33	9.79	-4.10	50.82	26.64	386.15	20.86	287.26	262.85	48.65	38.51	360.63	25.62	99.80	262.76
15903	-8.43	9.72	-4.10	54.05	30.35	400.44	24.57	275.45	262.43	51.91	39.19	353.37	28.79	97.80	261.92
15904	-9.53	9.66	-4.10	57.67	34.33	414.24	28.41	261.93	261.32	57.12	39.80	344.90	32.05	94.80	260.38
15905	-10.63	9.58	-4.10	61.79	38.63	426.78	32.45	246.82	259.37	64.53	40.38	335.60	35.44	91.11	258.01
15906	-0.61	11.75	-4.10	43.63	10.33	366.29	8.83	308.13	237.44	42.69	28.00	411.30	15.62	84.00	239.44
15907	-1.82	11.80	-4.10	46.84	12.80	370.39	8.74	305.71	238.34	46.11	29.68	412.28	15.59	88.05	240.03
15908	-3.02	11.78	-4.10	49.92	16.10	376.09	9.51	302.00	239.68	48.95	31.34	410.41	16.36	91.28	240.98
15909	-4.19	11.72	-4.10	52.93	19.79	383.43	11.21	296.86	241.19	51.44	32.92	406.26	17.84	93.61	242.04
15910	-5.35	11.61	-4.10	55.93	23.67	392.16	13.65	290.19	242.68	53.92	34.38	400.12	19.88	95.00	243.04
15911	-6.49	11.48	-4.10	58.97	27.66	401.89	16.60	281.95	244.01	56.80	35.70	392.21	22.32	95.41	243.84
15912	-7.62	11.33	-4.10	62.11	31.71	412.12	19.93	272.15	245.04	60.48	36.87	382.70	25.05	94.88	244.34
15913	-8.74	11.15	-4.10	65.41	35.85	422.26	23.58	260.81	245.64	65.31	37.90	371.82	28.01	93.49	244.44
15914	-9.84	10.95	-4.10	68.94	40.14	431.72	27.53	248.06	245.69	71.52	38.82	359.92	31.18	91.43	244.02
15915	-10.93	10.74	-4.10	72.80	44.66	439.88	31.81	234.09	244.99	79.16	39.67	347.64	34.60	88.92	242.94
15916	-0.63	13.54	-4.10	55.81	12.75	405.46	15.27	291.11	213.44	53.79	24.12	448.67	16.04	79.23	214.89
15917	-1.87	13.57	-4.10	59.32	15.14	408.53	14.84	288.85	214.29	57.41	25.90	448.02	15.96	82.26	215.49
15918	-3.11	13.53	-4.10	62.71	18.80	412.55	14.70	285.24	215.86	60.84	27.71	444.11	16.52	85.03	216.65
15919	-4.33	13.43	-4.10	66.00	23.11	417.48	15.06	280.22	217.92	64.25	29.49	437.36	17.68	87.36	218.18
15920	-5.53	13.27	-4.10	69.19	27.72	423.16	16.11	273.75	220.28	67.86	31.22	428.14	19.34	89.12	219.94
15921	-6.71	13.07	-4.10	72.34	32.44	429.31	17.91	265.84	222.73	71.91	32.87	416.77	21.41	90.21	221.76
15922	-7.86	12.82	-4.10	75.49	37.19	435.56	20.41	256.53	225.08	76.61	34.42	403.63	23.83	90.60	223.51
15923	-9.00	12.54	-4.10	78.67	41.95	441.49	23.54	245.92	227.14	82.13	35.86	389.16	26.56	90.30	225.04
15924	-10.11	12.22	-4.10	81.94	46.72	446.63	27.24	234.16	228.69	88.50	37.19	374.00	29.63	89.39	226.19
15925	-11.20	11.87	-4.10	85.30	51.59	450.49	31.50	221.46	229.52	95.64	38.43	359.01	33.13	87.92	226.81
15926	-0.64	15.32	-4.10	71.88	15.42	443.35	25.09	271.28	185.05	71.68	20.74	485.23	16.24	71.19	185.65
15927	-1.92	15.32	-4.10	75.50	17.79	445.09	24.52	269.39	186.29	75.39	22.14	482.43	16.16	73.90	186.68
15928	-3.19	15.25	-4.10	78.98	21.90	447.11	23.84	266.13	188.60	79.18	23.69	476.03	16.51	76.95	188.55
15929	-4.44	15.10	-4.10	82.33	26.95	449.37	23.23	261.52	191.75	83.15	25.36	466.41	17.26	80.05	191.09
15930	-5.68	14.89	-4.10	85.55	32.42	451.76	22.88	255.56	195.50	87.40	27.12	453.97	18.39	82.90	194.17
15931	-6.89	14.61	-4.10	88.66	38.07	454.13	23.03	248.30	199.57	92.04	28.97	439.16	19.89	85.24	197.59
15932	-8.07	14.28	-4.10	91.68	43.72	456.23	23.89	239.80	203.69	97.13	30.86	422.50	21.79	86.88	201.15
15933	-9.23	13.90	-4.10	94.63	49.30	457.74	25.60	230.21	207.55	102.70	32.77	404.64	24.14	87.72	204.65
15934	-10.35	13.47	-4.10	97.51	54.74	458.29	28.24	219.74	210.89	108.64	34.65	386.41	27.05	87.71	207.86
15935	-11.45	12.99	-4.10	100.30	60.06	457.44	31.84	208.65	213.41	114.77	36.39	368.86	30.66	86.89	210.52
15936	-0.66	17.10	-4.10	93.17	16.86	476.23	40.71	245.08	160.62	97.36	18.19	516.77	17.38	59.31	160.60
15937	-1.97	17.07	-4.10	96.86	19.74	476.15	39.95	243.58	162.69	101.14	18.33	510.96	17.46	62.51	162.41
15938	-3.27	16.95	-4.10	100.41	25.04	475.54	38.70	240.89	165.98	105.20	18.70	501.25	17.54	66.49	165.25
15939	-4.55	16.76	-4.10	103.81	31.52	474.43	37.06	237.01	170.26	109.53	19.41	488.07	17.58	70.67	169.00
15940	-5.82	16.48	-4.10	107.03	38.45	472.79	35.18	231.99	175.24	114.11	20.60	471.90	17.65	74.59	173.46
15941	-7.06	16.14	-4.10	110.02	45.45	470.51	33.32	225.92	180.61	118.89	22.34	453.28	17.89	77.87	178.43
15942	-8.27	15.72	-4.10	112.75	52.29	467.47	31.80	218.89	186.01	123.75	24.60	432.88	18.60	80.25	183.62
15943	-9.44	15.24	-4.10	115.16	58.81	463.47	31.05	211.08	191.10	128.55	27.25	411.51	20.16	81.63	188.75
15944	-10.58	14.69	-4.10	117.16	64.83	458.22	31.55	202.76	195.59	133.04	30.11	390.11	22.92	82.09	193.49
15945	-11.68	14.09	-4.10	118.63	70.21	451.41	33.68	194.27	199.18	136.89	32.89	369.80	27.12	81.92	197.56
15946	-0.67	18.89	-4.10	126.95	16.74	445.02	58.34	201.56	170.79	138.58	15.89	479.05	20.04	43.79	173.89
15947	-2.01	18.81	-4.10	130.21	20.53	443.39	57.14	200.90	172						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
15975	-12.74	9.47	-5.50	66.45	42.54	481.97	40.03	238.37	264.90	68.28	35.16	345.03	40.70	98.94	264.05
15976	-13.77	9.42	-5.50	71.49	47.58	482.51	42.87	219.51	257.82	71.39	31.40	334.69	42.98	89.03	257.11
15977	-11.96	10.58	-5.50	71.43	44.14	482.69	34.65	239.91	256.83	73.32	35.55	364.42	36.08	100.20	255.87
15978	-12.84	10.41	-5.50	74.88	47.66	483.83	37.59	227.08	253.21	75.38	32.57	352.80	38.35	93.35	252.35
15979	-13.73	10.24	-5.50	78.40	51.47	480.39	40.50	214.26	248.32	77.91	29.13	341.15	40.70	86.09	247.76
15980	-12.16	11.60	-5.50	81.36	50.43	484.61	32.08	227.51	243.32	81.70	32.08	370.94	33.54	93.04	242.41
15981	-12.92	11.33	-5.50	83.40	52.88	481.65	35.08	218.38	241.66	83.22	29.68	358.30	35.86	88.34	241.00
15982	-13.66	11.04	-5.50	85.03	55.17	475.67	38.21	209.11	239.07	84.36	26.75	345.78	38.53	83.47	238.84
15983	-0.59	9.94	-5.50	33.97	8.18	352.96	2.10	339.25	273.97	108.02	47.43	393.89	1.71	105.58	276.34
15984	-1.75	10.00	-5.50	36.71	10.16	357.97	4.69	336.98	275.04	105.91	47.82	396.71	5.25	112.04	276.99
15985	-2.89	10.00	-5.50	39.58	12.50	365.69	8.38	333.69	276.23	103.20	48.03	397.51	9.41	117.53	277.81
15986	-4.03	9.97	-5.50	42.44	15.06	376.14	12.22	329.14	277.29	99.61	47.97	396.83	13.63	121.90	278.52
15987	-5.15	9.93	-5.50	45.17	17.79	388.97	16.09	323.19	278.09	95.07	47.61	394.89	17.80	124.95	278.98
15988	-6.26	9.88	-5.50	47.74	20.66	403.62	19.92	315.69	278.51	89.69	46.95	391.70	21.86	126.49	279.07
15989	-7.36	9.82	-5.50	50.20	23.68	419.38	23.66	306.50	278.43	83.76	45.97	387.21	25.74	126.35	278.68
15990	-8.46	9.75	-5.50	52.67	26.88	435.43	27.28	295.55	277.72	77.77	44.64	381.28	29.37	124.41	277.67
15991	-9.56	9.68	-5.50	55.34	30.30	450.86	30.75	282.82	276.24	72.43	42.92	373.85	32.72	120.63	275.90
15992	-10.65	9.60	-5.50	58.45	33.99	464.62	34.08	268.41	273.79	68.63	40.80	364.92	35.75	115.02	273.20
15993	-0.63	11.78	-5.50	39.95	10.97	395.73	1.01	323.09	256.80	94.48	43.05	434.28	2.37	102.77	259.02
15994	-1.87	11.88	-5.50	43.76	13.26	401.76	3.14	320.07	256.85	92.63	43.89	437.39	5.49	108.07	258.68
15995	-3.08	11.89	-5.50	47.33	16.16	408.89	6.37	316.28	257.57	90.53	44.47	436.96	9.24	112.45	259.03
15996	-4.27	11.82	-5.50	50.66	19.41	417.43	9.81	311.41	258.59	87.92	44.77	433.90	13.09	115.75	259.65
15997	-5.43	11.72	-5.50	53.77	22.83	427.26	13.36	305.29	259.64	84.80	44.73	428.68	16.92	117.84	260.31
15998	-6.58	11.57	-5.50	56.68	26.31	438.02	16.97	297.76	260.54	81.35	44.31	421.57	20.63	118.59	260.81
15999	-7.70	11.41	-5.50	59.47	29.81	449.19	20.61	288.75	261.11	77.91	43.47	412.72	24.18	117.86	261.01
16000	-8.81	11.21	-5.50	62.23	33.32	460.09	24.25	278.23	261.20	74.95	42.17	402.22	27.53	115.59	260.76
16001	-9.90	11.00	-5.50	65.11	36.86	469.94	27.89	266.29	260.65	72.99	40.38	390.24	30.67	111.77	259.93
16002	-10.97	10.78	-5.50	68.22	40.48	477.84	31.50	253.12	259.27	72.43	38.10	377.03	33.62	106.47	258.36
16003	-0.64	13.57	-5.50	51.18	17.65	439.16	5.37	304.53	234.75	83.63	40.40	475.84	3.04	97.75	236.41
16004	-1.92	13.65	-5.50	55.20	19.52	443.88	5.04	301.54	234.60	83.26	41.55	477.19	5.43	101.53	235.99
16005	-3.17	13.63	-5.50	58.99	22.26	449.08	5.78	297.65	235.36	82.70	42.27	474.60	8.64	104.85	236.41
16006	-4.40	13.54	-5.50	62.52	25.58	454.83	7.66	292.71	236.75	81.85	42.53	468.68	12.03	107.45	237.39
16007	-5.61	13.38	-5.50	65.77	29.22	461.03	10.33	286.59	238.50	80.82	42.35	459.89	15.42	109.07	238.71
16008	-6.79	13.17	-5.50	68.77	32.98	467.41	13.50	279.24	240.35	79.80	41.73	448.63	18.72	109.55	240.14
16009	-7.95	12.91	-5.50	71.57	36.73	473.58	16.98	270.61	242.07	79.05	40.64	435.22	21.88	108.73	241.48
16010	-9.07	12.61	-5.50	74.22	40.39	479.02	20.68	260.76	243.43	78.83	39.07	420.01	24.92	106.53	242.55
16011	-10.18	12.28	-5.50	76.79	43.92	483.09	24.56	248.85	244.20	79.30	37.02	403.43	27.89	102.95	243.16
16012	-11.25	11.92	-5.50	79.27	47.33	485.05	28.62	239.12	244.20	80.39	34.49	386.01	30.92	98.04	243.16
16013	-0.65	15.34	-5.50	67.97	28.16	478.73	12.11	282.63	209.19	80.84	42.18	513.72	4.09	89.50	209.92
16014	-1.95	15.38	-5.50	71.88	29.43	481.07	11.34	279.95	209.56	82.50	43.01	512.09	5.75	92.38	210.15
16015	-3.24	15.33	-5.50	75.50	31.61	483.27	10.45	276.31	211.05	83.92	43.17	506.30	8.20	95.13	211.36
16016	-4.50	15.19	-5.50	78.81	34.49	485.29	9.87	271.65	213.41	85.12	42.71	496.79	10.88	97.43	213.37
16017	-5.75	14.98	-5.50	81.79	37.81	487.04	10.16	265.95	216.37	86.19	41.69	484.00	13.59	98.99	215.96
16018	-6.96	14.70	-5.50	84.41	41.35	488.34	11.66	259.19	219.61	87.21	40.18	468.37	16.28	99.55	218.88
16019	-8.14	14.36	-5.50	86.67	44.91	488.92	14.29	251.40	222.84	88.27	38.23	450.39	18.97	98.91	221.88
16020	-9.30	13.97	-5.50	88.60	48.33	488.41	17.74	242.70	225.73	89.38	35.92	430.59	21.73	97.00	224.69
16021	-10.41	13.52	-5.50	90.16	51.50	486.35	21.76	233.28	228.03	90.45	33.30	409.64	24.73	93.86	227.07
16022	-11.50	13.03	-5.50	91.33	54.36	482.20	26.19	223.41	229.45	91.30	30.38	388.28	28.08	89.69	228.77
16023	-0.66	17.12	-5.50	91.86	40.95	497.19	20.10	255.15	189.23	93.50	48.99	529.58	5.70	77.52	189.22
16024	-1.99	17.11	-5.50	95.23	41.38	496.49	19.10	253.07	190.43	96.45	48.64	524.28	6.63	80.19	190.29
16025	-3.30	17.01	-5.50	98.14	42.64	495.12	17.73	250.13	192.65	98.95	47.49	514.96	8.06	82.87	192.29
16026	-4.59	16.82	-5.50	100.55	44.60	493.07	16.29	246.36	195.69	101.02	45.64	501.98	9.78	85.19	195.11
16027	-5.86	16.55	-5.50	102.42	47.06	490.27	15.22	241.76	199.33	102.63	43.20	485.78	11.71	86.85	198.57
16028	-7.10	16.20	-5.50	103.72	49.79	486.65	15.08	236.36	203.27	103.78	40.31	466.85	13.88	87.60	202.44
16029	-8.31	15.78	-5.50	104.40	52.58	482.10	16.30	230.20	207.21	104.40	37.13	445.74	16.42	87.32	206.45
16030	-9.49	15.29	-5.50	104.44	55.23	476.46	18.88	223.40	210.83	104.43	33.83	423.13	19.44	86.04	210.30
16031	-10.62	14.73	-5.50	103.82	57.61	469.51	22.51	216.13	213.85	103.75	30.55	399.81	23.00	83.97	213.70
16032	-11.72	14.12	-5.50	102.46	59.56	461.03	26.88	208.59	216.06	102.23	27.43	376.63	27.11	81.56	216.40
16033	-0.67	18.89	-5.50	123.23	41.08	456.78	24.31	221.49	179.06	123.44	44.66	483.16	6.32	61.07	180.52
16034	-2.02	18.83	-5.50	125.23	41.01	455.05	23.32	220.52	180.11	125.59	43.66	476.94	5.84	64.09	180.82
16035	-3.35	18.67	-5.50	126.27	41.92	452.56	22.58	218.93	181.82	126.74	42.21	467.50	6.90	67.11	181.88
16036	-4.67	18.42	-5.50	126.37	43.63	449.34	22.32	216.73	184.12	126.93	40.39	455.16	9.24	69.81	183.72
16037	-5.97	18.09	-5.50	125.56	45.95	445.41	22.75	213.95	186.91	126.15	38.25	440.28	12.30	72.00	186.28
16038	-7.24	17.66	-5.50	123.85	48.63	440.82	23.94	210.59	190.02	124.43	35.89	423.29	15.78	73.57	189.43
16039	-8.47	17.16	-5.50	121.31	51.47	435.57	25.85	206.66	193.27	121.80	33.39	404.67	19.51	74.55	192.96
16040	-9.66	16.58	-5.50	118.00	54.26	429.69	28.31	202.20	196.43	118.34	30.84	385.02	23.38	75.09	196.59
16041	-10.82	15.92	-5.50	114.02	56.85	423.18	31.18	197.33	199.30	114.12	28.32	365.04	27.34	75.52	200.06
16042	-11.92	15.19	-5.50	109.45	59.10	416.06	34.31	192.20	201.73	109.24	25.94	345.53	31.31	76.26	203.10
16043	-16.80	9.56	-5.50	76.17	64.44	395.02	50.00	167.97	216.49	72.76	17.17	285.34	49.68	91.89	219.12
16044	-16.20	10.66	-5.50	82.14	64.43	394.16	47.96	171.17	212.76	79.65	17.91	288.33	47.38	89.53	215.60
16045	-15.53	11.71	-5.50	87.78	64.16	393.69	45.94	173.88	209.38	85.95	19.01	292.85</			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
16073	-4.06	10.02	-6.90	49.66	19.94	402.06	18.00	344.80	294.77	174.74	61.65	416.64	14.35	149.36	295.91
16074	-5.19	9.98	-6.90	53.05	21.40	416.11	22.26	340.22	295.63	167.45	59.96	415.95	19.06	153.91	296.51
16075	-6.30	9.92	-6.90	55.84	23.06	432.18	26.50	334.36	296.19	159.24	57.92	414.19	23.87	156.84	296.84
16076	-7.40	9.85	-6.90	57.89	24.93	449.57	30.58	327.00	296.32	150.14	55.49	411.28	28.46	157.83	296.77
16077	-8.49	9.78	-6.90	59.24	27.01	467.36	34.42	317.94	295.88	140.31	52.67	406.97	32.68	156.56	296.16
16078	-9.58	9.70	-6.90	60.07	29.35	484.44	37.91	307.09	294.69	130.09	49.47	400.98	36.41	152.78	294.84
16079	-10.67	9.61	-6.90	60.69	31.96	499.52	40.99	294.49	292.56	119.92	45.92	393.02	39.56	146.30	292.62
16080	-0.65	11.82	-6.90	40.48	19.45	422.05	7.10	336.17	278.55	170.32	59.95	454.54	12.38	125.37	280.63
16081	-1.92	11.97	-6.90	44.55	21.02	430.19	8.79	332.82	278.16	163.64	59.79	459.82	8.58	131.75	279.84
16082	-3.15	11.99	-6.90	48.78	22.82	438.78	12.00	329.40	278.57	157.85	59.32	460.80	8.74	137.34	279.92
16083	-4.35	11.93	-6.90	52.77	24.90	448.43	15.80	325.50	279.37	152.14	58.52	458.78	12.31	141.84	280.43
16084	-5.52	11.82	-6.90	56.27	27.17	459.24	19.78	320.76	280.27	146.08	57.33	454.47	16.93	145.03	281.06
16085	-6.66	11.66	-6.90	59.11	29.55	470.93	23.79	314.90	281.05	139.48	55.71	448.22	21.62	146.65	281.60
16086	-7.78	11.48	-6.90	61.30	31.96	482.98	27.71	307.70	281.52	132.38	53.61	440.17	26.06	146.42	281.86
16087	-8.88	11.28	-6.90	62.93	34.36	494.65	31.46	299.04	281.51	124.95	51.03	430.34	30.13	144.11	281.69
16088	-9.96	11.05	-6.90	64.18	36.73	504.99	34.98	288.91	280.86	117.50	47.98	418.72	33.77	139.56	280.94
16089	-11.02	10.81	-6.90	65.28	39.09	512.92	38.18	277.45	279.41	110.34	44.55	405.27	36.94	132.74	279.47
16090	-0.66	13.60	-6.90	47.26	27.67	469.23	3.80	317.16	260.71	146.59	57.76	499.78	12.44	119.74	262.21
16091	-1.96	13.73	-6.90	51.59	29.44	475.70	5.29	313.79	259.92	141.45	58.41	503.13	7.92	124.29	261.18
16092	-3.23	13.74	-6.90	55.84	31.47	482.05	8.36	310.15	260.16	137.00	58.47	501.82	6.70	128.42	261.17
16093	-4.48	13.65	-6.90	59.75	33.71	488.49	11.99	306.01	261.09	132.68	57.93	496.70	9.78	131.71	261.86
16094	-5.69	13.49	-6.90	63.12	36.09	495.06	15.89	301.12	262.43	128.19	56.84	488.38	14.29	133.83	262.97
16095	-6.88	13.27	-6.90	65.85	38.50	501.58	19.89	295.27	263.89	123.44	55.21	477.33	18.90	134.49	264.23
16096	-8.03	13.00	-6.90	67.95	40.81	507.70	23.88	288.30	265.19	118.47	53.06	463.89	23.26	133.43	265.37
16097	-9.15	12.69	-6.90	69.51	42.94	512.86	27.76	280.14	266.09	113.42	50.41	448.37	27.26	130.46	266.19
16098	-10.24	12.34	-6.90	70.66	44.82	516.38	31.47	270.84	266.38	108.48	47.33	431.08	30.91	125.52	266.47
16099	-11.31	11.96	-6.90	71.49	46.47	517.47	34.98	260.58	265.90	103.75	43.89	412.37	34.27	118.68	266.10
16100	-0.66	15.37	-6.90	61.11	40.96	509.31	1.26	295.79	238.71	125.42	60.71	537.80	12.06	111.30	239.33
16101	-1.98	15.44	-6.90	65.17	42.24	512.28	1.54	292.79	238.20	122.70	61.47	537.34	7.25	114.61	238.75
16102	-3.28	15.41	-6.90	68.87	43.74	514.73	4.60	289.32	238.85	120.31	61.43	532.33	4.99	117.60	239.27
16103	-4.56	15.29	-6.90	72.10	45.42	516.69	8.11	285.29	240.39	117.95	60.62	523.27	7.62	119.90	240.67
16104	-5.81	15.08	-6.90	74.73	47.17	518.14	11.96	280.58	242.56	115.42	59.14	510.65	12.01	121.18	242.71
16105	-7.03	14.79	-6.90	76.69	48.88	518.96	16.03	275.04	245.04	112.66	57.06	494.94	16.51	121.15	245.10
16106	-8.21	14.44	-6.90	77.98	50.41	518.94	20.17	268.58	247.50	109.66	54.47	476.62	20.81	119.58	247.54
16107	-9.36	14.04	-6.90	78.66	51.69	517.77	24.26	261.17	249.64	106.49	51.45	456.19	24.83	116.35	249.75
16108	-10.47	13.58	-6.90	78.82	52.64	515.05	28.22	252.91	251.15	103.21	48.08	434.25	28.61	111.54	251.43
16109	-11.55	13.08	-6.90	78.54	53.26	510.37	31.99	243.95	251.82	99.81	44.46	411.46	32.21	105.40	252.33
16110	-0.67	17.13	-6.90	82.56	53.05	524.08	4.85	271.46	214.78	113.67	65.04	549.60	10.67	99.35	214.78
16111	-2.00	17.15	-6.90	85.66	53.28	523.30	3.84	269.16	214.87	113.45	65.06	545.21	6.45	101.93	214.80
16112	-3.33	17.06	-6.90	88.09	53.82	521.84	4.69	266.29	216.08	113.04	64.39	536.77	4.74	104.27	215.91
16113	-4.63	16.88	-6.90	89.80	54.59	519.69	7.40	262.82	218.25	112.26	63.08	524.63	7.44	106.04	217.98
16114	-5.90	16.61	-6.90	90.75	55.49	516.81	11.00	258.71	221.15	111.02	61.21	509.18	11.66	106.92	220.85
16115	-7.15	16.26	-6.90	90.92	56.38	513.17	14.98	253.88	224.52	109.24	58.86	490.84	16.07	106.72	224.28
16116	-8.36	15.83	-6.90	90.34	57.16	508.70	19.09	248.28	228.06	106.94	56.10	470.10	20.36	105.27	227.99
16117	-9.53	15.34	-6.90	89.09	57.73	503.31	23.17	241.90	231.43	104.18	53.01	447.54	24.44	102.58	231.63
16118	-10.66	14.78	-6.90	87.29	58.03	496.87	27.10	234.84	234.30	101.03	49.65	423.87	28.30	98.84	234.84
16119	-11.75	14.15	-6.90	85.04	58.00	489.27	30.85	227.23	236.44	97.53	46.12	399.89	31.98	94.43	237.34
16120	-0.68	18.90	-6.90	110.27	53.03	490.79	6.13	244.30	185.49	119.33	59.31	511.59	8.14	82.65	186.00
16121	-2.02	18.84	-6.90	111.72	52.86	489.13	6.08	243.07	186.27	120.03	59.17	506.50	6.10	85.08	186.27
16122	-3.36	18.69	-6.90	112.08	53.24	486.78	8.40	241.18	188.13	119.79	58.81	498.17	7.58	87.52	187.70
16123	-4.68	18.44	-6.90	111.40	54.05	483.78	11.92	238.66	191.02	118.61	58.21	486.86	11.32	89.64	190.29
16124	-5.98	18.11	-6.90	109.75	55.16	480.17	15.85	235.51	194.81	116.53	57.35	472.87	15.65	91.18	193.98
16125	-7.25	17.69	-6.90	107.19	56.42	475.97	19.81	231.69	199.29	113.60	56.19	456.49	19.98	91.98	198.58
16126	-8.49	17.18	-6.90	103.84	57.69	471.19	23.60	227.18	204.22	109.94	54.70	438.12	24.07	91.93	203.81
16127	-9.68	16.60	-6.90	99.87	58.81	465.87	27.11	221.99	209.27	105.72	52.82	418.22	27.82	91.05	209.30
16128	-10.83	15.94	-6.90	95.48	59.66	460.04	30.27	216.23	214.12	101.17	50.53	397.40	31.19	89.53	214.64
16129	-11.93	15.20	-6.90	90.90	60.14	453.74	33.12	210.12	218.45	96.48	47.83	376.43	34.23	87.70	219.45
16130	-16.80	9.56	-6.90	64.34	56.42	437.08	44.43	184.25	241.50	67.08	31.26	294.10	45.51	82.40	243.48
16131	-16.20	10.66	-6.90	68.98	57.41	435.49	43.26	187.14	236.69	72.72	33.30	302.21	44.66	83.34	238.76
16132	-15.53	11.71	-6.90	73.35	58.50	434.66	41.84	189.57	232.20	77.74	35.89	311.54	43.43	83.87	234.28
16133	-15.80	9.49	-6.90	66.19	51.46	478.50	45.67	208.66	256.21	77.42	30.24	319.35	45.73	81.97	257.68
16134	-15.39	10.46	-6.90	70.19	53.52	472.54	43.62	207.31	249.71	80.54	32.24	325.86	44.12	82.91	251.36
16135	-14.94	11.40	-6.90	73.83	55.47	466.85	41.52	205.99	243.67	83.26	34.69	332.45	42.42	83.63	245.42
16136	-14.79	9.43	-6.90	65.72	46.80	504.51	46.49	229.84	268.44	86.23	31.60	340.38	45.53	93.69	269.23
16137	-14.59	10.26	-6.90	69.57	49.61	498.23	44.19	225.35	261.00	87.23	32.83	345.48	43.63	91.08	262.04
16138	-14.34	11.08	-6.90	73.01	52.21	491.00	41.74	221.49	253.96	88.35	34.53	349.74	41.72	89.30	255.21
16139	-12.95	14.42	-6.90	86.42	59.87	447.82	35.74	204.11	222.25	91.90	44.73	356.98	37.02	86.02	223.69
16140	-12.70	13.52	-6.90	82.66	57.45	481.96	34.14	220.30	238.05	94.13	42.75	378.69	35.24	90.49	239.31
16141	-12.44	12.60	-6.90	77.95	53.43	504.82	35.10	235.90	251.85	96.75	41.29	391.76	35.23	99.51	252.65
16142	-13.88	13.58	-6.90	82.02	59.70	442.38	37.99	198.69	225.55	87.41	41.75	339.60	39.47	84.74	227.30
16143	-13.53	12.88	-6.90	80.01	57.08	475.16	36.85	21							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
16171	-5.60	11.92	-8.30	69.55	30.45	486.53	29.07	334.40	301.69	221.61	67.80	476.28	22.11	174.75	302.40
16172	-6.74	11.76	-8.30	73.61	31.62	499.15	33.83	331.23	302.70	213.85	65.05	471.05	27.15	177.94	303.28
16173	-7.85	11.56	-8.30	76.22	32.76	512.29	38.36	326.90	303.45	205.23	61.86	464.18	32.34	179.11	303.94
16174	-8.94	11.34	-8.30	77.31	33.82	525.22	42.54	321.06	303.76	195.70	58.23	455.65	37.23	177.83	304.20
16175	-10.01	11.10	-8.30	77.05	34.78	536.91	46.26	313.52	303.45	185.38	54.17	445.36	41.60	173.81	303.88
16176	-11.07	10.85	-8.30	75.74	35.65	546.18	49.40	304.37	302.39	174.46	49.82	433.12	45.34	167.06	302.86
16177	-0.67	13.63	-8.30	47.69	30.90	494.65	10.73	326.23	286.64	221.87	70.35	519.73	29.06	143.40	287.83
16178	-2.00	13.80	-8.30	52.30	32.16	503.18	12.51	322.81	285.59	213.12	69.83	525.21	21.90	148.58	286.56
16179	-3.30	13.84	-8.30	57.83	33.59	510.81	16.16	320.06	285.63	206.37	68.95	525.36	17.03	153.62	286.43
16180	-4.56	13.76	-8.30	63.28	35.12	518.11	20.69	317.49	286.42	200.41	67.62	521.28	16.13	158.00	287.11
16181	-5.78	13.60	-8.30	67.96	36.68	525.29	25.54	314.68	287.68	194.53	65.81	513.79	19.13	161.30	288.27
16182	-6.96	13.37	-8.30	71.46	38.15	532.38	30.40	311.26	289.10	188.26	63.52	503.46	24.00	163.12	289.63
16183	-8.11	13.09	-8.30	73.60	39.43	539.13	35.03	306.84	290.38	181.36	60.75	490.72	29.27	163.02	290.88
16184	-9.23	12.77	-8.30	74.41	40.45	545.09	39.27	301.11	291.23	173.78	57.51	475.91	34.28	160.67	291.74
16185	-10.31	12.40	-8.30	74.11	41.14	549.55	43.03	293.94	291.41	165.64	53.83	459.28	38.81	155.93	291.97
16186	-11.36	12.01	-8.30	72.96	41.53	551.76	46.29	285.50	290.78	157.06	49.84	441.16	42.82	148.99	291.44
16187	-0.67	15.39	-8.30	53.59	39.70	538.37	6.41	306.94	266.91	188.69	67.83	561.27	29.58	134.99	267.41
16188	-2.01	15.50	-8.30	57.83	40.91	542.64	8.40	304.03	265.60	182.63	68.19	562.50	22.26	138.74	266.04
16189	-3.33	15.50	-8.30	62.31	42.31	546.01	12.22	301.31	265.55	177.79	67.98	558.85	16.71	142.25	265.95
16190	-4.62	15.38	-8.30	66.49	43.78	548.65	16.80	298.49	266.54	173.46	67.18	550.92	14.67	145.10	266.91
16191	-5.88	15.17	-8.30	69.91	45.22	550.64	21.70	295.33	268.31	169.15	65.81	539.25	16.89	146.96	268.65
16192	-7.10	14.88	-8.30	72.32	46.48	551.97	26.65	291.57	270.55	164.49	63.90	524.33	21.55	147.46	270.91
16193	-8.28	14.52	-8.30	73.57	47.45	552.56	31.40	286.95	272.92	159.31	61.48	506.65	26.85	146.31	273.34
16194	-9.43	14.11	-8.30	73.74	48.03	552.17	35.74	281.24	275.04	153.57	58.55	486.71	31.98	143.26	275.56
16195	-10.53	13.64	-8.30	73.04	48.15	550.46	39.56	274.38	276.54	147.34	55.16	465.09	36.63	138.32	277.19
16196	-11.60	13.12	-8.30	71.74	47.84	547.08	42.86	266.55	277.11	140.70	51.37	442.46	40.79	131.79	277.91
16197	-0.68	17.15	-8.30	68.08	48.88	559.02	3.06	286.88	238.18	159.08	66.53	579.17	27.60	124.13	238.21
16198	-2.02	17.18	-8.30	71.22	49.42	558.90	5.61	284.64	237.15	155.74	67.13	576.12	20.99	126.65	237.15
16199	-3.36	17.11	-8.30	73.96	50.29	558.08	9.80	282.13	237.54	152.91	67.26	568.96	16.03	128.96	237.49
16200	-4.67	16.94	-8.30	76.08	51.36	556.56	14.47	279.27	239.21	150.19	66.89	558.04	14.36	130.69	239.12
16201	-5.95	16.67	-8.30	77.41	52.48	554.34	19.35	275.93	241.97	147.27	66.05	543.67	16.59	131.59	241.88
16202	-7.20	16.32	-8.30	77.86	53.49	551.41	24.22	271.98	245.55	143.93	64.72	526.24	21.07	131.39	245.54
16203	-8.41	15.89	-8.30	77.39	54.23	547.74	28.85	267.25	249.64	140.06	62.89	506.13	26.19	129.87	249.78
16204	-9.58	15.39	-8.30	76.11	54.58	543.27	33.08	261.63	253.81	135.68	60.54	483.86	31.17	126.92	254.15
16205	-10.70	14.82	-8.30	74.25	54.42	537.89	36.79	255.15	257.59	130.90	57.63	460.07	35.69	122.61	258.15
16206	-11.79	14.19	-8.30	72.08	53.69	531.53	39.99	247.98	260.55	125.81	54.18	435.59	39.72	117.25	261.32
16207	-0.68	18.90	-8.30	90.78	51.19	539.13	2.07	265.45	195.64	139.84	60.71	555.77	22.40	108.91	195.76
16208	-2.03	18.85	-8.30	92.12	51.32	537.71	5.67	264.05	196.20	138.36	61.49	551.62	17.75	110.76	195.99
16209	-3.37	18.70	-8.30	92.52	52.03	535.68	10.41	262.05	198.30	136.66	62.20	544.16	15.23	112.66	197.78
16210	-4.70	18.46	-8.30	92.00	53.16	533.05	15.32	259.49	201.89	134.60	62.75	533.58	15.87	114.31	201.13
16211	-6.00	18.13	-8.30	90.59	54.52	529.83	20.18	256.33	206.84	132.05	63.05	520.11	19.09	115.45	205.97
16212	-7.27	17.71	-8.30	88.34	55.94	526.03	24.80	252.51	212.92	128.96	63.00	503.95	23.51	115.82	212.09
16213	-8.50	17.20	-8.30	85.32	57.21	521.65	29.05	247.97	219.79	125.34	62.51	485.38	28.17	115.21	219.14
16214	-9.70	16.62	-8.30	81.72	58.12	516.68	32.79	242.66	227.04	121.32	61.44	464.76	32.58	113.52	226.68
16215	-10.84	15.95	-8.30	77.84	58.46	511.16	35.97	236.69	234.15	117.09	59.64	442.63	36.52	110.75	234.12
16216	-11.94	15.22	-8.30	74.01	58.09	505.13	38.64	230.33	240.56	112.86	57.03	419.76	39.99	107.20	240.85
16217	-16.80	9.56	-8.30	54.04	47.19	491.87	48.41	210.66	270.14	86.52	38.84	320.21	51.16	91.58	271.35
16218	-16.21	10.66	-8.30	58.27	48.77	488.83	47.90	211.81	264.38	91.72	40.43	331.66	51.19	93.83	265.56
16219	-15.54	11.72	-8.30	61.74	50.89	487.24	46.72	212.32	259.12	96.23	43.00	344.22	50.30	95.19	260.22
16220	-15.80	9.50	-8.30	58.22	42.40	525.29	52.03	238.79	282.99	108.55	36.25	346.58	52.61	106.27	284.21
16221	-15.40	10.47	-8.30	61.22	44.76	518.89	50.47	234.59	276.04	109.05	38.35	354.81	51.64	104.53	277.31
16222	-14.95	11.41	-8.30	63.59	47.43	513.31	48.54	230.65	269.75	109.35	41.13	363.36	50.16	103.00	270.98
16223	-14.80	9.43	-8.30	63.20	38.59	545.16	54.58	262.29	293.75	129.21	36.09	368.65	53.37	125.98	294.70
16224	-14.60	10.27	-8.30	64.46	41.22	539.16	52.58	254.78	286.30	125.63	37.88	374.31	51.89	119.87	287.38
16225	-14.37	11.09	-8.30	65.57	44.08	532.62	50.31	248.24	279.36	122.84	40.23	379.51	50.22	115.04	280.51
16226	-12.96	14.43	-8.30	70.57	56.71	499.36	40.94	224.19	246.03	108.89	53.68	397.95	43.08	103.38	246.62
16227	-12.73	13.54	-8.30	70.00	52.34	525.37	42.59	241.47	262.77	121.20	50.64	413.53	43.08	112.12	263.74
16228	-12.48	12.63	-8.30	70.28	47.20	542.86	45.30	259.24	277.05	134.72	48.00	422.70	43.99	125.25	277.99
16229	-13.89	13.59	-8.30	67.57	55.10	494.05	43.04	219.08	250.60	105.12	50.06	377.96	45.91	99.91	251.40
16230	-13.55	12.90	-8.30	68.04	51.02	519.65	44.74	236.29	264.55	117.02	47.39	394.43	45.86	108.00	265.63
16231	-13.20	12.19	-8.30	68.92	46.54	538.11	47.02	253.48	276.81	129.61	45.28	406.19	46.31	120.27	277.84
16232	-14.76	12.69	-8.30	64.88	53.10	489.15	44.96	215.05	254.46	100.90	46.41	359.52	48.43	97.29	255.41
16233	-14.33	12.21	-8.30	65.90	49.53	513.76	46.62	231.58	265.88	112.28	44.17	376.41	48.28	104.35	267.04
16234	-13.89	11.73	-8.30	67.08	46.01	532.37	48.55	247.58	276.41	123.98	42.75	389.99	48.36	115.06	277.53
16235	0.70	20.20	-2.70	145.55	183.55	298.49	169.92	128.73	244.91	183.64	207.61	327.77	50.07	15.07	266.47
16236	2.10	20.10	-2.70	141.49	182.49	297.59	168.12	129.59	242.89	182.51	210.51	329.07	48.50	17.35	267.82
16237	3.49	19.90	-2.70	139.25	182.29	295.56	164.36	131.21	239.30	185.56	213.97	327.10	47.70	22.63	266.86
16238	4.86	19.62	-2.70	138.38	182.78	292.51	158.99	133.42	234.34	193.45	218.15	321.81	48.16	28.99	263.68
16239	6.20	19.23	-2.70	138.25	183.63	288.48	152.36	135.99	228.11	206.97	223.13	313.09	50.25	35.42	258.28
16240	7.52	18.76	-2.70	138.21	184.52	283.51	144.87	138.65	220.75	226.95	229.05	300.92	54.25	41.63	250.82
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Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
16269	3.90	21.54	-2.70	213.92	24.53	41.56	64.23	44.29	29.09	280.05	26.50	44.33	54.87	6.13	33.04
16270	5.43	21.20	-2.70	204.36	31.43	41.12	68.78	43.39	29.60	279.48	27.54	43.75	64.03	9.45	34.30
16271	6.94	20.76	-2.70	193.22	39.08	40.57	73.10	42.24	30.26	280.11	28.80	42.80	73.64	12.69	35.67
16272	8.41	20.20	-2.70	180.87	47.18	39.91	76.77	40.85	31.01	282.79	30.26	41.51	83.94	15.88	37.17
16273	9.83	19.55	-2.70	167.71	55.54	39.14	79.52	39.22	31.79	288.22	31.97	39.86	95.42	19.12	38.83
16274	11.20	18.79	-2.70	154.21	63.99	38.27	81.24	37.39	32.55	296.89	34.18	37.89	108.68	22.53	40.74
16275	12.52	17.94	-2.70	140.88	72.44	37.30	81.97	35.38	33.21	309.02	37.46	35.64	124.43	26.28	42.98
16276	13.77	17.00	-2.70	128.26	80.90	36.24	81.98	33.22	33.79	324.69	42.66	33.25	143.49	30.47	45.69
16277	14.95	15.97	-2.70	117.00	89.54	35.06	81.69	30.92	34.31	344.00	50.76	30.87	166.70	35.11	49.03
16278	16.06	14.85	-2.70	107.88	98.75	33.83	81.73	28.50	34.87	368.01	63.13	28.83	194.77	40.16	53.22
16279	17.08	13.67	-2.70	102.29	109.15	32.15	83.07	26.13	35.79	399.93	82.93	26.85	227.81	45.92	58.92
16280	18.01	12.41	-2.70	102.99	122.32	32.58	87.70	25.52	38.72	449.80	122.08	27.70	264.70	54.39	70.45
16281	18.85	11.08	-2.70	120.98	140.45	29.09	99.96	32.87	54.48	544.26	230.13	24.90	291.91	76.78	110.31
16282	19.60	9.70	-2.70	185.54	181.98	198.11	136.25	114.37	149.52	640.50	487.99	304.86	203.72	248.95	293.83
16283	0.83	22.71	-2.70	237.93	8.58	22.79	30.15	37.73	2.42	295.83	11.36	23.70	29.67	3.23	1.92
16284	2.47	22.59	-2.70	232.33	12.31	22.69	37.33	37.41	4.73	295.47	12.04	23.84	42.55	5.60	2.19
16285	4.11	22.35	-2.70	223.87	17.76	22.52	46.48	36.94	7.33	293.08	13.67	23.84	56.15	10.12	3.12
16286	5.72	21.99	-2.70	212.94	24.37	22.28	55.67	36.30	9.92	289.47	16.28	23.71	69.71	14.71	4.97
16287	7.30	21.52	-2.70	199.99	31.87	21.97	63.91	35.48	12.42	285.53	19.53	23.46	83.04	19.15	7.69
16288	8.85	20.93	-2.70	185.50	40.03	21.61	70.69	34.47	14.79	282.09	22.99	23.08	96.25	23.40	11.22
16289	10.35	20.23	-2.70	170.03	48.60	21.19	75.78	33.27	16.98	279.83	26.24	22.57	109.66	27.51	15.60
16290	11.79	19.42	-2.70	154.15	57.37	20.71	79.14	31.89	18.95	279.20	28.93	21.91	123.72	31.56	20.90
16291	13.17	18.52	-2.70	138.49	66.19	20.18	80.94	30.37	20.66	280.36	30.77	21.12	138.91	35.68	27.26
16292	14.48	17.51	-2.70	123.66	75.07	19.61	81.57	28.74	22.12	283.28	31.49	20.23	155.69	39.97	34.88
16293	15.71	16.41	-2.70	110.29	84.24	18.98	81.58	27.09	23.35	287.92	30.70	19.28	174.42	44.61	44.03
16294	16.86	15.22	-2.70	99.08	94.19	18.37	81.79	25.54	24.43	294.90	27.23	18.58	195.25	49.94	55.26
16295	17.92	13.96	-2.70	91.19	105.92	17.48	83.41	24.63	25.70	307.89	18.96	17.79	217.82	57.49	70.38
16296	18.89	12.62	-2.70	88.15	121.58	16.36	88.78	25.19	29.21	331.87	34.31	25.72	242.88	69.41	95.24
16297	19.75	11.21	-2.70	108.43	148.49	18.07	112.37	32.24	46.57	416.07	149.52	27.16	277.20	97.43	158.82
16298	20.51	9.75	-2.70	223.68	199.87	192.01	171.68	131.36	149.86	588.72	548.66	447.24	202.64	361.93	472.21
16299	0.87	23.55	-2.70	242.10	4.08	9.20	12.78	33.42	8.06	302.19	4.43	9.20	17.86	9.74	8.47
16300	2.60	23.42	-2.70	236.22	6.78	9.22	27.17	33.24	8.55	301.91	6.32	9.21	37.09	9.23	7.93
16301	4.32	23.17	-2.70	226.81	11.56	9.25	41.59	33.06	9.38	297.91	11.23	9.28	56.37	12.25	6.53
16302	6.01	22.78	-2.70	214.33	18.11	9.29	54.55	32.81	10.48	290.95	18.77	9.41	74.84	16.89	4.39
16303	7.67	22.28	-2.70	199.36	26.07	9.34	65.47	32.44	11.80	281.88	28.47	9.62	92.15	22.10	2.85
16304	9.29	21.65	-2.70	182.54	35.02	9.40	74.04	31.89	13.24	271.47	40.00	9.93	108.20	27.58	5.79
16305	10.86	20.91	-2.70	164.55	44.52	9.49	80.15	31.13	14.74	260.34	53.11	10.36	123.03	33.34	11.60
16306	12.37	20.05	-2.70	146.11	54.20	9.60	83.86	30.11	16.21	248.85	67.56	10.92	136.70	39.47	19.36
16307	13.81	19.09	-2.70	127.96	63.79	9.73	85.41	28.82	17.58	237.10	83.04	11.62	149.20	46.13	29.32
16308	15.18	18.02	-2.70	110.78	73.22	9.89	85.27	27.31	18.77	224.90	99.00	12.51	160.30	53.50	42.04
16309	16.47	16.85	-2.70	95.17	82.74	10.07	84.04	25.63	19.78	211.87	114.23	13.68	169.34	61.95	58.45
16310	17.66	15.59	-2.70	81.65	92.97	10.29	82.49	24.00	20.65	197.72	125.84	15.84	174.81	72.71	80.43
16311	18.76	14.25	-2.70	70.56	105.17	10.32	81.77	22.74	21.74	182.99	126.92	19.30	174.62	87.01	112.88
16312	19.76	12.83	-2.70	65.27	122.30	12.74	83.50	23.58	24.56	171.71	101.67	36.63	163.10	119.34	167.08
16313	20.65	11.34	-2.70	55.57	158.00	10.89	95.55	24.87	35.78	163.85	75.61	62.17	141.38	143.27	291.84
16314	21.43	9.79	-2.70	281.36	328.03	226.57	255.31	163.30	190.92	416.02	530.40	707.74	222.28	652.68	930.65
16315	0.70	20.20	-4.10	157.07	14.77	345.68	54.55	162.69	181.98	176.98	17.27	372.22	20.88	26.57	192.04
16316	2.10	20.10	-4.10	152.79	19.02	344.81	55.70	162.18	181.21	174.66	18.97	372.47	24.28	23.67	193.49
16317	3.49	19.90	-4.10	147.35	25.03	342.92	56.85	161.45	180.17	172.09	20.92	369.50	27.77	22.55	194.44
16318	4.86	19.62	-4.10	140.88	31.65	340.12	57.91	160.48	178.92	169.62	23.18	363.31	31.31	23.79	194.82
16319	6.20	19.23	-4.10	133.51	38.42	336.48	58.81	159.25	177.48	167.59	25.86	353.92	34.94	27.28	194.59
16320	7.52	18.76	-4.10	125.41	45.13	332.08	59.47	157.73	175.88	166.31	29.13	341.37	38.74	32.52	193.73
16321	8.80	18.19	-4.10	116.76	51.67	326.99	59.83	155.93	174.12	165.98	33.20	325.83	42.83	39.17	192.32
16322	10.04	17.54	-4.10	107.78	58.02	321.26	59.88	153.80	172.23	166.61	38.41	307.69	47.31	47.21	190.46
16323	11.23	16.80	-4.10	98.72	64.14	314.93	59.65	151.36	170.19	167.89	45.12	287.65	52.17	56.85	188.32
16324	12.37	15.98	-4.10	89.87	70.07	307.96	59.21	148.53	168.05	169.10	53.85	266.94	57.20	68.19	186.12
16325	13.44	15.08	-4.10	81.65	75.87	300.55	58.73	145.11	166.10	169.08	65.44	247.76	62.02	81.45	184.18
16326	14.46	14.11	-4.10	74.48	81.61	292.69	58.34	140.91	164.52	165.89	80.02	232.94	65.80	96.32	183.44
16327	15.40	13.08	-4.10	69.18	87.28	284.47	57.95	135.63	163.97	156.52	98.42	225.54	66.84	111.76	184.62
16328	16.27	11.98	-4.10	67.80	92.60	275.42	56.96	129.23	165.76	137.47	121.01	225.62	62.25	129.34	191.26
16329	17.06	10.82	-4.10	72.46	95.10	280.24	54.30	126.86	176.60	103.05	144.66	238.66	51.99	157.11	212.14
16330	17.76	9.62	-4.10	83.25	89.30	306.32	44.22	136.04	167.85	71.35	147.93	261.21	45.15	208.09	208.62
16331	0.74	21.03	-4.10	176.24	48.71	236.17	52.11	138.46	154.34	200.67	57.87	252.24	22.63	16.95	164.71
16332	2.22	20.93	-4.10	171.17	47.73	235.47	55.54	137.90	153.72	197.80	58.14	252.51	30.97	14.79	166.63
16333	3.69	20.72	-4.10	164.13	46.71	234.00	60.07	137.05	152.80	193.77	57.82	250.63	39.50	15.63	168.04
16334	5.14	20.41	-4.10	155.36	46.02	231.86	65.00	135.86	151.66	189.08	57.08	246.59	47.61	19.29	168.85
16335	6.57	19.99	-4.10	145.13	46.08	229.10	69.73	134.34	150.31	184.31	56.10	240.40	55.05	24.68	169.05
16336	7.96	19.48	-4.10	133.75	47.24	225.78	73.80	132.45	148.79	180.05	55.08	232.07	61.67	31.12	168.67
16337	9.32	18.87	-4.10	121.57	49.71	221.92	76.93	130.16	147.09	176.85	54.33	221.69	67.43	38.55	167.79
16338	10.62	18.17	-4.10	108.97	53.48	217.55	78.96	127.48	145.20	175.10	54.25	209.48	72.33	47.33	166.60
16339	11.88	17.37	-4.10	96.36	58.38	212.69	79.86	124.38	143.14	174.86	55.47	195.86	76.36	57.96	165.35
16340	13.07	16.49	-												



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
16367	7.30	21.52	-4.10	173.49	18.23	85.22	63.49	95.33	49.51	215.55	14.35	91.19	71.11	42.84	53.81
16368	8.85	20.93	-4.10	158.37	24.56	83.69	71.00	92.09	54.31	203.25	14.26	89.40	80.86	53.03	60.62
16369	10.35	20.23	-4.10	142.15	32.64	81.91	76.36	88.25	59.07	190.34	16.70	87.02	88.47	63.52	69.03
16370	11.79	19.42	-4.10	125.44	41.53	79.90	79.53	83.86	63.53	177.31	20.21	84.07	93.81	74.76	79.44
16371	13.17	18.52	-4.10	108.89	50.69	77.67	80.64	78.98	67.53	164.36	23.00	80.61	96.66	87.33	92.47
16372	14.48	17.51	-4.10	93.12	59.86	75.29	80.00	73.73	71.01	151.22	23.30	76.81	96.53	101.84	109.15
16373	15.71	16.41	-4.10	78.73	69.03	72.86	78.07	68.26	74.08	137.00	18.89	73.17	92.36	119.01	131.08
16374	16.86	15.22	-4.10	66.35	78.49	70.56	75.45	62.79	77.14	120.34	7.89	70.63	81.94	140.10	161.29
16375	17.92	13.96	-4.10	57.14	88.81	69.60	73.06	57.95	81.67	99.20	26.60	73.72	61.58	168.50	206.71
16376	18.89	12.62	-4.10	52.76	101.44	71.96	73.05	55.98	92.39	73.30	84.78	92.64	26.43	211.17	283.65
16377	19.75	11.21	-4.10	65.81	118.24	110.90	84.63	74.23	128.55	29.59	180.46	229.72	47.07	306.77	449.86
16378	20.51	9.75	-4.10	113.93	114.76	187.54	82.04	135.34	129.53	55.26	183.84	523.10	71.81	543.05	572.67
16379	0.87	23.55	-4.10	223.89	3.57	40.02	10.93	94.10	7.68	259.67	5.35	40.94	11.75	12.76	7.43
16380	2.60	23.42	-4.10	218.25	3.26	39.85	25.64	93.39	12.74	256.48	4.21	41.56	29.79	16.00	8.88
16381	4.32	23.17	-4.10	209.15	6.35	39.57	39.93	92.33	19.15	248.98	5.53	42.31	46.94	26.99	12.18
16382	6.01	22.78	-4.10	197.01	12.44	39.19	52.62	90.83	25.80	237.78	11.48	43.23	62.46	39.46	17.60
16383	7.67	22.28	-4.10	182.37	20.27	38.74	63.21	88.81	32.38	223.55	19.81	44.36	75.81	52.24	25.28
16384	9.29	21.65	-4.10	165.84	29.16	38.24	71.37	86.21	38.74	207.02	29.46	45.71	86.60	65.33	35.43
16385	10.86	20.91	-4.10	148.10	38.59	37.72	76.94	82.97	44.72	188.83	39.67	47.29	94.55	79.01	48.47
16386	12.37	20.05	-4.10	129.84	48.10	37.21	79.96	79.08	50.17	169.46	49.65	49.11	99.36	93.79	65.13
16387	13.81	19.09	-4.10	111.76	57.30	36.77	80.60	74.58	54.98	149.13	58.32	51.23	100.62	110.25	86.58
16388	15.18	18.02	-4.10	94.54	66.00	36.47	79.23	69.58	59.08	127.64	64.05	53.84	97.55	129.09	114.56
16389	16.47	16.85	-4.10	78.74	74.21	36.41	76.34	64.32	62.58	104.27	63.92	57.77	88.56	151.42	151.95
16390	17.66	15.59	-4.10	64.90	82.28	36.66	72.56	59.23	65.88	77.94	62.51	65.21	70.83	179.75	204.18
16391	18.76	14.25	-4.10	53.48	91.13	38.22	68.99	55.21	70.45	47.36	19.85	85.02	39.76	218.61	283.92
16392	19.76	12.83	-4.10	47.61	103.58	42.54	67.75	54.20	80.29	13.84	54.85	131.90	15.04	286.87	419.21
16393	20.65	11.34	-4.10	39.08	130.41	87.75	75.18	61.48	115.45	35.37	193.83	360.43	89.44	381.24	700.95
16394	21.43	9.79	-4.10	142.77	170.93	174.95	119.52	141.54	143.52	116.53	222.14	800.09	138.32	836.99	1072.18
16395	0.70	20.20	-5.50	146.63	27.29	383.35	24.58	194.05	160.47	149.86	27.53	404.91	9.41	43.67	165.51
16396	2.10	20.10	-5.50	142.86	29.40	382.55	27.15	193.17	160.64	145.98	28.35	404.05	14.12	42.39	167.26
16397	3.49	19.90	-5.50	137.70	32.44	380.87	30.24	191.66	161.36	140.60	29.26	400.21	18.55	43.02	169.44
16398	4.86	19.62	-5.50	131.33	36.11	378.44	33.39	189.54	162.65	133.90	30.15	393.42	22.38	45.72	171.95
16399	6.20	19.23	-5.50	123.97	40.15	375.32	36.23	186.82	164.43	126.09	30.93	383.75	25.40	50.30	174.72
16400	7.52	18.76	-5.50	115.86	44.34	371.57	38.54	183.50	166.61	117.31	31.53	371.28	27.47	56.47	177.69
16401	8.80	18.19	-5.50	107.27	48.52	367.25	40.17	179.61	169.06	107.67	31.98	356.20	28.45	64.02	180.83
16402	10.04	17.54	-5.50	98.52	52.58	362.40	41.11	175.17	171.60	97.16	32.60	338.87	28.24	72.97	184.14
16403	11.23	16.80	-5.50	89.96	56.43	357.08	41.45	170.27	174.08	85.68	34.12	319.95	26.77	83.52	187.70
16404	12.37	15.98	-5.50	82.04	60.07	351.37	41.35	164.99	176.40	73.30	37.79	300.56	24.12	95.88	191.66
16405	13.44	15.08	-5.50	75.31	63.45	345.48	41.19	159.33	178.63	61.41	45.61	282.48	21.86	110.48	196.21
16406	14.46	14.11	-5.50	70.34	66.72	339.77	41.30	153.22	180.99	57.48	58.15	268.12	25.17	127.41	202.46
16407	15.40	13.08	-5.50	68.71	69.79	334.65	41.90	146.69	184.01	80.19	75.23	259.62	40.29	145.94	211.17
16408	16.27	11.98	-5.50	72.90	72.00	333.11	43.09	140.22	188.62	139.93	93.52	258.99	66.72	166.14	225.20
16409	17.06	10.82	-5.50	87.13	73.29	338.54	44.36	136.49	190.79	234.67	102.68	263.82	93.26	187.06	238.98
16410	17.76	9.62	-5.50	111.79	75.32	347.53	43.91	139.77	183.52	349.30	108.22	266.98	95.80	207.92	239.73
16411	0.74	21.03	-5.50	163.77	16.95	313.99	20.34	177.35	135.33	170.02	16.94	330.38	10.01	33.00	141.10
16412	2.22	20.93	-5.50	159.53	19.22	313.16	25.23	176.36	135.75	165.69	18.55	329.98	17.69	33.52	143.39
16413	3.69	20.72	-5.50	153.37	22.65	311.50	31.15	174.63	136.88	159.18	20.64	327.11	24.88	37.03	146.24
16414	5.14	20.41	-5.50	145.55	26.93	309.13	36.99	172.18	138.69	150.78	22.99	321.83	31.12	42.87	149.57
16415	6.57	19.99	-5.50	136.35	31.78	306.13	42.15	169.01	141.11	140.79	25.36	314.20	36.09	50.31	153.33
16416	7.96	19.48	-5.50	126.11	36.98	302.54	46.29	165.15	143.99	129.48	27.50	304.23	39.55	58.91	157.50
16417	9.32	18.87	-5.50	115.17	42.31	298.37	49.25	160.60	147.15	117.08	29.20	292.04	41.30	68.61	162.12
16418	10.62	18.17	-5.50	103.93	47.60	293.67	51.00	155.42	150.37	103.70	30.49	277.85	41.13	79.68	167.26
16419	11.88	17.37	-5.50	92.85	52.72	288.48	51.66	149.69	153.46	89.27	31.87	262.15	38.82	92.62	173.17
16420	13.07	16.49	-5.50	82.42	57.61	282.91	51.47	143.50	156.35	73.61	34.83	245.82	34.16	108.07	180.25
16421	14.20	15.53	-5.50	73.20	62.31	277.22	50.85	136.87	159.11	57.31	42.14	230.24	28.08	126.61	189.29
16422	15.26	14.48	-5.50	65.89	67.02	271.83	50.30	129.73	162.11	47.31	56.62	217.38	27.18	148.49	201.75
16423	16.24	13.37	-5.50	62.14	71.74	267.59	50.43	121.96	166.22	67.47	79.56	209.09	45.45	173.65	220.09
16424	17.14	12.19	-5.50	65.49	75.80	269.03	52.22	114.62	173.36	131.19	106.91	209.33	83.53	202.39	248.62
16425	17.95	10.95	-5.50	83.31	79.50	280.80	55.37	112.98	177.53	240.11	121.48	224.13	125.68	236.46	278.42
16426	18.68	9.66	-5.50	116.16	83.51	295.20	54.08	125.61	167.40	374.89	128.60	260.80	129.58	277.07	285.24
16427	0.78	21.87	-5.50	179.04	8.75	242.72	16.32	162.71	100.98	188.46	11.34	254.44	10.36	21.87	106.25
16428	2.35	21.76	-5.50	174.34	10.27	241.88	24.29	161.60	101.93	183.69	12.78	254.55	21.15	26.11	108.90
16429	3.90	21.54	-5.50	167.22	13.16	240.29	33.30	159.66	104.02	176.03	14.55	252.80	31.20	34.45	112.52
16430	5.43	21.20	-5.50	157.98	17.42	238.07	41.76	156.89	107.12	165.87	16.84	249.28	39.92	44.49	117.03
16431	6.94	20.76	-5.50	147.01	22.80	235.29	49.02	153.29	111.04	153.61	19.61	244.02	46.87	55.27	122.44
16432	8.41	20.20	-5.50	134.69	28.95	231.98	54.72	148.87	115.52	139.68	22.52	237.02	51.71	66.58	128.79
16433	9.83	19.55	-5.50	121.47	35.53	228.13	58.71	143.65	120.28	124.46	25.13	228.29	54.16	78.66	136.23
16434	11.20	18.79	-5.50	107.84	42.20	223.76	60.95	137.69	125.03	108.24	27.05	217.94	53.95	92.08	145.01
16435	12.52	17.94	-5.50	94.34	48.72	218.93	61.60	131.09	129.51	91.05	28.23	206.26	50.75	107.63	155.64
16436	13.77	17.00	-5.50	81.55	54.96	213.77	60.93	123.97	133.62	72.68	29.76	193.85	44.19	126.23	169.02
16437	14.95	15.97	-5.50	70.01	60.97	208.55	59.43	116.43	137.46	53.08	35.26				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
16465	10.86	20.91	-5.50	135.97	37.37	99.00	69.89	124.49	71.81	138.08	34.10	121.55	70.34	112.98	78.56
16466	12.37	20.05	-5.50	118.61	45.71	96.01	72.20	118.61	80.30	115.89	39.64	122.49	69.59	132.97	100.39
16467	13.81	19.09	-5.50	101.35	53.50	92.87	72.14	111.83	87.97	92.81	42.55	123.68	64.65	155.36	128.43
16468	15.18	18.02	-5.50	84.86	60.46	89.85	70.04	104.32	94.74	69.02	41.29	125.77	54.97	181.37	165.27
16469	16.47	16.85	-5.50	69.74	66.56	87.33	66.41	106.39	100.76	44.88	34.64	130.54	40.07	212.49	214.97
16470	17.66	15.59	-5.50	56.62	72.10	86.11	61.99	88.50	106.62	24.72	29.98	143.58	24.71	251.44	284.38
16471	18.76	14.25	-5.50	46.16	78.26	87.81	58.23	81.21	113.56	31.48	60.45	178.11	40.77	301.40	386.64
16472	19.76	12.83	-5.50	41.38	88.31	99.55	57.43	76.13	124.38	71.00	133.41	279.22	87.39	378.21	545.54
16473	20.65	11.34	-5.50	32.34	111.10	129.48	62.94	68.79	132.32	73.40	231.71	490.86	145.62	436.31	760.63
16474	21.43	9.79	-5.50	162.59	170.91	143.27	125.89	130.72	143.59	468.33	427.51	834.82	355.03	820.65	1068.18
16475	2.10	20.20	-6.90	131.36	44.45	434.42	7.64	223.20	153.38	133.11	46.70	451.93	8.83	65.73	155.91
16476	0.70	20.10	-6.90	128.07	45.74	433.60	12.27	222.19	154.37	129.77	46.89	450.10	13.48	65.79	157.93
16477	3.49	19.90	-6.90	123.37	47.66	431.98	16.94	220.33	156.65	125.00	47.33	445.31	18.18	67.81	161.09
16478	4.86	19.62	-6.90	117.49	50.01	429.67	21.13	217.66	160.17	119.11	47.87	437.68	22.46	71.83	165.31
16479	6.20	19.23	-6.90	110.65	52.59	426.73	24.58	214.21	164.79	112.54	48.39	427.28	26.16	77.69	170.50
16480	7.52	18.76	-6.90	103.09	55.19	423.20	27.15	209.99	170.27	105.89	48.74	414.20	29.29	85.19	176.56
16481	8.80	18.19	-6.90	95.12	57.61	419.10	28.77	205.01	176.33	100.10	48.83	398.63	32.10	94.19	183.40
16482	10.04	17.54	-6.90	87.10	59.65	414.47	29.48	199.31	182.62	96.73	48.73	380.91	35.30	104.83	190.92
16483	11.23	16.80	-6.90	79.51	61.18	409.41	29.48	193.01	188.77	98.16	48.89	361.71	40.17	117.48	199.10
16484	12.37	15.98	-6.90	72.96	62.18	404.09	29.15	186.33	194.51	107.64	50.29	342.08	48.89	132.68	208.04
16485	13.44	15.08	-6.90	68.19	62.64	398.91	29.19	179.45	199.66	128.98	55.16	323.64	63.69	151.29	217.91
16486	14.46	14.11	-6.90	66.33	62.99	394.48	30.41	172.45	204.27	168.03	64.82	308.43	87.06	173.76	229.87
16487	15.40	13.08	-6.90	69.80	63.49	391.92	33.94	165.45	208.66	233.81	79.00	298.67	121.70	198.80	244.34
16488	16.27	11.98	-6.90	83.20	64.53	392.84	41.03	158.23	212.11	340.32	92.63	295.22	168.22	222.99	261.09
16489	17.06	10.82	-6.90	112.51	65.05	397.90	50.51	151.71	213.13	501.85	94.40	295.83	213.25	237.91	275.05
16490	17.76	9.62	-6.90	158.85	64.35	403.89	55.68	148.69	209.84	710.94	86.27	295.38	221.32	236.70	278.49
16491	0.74	21.03	-6.90	146.40	32.96	380.52	7.15	209.83	126.45	146.39	33.81	395.33	7.46	54.62	129.66
16492	2.22	20.93	-6.90	142.63	34.51	379.55	14.09	208.68	127.83	142.21	34.64	394.13	14.02	56.82	132.32
16493	3.69	20.72	-6.90	137.05	36.98	377.71	20.79	206.57	130.81	135.98	36.16	390.26	20.39	61.93	136.37
16494	5.14	20.41	-6.90	129.92	40.16	375.17	26.71	203.52	135.28	128.05	38.19	383.91	25.94	69.36	141.72
16495	6.57	19.99	-6.90	121.54	43.80	372.02	31.57	199.56	141.03	118.88	40.44	375.14	30.35	78.51	148.34
16496	7.96	19.48	-6.90	112.19	47.64	368.26	35.17	194.70	147.73	109.04	42.64	363.98	33.48	88.98	156.14
16497	9.32	18.87	-6.90	102.23	51.40	363.89	37.43	188.93	155.00	99.44	44.53	350.53	35.48	100.70	165.12
16498	10.62	18.17	-6.90	92.09	54.81	358.93	38.38	182.31	162.44	91.59	46.09	335.04	36.96	113.97	175.32
16499	11.88	17.37	-6.90	82.31	57.66	353.46	38.22	174.96	169.65	88.01	47.72	318.02	39.48	129.46	186.91
16500	13.07	16.49	-6.90	73.52	59.86	347.73	37.37	167.12	176.33	92.41	50.78	300.38	45.98	148.11	200.34
16501	14.20	15.53	-6.90	66.48	61.52	342.17	36.58	159.00	182.39	109.34	58.03	283.50	60.19	171.00	216.58
16502	15.26	14.48	-6.90	62.37	63.09	337.55	36.93	150.75	188.00	144.39	72.52	269.31	86.01	198.59	231.19
16503	16.24	13.37	-6.90	63.72	65.23	335.48	40.20	142.28	193.51	206.49	95.47	260.51	127.87	229.80	263.62
16504	17.14	12.19	-6.90	76.77	68.88	338.03	49.15	133.53	198.16	315.00	120.64	259.65	189.40	259.81	293.98
16505	17.95	10.95	-6.90	113.00	72.25	345.35	63.44	126.47	199.60	502.77	130.72	270.17	257.51	278.63	319.98
16506	18.68	9.66	-6.90	176.65	72.33	351.65	70.23	128.95	194.85	767.47	118.24	299.03	270.11	278.06	327.33
16507	0.78	21.87	-6.90	161.20	22.21	320.74	6.77	197.23	94.97	161.12	22.39	333.14	6.82	42.71	98.26
16508	2.35	21.76	-6.90	157.00	23.94	319.61	16.05	196.02	97.03	156.18	23.78	332.73	15.77	48.37	101.45
16509	3.90	21.54	-6.90	150.56	26.90	317.56	24.69	193.77	101.21	148.56	26.27	330.09	24.08	57.97	106.40
16510	5.43	21.20	-6.90	142.23	30.86	314.83	32.28	190.51	107.21	138.68	29.56	325.45	31.12	69.73	113.08
16511	6.94	20.76	-6.90	132.34	35.54	311.51	38.49	186.24	114.64	127.02	33.27	318.90	36.48	82.66	121.48
16512	8.41	20.20	-6.90	121.24	40.59	307.59	43.08	180.96	123.03	114.15	36.97	310.41	39.89	96.39	131.63
16513	9.83	19.55	-6.90	109.32	45.67	303.03	45.94	174.65	131.88	100.91	40.27	299.99	41.33	111.03	143.64
16514	11.20	18.79	-6.90	97.09	50.41	297.82	47.07	167.36	140.73	88.66	42.96	287.77	41.20	127.10	157.77
16515	12.52	17.94	-6.90	85.13	54.53	292.07	46.67	159.22	149.17	79.79	45.35	274.15	40.88	145.57	174.56
16516	13.77	17.00	-6.90	74.11	57.87	286.03	45.20	150.47	156.93	78.24	48.99	259.86	43.71	167.71	195.10
16517	14.95	15.97	-6.90	64.78	60.59	280.23	43.39	141.38	163.98	89.11	57.53	246.23	55.21	194.82	221.25
16518	16.06	14.85	-6.90	58.21	63.24	275.61	42.46	132.14	170.61	117.61	76.09	235.57	80.90	227.64	255.67
16519	17.08	13.67	-6.90	56.53	66.98	274.17	44.64	122.67	177.27	169.89	108.42	232.77	125.84	265.65	300.81
16520	18.01	12.41	-6.90	66.15	74.32	278.36	54.73	112.92	183.11	265.92	152.66	248.12	199.59	303.60	353.95
16521	18.85	11.08	-6.90	107.77	83.33	287.02	76.70	106.39	185.29	470.86	185.16	303.96	301.64	329.87	404.16
16522	19.60	9.70	-6.90	197.85	84.19	290.46	89.16	121.38	179.16	818.41	169.04	420.38	334.08	345.65	425.97
16523	0.83	22.71	-6.90	175.13	11.81	259.60	6.88	185.95	60.79	176.07	11.81	270.08	6.86	30.39	63.38
16524	2.47	22.59	-6.90	170.54	13.70	258.33	18.21	184.77	64.10	170.49	13.62	270.72	18.14	41.25	66.85
16525	4.11	22.35	-6.90	163.30	17.11	256.09	28.66	182.62	70.34	161.62	16.83	269.71	28.36	56.51	72.61
16526	5.72	21.99	-6.90	153.82	21.81	253.18	37.81	179.46	78.70	149.96	21.10	267.34	36.90	73.05	80.69
16527	7.30	21.52	-6.90	142.50	27.48	249.69	45.30	175.26	88.43	136.02	25.99	263.71	43.28	89.97	91.19
16528	8.85	20.93	-6.90	129.71	33.71	245.60	50.84	170.01	98.86	120.40	30.95	258.76	47.15	107.18	104.29
16529	10.35	20.23	-6.90	115.89	40.07	240.83	54.28	163.66	109.46	103.88	35.42	252.46	48.34	125.03	120.30
16530	11.79	19.42	-6.90	101.61	46.09	235.37	55.57	156.21	119.75	87.64	38.97	244.90	47.05	144.25	139.78
16531	13.17	18.52	-6.90	87.51	51.40	229.34	54.92	147.78	129.37	73.65	41.64	236.45	44.23	166.02	163.83
16532	14.48	17.51	-6.90	74.29	55.79	223.07	52.76	138.60	138.10	65.51	44.89	227.86	42.84	191.81	194.38
16533	15.71	16.41	-6.90	62.69	59.38	217.16	49.80	129.02	146.03	68.78	53.17	220.82	49.29	223.12	234.47
16534	16.86	15.22	-6.90	53.54	62.82	212.71	47.24	119.30	153.49	87.51	74.00	219.24	71.07	260.96	288.20
16535	1														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
16563	11.23	16.80	-8.30	64.80	61.38	471.65	28.30	215.67	207.45	161.69	57.67	411.93	78.09	152.75	214.74
16564	12.37	15.98	-8.30	60.07	61.12	466.11	28.38	208.32	216.36	183.00	60.53	390.80	93.59	170.86	227.95
16565	13.44	15.08	-8.30	57.86	59.99	460.84	29.22	201.02	224.03	215.70	66.30	370.72	115.31	193.86	242.09
16566	14.46	14.11	-8.30	59.66	58.61	456.71	31.97	194.17	230.32	266.98	75.64	353.54	146.04	222.78	258.39
16567	15.40	13.08	-8.30	58.39	57.84	454.90	38.00	188.06	235.37	349.42	88.22	341.01	189.85	256.53	277.19
16568	16.27	11.98	-8.30	89.55	58.09	456.76	48.74	182.06	238.80	484.90	99.34	334.18	249.87	290.90	298.00
16569	17.06	10.82	-8.30	131.02	57.48	462.78	62.72	175.31	240.37	702.79	95.07	332.43	312.93	315.11	315.01
16570	17.76	9.62	-8.30	196.58	53.94	471.29	71.71	167.47	240.04	1012.40	74.11	332.69	334.13	314.48	320.87
16571	0.74	21.03	-8.30	124.74	38.63	451.64	5.65	237.04	119.81	140.45	40.61	464.57	16.02	82.76	121.40
16572	2.22	20.93	-8.30	121.35	40.01	450.50	11.69	235.84	122.06	139.08	40.95	462.44	21.79	85.58	124.30
16573	3.69	20.72	-8.30	116.30	42.29	448.47	17.74	233.50	126.78	136.64	42.15	457.45	28.30	91.04	129.32
16574	5.14	20.41	-8.30	109.89	45.23	445.80	23.15	230.15	133.80	133.71	44.08	449.92	34.93	98.84	136.47
16575	6.57	19.99	-8.30	102.35	48.53	442.56	27.55	225.81	142.73	130.94	46.53	439.90	41.41	108.56	145.65
16576	7.96	19.48	-8.30	93.92	51.94	438.68	30.73	220.45	153.06	129.14	49.34	427.38	47.76	119.88	156.75
16577	9.32	18.87	-8.30	84.91	55.13	434.10	32.58	214.04	164.24	129.37	52.35	412.43	54.35	132.70	169.67
16578	10.62	18.17	-8.30	75.82	57.74	428.82	33.12	206.58	175.69	133.07	55.57	395.32	61.99	147.33	184.37
16579	11.88	17.37	-8.30	67.33	59.43	422.93	32.60	198.24	186.83	142.06	59.30	376.60	72.09	164.53	200.91
16580	13.07	16.49	-8.30	60.31	60.01	416.73	31.65	189.36	197.08	158.65	64.66	357.26	86.78	185.63	219.58
16581	14.20	15.53	-8.30	55.84	59.64	410.85	31.41	180.46	206.06	186.43	73.83	338.71	108.73	212.23	241.33
16582	15.26	14.48	-8.30	55.44	59.14	406.29	33.47	172.02	213.73	232.08	89.16	322.76	142.06	245.25	267.80
16583	16.24	13.37	-8.30	62.21	60.01	404.52	40.14	164.07	220.08	308.45	112.23	311.44	193.54	283.39	299.81
16584	17.14	12.19	-8.30	83.79	63.36	406.90	54.60	155.80	224.62	446.38	138.33	306.60	272.47	320.72	334.31
16585	17.95	10.95	-8.30	135.89	66.21	413.45	76.89	146.17	226.40	708.47	145.30	309.62	370.27	343.40	361.51
16586	18.68	9.66	-8.30	229.11	62.88	421.36	90.82	137.08	225.12	1128.52	115.69	322.39	406.94	327.30	368.21
16587	0.78	21.87	-8.30	139.73	27.52	398.29	6.30	225.36	85.89	147.82	28.35	410.35	11.46	70.48	87.68
16588	2.35	21.76	-8.30	135.84	29.09	396.77	13.82	224.11	89.13	145.27	29.29	409.08	18.64	76.41	91.33
16589	3.90	21.54	-8.30	129.88	31.81	394.24	21.33	221.67	95.53	140.98	31.48	405.30	26.50	85.98	97.53
16590	5.43	21.20	-8.30	122.29	35.45	391.10	28.00	218.13	104.58	135.59	34.71	399.48	34.04	98.02	106.31
16591	6.94	20.76	-8.30	113.31	39.71	387.46	33.40	213.51	115.59	129.75	38.68	391.69	40.85	111.66	117.62
16592	8.41	20.20	-8.30	103.18	44.23	383.19	37.23	207.75	127.86	124.21	43.11	381.83	46.87	126.44	131.40
16593	9.83	19.55	-8.30	92.24	48.63	378.18	39.34	200.79	140.72	120.07	47.75	369.88	52.43	142.28	147.71
16594	11.20	18.79	-8.30	81.04	52.45	372.37	39.72	192.60	153.61	118.79	52.55	356.04	58.40	159.62	166.72
16595	12.52	17.94	-8.30	70.28	55.28	365.89	38.60	183.34	165.95	122.26	57.93	340.81	66.37	179.49	188.88
16596	13.77	17.00	-8.30	60.90	56.89	359.08	36.63	173.38	177.27	132.73	65.35	325.09	78.79	203.49	215.19
16597	14.95	15.97	-8.30	53.90	57.48	352.62	34.98	163.25	187.33	153.24	77.67	310.27	98.95	233.36	247.54
16598	16.06	14.85	-8.30	50.76	58.08	347.65	35.53	153.45	196.21	189.50	98.89	298.62	131.64	269.92	288.45
16599	17.08	13.67	-8.30	53.98	60.90	345.72	41.26	143.91	203.84	250.91	133.26	293.75	184.71	311.76	338.83
16600	18.01	12.41	-8.30	71.50	69.30	347.94	58.28	133.63	209.33	369.81	184.66	302.24	278.14	352.30	393.30
16601	18.85	11.08	-8.30	132.70	80.19	353.10	92.58	121.55	211.20	666.50	224.29	337.77	428.14	373.48	438.86
16602	19.60	9.70	-8.30	269.45	78.29	356.31	118.89	116.69	208.53	1253.73	188.42	424.00	508.87	345.35	453.87
16603	0.83	22.71	-8.30	154.44	15.22	341.93	6.54	213.83	51.96	157.80	15.44	353.67	8.02	57.16	53.40
16604	2.47	22.59	-8.30	150.06	16.90	340.03	15.98	212.70	57.08	154.08	16.88	353.75	17.59	67.43	57.65
16605	4.11	22.35	-8.30	143.26	20.02	336.98	25.13	210.44	66.21	147.94	19.87	351.86	27.09	82.23	64.95
16606	5.72	21.99	-8.30	134.55	24.34	333.35	33.20	207.09	77.96	140.10	24.15	348.64	35.65	99.13	75.33
16607	7.30	21.52	-8.30	124.21	29.50	329.24	39.74	202.66	91.24	131.13	29.32	344.16	42.84	117.05	88.86
16608	8.85	20.93	-8.30	112.45	35.10	324.50	44.40	197.06	105.24	121.70	35.01	338.25	48.54	135.54	105.65
16609	10.35	20.23	-8.30	99.65	40.67	318.93	46.97	190.18	119.41	112.79	40.87	330.85	52.94	154.66	125.92
16610	11.79	19.42	-8.30	86.35	45.67	312.49	47.38	181.98	133.23	105.88	46.80	322.14	56.81	175.00	150.20
16611	13.17	18.52	-8.30	73.34	49.63	305.30	45.86	172.53	146.27	102.86	53.26	312.61	61.72	197.75	179.47
16612	14.48	17.51	-8.30	61.52	52.28	297.77	42.98	162.17	158.18	105.87	61.92	303.25	70.30	224.65	215.63
16613	15.71	16.41	-8.30	51.92	53.87	290.66	39.85	151.43	168.91	117.47	76.28	295.83	86.02	257.43	261.67
16614	16.86	15.22	-8.30	45.53	55.52	285.17	38.24	140.82	178.66	140.19	101.62	294.00	113.58	296.63	321.10
16615	17.92	13.96	-8.30	44.88	59.96	282.57	41.21	130.28	187.28	183.70	144.84	306.00	159.89	340.75	395.26
16616	18.89	12.62	-8.30	51.32	73.04	283.80	54.36	118.73	193.34	248.56	219.97	346.02	240.76	385.05	478.72
16617	19.75	11.21	-8.30	108.07	103.11	283.66	102.40	104.84	195.06	519.70	344.04	454.10	450.31	407.08	562.36
16618	20.51	9.75	-8.30	316.74	115.67	271.19	162.87	115.06	191.31	1374.47	358.38	697.18	667.90	415.49	625.37
16619	0.87	23.55	-8.30	168.07	4.10	290.99	6.40	202.85	19.47	168.92	4.11	303.15	6.55	43.37	19.20
16620	2.60	23.42	-8.30	163.32	5.89	288.84	18.01	202.00	29.53	164.18	5.90	305.29	18.33	59.39	23.74
16621	4.32	23.17	-8.30	155.82	9.32	285.38	28.78	200.27	43.07	156.42	9.37	306.24	29.18	80.19	31.96
16622	6.01	22.78	-8.30	146.12	14.17	281.28	38.19	197.57	57.63	146.36	14.25	306.72	38.56	102.21	43.91
16623	7.67	22.28	-8.30	134.53	20.05	276.68	45.85	193.87	72.50	134.51	20.11	306.81	46.10	124.54	59.77
16624	9.29	21.65	-8.30	121.27	26.51	271.37	51.38	189.08	87.37	121.40	26.49	306.30	51.55	146.98	79.80
16625	10.86	20.91	-8.30	106.68	33.00	265.14	54.51	183.05	101.96	107.84	32.97	305.12	54.93	169.76	104.50
16626	12.37	20.05	-8.30	91.35	38.92	257.96	55.13	175.61	115.96	95.11	39.33	303.49	56.72	193.53	134.81
16627	13.81	19.09	-8.30	76.07	43.75	250.02	53.39	166.76	129.04	84.96	45.97	302.00	58.20	219.53	172.46
16628	15.18	18.02	-8.30	61.79	47.20	241.83	49.83	156.69	141.00	79.50	54.61	301.85	61.66	249.42	220.40
16629	16.47	16.85	-8.30	49.48	49.50	234.26	45.41	145.90	151.92	80.38	68.92	305.57	70.37	284.62	282.84
16630	17.66	15.59	-8.30	40.10	51.73	228.42	41.34	134.89	162.09	89.63	94.70	319.37	87.27	325.34	364.26
16631	18.76	14.25	-8.30	33.88	56.60	225.24	40.49	123.51	171.28	102.63	139.24	356.90	116.54	368.11	467.26
16632	19.76	12.83	-8.30	37.51	69.92	222.49	44.64	110.92	177.55	150.21	216.01	447.85	159.56		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
16661	-7.96	19.48	-2.70	206.02	88.23	77.82	92.40	63.98	85.46	257.98	73.70	74.06	38.11	22.46	85.30
16662	-6.57	19.99	-2.70	209.27	82.62	78.96	93.07	63.75	87.17	258.40	74.44	77.25	36.14	18.85	87.36
16663	-5.14	20.41	-2.70	211.16	77.31	79.93	93.90	63.48	88.60	258.13	75.20	80.24	35.49	15.77	89.60
16664	-3.69	20.72	-2.70	211.62	72.60	80.69	94.84	63.21	89.68	257.29	76.01	82.90	36.16	13.00	91.90
16665	-2.22	20.93	-2.70	210.61	68.79	81.22	95.87	62.97	90.36	256.03	76.92	85.08	37.98	10.39	94.13
16666	-0.74	21.03	-2.70	208.10	66.21	81.51	96.92	62.79	90.64	254.56	78.00	86.71	40.73	7.87	96.15
16667	-19.60	9.70	-2.70	85.80	106.39	33.58	73.98	25.20	41.41	134.68	21.80	37.80	60.31	52.62	42.11
16668	-18.85	11.08	-2.70	97.79	103.37	34.06	76.70	27.13	40.89	143.79	20.36	36.34	59.57	49.82	41.63
16669	-18.01	12.41	-2.70	110.24	99.69	34.51	79.29	29.05	40.19	154.00	18.70	35.02	58.78	46.99	40.90
16670	-17.08	13.67	-2.70	123.19	95.18	35.06	81.56	30.95	39.46	165.32	17.16	34.05	57.88	44.13	40.09
16671	-16.06	14.85	-2.70	136.51	89.84	35.70	83.18	32.85	38.68	177.59	16.00	33.51	56.69	41.21	39.19
16672	-14.95	15.97	-2.70	149.98	83.72	36.42	83.94	34.75	37.83	190.51	15.35	33.42	55.05	38.22	38.19
16673	-13.77	17.00	-2.70	163.33	76.88	37.19	83.70	36.62	36.90	203.67	15.25	33.77	52.83	35.13	37.06
16674	-12.52	17.94	-2.70	176.32	69.42	37.97	82.37	38.41	35.89	216.74	15.73	34.53	49.98	31.97	35.81
16675	-11.20	18.79	-2.70	188.67	61.55	38.74	79.87	40.06	34.81	229.37	16.72	35.60	46.37	28.73	34.49
16676	-9.83	19.55	-2.70	200.01	53.51	39.46	76.29	41.53	33.67	241.22	18.00	36.88	42.04	25.44	33.13
16677	-8.41	20.20	-2.70	209.99	45.54	40.12	71.85	42.78	32.52	251.92	19.38	38.26	37.15	22.12	31.86
16678	-6.94	20.76	-2.70	218.30	37.86	40.70	66.97	43.80	31.43	261.21	20.73	39.67	32.15	18.76	30.79
16679	-5.43	21.20	-2.70	224.67	30.67	41.19	62.21	44.58	30.47	268.84	21.92	41.01	27.87	15.36	30.04
16680	-3.90	21.54	-2.70	228.88	24.20	41.59	58.25	45.12	29.68	274.68	22.91	42.21	25.64	11.90	29.67
16681	-2.35	21.76	-2.70	230.73	18.84	41.86	55.78	45.43	29.09	278.65	23.71	43.22	26.75	8.38	29.72
16682	-0.78	21.87	-2.70	230.12	15.51	42.01	55.28	45.50	28.75	280.82	24.37	43.98	31.23	4.85	30.15
16683	-20.51	9.75	-2.70	59.73	106.93	18.40	61.25	19.86	31.43	70.74	33.61	25.17	40.46	31.87	31.29
16684	-19.75	11.21	-2.70	71.08	103.43	18.65	67.80	21.89	30.79	80.76	31.23	24.08	43.98	33.32	30.35
16685	-18.89	12.62	-2.70	83.85	99.14	18.89	73.76	23.91	29.90	92.68	29.57	22.96	47.78	34.66	29.01
16686	-17.92	13.96	-2.70	97.94	93.90	19.15	78.97	25.89	28.81	106.63	28.66	21.97	51.78	35.76	27.30
16687	-16.86	15.22	-2.70	113.14	87.64	19.47	83.03	27.80	27.54	122.55	28.24	21.17	55.62	36.49	25.23
16688	-15.71	16.41	-2.70	129.19	80.44	19.83	85.62	29.63	26.06	140.18	27.91	20.60	58.87	36.73	22.82
16689	-14.48	17.51	-2.70	145.70	72.40	20.22	86.48	31.35	24.37	159.13	27.26	20.28	61.07	36.39	20.12
16690	-13.17	18.52	-2.70	162.28	63.71	20.63	85.42	32.92	22.44	178.89	26.02	20.20	61.82	35.38	17.21
16691	-11.79	19.42	-2.70	178.47	54.64	21.03	82.29	34.31	20.29	198.89	24.11	20.35	60.72	33.68	14.19
16692	-10.35	20.23	-2.70	193.73	45.53	21.42	77.06	35.48	17.92	218.47	21.66	20.66	57.51	31.29	11.19
16693	-8.85	20.93	-2.70	207.55	36.73	21.77	69.88	36.40	15.38	236.92	18.96	21.09	52.09	28.27	8.35
16694	-7.30	21.52	-2.70	219.44	28.59	22.08	61.07	37.09	12.72	253.62	16.37	21.59	44.59	24.67	5.80
16695	-5.72	21.99	-2.70	228.99	21.37	22.34	51.16	37.57	9.98	268.00	14.24	22.11	35.46	20.59	3.70
16696	-4.11	22.35	-2.70	235.84	15.27	22.56	41.07	37.84	7.21	279.62	12.74	22.61	25.74	16.10	2.26
16697	-2.47	22.59	-2.70	239.72	10.51	22.71	32.43	37.95	4.51	288.17	11.83	23.07	18.42	11.33	1.72
16698	-0.83	22.71	-2.70	240.43	7.84	22.79	28.01	37.90	2.24	293.53	11.37	23.44	19.81	6.57	1.79
16699	-21.43	9.79	-2.70	34.59	111.20	11.40	54.63	17.26	25.90	23.56	43.80	12.88	25.32	19.73	33.75
16700	-20.65	11.34	-2.70	44.73	108.44	11.11	63.32	19.41	25.73	31.25	43.69	12.58	31.39	23.54	34.38
16701	-19.76	12.83	-2.70	57.34	104.78	10.89	71.72	21.75	25.32	41.59	45.23	12.24	38.69	27.51	34.28
16702	-18.76	14.25	-2.70	71.82	99.91	10.64	79.34	24.03	24.62	54.89	47.70	11.86	47.01	31.22	33.31
16703	-17.66	15.59	-2.70	88.11	93.65	10.38	85.77	26.19	23.65	71.32	49.99	11.48	55.81	34.47	31.45
16704	-16.47	16.85	-2.70	105.89	85.99	10.15	90.54	28.19	22.42	90.83	51.13	11.12	64.32	37.04	28.75
16705	-15.18	18.02	-2.70	124.77	77.08	9.93	93.26	29.96	20.94	113.09	50.49	10.78	71.67	38.75	25.31
16706	-13.81	19.09	-2.70	144.22	67.15	9.74	93.58	31.45	19.25	137.51	47.80	10.48	77.03	39.46	21.31
16707	-12.37	20.05	-2.70	163.63	56.56	9.59	91.24	32.62	17.41	163.29	43.12	10.22	79.62	39.09	16.99
16708	-10.86	20.91	-2.70	182.31	45.75	9.47	86.09	33.46	15.49	189.41	36.84	10.00	78.85	37.66	12.64
16709	-9.29	21.65	-2.70	199.56	35.26	9.38	78.16	33.98	13.58	214.80	29.55	9.81	74.41	35.22	8.61
16710	-7.67	22.28	-2.70	214.72	25.61	9.31	67.64	34.21	11.80	238.39	22.03	9.65	66.26	31.90	5.48
16711	-6.01	22.78	-2.70	227.21	17.29	9.26	54.90	34.22	10.25	259.23	15.08	9.52	54.64	27.83	4.40
16712	-4.32	23.17	-2.70	236.52	10.72	9.22	40.42	34.08	9.05	276.50	9.50	9.40	40.04	23.19	5.51
16713	-2.60	23.42	-2.70	242.26	6.17	9.20	24.97	33.86	8.28	289.61	5.99	9.31	23.28	18.22	7.07
16714	-0.87	23.55	-2.70	244.15	3.85	9.19	10.72	33.63	7.95	298.19	4.56	9.24	7.66	13.39	8.15
16715	-17.76	9.62	-4.10	85.63	81.69	287.43	70.55	146.07	172.45	109.27	22.03	254.36	66.55	134.73	178.03
16716	-17.06	10.82	-4.10	94.80	80.96	290.33	68.65	148.83	172.73	117.56	23.30	248.91	63.01	124.00	178.38
16717	-16.27	11.98	-4.10	103.58	79.67	293.93	66.76	151.14	173.59	125.44	24.20	246.04	59.14	113.02	179.02
16718	-15.40	13.08	-4.10	112.00	77.69	298.04	64.79	153.03	174.76	133.03	24.59	246.09	54.81	102.01	179.62
16719	-14.46	14.11	-4.10	119.98	74.97	302.57	62.66	154.56	175.94	140.36	23.95	249.32	50.11	91.42	180.00
16720	-13.44	15.08	-4.10	127.52	71.52	307.41	60.63	156.04	177.11	147.45	22.72	255.72	45.20	81.53	180.22
16721	-12.37	15.98	-4.10	134.50	67.25	312.63	58.77	157.48	178.20	154.05	20.84	265.13	40.15	72.87	180.28
16722	-11.23	16.80	-4.10	141.00	62.17	317.97	57.15	158.76	179.24	160.18	18.82	276.91	35.13	65.40	180.39
16723	-10.04	17.54	-4.10	146.87	56.46	323.10	55.63	159.93	180.11	165.67	16.87	290.17	30.11	59.15	180.53
16724	-8.80	18.19	-4.10	151.98	50.23	327.93	54.29	160.95	180.81	170.39	15.19	304.17	25.26	54.00	180.84
16725	-7.52	18.76	-4.10	156.19	43.63	332.40	53.19	161.77	181.38	174.24	13.95	318.20	20.78	49.68	181.47
16726	-6.20	19.23	-4.10	159.37	36.80	336.37	52.43	162.38	181.84	177.12	13.27	331.61	17.05	45.83	182.52
16727	-4.86	19.62	-4.10	161.42	29.94	339.76	52.06	162.80	182.19	179.01	13.18	343.84	14.60	42.13	183.00
16728	-3.49	19.90	-4.10	162.27	23.34	342.46	52.14	163.04	182.41	179.89	13.63	354.40	13.99	38.36	185.84
16729	-2.10	20.10	-4.10	161.84	17.63	344.39	52.63	163.11	182.48	179.77	14.53	362.86	15.24	34.42	187.91
16730	-0.70	20.20	-4.10	160.10	11.17	345.49	53.49	163.00	182.37	178.74	15.78	368.90	17.74	30.42	190.08
16731	-18.68	9.66	-4.10	73.83	82.01	192.48	79.25	115.66	143.35	116.25	15.29	184.09	69.78	144.27	149.39
16732	-17.95	10.95	-4.10	82.08	79.29	194.43	80.80	118.19	143.64	119.74	17.75	178.37	68.82	132.45	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
16759	-5.43	21.20	-4.10	190.88	34.28	140.69	53.37	114.20	90.55	211.59	34.48	139.97	34.83	34.46	90.46
16760	-3.90	21.54	-4.10	196.60	36.06	142.00	44.56	115.48	88.90	219.39	38.94	144.09	24.27	27.15	89.88
16761	-2.35	21.76	-4.10	199.70	37.44	142.94	37.55	116.24	87.69	224.61	42.38	147.48	14.17	19.78	90.13
16762	-0.78	21.87	-4.10	200.01	37.95	143.44	34.45	116.48	86.97	227.02	44.59	149.97	11.46	12.78	91.12
16763	-20.51	9.75	-4.10	39.62	97.30	68.44	60.78	47.70	91.83	53.06	31.43	92.86	43.58	84.54	91.72
16764	-19.75	11.21	-4.10	48.88	93.15	69.56	67.58	53.36	90.41	57.96	31.25	88.23	47.40	85.21	90.11
16765	-18.89	12.62	-4.10	59.65	88.15	70.82	73.85	58.97	88.61	65.11	31.74	83.91	51.41	85.75	87.97
16766	-17.92	13.96	-4.10	71.93	82.18	72.24	79.41	64.47	86.40	74.67	32.51	80.22	55.66	85.93	85.24
16767	-16.86	15.22	-4.10	85.61	75.18	73.83	83.90	69.86	83.71	86.61	32.86	77.38	60.00	85.51	81.87
16768	-15.71	16.41	-4.10	100.50	67.20	75.57	86.98	75.14	80.51	100.80	32.21	75.57	64.08	84.28	77.88
16769	-14.48	17.51	-4.10	116.27	58.39	77.40	88.33	80.24	76.74	116.93	30.18	74.85	67.42	82.01	73.28
16770	-13.17	18.52	-4.10	132.52	48.96	79.26	87.66	85.03	72.42	134.58	26.62	75.21	69.42	78.57	68.17
16771	-11.79	19.42	-4.10	148.73	39.32	81.06	84.74	89.36	67.58	153.14	21.72	76.47	69.46	73.87	62.75
16772	-10.35	20.23	-4.10	164.30	30.06	82.74	79.45	93.11	62.34	171.85	16.06	78.39	67.06	67.92	57.24
16773	-8.85	20.93	-4.10	178.62	22.02	84.26	71.88	96.23	56.89	189.88	10.97	80.69	61.96	60.80	51.96
16774	-7.30	21.52	-4.10	191.13	16.42	85.59	62.25	98.70	51.47	206.41	9.28	83.18	54.14	52.60	47.22
16775	-5.72	21.99	-4.10	201.34	14.46	86.74	51.00	100.53	46.39	220.71	12.23	85.67	43.80	43.47	43.31
16776	-4.11	22.35	-4.10	208.83	15.46	87.66	38.82	101.77	41.98	232.13	16.57	88.02	31.37	33.51	40.45
16777	-2.47	22.59	-4.10	213.28	17.20	88.33	27.10	102.46	38.64	240.18	20.24	90.07	17.62	22.90	38.79
16778	-0.83	22.71	-4.10	214.44	18.17	88.68	19.48	102.62	36.76	244.53	22.50	91.69	6.73	11.94	38.37
16779	-21.43	9.79	-4.10	27.92	108.06	40.55	53.09	39.60	80.52	20.09	49.58	67.27	31.09	57.51	88.62
16780	-20.65	11.34	-4.10	37.19	104.80	39.61	61.33	45.87	79.48	26.55	50.48	63.52	64.39	64.39	88.56
16781	-19.76	12.83	-4.10	48.67	100.64	38.88	69.25	52.38	77.93	35.37	52.08	59.69	42.69	71.38	87.31
16782	-18.76	14.25	-4.10	61.92	95.35	38.25	76.47	58.72	75.74	46.65	53.86	55.85	49.65	77.69	84.60
16783	-17.66	15.59	-4.10	76.90	88.80	37.77	82.59	64.85	72.85	60.58	55.05	52.18	57.10	82.98	80.37
16784	-16.47	16.85	-4.10	93.39	80.95	37.51	87.23	70.66	69.24	77.24	54.92	48.83	64.48	86.82	74.64
16785	-15.18	18.02	-4.10	111.06	71.91	37.44	89.97	76.05	64.88	96.49	52.99	45.91	71.02	88.86	67.59
16786	-13.81	19.09	-4.10	129.43	61.90	37.57	90.46	80.86	59.79	117.89	49.04	43.54	75.90	88.80	59.47
16787	-12.37	20.05	-4.10	147.90	51.23	37.83	88.38	84.98	54.02	140.72	43.13	41.77	78.29	86.50	50.70
16788	-10.86	20.91	-4.10	165.79	40.35	38.19	83.56	88.31	47.67	164.01	35.68	40.56	77.58	81.99	41.72
16789	-9.29	21.65	-4.10	182.37	29.79	38.58	76.00	90.87	40.91	186.70	27.29	39.82	73.39	75.40	33.03
16790	-7.67	22.28	-4.10	197.01	20.11	38.98	65.88	92.68	33.88	207.73	18.75	39.46	65.67	66.96	25.07
16791	-6.01	22.78	-4.10	209.11	11.85	39.35	53.52	93.85	26.75	226.14	10.90	39.40	54.63	56.93	18.23
16792	-4.32	23.17	-4.10	218.19	5.69	39.67	39.37	94.47	19.70	241.10	4.83	39.57	40.71	45.62	12.87
16793	-2.60	23.42	-4.10	223.83	3.05	39.91	24.10	94.66	13.03	251.93	3.45	39.93	24.55	33.49	9.27
16794	-0.87	23.55	-4.10	225.77	3.62	40.03	9.21	94.52	7.78	258.19	5.12	40.40	7.10	21.44	7.53
16795	-17.76	9.62	-5.50	68.66	68.97	331.71	52.71	146.00	197.02	66.91	17.47	254.21	50.75	109.45	200.42
16796	-17.06	10.82	-5.50	75.91	67.71	334.44	52.18	150.95	194.89	74.51	18.25	255.42	49.69	103.18	198.46
16797	-16.27	11.98	-5.50	83.12	66.19	337.73	51.49	155.42	192.95	81.95	19.41	258.93	48.32	97.00	196.53
16798	-15.40	13.08	-5.50	90.36	64.18	341.51	50.55	159.64	191.11	89.37	20.82	264.96	46.56	91.02	194.50
16799	-14.46	14.11	-5.50	97.58	61.78	345.65	49.34	163.78	189.04	96.78	22.23	273.53	44.49	85.52	192.07
16800	-13.44	15.08	-5.50	104.86	58.94	350.03	47.91	168.07	186.71	104.36	23.54	284.48	42.20	80.60	189.24
16801	-12.37	15.98	-5.50	112.05	55.66	354.60	46.22	172.37	184.03	111.91	24.76	297.45	39.67	76.47	185.86
16802	-11.23	16.80	-5.50	119.22	51.78	359.20	44.23	176.57	180.98	119.49	25.52	311.82	36.90	72.93	182.06
16803	-10.04	17.54	-5.50	126.17	47.59	363.61	41.68	180.54	177.67	126.89	25.98	326.80	33.66	69.80	178.02
16804	-8.80	18.19	-5.50	132.60	43.22	367.77	38.60	184.10	174.26	133.81	26.16	341.71	29.89	66.87	173.99
16805	-7.52	18.76	-5.50	138.29	38.89	371.59	35.09	187.17	170.94	139.98	26.16	355.96	25.56	63.90	170.32
16806	-6.20	19.23	-5.50	143.00	34.81	375.00	31.36	189.69	167.90	145.15	26.06	369.07	20.72	60.73	167.28
16807	-4.86	19.62	-5.50	146.57	31.23	377.95	27.77	191.67	165.30	149.13	26.00	380.63	15.52	57.29	165.11
16808	-3.49	19.90	-5.50	148.82	28.43	380.36	24.83	193.11	163.22	151.71	26.06	390.31	10.24	53.61	163.90
16809	-2.10	20.10	-5.50	149.64	26.72	382.13	23.13	194.01	161.72	152.76	26.32	397.78	5.76	49.88	163.64
16810	-0.70	20.20	-5.50	148.90	26.34	383.19	23.09	194.33	160.82	152.14	26.83	402.75	5.44	46.45	164.24
16811	-18.68	9.66	-5.50	57.67	74.77	263.38	53.37	120.48	177.23	56.62	23.93	221.11	48.53	121.30	179.73
16812	-17.95	10.95	-5.50	65.47	72.40	266.23	55.25	126.15	175.21	64.03	24.58	218.84	49.44	114.61	177.88
16813	-17.14	12.19	-5.50	73.55	69.75	269.56	56.86	131.38	173.24	71.78	25.56	218.70	50.06	107.91	175.92
16814	-16.24	13.37	-5.50	82.02	66.60	273.34	58.07	136.34	171.18	79.99	26.72	220.96	50.30	101.26	173.73
16815	-15.26	14.48	-5.50	90.93	62.98	277.48	58.75	141.24	168.87	88.76	27.78	225.69	50.21	94.81	171.12
16816	-14.20	15.53	-5.50	100.26	58.84	281.87	58.81	146.26	166.18	98.18	28.43	232.83	49.78	88.63	167.98
16817	-13.07	16.49	-5.50	109.92	54.19	286.41	58.12	151.37	163.06	108.16	28.52	242.12	48.94	82.78	164.27
16818	-11.88	17.37	-5.50	119.77	49.01	290.94	56.51	156.38	159.51	118.58	27.82	253.00	47.49	77.24	160.03
16819	-10.62	18.17	-5.50	129.53	43.48	295.28	53.76	161.11	155.64	129.14	26.38	264.79	45.13	71.89	155.46
16820	-9.32	18.87	-5.50	138.77	37.85	299.32	49.81	165.37	151.62	139.38	24.40	276.81	41.64	66.62	150.87
16821	-7.96	19.48	-5.50	147.14	32.37	302.99	44.72	169.03	147.69	148.85	22.12	288.48	36.95	61.32	146.62
16822	-6.57	19.99	-5.50	154.30	27.29	306.24	38.71	172.05	144.07	157.15	19.85	299.37	31.09	55.90	143.07
16823	-5.14	20.41	-5.50	159.98	22.84	309.03	32.15	174.41	140.94	163.90	17.88	309.10	24.20	50.36	140.51
16824	-3.69	20.72	-5.50	163.93	19.30	311.31	25.68	176.13	138.45	168.79	16.46	317.38	16.57	44.81	139.06
16825	-2.22	20.93	-5.50	165.96	16.96	312.98	20.46	177.21	136.66	171.56	15.80	323.88	8.72	39.58	138.75
16826	-0.74	21.03	-5.50	165.93	16.14	313.92	18.33	177.63	135.63	171.99	15.98	328.30	4.01	35.33	139.49
16827	-19.60	9.70	-5.50	45.43	81.55	194.50	53.79	94.43	158.14	46.49	32.61	191.52	45.36	121.66	158.56
16828	-18.85	11.08	-5.50	53.60	78.40	197.52	58.02	101.04	155.99	52.86	33.29	185.92	48.16	117.32	156.34
16829	-18.01	12.41	-5.50	62.47	74.78	200.90	61.81	107.37	153.61	60.34	34.15	182.02	50.70	112.87	153.83
16830	-17.08	13.67	-5.50	72.15</											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
16857	-2.47	22.59	-5.50	194.28	5.79	173.84	19.82	150.32	62.84	204.84	6.30	177.32	18.13	28.74	63.15
16858	-0.83	22.71	-5.50	195.59	5.40	174.57	9.06	150.70	60.33	207.58	7.34	180.51	4.75	15.46	62.50
16859	-21.43	9.79	-5.50	26.15	102.08	86.18	48.86	59.67	128.61	17.36	56.90	162.60	31.63	78.93	134.41
16860	-20.65	11.34	-5.50	34.64	98.98	86.08	56.36	68.74	126.21	24.04	58.20	152.07	37.45	87.30	132.60
16861	-19.76	12.83	-5.50	45.09	95.06	86.43	63.54	78.12	123.12	32.57	59.20	141.45	43.58	95.71	129.46
16862	-18.76	14.25	-5.50	57.10	90.15	87.29	70.06	87.18	119.14	42.97	59.72	131.34	49.92	103.13	124.65
16863	-17.66	15.59	-5.50	70.70	84.16	88.66	75.62	95.96	114.22	55.42	59.46	122.10	56.32	109.19	118.13
16864	-16.47	16.85	-5.50	85.74	77.05	90.53	79.91	104.38	108.38	70.11	58.06	114.13	62.48	113.42	109.96
16865	-15.18	18.02	-5.50	101.98	68.90	92.81	82.56	112.29	101.56	87.06	55.19	107.84	67.87	115.32	100.27
16866	-13.81	19.09	-5.50	118.99	59.81	95.34	83.19	119.47	93.75	105.90	50.67	103.53	71.77	114.50	89.35
16867	-12.37	20.05	-5.50	136.16	50.06	97.95	81.46	125.69	85.02	125.97	44.52	101.21	73.45	110.75	77.67
16868	-10.86	20.91	-5.50	152.81	40.04	100.46	77.16	130.82	75.53	146.33	37.08	100.62	72.31	104.07	65.84
16869	-9.29	21.65	-5.50	168.23	30.24	102.78	70.26	134.85	65.53	165.96	28.92	101.32	68.04	94.65	54.49
16870	-7.67	22.28	-5.50	181.83	21.20	104.84	60.95	137.83	55.30	183.91	20.74	102.91	60.63	82.78	44.22
16871	-6.01	22.78	-5.50	193.08	13.40	106.63	49.51	139.88	45.18	199.33	13.23	105.10	50.32	68.77	35.53
16872	-4.32	23.17	-5.50	201.57	7.28	108.12	36.38	141.14	35.56	211.49	7.11	107.64	37.54	52.92	28.84
16873	-2.60	23.42	-5.50	206.91	3.26	109.23	22.07	141.73	27.24	219.75	3.20	110.24	22.92	35.57	24.41
16874	-0.87	23.55	-5.50	208.81	1.75	109.81	7.28	141.78	21.84	223.65	2.46	112.64	7.18	17.27	22.33
16875	-17.76	9.62	-6.90	60.04	61.97	384.37	43.32	159.17	225.89	56.52	35.08	268.24	44.61	93.27	227.76
16876	-17.06	10.82	-6.90	65.27	61.98	386.39	43.49	165.17	222.09	63.69	36.61	275.00	45.01	91.61	224.01
16877	-16.27	11.98	-6.90	70.55	62.10	389.17	43.24	170.36	218.40	70.39	38.71	283.82	44.76	90.00	220.29
16878	-15.40	13.08	-6.90	75.98	62.15	392.72	42.57	175.30	214.64	76.59	41.37	294.74	43.82	88.60	216.37
16879	-14.46	14.11	-6.90	81.64	62.03	396.87	41.64	180.41	210.41	82.45	44.21	307.76	42.44	87.60	211.87
16880	-13.44	15.08	-6.90	87.74	61.49	401.40	40.54	186.03	205.64	88.43	46.83	322.72	40.86	87.02	206.71
16881	-12.37	15.98	-6.90	94.19	60.50	406.11	39.21	191.90	200.10	94.69	49.05	339.15	39.10	86.76	200.65
16882	-11.23	16.80	-6.90	101.00	58.77	410.79	37.51	197.77	193.84	101.35	50.40	356.34	37.10	86.40	193.78
16883	-10.04	17.54	-6.90	107.88	56.55	415.23	35.15	203.36	187.10	108.19	50.99	373.48	34.57	85.67	186.44
16884	-8.80	18.19	-6.90	114.44	53.99	419.33	32.01	208.38	180.22	114.87	50.91	389.87	31.35	84.36	179.03
16885	-7.52	18.76	-6.90	120.37	51.33	423.03	28.09	212.70	173.57	121.01	50.35	404.98	27.41	82.37	172.05
16886	-6.20	19.23	-6.90	125.41	48.78	426.30	23.45	216.27	167.50	126.31	49.51	418.44	22.79	79.74	165.95
16887	-4.86	19.62	-6.90	129.36	46.57	429.11	18.27	219.12	162.31	130.52	48.57	429.98	17.66	76.63	161.06
16888	-3.49	19.90	-6.90	132.06	44.90	431.44	12.82	221.26	158.21	133.47	47.69	439.37	12.33	73.28	157.60
16889	-2.10	20.10	-6.90	133.38	43.94	433.20	7.67	222.69	155.32	134.97	47.04	446.34	7.52	70.07	155.64
16890	-0.70	20.20	-6.90	133.15	43.81	434.27	4.96	223.35	153.70	134.86	46.73	450.64	5.73	67.42	155.11
16891	-18.68	9.66	-6.90	53.28	67.99	324.43	42.88	133.38	210.25	46.08	40.26	246.36	43.09	106.10	211.04
16892	-17.95	10.95	-6.90	59.09	67.17	327.45	44.72	140.94	206.41	53.59	41.44	248.42	44.94	103.70	207.15
16893	-17.14	12.19	-6.90	65.15	66.41	331.06	46.11	147.59	202.45	60.98	42.97	252.82	46.10	101.32	203.05
16894	-16.24	13.37	-6.90	71.59	65.49	335.28	47.08	153.79	198.15	68.19	44.87	259.61	46.54	99.04	198.52
16895	-15.26	14.48	-6.90	78.54	64.24	340.03	47.68	160.05	193.32	75.39	46.84	268.76	46.48	96.93	193.36
16896	-14.20	15.53	-6.90	86.18	62.46	345.11	47.94	166.70	187.79	82.95	48.43	280.13	46.16	94.94	187.37
16897	-13.07	16.49	-6.90	94.49	60.04	350.32	47.72	173.65	181.43	91.13	49.31	293.37	45.61	92.90	180.45
16898	-11.88	17.37	-6.90	103.35	56.86	355.43	46.77	180.57	174.24	99.99	49.17	307.81	44.63	90.52	172.65
16899	-10.62	18.17	-6.90	112.38	53.06	360.25	44.76	187.09	166.46	109.25	48.00	322.64	42.84	87.53	164.28
16900	-9.32	18.87	-6.90	121.11	48.93	364.65	41.52	192.93	158.44	118.42	46.03	337.12	39.96	83.80	155.81
16901	-7.96	19.48	-6.90	129.10	44.74	368.58	37.04	197.92	150.62	127.01	43.55	350.68	35.87	79.34	147.79
16902	-6.57	19.99	-6.90	136.01	40.80	372.04	31.41	202.02	143.39	134.57	40.88	362.94	30.62	74.25	140.74
16903	-5.14	20.41	-6.90	141.57	37.39	375.02	24.84	205.26	137.13	140.76	38.33	373.64	24.37	68.81	135.09
16904	-3.69	20.72	-6.90	145.58	34.73	377.50	17.60	207.66	132.14	145.28	36.15	382.53	17.41	63.41	131.12
16905	-2.22	20.93	-6.90	147.83	33.05	379.37	10.10	209.26	128.64	147.87	34.59	389.34	10.22	58.68	128.93
16906	-0.74	21.03	-6.90	148.14	32.45	380.45	3.87	210.00	126.72	148.29	33.78	393.71	4.55	55.45	128.49
16907	-19.60	9.70	-6.90	44.94	75.38	258.79	42.54	109.37	194.59	36.28	47.11	233.88	40.08	112.74	193.87
16908	-18.85	11.08	-6.90	51.36	73.91	263.02	46.20	118.36	190.70	43.64	48.13	229.67	43.47	111.99	189.69
16909	-18.01	12.41	-6.90	58.32	72.29	267.63	49.33	126.54	186.39	51.40	49.15	227.94	46.18	111.05	184.99
16910	-17.08	13.67	-6.90	65.93	70.34	272.62	51.96	134.17	181.44	59.46	50.22	228.87	48.19	109.94	179.56
16911	-16.06	14.85	-6.90	74.35	67.88	277.94	54.09	141.74	175.77	67.91	51.14	232.45	49.69	108.63	173.30
16912	-14.95	15.97	-6.90	83.74	64.75	283.48	55.68	149.57	169.31	77.10	51.50	238.63	50.93	106.90	166.11
16913	-13.77	17.00	-6.90	94.06	60.83	289.08	56.52	157.59	161.93	87.32	50.95	247.20	51.86	104.46	158.05
16914	-12.52	17.94	-6.90	105.10	56.07	294.53	56.27	165.46	153.61	98.54	49.21	257.61	52.15	100.96	148.96
16915	-11.20	18.79	-6.90	116.39	50.63	299.63	54.58	172.77	144.54	110.41	46.28	269.07	51.28	96.16	139.30
16916	-9.83	19.55	-6.90	127.36	44.83	304.25	51.23	179.23	135.06	122.31	42.40	280.76	48.85	89.99	129.53
16917	-8.41	20.20	-6.90	137.46	39.03	308.35	46.19	184.69	125.63	133.56	38.00	292.08	44.69	82.55	120.21
16918	-6.94	20.76	-6.90	146.27	33.62	311.92	39.59	189.12	116.72	143.58	33.51	302.59	38.81	74.09	111.94
16919	-5.43	21.20	-6.90	153.47	28.94	315.02	31.67	192.56	108.80	151.91	29.36	312.02	31.42	64.98	105.20
16920	-3.90	21.54	-6.90	158.81	25.28	317.63	22.75	195.07	102.33	158.17	25.92	320.16	22.85	55.84	100.36
16921	-2.35	21.76	-6.90	162.03	22.87	319.63	13.21	196.70	97.70	162.01	23.49	326.66	13.55	47.77	97.61
16922	-0.78	21.87	-6.90	162.89	21.83	320.74	3.66	197.44	95.19	163.07	22.28	331.10	4.41	42.67	96.94
16923	-20.51	9.75	-6.90	35.07	83.44	194.21	42.71	90.11	180.08	26.49	54.36	238.27	36.21	107.75	179.22
16924	-19.75	11.21	-6.90	42.16	81.47	198.94	48.08	100.38	176.16	33.53	55.42	226.85	41.04	111.34	174.82
16925	-18.89	12.62	-6.90	50.17	79.02	204.03	52.86	110.06	171.46	41.51	55.98	217.39	45.31	114.48	169.42
16926	-17.92	13.96	-6.90	59.15	75.97	209.39	57.06	119.21	165.84	50.32	56.16	210.50	49.01	116.97	162.84
16927	-16.86	15.22	-6.90	69.22	72.20	214.99	60.63	128.15	159.32						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
16955	-17.76	9.62	-8.30	51.07	52.78	446.66	44.69	181.51	256.43	66.33	43.46	293.55	49.22	88.38	257.11
16956	-17.06	10.82	-8.30	55.46	53.60	447.02	45.37	187.10	251.22	74.35	44.17	305.10	50.53	91.12	251.82
16957	-16.27	11.98	-8.30	59.50	55.04	448.79	45.13	191.25	246.21	81.54	45.95	318.44	50.53	92.94	246.66
16958	-15.40	13.08	-8.30	63.18	56.93	452.08	44.05	195.16	241.05	87.43	48.97	333.61	49.14	94.65	241.29
16959	-14.46	14.11	-8.30	66.86	58.85	456.56	42.66	199.77	235.22	92.20	52.59	350.71	46.99	96.83	235.18
16960	-13.44	15.08	-8.30	71.16	60.22	461.73	41.26	205.59	228.45	96.59	56.01	369.61	44.63	99.62	228.06
16961	-12.37	15.98	-8.30	76.21	60.83	467.13	39.79	212.15	220.36	101.11	58.73	389.73	42.17	102.51	219.52
16962	-11.23	16.80	-8.30	81.99	60.28	472.40	38.06	218.90	211.06	106.10	60.20	410.13	39.55	104.79	209.73
16963	-10.04	17.54	-8.30	88.09	58.84	477.28	35.70	225.34	201.06	111.42	60.55	429.83	36.42	106.11	199.27
16964	-8.80	18.19	-8.30	94.05	56.76	481.64	32.55	231.09	190.92	116.76	60.01	448.09	32.66	106.29	188.78
16965	-7.52	18.76	-8.30	99.46	54.36	485.46	28.61	236.00	181.21	121.79	58.86	464.45	28.31	105.37	178.92
16966	-6.20	19.23	-8.30	104.06	51.94	488.75	23.96	240.06	172.39	126.26	57.34	478.63	23.61	103.58	170.22
16967	-4.86	19.62	-8.30	107.68	49.74	491.54	18.75	243.32	164.85	130.00	55.65	490.49	19.02	101.22	163.07
16968	-3.49	19.90	-8.30	110.20	47.96	493.84	13.19	245.83	158.91	132.96	53.95	499.88	15.49	98.66	157.76
16969	-2.10	20.10	-8.30	111.51	46.80	495.62	7.58	247.62	154.75	135.10	52.44	506.63	11.47	96.31	154.39
16970	-0.70	20.20	-8.30	111.45	46.45	496.74	2.92	248.58	152.40	136.38	51.32	510.50	16.59	94.56	152.84
16971	-18.68	9.66	-8.30	47.66	59.02	390.89	41.17	151.88	242.59	49.38	49.01	272.55	46.33	95.04	242.13
16972	-17.95	10.95	-8.30	52.02	59.28	393.19	43.04	160.24	237.07	57.88	49.29	279.74	48.90	97.29	236.37
16973	-17.14	12.19	-8.30	56.36	60.05	396.46	44.02	166.84	231.35	65.82	50.29	289.37	50.14	98.79	230.34
16974	-16.24	13.37	-8.30	60.69	61.13	400.87	44.19	172.69	225.08	72.74	52.24	301.15	49.91	100.08	223.69
16975	-15.26	14.48	-8.30	65.34	62.13	406.28	44.00	178.96	218.07	78.72	54.80	315.00	48.74	101.64	216.20
16976	-14.20	15.53	-8.30	70.84	62.53	412.28	43.81	186.22	210.03	84.39	57.16	330.92	47.32	103.49	207.59
16977	-13.07	16.49	-8.30	77.44	61.95	418.45	43.54	194.25	200.68	90.44	58.67	348.47	45.89	105.15	197.58
16978	-11.88	17.37	-8.30	85.02	60.19	424.42	42.83	202.42	190.02	97.22	58.87	366.80	44.26	105.98	186.27
16979	-10.62	18.17	-8.30	93.10	57.39	429.90	41.21	210.11	178.48	104.61	57.76	384.91	41.99	105.54	174.19
16980	-9.32	18.87	-8.30	101.06	53.94	434.77	38.42	216.94	166.65	112.16	55.68	401.97	38.76	103.73	162.05
16981	-7.96	19.48	-8.30	108.37	50.22	439.00	34.43	222.72	155.14	119.37	53.02	417.46	34.49	100.69	150.57
16982	-6.57	19.99	-8.30	114.68	46.60	442.63	29.36	227.44	144.51	125.84	50.11	431.08	29.28	96.75	140.37
16983	-5.14	20.41	-8.30	119.76	43.37	445.74	23.39	231.17	135.26	131.31	47.25	442.67	23.43	92.35	131.99
16984	-3.69	20.72	-8.30	123.49	40.77	448.36	16.81	234.00	127.90	135.63	44.65	452.13	17.57	88.08	125.83
16985	-2.22	20.93	-8.30	125.72	39.01	450.41	10.03	235.99	122.77	138.70	42.55	459.22	13.09	84.60	122.07
16986	-0.74	21.03	-8.30	126.21	38.28	451.60	4.14	237.06	120.05	140.35	41.16	463.50	12.40	82.59	120.63
16987	-19.60	9.70	-8.30	42.18	65.91	324.92	38.76	125.39	228.25	36.20	55.06	267.10	42.60	104.41	226.49
16988	-18.85	11.08	-8.30	46.95	65.54	329.96	42.03	136.09	222.57	44.27	55.07	266.18	46.49	107.33	220.26
16989	-18.01	12.41	-8.30	51.95	65.39	335.41	44.43	145.05	216.17	52.35	55.27	268.67	49.07	109.47	213.23
16990	-17.08	13.67	-8.30	57.22	65.26	341.36	46.03	152.99	208.80	59.92	55.90	274.10	50.19	111.22	205.10
16991	-16.06	14.85	-8.30	63.11	64.83	347.80	47.23	161.01	200.55	66.94	56.84	282.07	50.32	112.92	195.94
16992	-14.95	15.97	-8.30	70.11	63.74	354.59	48.36	169.75	191.34	74.01	57.58	292.58	50.18	114.42	185.67
16993	-13.77	17.00	-8.30	78.51	61.63	361.42	49.28	179.06	180.87	81.84	57.48	305.41	50.05	115.15	174.09
16994	-12.52	17.94	-8.30	88.09	58.31	367.97	49.50	188.32	169.08	90.78	56.04	319.86	49.65	114.44	161.26
16995	-11.20	18.79	-8.30	98.27	53.92	373.97	48.46	196.89	156.26	100.59	53.24	334.90	48.36	111.84	147.66
16996	-9.83	19.55	-8.30	108.29	48.87	379.29	45.84	204.38	142.92	110.65	49.42	349.62	45.72	107.31	134.00
16997	-8.41	20.20	-8.30	117.52	43.63	383.89	41.60	210.62	129.66	120.27	45.07	363.36	41.53	101.12	121.01
16998	-6.94	20.76	-8.30	125.54	38.64	387.85	35.86	215.63	117.05	128.92	40.64	375.78	35.85	93.74	109.39
16999	-5.43	21.20	-8.30	132.09	34.25	391.30	28.88	219.50	105.72	136.24	36.51	386.72	28.92	85.84	99.73
17000	-3.90	21.54	-8.30	137.03	30.74	394.34	21.02	222.37	96.36	142.01	32.97	396.08	21.18	78.29	92.57
17001	-2.35	21.76	-8.30	140.18	28.36	396.83	12.76	225.35	89.63	146.08	30.30	403.57	13.52	72.23	88.19
17002	-0.78	21.87	-8.30	141.19	27.27	398.31	5.19	228.39	86.06	148.11	28.71	408.52	8.61	69.16	86.61
17003	-20.51	9.75	-8.30	33.53	73.27	256.65	37.93	105.56	214.15	26.08	61.03	291.52	38.10	107.27	212.21
17004	-19.75	11.21	-8.30	39.23	72.25	263.85	42.68	117.80	208.36	33.38	61.03	278.76	43.22	113.37	205.62
17005	-18.89	12.62	-8.30	45.44	70.96	271.26	46.56	128.70	201.39	41.28	60.45	269.77	47.20	118.35	197.53
17006	-17.92	13.96	-8.30	52.18	69.22	278.62	49.65	138.53	193.03	49.25	59.55	264.67	49.86	122.41	187.76
17007	-16.86	15.22	-8.30	59.76	66.95	286.02	52.25	148.14	183.68	57.23	58.49	262.91	51.56	125.82	176.72
17008	-15.71	16.41	-8.30	68.68	64.02	293.50	54.62	158.13	173.51	65.80	57.19	264.40	52.98	128.36	164.58
17009	-14.48	17.51	-8.30	79.18	60.16	300.96	56.57	168.32	162.26	75.65	55.19	269.26	54.37	129.31	151.21
17010	-13.17	18.52	-8.30	90.97	55.19	308.12	57.51	178.12	149.74	86.99	52.01	277.06	55.30	127.91	136.68
17011	-11.79	19.42	-8.30	103.34	49.18	314.71	56.84	186.94	136.07	99.40	47.52	286.86	55.02	123.71	121.44
17012	-10.35	20.23	-8.30	115.46	42.55	320.55	54.18	194.43	121.66	112.05	42.03	297.58	52.94	116.70	106.22
17013	-8.85	20.93	-8.30	126.60	35.79	325.59	49.48	200.52	106.98	124.10	36.06	308.36	48.80	107.25	91.76
17014	-7.30	21.52	-8.30	136.29	29.43	329.94	42.91	205.28	92.53	134.87	30.17	318.70	42.65	95.95	78.78
17015	-5.72	21.99	-8.30	144.24	23.88	333.78	34.79	208.85	78.90	143.96	24.84	328.39	34.77	83.58	67.88
17016	-4.11	22.35	-8.30	150.33	19.48	337.27	25.50	211.39	66.84	151.13	20.45	337.32	25.55	71.18	59.60
17017	-2.47	22.59	-8.30	154.36	16.49	340.22	15.55	213.05	57.43	156.13	17.31	345.08	15.58	60.51	54.34
17018	-0.83	22.71	-8.30	155.88	15.07	342.00	5.83	213.90	52.08	158.50	15.61	350.80	6.24	54.72	52.27
17019	-21.43	9.79	-8.30	22.54	80.91	205.62	38.23	92.78	201.39	17.36	66.40	351.40	33.34	98.08	202.94
17020	-20.65	11.34	-8.30	29.08	79.09	210.99	44.16	105.84	195.23	24.00	66.54	326.58	39.42	109.59	196.28
17021	-19.76	12.83	-8.30	36.85	76.47	217.31	49.55	118.66	187.74	31.82	65.28	304.33	44.76	120.16	187.44
17022	-18.76	14.25	-8.30	45.46	72.89	224.10	54.13	130.33	178.57	40.22	62.83	286.04	49.01	128.86	176.23
17023	-17.66	15.59	-8.30	55.16	68.56	231.20	58.04	141.45	168.38	49.26	59.64	271.38	52.41	135.98	163.39
17024	-16.47	16.85	-8.30	66.38	63.71	238.62	61.49	152.43	157.58	59.54	56.17	260.31	55.50	141.29	149.28
17025	-15.18	18.02	-8.30	79.26	58.20										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
17053	11.66	-2.50	-2.70	75.01	40.01	359.50	18.21	260.25	238.18	228.11	33.27	302.74	24.88	178.66	238.06
17054	11.61	-3.10	-2.70	74.75	40.00	360.83	18.46	259.64	236.78	228.70	32.06	301.50	28.13	174.82	236.57
17055	12.89	-2.50	-2.70	78.60	48.13	375.14	16.41	242.92	232.51	227.31	34.45	383.46	25.77	188.89	232.59
17056	12.83	-3.10	-2.70	78.25	48.44	376.18	16.96	242.47	230.95	227.98	34.36	379.34	30.15	185.07	231.04
17057	14.12	-2.50	-2.70	80.97	56.25	385.28	14.99	222.81	226.95	225.35	33.66	472.92	27.76	175.75	227.49
17058	14.05	-3.10	-2.70	80.45	57.11	386.08	15.88	222.42	225.27	225.92	35.06	465.92	34.54	172.03	225.97
17059	15.34	-2.50	-2.70	82.92	63.27	387.06	15.61	199.54	220.91	238.89	36.43	548.06	28.74	137.81	222.26
17060	15.28	-3.10	-2.70	82.27	64.58	387.71	16.98	199.10	219.35	240.09	38.70	538.26	39.61	134.85	220.85
17061	16.57	-2.50	-2.70	86.24	68.95	376.92	21.28	175.77	211.88	292.10	49.70	585.93	28.67	113.10	215.29
17062	16.50	-3.10	-2.70	85.73	70.14	377.75	22.50	175.55	211.12	295.83	52.61	575.30	41.47	111.86	214.34
17063	17.80	-2.50	-2.70	95.18	76.65	353.19	36.59	160.79	194.41	398.16	54.70	586.70	41.72	175.25	201.58
17064	17.72	-3.10	-2.70	94.94	76.43	354.83	36.07	161.94	195.76	403.19	57.77	581.82	45.87	170.50	205.75
17065	19.03	-2.50	-2.70	114.81	89.66	312.61	63.28	164.26	146.13	561.36	50.35	535.90	74.06	342.35	147.83
17066	18.94	-3.10	-2.70	115.29	90.72	318.88	60.46	168.12	151.90	567.08	48.35	537.70	68.08	335.76	179.31
17067	0.61	-2.50	-4.10	28.08	5.65	218.88	4.91	357.00	295.81	42.57	44.46	275.20	6.21	72.53	196.13
17068	0.61	-3.10	-4.10	27.92	5.64	223.51	4.81	355.85	294.23	41.89	43.81	279.23	6.77	73.03	194.71
17069	1.84	-2.50	-4.10	28.22	4.70	225.32	9.62	356.07	292.60	35.79	44.53	269.01	10.40	60.94	292.98
17070	1.83	-3.10	-4.10	28.01	4.70	230.00	9.41	354.90	291.07	35.13	43.75	273.21	10.64	61.54	291.64
17071	3.07	-2.50	-4.10	28.93	4.04	237.92	13.92	353.50	289.29	27.93	44.42	260.95	14.53	50.91	289.72
17072	3.06	-3.10	-4.10	28.68	4.13	242.31	13.61	352.33	287.80	27.27	43.48	265.39	14.59	51.36	288.45
17073	4.30	-2.50	-4.10	30.39	4.19	255.44	17.69	349.27	285.86	19.77	44.11	251.28	18.23	46.25	286.33
17074	4.28	-3.10	-4.10	30.12	4.42	259.45	17.30	348.09	284.40	19.07	42.99	256.00	18.17	46.04	285.11
17075	5.52	-2.50	-4.10	32.80	5.57	276.67	20.83	343.33	282.25	12.47	43.57	241.01	21.33	51.20	282.73
17076	5.50	-3.10	-4.10	32.50	5.87	280.25	20.37	342.15	280.82	11.63	42.24	246.00	21.19	49.91	281.55
17077	6.75	-2.50	-4.10	36.29	8.10	300.41	23.23	335.59	278.40	7.86	42.73	232.70	23.70	65.48	278.85
17078	6.72	-3.10	-4.10	35.97	8.39	303.55	22.73	334.42	276.99	6.80	41.18	237.79	23.53	63.23	277.68
17079	7.98	-2.50	-4.10	40.99	11.64	325.53	24.79	325.94	274.22	8.06	41.44	231.29	25.26	85.34	274.58
17080	7.94	-3.10	-4.10	40.65	11.86	328.22	24.29	324.81	272.82	6.84	39.67	236.00	25.09	82.42	273.38
17081	9.21	-2.50	-4.10	47.06	16.16	350.91	25.43	314.22	269.61	13.70	39.37	243.85	25.94	107.11	269.82
17082	9.17	-3.10	-4.10	46.67	16.31	353.17	24.99	313.15	268.21	11.92	37.47	247.35	25.84	103.80	268.54
17083	10.43	-2.50	-4.10	54.65	21.71	375.38	25.12	300.18	264.47	26.45	35.91	276.39	25.77	127.31	264.50
17084	10.39	-3.10	-4.10	54.18	21.78	377.22	24.80	299.22	263.04	23.88	34.12	277.83	25.84	123.82	263.10
17085	11.66	-2.50	-4.10	63.92	28.27	397.53	23.91	283.46	258.70	47.41	30.20	329.06	24.94	141.86	258.58
17086	11.61	-3.10	-4.10	63.34	28.35	398.96	23.78	282.67	257.21	44.16	28.91	328.01	25.34	138.40	257.04
17087	12.89	-2.50	-4.10	74.87	35.77	415.49	21.99	263.64	252.14	74.30	21.99	394.36	23.90	146.37	252.01
17088	12.83	-3.10	-4.10	74.16	35.95	416.56	22.10	263.04	250.56	70.59	21.81	390.80	24.90	143.13	250.35
17089	14.12	-2.50	-4.10	86.92	44.01	426.71	19.81	240.50	244.42	100.05	19.23	458.30	23.21	138.14	244.54
17090	14.05	-3.10	-4.10	86.12	44.41	427.48	20.13	240.10	242.77	96.09	20.11	452.50	25.19	135.33	242.89
17091	15.34	-2.50	-4.10	98.45	52.84	427.71	18.13	214.86	234.64	113.26	38.28	503.84	23.03	120.51	235.48
17092	15.28	-3.10	-4.10	97.70	53.48	428.32	18.51	214.65	233.07	109.04	38.44	496.43	26.00	118.57	234.12
17093	16.57	-2.50	-4.10	106.80	62.64	414.37	17.94	189.94	220.91	104.45	70.24	518.15	24.07	108.02	223.22
17094	16.50	-3.10	-4.10	106.25	63.29	415.03	18.08	189.94	219.77	100.32	70.08	510.73	26.29	106.83	222.94
17095	17.80	-2.50	-4.10	109.01	74.74	381.51	20.18	171.27	199.22	76.21	107.62	494.65	29.09	131.03	203.02
17096	17.72	-3.10	-4.10	108.68	75.14	382.33	19.45	171.53	199.27	73.42	107.44	489.16	26.81	128.74	206.23
17097	19.03	-2.50	-4.10	101.73	91.93	326.38	22.87	162.76	165.18	41.56	154.60	401.57	34.75	239.54	167.98
17098	18.94	-3.10	-4.10	100.97	91.08	327.71	20.96	163.05	166.99	40.12	154.66	399.15	25.62	234.88	176.48
17099	0.61	-2.50	-5.50	32.36	9.98	237.73	6.15	375.83	310.66	151.18	65.35	285.09	6.26	89.34	311.02
17100	0.61	-3.10	-5.50	32.07	9.86	242.76	6.05	374.66	309.04	149.51	64.54	289.46	6.18	89.96	309.58
17101	1.84	-2.50	-5.50	31.28	9.43	244.80	11.89	375.28	308.03	153.98	67.08	279.07	12.07	75.62	308.47
17102	1.83	-3.10	-5.50	30.97	9.29	249.67	11.65	374.10	306.44	152.16	66.11	283.60	11.89	76.42	307.10
17103	3.07	-2.50	-5.50	31.07	8.60	258.09	17.23	373.36	305.40	157.28	68.44	271.75	17.46	62.66	305.92
17104	3.06	-3.10	-5.50	30.73	8.47	262.69	16.87	372.17	303.85	155.28	67.29	276.50	17.19	63.51	304.63
17105	4.30	-2.50	-5.50	31.97	7.44	276.63	22.00	370.00	302.76	162.07	69.30	263.56	22.29	52.64	303.34
17106	4.28	-3.10	-5.50	31.59	7.36	280.87	21.54	368.80	301.23	159.80	67.97	268.55	21.95	53.22	302.11
17107	5.52	-2.50	-5.50	34.22	5.91	299.26	26.04	365.10	300.04	169.59	69.49	255.71	26.41	48.74	300.66
17108	5.50	-3.10	-5.50	33.79	5.93	303.09	25.51	363.89	298.53	166.97	67.98	260.92	26.03	48.54	299.48
17109	6.75	-2.50	-5.50	38.13	4.13	324.81	29.23	358.48	297.14	181.40	68.75	250.77	29.68	52.74	297.76
17110	6.72	-3.10	-5.50	37.60	4.40	328.22	28.65	357.27	295.65	178.29	67.08	256.01	29.30	51.51	296.60
17111	7.98	-2.50	-5.50	44.06	3.24	352.16	31.43	349.94	293.93	199.29	66.65	253.05	31.97	62.47	294.50
17112	7.94	-3.10	-5.50	43.40	3.88	355.14	30.83	348.74	292.46	195.55	64.89	257.87	31.62	60.43	293.32
17113	9.21	-2.50	-5.50	52.43	5.45	380.21	32.53	339.15	290.27	225.06	62.53	267.94	33.12	73.98	290.70
17114	9.17	-3.10	-5.50	51.60	6.03	382.74	31.98	337.99	288.79	220.57	60.80	271.62	32.85	71.50	289.47
17115	10.43	-2.50	-5.50	63.65	9.86	407.72	32.45	325.71	285.93	260.11	55.39	299.25	33.01	83.95	286.18
17116	10.39	-3.10	-5.50	62.62	10.27	409.79	32.01	324.62	284.45	254.81	53.89	301.08	32.87	81.35	284.84
17117	11.66	-2.50	-5.50	77.94	15.65	433.19	31.18	309.11	280.69	304.65	43.76	346.11	31.57	90.12	280.72
17118	11.61	-3.10	-5.50	76.71	15.94	434.79	30.91	308.17	279.18	298.59	42.83	345.69	31.57	87.65	279.24
17119	12.89	-2.50	-5.50	95.14	22.69	454.62	28.76	288.89	274.20	356.77	25.79	401.84	28.86	91.76	274.09
17120	12.83	-3.10	-5.50	93.72	22.92	455.76	28.73	288.16	272.65	350.14	25.81	399.14	28.98	89.63	272.48
17121	14.12	-2.50	-5.50	114.39	31.02	469.21	25.29	264.92	265.95	411.87	4.45	455.00	25.18	90.68	265.90
17122	14.05	-3.10	-5.50	112.85	31.21	469.94	25.53	264.46	264.37	404.97	4.80	450.34	25.41	89.05	264.28
17123	15.34	-2.50	-5.50	133.89	40.79	473.11	20.88	238.02	255.16	463.39	38.95	491.46	21.06	91.55	255.6



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
17151	12.89	-2.50	-6.90	123.18	13.68	490.59	38.10	318.42	298.40	619.42	51.88	404.08	41.87	74.95	298.39
17152	12.83	-3.10	-6.90	121.15	13.87	491.83	38.06	317.54	296.95	610.15	52.41	402.49	44.18	75.17	296.94
17153	14.12	-2.50	-6.90	145.71	20.26	510.69	33.49	295.36	291.11	704.42	22.65	454.39	36.13	90.26	291.03
17154	14.05	-3.10	-6.90	143.48	20.31	511.35	33.80	294.75	289.67	694.96	24.42	450.75	38.46	90.48	289.54
17155	15.34	-2.50	-6.90	171.37	29.55	521.26	26.95	267.50	281.35	796.28	29.09	492.25	28.08	109.49	281.56
17156	15.28	-3.10	-6.90	169.02	29.41	521.42	27.72	267.25	279.93	787.20	25.29	487.09	30.26	109.49	280.22
17157	16.57	-2.50	-6.90	198.90	41.33	517.14	18.23	235.43	268.34	888.23	87.48	498.50	18.20	131.32	269.53
17158	16.50	-3.10	-6.90	196.48	40.97	516.97	19.60	235.56	267.07	880.07	81.61	492.77	20.26	130.88	268.80
17159	17.80	-2.50	-6.90	226.44	55.32	492.24	8.02	201.98	251.23	966.41	162.73	446.51	7.83	156.88	254.51
17160	17.72	-3.10	-6.90	223.90	54.80	492.10	10.19	202.34	250.32	959.23	156.09	441.96	10.74	155.66	255.21
17161	19.03	-2.50	-6.90	252.07	70.45	441.09	9.87	175.82	228.90	1009.56	245.73	318.49	10.61	190.34	235.84
17162	18.94	-3.10	-6.90	249.19	69.87	441.50	10.67	175.92	228.66	1002.89	240.09	318.10	17.31	187.78	239.46
17163	0.61	-2.50	-8.30	60.11	30.65	276.21	9.61	402.85	337.09	386.28	111.22	308.62	16.16	142.97	337.44
17164	0.61	-3.10	-8.30	59.79	30.52	281.42	9.75	401.83	335.21	382.79	110.15	313.41	18.49	143.72	335.73
17165	1.84	-2.50	-8.30	61.59	31.02	283.21	18.15	403.02	335.57	406.21	117.22	304.33	23.99	128.46	336.01
17166	1.83	-3.10	-8.30	61.24	30.86	288.31	18.02	402.00	333.72	402.19	115.92	309.22	26.20	129.47	334.39
17167	3.07	-2.50	-8.30	65.79	31.36	296.44	26.37	402.51	334.35	428.93	122.72	299.61	32.27	114.76	334.90
17168	3.06	-3.10	-8.30	65.38	31.16	301.32	26.08	401.49	332.55	424.29	121.20	304.65	34.51	116.01	333.38
17169	4.30	-2.50	-8.30	72.20	31.60	315.14	33.96	401.21	333.42	455.29	127.54	294.78	40.30	102.74	334.08
17170	4.28	-3.10	-8.30	71.69	31.34	319.74	33.56	400.20	331.66	449.94	125.80	300.00	42.71	104.19	332.65
17171	5.52	-2.50	-8.30	80.24	31.62	338.40	40.71	399.01	332.70	486.31	131.40	290.63	47.72	93.39	333.45
17172	5.50	-3.10	-8.30	79.59	31.31	342.67	40.23	398.00	331.00	480.16	129.46	296.02	50.41	94.96	332.14
17173	6.75	-2.50	-8.30	89.47	31.33	365.26	46.38	395.71	332.10	523.19	133.85	288.61	54.24	87.75	332.91
17174	6.72	-3.10	-8.30	88.61	30.98	369.18	45.86	394.70	330.48	516.14	131.80	294.10	57.32	89.34	331.70
17175	7.98	-2.50	-8.30	99.69	30.63	394.80	50.76	391.07	331.46	567.31	134.29	291.05	59.56	86.83	332.28
17176	7.94	-3.10	-8.30	98.57	30.26	398.36	50.24	390.04	329.92	559.27	132.22	296.39	63.11	88.36	331.16
17177	9.21	-2.50	-8.30	110.98	29.46	426.14	53.61	384.74	330.57	620.19	131.82	300.94	63.34	91.78	331.32
17178	9.17	-3.10	-8.30	109.55	29.09	429.28	53.13	383.70	329.13	611.12	129.92	305.74	67.43	93.16	330.26
17179	10.43	-2.50	-8.30	123.65	27.86	458.35	54.74	376.29	329.14	683.51	125.19	321.26	65.22	103.95	329.73
17180	10.39	-3.10	-8.30	121.88	27.50	461.00	54.35	375.24	327.80	673.41	123.74	324.95	69.88	105.09	328.70
17181	11.66	-2.50	-8.30	138.31	26.09	490.37	53.97	365.12	326.83	759.09	112.76	353.52	64.80	124.46	327.20
17182	11.61	-3.10	-8.30	136.19	25.75	492.44	53.73	364.08	325.57	748.07	112.14	355.53	69.99	125.23	326.14
17183	12.89	-2.50	-8.30	155.85	24.81	520.80	51.14	350.36	323.26	848.81	92.45	396.53	61.58	153.14	323.38
17184	12.83	-3.10	-8.30	153.41	24.46	522.20	51.13	349.40	322.05	837.16	93.13	396.45	67.17	153.45	322.24
17185	14.12	-2.50	-8.30	177.52	25.28	547.63	46.04	330.75	318.02	954.50	62.37	445.39	55.05	187.45	317.98
17186	14.05	-3.10	-8.30	174.81	24.86	548.29	46.37	329.98	316.81	942.70	64.70	443.09	60.76	187.29	316.74
17187	15.34	-2.50	-8.30	204.85	29.15	567.77	38.33	304.58	310.67	1077.03	30.36	490.17	44.76	221.85	310.74
17188	15.28	-3.10	-8.30	201.93	28.55	567.71	39.18	304.16	309.43	1065.77	31.76	485.91	50.23	221.32	309.51
17189	16.57	-2.50	-8.30	239.49	37.46	576.57	27.53	269.94	300.65	1214.51	66.93	513.69	30.73	247.54	301.50
17190	16.50	-3.10	-8.30	236.38	36.65	575.95	29.15	270.01	299.39	1204.48	60.04	508.33	35.72	246.81	300.64
17191	17.80	-2.50	-8.30	282.86	50.34	567.44	13.55	226.19	287.06	1360.24	151.22	490.04	14.09	252.77	290.18
17192	17.72	-3.10	-8.30	279.51	49.37	566.63	16.37	226.89	285.91	1351.60	142.41	485.32	19.44	251.95	290.55
17193	19.03	-2.50	-8.30	336.37	67.13	531.69	10.47	178.90	268.18	1502.73	254.86	392.89	10.28	227.81	276.55
17194	18.94	-3.10	-8.30	332.53	66.16	531.35	11.06	180.11	267.45	1494.44	247.21	391.66	15.34	226.75	280.29
17195	23.44	-2.50	-2.70	361.74	127.52	278.61	59.79	312.95	72.62	926.22	539.38	1377.77	67.88	1605.84	385.99
17196	22.60	-2.50	-2.70	261.20	98.09	262.99	69.93	243.71	71.72	849.23	580.61	895.06	69.58	985.36	153.03
17197	21.75	-2.50	-2.70	210.93	94.97	267.04	53.56	210.07	59.22	817.73	389.60	501.26	84.82	757.62	82.86
17198	20.91	-2.50	-2.70	179.85	95.55	273.04	53.15	191.54	40.96	819.31	230.64	247.68	98.84	657.44	46.13
17199	20.06	-2.50	-2.70	153.42	97.04	280.76	74.56	183.75	70.83	773.94	93.15	347.72	100.21	590.50	72.88
17200	23.37	-3.10	-2.70	368.90	156.24	308.00	78.06	327.76	60.83	902.56	531.76	1341.66	89.31	1596.34	438.05
17201	22.52	-3.10	-2.70	264.60	99.54	287.27	67.42	248.49	60.41	827.54	589.38	883.48	82.54	962.08	233.99
17202	21.68	-3.10	-2.70	212.34	95.81	290.22	55.45	213.04	48.18	784.32	375.83	502.30	81.64	736.75	114.57
17203	20.83	-3.10	-2.70	178.61	100.65	294.92	54.21	194.18	36.50	790.33	227.53	273.97	70.94	631.37	55.24
17204	19.98	-3.10	-2.70	152.45	102.41	296.94	71.34	188.60	77.83	768.53	98.06	361.25	69.95	570.62	96.06
17205	23.44	-2.50	-4.10	175.63	120.45	161.55	77.93	251.74	75.09	254.63	261.11	1054.01	88.54	1596.79	422.37
17206	22.60	-2.50	-4.10	104.88	139.55	179.57	44.70	188.57	61.25	161.45	362.37	742.42	58.92	948.72	94.39
17207	21.75	-2.50	-4.10	85.09	128.01	199.49	20.93	163.88	75.12	134.40	325.23	427.44	25.28	690.45	74.59
17208	20.91	-2.50	-4.10	81.60	122.83	228.91	19.60	157.34	99.77	106.86	270.41	197.50	18.11	541.63	99.49
17209	20.06	-2.50	-4.10	88.60	110.67	270.02	21.80	158.79	129.52	49.55	212.58	245.75	23.90	399.72	129.96
17210	23.37	-3.10	-4.10	162.23	122.85	173.62	90.03	260.28	60.00	177.11	269.72	1063.83	84.85	1582.05	506.05
17211	22.52	-3.10	-4.10	101.00	124.82	187.08	49.90	190.42	60.46	129.60	353.83	736.44	48.99	917.31	230.69
17212	21.68	-3.10	-4.10	84.23	120.57	205.18	28.07	163.51	78.09	117.78	315.37	423.43	31.16	668.72	130.49
17213	20.83	-3.10	-4.10	80.65	117.92	232.87	22.84	156.62	103.20	99.86	262.86	202.73	18.69	526.19	120.58
17214	19.98	-3.10	-4.10	87.40	107.86	272.37	20.20	158.46	132.63	47.31	209.87	247.66	19.43	390.82	142.66
17215	23.44	-2.50	-5.50	264.75	107.43	113.40	65.69	250.40	92.42	501.61	361.66	1005.90	97.27	1522.16	359.29
17216	22.60	-2.50	-5.50	185.71	109.29	147.67	34.78	189.07	104.05	417.11	354.32	756.61	42.67	859.11	105.59
17217	21.75	-2.50	-5.50	157.87	100.48	192.77	7.54	173.41	126.35	404.66	323.04	502.76	5.26	595.93	131.02
17218	20.91	-2.50	-5.50	153.40	96.34	247.75	9.62	167.86	149.29	437.67	302.27	274.51	10.41	433.66	154.92
17219	20.06	-2.50	-5.50	157.26	90.52	305.79	9.66	166.22	171.30	482.88	270.44	193.46	8.65	314.33	176.46
17220	23.37	-3.10	-5.50	271.93	118.35	115.32	76.86	257.03	88.40	596.86	380.66	1018.3			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
17249	-5.52	-2.50	-2.70	24.97	17.15	253.95	18.78	314.14	295.34	25.80	32.44	267.56	19.59	88.49	295.41
17250	-6.75	-2.50	-2.70	23.94	19.47	275.33	23.43	303.56	297.04	28.24	33.79	263.59	24.04	87.80	297.08
17251	-7.98	-2.50	-2.70	23.19	22.11	297.67	28.05	290.68	298.07	33.14	35.31	258.39	28.53	84.90	298.08
17252	-9.21	-2.50	-2.70	23.00	25.13	320.02	32.67	275.37	298.27	40.53	37.07	252.14	33.05	79.80	298.24
17253	-10.43	-2.50	-2.70	23.68	28.56	341.47	37.35	257.58	297.50	50.39	39.15	245.27	37.66	72.65	297.44
17254	-11.66	-2.50	-2.70	25.51	32.44	361.14	42.28	237.31	295.62	62.72	41.65	238.72	42.52	63.97	295.51
17255	-12.89	-2.50	-2.70	28.61	36.80	378.16	47.75	214.74	292.46	77.57	44.71	234.44	47.92	55.08	292.32
17256	-14.12	-2.50	-2.70	33.01	41.72	391.68	54.25	190.34	287.92	95.21	48.57	235.96	54.35	49.14	287.73
17257	-15.34	-2.50	-2.70	38.95	47.29	401.13	62.65	165.16	281.85	116.47	53.65	248.99	62.67	51.28	281.63
17258	-16.57	-2.50	-2.70	47.39	53.74	406.08	74.69	141.19	274.05	143.50	60.69	281.00	74.65	64.47	273.82
17259	-17.80	-2.50	-2.70	60.77	61.61	411.22	94.82	121.96	263.75	181.09	72.47	348.69	94.73	85.98	263.56
17260	-19.03	-2.50	-2.70	88.43	74.93	382.97	139.83	131.47	229.12	245.74	88.28	433.07	139.70	144.54	229.10
17261	-0.61	-3.10	-2.70	30.66	11.02	204.74	2.08	334.43	282.35	45.10	27.40	273.24	9.57	71.06	282.67
17262	-1.83	-3.10	-2.70	29.11	12.17	210.89	5.07	332.08	285.64	35.78	28.60	274.90	9.88	78.10	285.91
17263	-3.06	-3.10	-2.70	27.84	13.66	222.36	9.38	327.82	288.65	29.84	29.81	274.98	12.20	83.43	288.86
17264	-4.28	-3.10	-2.70	26.78	15.43	238.14	13.91	321.57	291.31	27.09	31.04	273.63	15.71	86.85	291.47
17265	-5.50	-3.10	-2.70	25.88	17.49	257.05	18.51	313.25	293.51	27.17	32.33	270.95	19.76	88.26	293.63
17266	-6.72	-3.10	-2.70	25.19	19.84	277.98	23.11	302.76	295.17	29.75	33.73	266.97	24.04	87.55	295.23
17267	-7.94	-3.10	-2.70	24.85	22.53	299.87	27.69	289.99	296.16	34.72	35.28	261.76	28.42	84.71	296.17
17268	-9.17	-3.10	-2.70	25.07	25.58	321.80	32.28	274.83	296.34	42.07	37.07	255.49	32.86	79.76	296.29
17269	-10.39	-3.10	-2.70	26.11	29.03	342.85	36.95	257.24	295.57	51.84	39.17	248.56	37.42	72.89	295.47
17270	-11.61	-3.10	-2.70	28.19	32.93	362.16	41.88	237.22	293.70	64.03	41.69	241.91	42.24	64.67	293.54
17271	-12.83	-3.10	-2.70	31.42	37.33	378.87	47.37	214.99	290.61	78.72	44.78	237.44	47.62	56.48	290.38
17272	-14.05	-3.10	-2.70	35.87	42.29	392.16	53.88	191.02	286.15	96.20	48.66	238.57	54.03	51.36	285.86
17273	-15.28	-3.10	-2.70	41.84	47.94	401.49	62.30	166.33	280.22	117.33	53.79	250.92	62.33	53.94	279.89
17274	-16.50	-3.10	-2.70	50.36	54.60	406.49	74.31	142.87	272.60	144.27	60.92	281.92	74.24	66.82	272.26
17275	-17.72	-3.10	-2.70	64.03	62.95	411.86	94.30	124.09	262.61	181.92	72.78	348.22	94.14	87.75	262.31
17276	-18.94	-3.10	-2.70	92.66	77.51	383.96	138.64	133.13	228.39	247.10	89.50	430.94	138.44	144.79	228.36
17277	-0.61	-2.50	-4.10	28.28	6.68	218.62	0.57	356.30	298.90	47.75	44.22	279.60	3.73	83.76	299.17
17278	-1.84	-2.50	-4.10	28.60	7.77	225.11	5.40	353.94	301.86	50.98	43.85	282.40	6.52	93.76	302.07
17279	-3.07	-2.50	-4.10	28.84	8.95	237.49	10.71	349.87	304.63	52.07	43.38	283.78	11.32	102.07	304.80
17280	-4.30	-2.50	-4.10	28.80	10.29	254.68	16.02	343.99	307.13	50.90	42.87	283.89	16.46	108.43	307.26
17281	-5.52	-2.50	-4.10	28.32	11.85	275.47	21.24	336.18	309.25	47.45	42.35	282.78	21.59	112.64	309.34
17282	-6.75	-2.50	-4.10	27.28	13.71	298.71	26.28	326.30	310.85	41.81	41.89	280.47	26.59	114.52	310.91
17283	-7.98	-2.50	-4.10	25.65	15.95	323.30	31.10	314.16	311.76	34.21	41.56	276.97	31.38	113.91	311.79
17284	-9.21	-2.50	-4.10	23.52	18.64	348.25	35.67	299.57	311.79	25.29	41.41	272.29	35.94	110.67	311.79
17285	-10.43	-2.50	-4.10	21.26	21.85	372.59	40.05	282.33	310.70	17.49	41.49	266.62	40.30	104.66	310.66
17286	-11.66	-2.50	-4.10	19.69	25.67	395.27	44.35	262.27	308.20	18.29	41.84	260.45	44.57	95.83	308.12
17287	-12.89	-2.50	-4.10	19.97	30.15	415.14	48.79	239.34	303.95	29.75	42.47	255.02	48.97	84.32	303.84
17288	-14.12	-2.50	-4.10	22.87	35.41	430.85	53.73	213.76	297.49	45.46	43.37	252.84	53.86	70.76	297.34
17289	-15.34	-2.50	-4.10	27.89	41.60	440.75	59.78	186.39	288.10	61.99	44.44	258.53	59.85	57.05	287.92
17290	-16.57	-2.50	-4.10	33.90	49.02	442.84	67.88	159.50	274.28	76.23	45.37	279.33	67.89	48.75	274.09
17291	-17.80	-2.50	-4.10	39.90	58.62	429.49	79.24	140.36	251.47	81.57	44.20	318.29	79.25	61.65	251.36
17292	-19.03	-2.50	-4.10	41.89	72.03	370.43	88.06	138.63	213.04	74.11	33.29	333.32	88.14	121.37	213.26
17293	-0.61	-3.10	-4.10	28.18	6.71	223.43	0.71	355.17	297.28	47.04	43.69	283.52	4.67	84.07	297.67
17294	-1.83	-3.10	-4.10	28.58	7.86	229.73	5.34	352.83	300.18	50.27	43.43	286.25	7.02	93.86	300.50
17295	-3.06	-3.10	-4.10	28.92	9.11	241.78	10.55	348.79	302.89	51.38	43.05	287.60	11.50	101.99	303.14
17296	-4.28	-3.10	-4.10	29.02	10.53	258.57	15.77	342.94	305.32	50.29	42.62	287.69	16.45	108.19	305.51
17297	-5.50	-3.10	-4.10	28.73	12.16	278.92	20.91	335.18	307.37	46.99	42.17	286.58	21.46	112.26	307.51
17298	-6.72	-3.10	-4.10	27.97	14.09	301.71	25.89	325.35	308.91	41.60	41.78	284.28	26.37	114.05	309.00
17299	-7.94	-3.10	-4.10	26.72	16.38	325.86	30.66	313.28	309.77	34.43	41.49	280.77	31.10	113.40	309.82
17300	-9.17	-3.10	-4.10	25.13	19.12	350.37	35.20	298.79	309.76	26.34	41.36	276.08	35.62	110.18	309.76
17301	-10.39	-3.10	-4.10	23.60	22.36	374.27	39.56	281.69	308.64	20.06	41.45	270.36	39.94	104.27	308.59
17302	-11.61	-3.10	-4.10	22.82	26.18	396.52	43.85	261.84	306.14	21.72	41.79	264.11	44.19	95.66	306.03
17303	-12.83	-3.10	-4.10	23.71	30.66	416.00	48.29	239.19	301.92	32.52	42.40	258.51	48.56	84.54	301.75
17304	-14.05	-3.10	-4.10	26.76	35.91	431.37	53.23	213.98	295.53	47.63	43.25	256.02	53.43	71.58	295.30
17305	-15.28	-3.10	-4.10	31.66	42.10	441.03	59.27	187.08	286.24	63.81	44.26	261.13	59.37	58.72	285.96
17306	-16.50	-3.10	-4.10	37.60	49.54	443.01	67.32	160.70	272.57	77.98	45.09	280.92	67.33	51.11	272.29
17307	-17.72	-3.10	-4.10	43.78	59.19	429.61	78.55	141.88	250.04	83.82	43.85	318.31	78.57	63.23	249.88
17308	-18.94	-3.10	-4.10	46.05	72.49	370.67	87.38	139.85	212.17	77.18	33.14	331.91	87.51	120.78	212.52
17309	-0.61	-2.50	-5.50	34.02	10.35	237.48	1.13	375.02	313.32	148.17	63.32	289.74	0.82	102.65	313.60
17310	-1.84	-2.50	-5.50	35.97	10.57	244.02	6.42	372.84	315.96	144.41	61.07	293.14	6.29	114.84	316.18
17311	-3.07	-2.50	-5.50	37.88	10.73	256.73	12.68	369.24	318.54	139.52	58.66	295.40	12.60	125.50	318.71
17312	-4.30	-2.50	-5.50	39.45	10.91	274.60	18.88	364.12	320.97	133.23	56.15	296.64	18.83	134.32	321.10
17313	-5.52	-2.50	-5.50	40.36	11.18	296.49	24.86	357.36	323.14	125.36	53.60	296.90	24.84	141.03	323.23
17314	-6.75	-2.50	-5.50	40.34	11.69	321.25	30.50	348.79	324.89	115.78	51.08	296.16	30.51	145.41	324.96
17315	-7.98	-2.50	-5.50	39.14	12.58	347.83	35.71	338.20	326.03	104.47	48.64	294.37	35.74	147.20	326.07
17316	-9.21	-2.50	-5.50	36.53	14.02	375.24	40.41	325.35	326.29	91.45	46.32	291.46	40.46	146.14	326.31
17317	-10.43	-2.50	-5.50	32.44	16.19	402.46	44.57	309.96	325.39	76.88	44.16	287.43	44.63	141.93	325.38
17318	-11.66	-2.50	-5.50	27.06	19.23	428.37	48.23	291.74	322.94	61.15	42.14	282.42	48.29	134.19	322.91
17319	-12.89	-2.50	-5.50	21.46	23.26	451.53	51.49	270.45	318.48	45.13	40.19	276.99	51.52	122.46	318.43
17320	-14.1														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
17347	-7.98	-2.50	-6.90	61.80	17.80	370.15	42.18	361.36	340.34	186.20	56.13	310.42	42.02	183.22	340.38
17348	-9.21	-2.50	-6.90	60.64	17.59	399.49	47.30	351.16	341.25	171.17	51.65	309.26	47.15	184.27	341.28
17349	-10.43	-2.50	-6.90	57.25	17.66	429.18	51.54	338.81	341.07	154.85	47.34	307.06	51.39	181.95	341.09
17350	-11.66	-2.50	-6.90	51.37	18.31	458.05	54.83	323.91	339.39	137.33	43.19	303.71	54.68	175.60	339.39
17351	-12.89	-2.50	-6.90	43.07	19.96	484.53	57.15	306.02	335.72	118.87	39.15	299.21	56.99	164.29	335.72
17352	-14.12	-2.50	-6.90	33.50	23.08	506.24	58.49	284.67	329.49	100.10	35.12	293.74	58.31	146.67	329.49
17353	-15.34	-2.50	-6.90	26.76	28.01	519.39	58.70	259.53	320.02	82.02	31.04	287.73	58.51	121.25	320.03
17354	-16.57	-2.50	-6.90	28.84	34.98	517.94	57.40	230.49	306.61	65.27	27.06	281.35	57.23	88.42	306.67
17355	-17.80	-2.50	-6.90	35.81	43.87	494.25	53.82	196.99	288.86	48.44	24.04	273.62	53.74	61.36	289.01
17356	-19.03	-2.50	-6.90	39.26	54.32	442.57	47.37	158.16	266.96	30.30	23.67	263.42	47.41	73.26	267.20
17357	-0.61	-3.10	-6.90	45.75	19.21	261.74	2.78	389.53	325.04	253.59	82.99	305.10	6.91	127.85	325.47
17358	-1.83	-3.10	-6.90	48.65	19.06	268.08	8.03	387.68	327.38	243.50	78.80	308.58	9.08	141.19	327.70
17359	-3.06	-3.10	-6.90	52.14	18.85	280.59	15.26	384.77	329.80	233.28	74.40	311.30	15.34	153.28	330.05
17360	-4.28	-3.10	-6.90	55.67	18.59	298.41	22.49	380.73	332.25	222.57	69.86	313.33	22.30	163.75	332.42
17361	-5.50	-3.10	-6.90	58.71	18.31	320.51	29.43	375.42	334.59	211.08	65.26	314.67	29.17	172.31	334.72
17362	-6.72	-3.10	-6.90	60.81	18.03	345.86	35.90	368.70	336.69	198.59	60.65	315.30	35.64	178.64	336.78
17363	-7.94	-3.10	-6.90	61.52	17.77	373.47	41.75	360.36	338.32	184.96	56.11	315.11	41.50	182.45	338.38
17364	-9.17	-3.10	-6.90	60.46	17.63	402.38	46.84	350.16	339.21	170.11	51.69	313.98	46.60	183.38	339.26
17365	-10.39	-3.10	-6.90	57.29	17.80	431.59	51.05	337.82	339.03	154.01	47.41	311.77	50.82	180.97	339.06
17366	-11.61	-3.10	-6.90	51.79	18.58	459.92	54.32	322.99	337.37	136.77	43.27	308.35	54.10	174.60	337.38
17367	-12.83	-3.10	-6.90	44.10	20.36	485.79	56.64	305.23	333.73	118.69	39.22	303.70	56.39	163.37	333.72
17368	-14.05	-3.10	-6.90	35.49	23.56	506.87	57.97	284.13	327.54	100.39	35.17	297.98	57.69	146.01	327.53
17369	-15.28	-3.10	-6.90	29.73	28.52	519.41	58.19	259.39	318.14	82.83	31.07	291.55	57.89	121.10	318.15
17370	-16.50	-3.10	-6.90	31.65	35.42	517.49	56.92	230.87	304.85	66.59	27.11	284.51	56.66	89.16	304.94
17371	-17.72	-3.10	-6.90	37.74	44.15	493.65	53.45	197.97	287.30	50.23	24.24	275.86	53.33	62.97	287.53
17372	-18.94	-3.10	-6.90	40.58	54.36	442.32	47.25	159.78	265.68	32.66	24.15	264.61	47.32	73.79	266.04
17373	-0.61	-2.50	-8.30	61.46	30.31	275.86	3.02	402.02	338.94	368.41	104.86	312.38	10.95	157.58	339.20
17374	-1.84	-2.50	-8.30	65.22	30.06	282.16	9.65	400.55	341.09	352.00	98.23	315.62	12.68	171.70	341.28
17375	-3.07	-2.50	-8.30	70.62	29.90	294.64	18.56	398.42	343.50	336.54	91.41	318.39	19.52	184.86	343.63
17376	-4.30	-2.50	-8.30	76.79	29.84	312.53	27.40	395.56	346.11	321.61	84.47	320.74	27.65	196.68	346.20
17377	-5.52	-2.50	-8.30	82.92	29.84	334.92	35.84	391.90	348.80	306.83	77.51	322.67	35.81	206.79	348.86
17378	-6.75	-2.50	-8.30	88.31	29.84	360.88	43.66	387.30	351.43	291.88	70.60	324.17	43.51	214.89	351.47
17379	-7.98	-2.50	-8.30	92.34	29.78	389.51	50.65	381.63	353.80	276.47	63.85	325.15	50.44	220.62	353.83
17380	-9.21	-2.50	-8.30	94.41	29.57	419.95	56.61	374.69	355.63	260.33	57.35	325.48	56.37	223.58	355.65
17381	-10.43	-2.50	-8.30	93.92	29.15	451.32	61.37	366.20	356.57	243.18	51.19	325.01	61.11	223.26	356.59
17382	-11.66	-2.50	-8.30	90.25	28.52	482.54	64.79	355.76	356.22	224.68	45.43	323.55	64.53	218.92	356.24
17383	-12.89	-2.50	-8.30	82.82	27.82	512.15	66.80	342.72	354.12	204.39	40.11	320.80	66.53	209.42	354.15
17384	-14.12	-2.50	-8.30	71.31	27.36	537.90	67.30	326.05	349.81	181.78	35.39	316.37	67.03	193.15	349.85
17385	-15.34	-2.50	-8.30	56.21	27.74	556.15	66.08	304.20	342.85	156.11	31.61	309.56	65.83	168.16	342.92
17386	-16.57	-2.50	-8.30	39.78	29.74	561.51	62.77	274.97	332.85	126.51	29.46	299.36	62.59	133.41	332.95
17387	-17.80	-2.50	-8.30	27.82	34.07	547.05	56.89	236.00	319.48	92.71	29.55	284.91	56.86	92.03	319.63
17388	-19.03	-2.50	-8.30	27.43	41.02	505.61	48.12	186.34	302.62	56.78	31.73	267.63	48.31	60.02	302.78
17389	-0.61	-3.10	-8.30	61.15	30.19	281.08	3.90	401.02	337.02	365.37	104.00	317.10	13.25	158.06	337.41
17390	-1.83	-3.10	-8.30	64.92	29.92	287.26	9.92	399.58	339.13	349.36	97.56	320.33	13.96	171.94	339.42
17391	-3.06	-3.10	-8.30	70.30	29.74	299.54	18.58	397.48	341.52	334.23	90.92	323.12	19.88	184.87	341.72
17392	-4.28	-3.10	-8.30	76.43	29.64	317.16	27.26	394.65	344.10	319.58	84.14	325.52	27.58	196.49	344.24
17393	-5.50	-3.10	-8.30	82.52	29.59	339.24	35.61	391.01	346.79	305.02	77.30	327.53	35.52	206.42	346.88
17394	-6.72	-3.10	-8.30	87.85	29.57	364.87	43.36	386.42	349.43	290.24	70.50	329.12	43.10	214.35	349.49
17395	-7.94	-3.10	-8.30	91.82	29.49	393.15	50.30	380.74	351.83	274.98	63.83	330.18	49.96	219.91	351.88
17396	-9.17	-3.10	-8.30	93.85	29.28	423.20	56.23	373.76	353.72	258.96	57.40	330.59	55.85	222.71	353.75
17397	-10.39	-3.10	-8.30	93.39	28.89	454.09	60.96	365.23	354.73	241.95	51.29	330.14	60.56	222.24	354.76
17398	-11.61	-3.10	-8.30	89.84	28.31	484.75	64.35	354.76	354.45	223.62	45.57	328.63	63.94	217.79	354.49
17399	-12.83	-3.10	-8.30	82.66	27.68	513.69	66.32	341.75	352.42	203.57	40.28	325.74	65.90	208.29	352.46
17400	-14.05	-3.10	-8.30	71.57	27.32	538.68	66.77	325.22	348.14	181.27	35.56	321.06	66.36	192.18	348.20
17401	-15.28	-3.10	-8.30	57.07	27.83	556.18	65.54	303.67	341.18	155.99	31.76	313.87	65.15	167.60	341.28
17402	-16.50	-3.10	-8.30	41.39	29.97	560.94	62.27	274.93	331.17	126.84	29.61	303.17	61.99	133.62	331.32
17403	-17.72	-3.10	-8.30	29.97	34.40	546.22	56.54	236.68	317.82	93.58	29.79	288.10	56.49	93.37	318.05
17404	-18.94	-3.10	-8.30	28.97	41.38	505.09	48.03	188.00	301.04	58.27	32.25	270.02	48.33	62.28	301.28
17405	-20.06	-2.50	-2.70	124.72	95.73	222.71	189.74	169.05	140.77	363.22	80.38	303.32	189.57	275.68	142.40
17406	-20.91	-2.50	-2.70	58.53	110.82	61.47	107.56	55.77	64.32	202.55	14.55	78.25	107.03	122.46	65.09
17407	-21.75	-2.50	-2.70	38.92	115.31	31.71	60.37	16.12	43.18	103.88	25.45	43.30	59.22	60.21	43.25
17408	-22.60	-2.50	-2.70	24.53	115.87	17.74	31.05	12.13	32.95	43.50	43.96	28.83	28.39	25.19	32.96
17409	-23.44	-2.50	-2.70	8.42	115.46	12.15	15.03	9.42	24.77	9.93	55.47	13.63	8.86	5.30	25.55
17410	-19.98	-3.10	-2.70	129.52	99.57	223.39	187.83	169.49	140.96	364.31	84.08	301.36	187.57	273.10	143.40
17411	-20.83	-3.10	-2.70	61.91	110.96	61.53	106.80	55.98	64.01	203.47	18.17	77.66	105.96	121.14	65.22
17412	-21.68	-3.10	-2.70	41.16	114.84	31.72	60.80	16.38	42.91	104.87	25.43	42.93	59.04	59.69	43.03
17413	-22.52	-3.10	-2.70	26.00	115.44	17.73	32.67	12.40	32.81	44.25	43.45	28.58	28.72	25.35	32.82
17414	-23.37	-3.10	-2.70	9.42	115.37	12.12	17.89	9.78	24.77	10.01	54.71	13.53	9.64	6.08	25.94
17415	-20.06	-2.50	-4.10	31.96	84.20	276.69	78.31	130.74	175.23	67.84	15.20	289.27	78.11	179.04	175.93
17416	-20.91	-2.50	-4.10	39.05	92.52	183.34	71.54	101.63	143.94	108.41	7.89	210.66	70.84	187.66	144.69
17417	-21.75	-2.50	-4.10	28.65	101.84	107.68	50.11	51.88	114.81	85.65	23.04	139.51</			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
17445	-20.06	-2.50	-8.30	31.97	48.81	448.04	38.69	138.11	285.91	28.55	34.52	257.19	39.10	63.53	286.01
17446	-20.91	-2.50	-8.30	32.19	56.30	382.66	30.02	98.80	270.47	13.52	36.85	261.25	30.51	78.51	270.46
17447	-21.75	-2.50	-8.30	27.42	64.43	307.39	21.41	64.86	253.93	10.89	38.82	288.52	21.70	85.95	253.80
17448	-22.60	-2.50	-8.30	17.83	72.80	235.83	14.05	40.70	236.78	10.51	40.29	345.87	13.40	74.66	236.60
17449	-23.44	-2.50	-8.30	6.18	80.51	196.81	9.56	25.86	219.50	4.74	41.21	429.70	6.67	39.27	219.57
17450	-19.98	-3.10	-8.30	32.79	49.14	448.00	38.91	140.63	284.41	30.51	35.44	258.53	39.54	64.98	284.57
17451	-20.83	-3.10	-8.30	32.78	56.59	382.96	30.53	101.86	269.05	15.53	38.16	261.39	31.28	79.41	269.04
17452	-21.68	-3.10	-8.30	27.94	64.65	307.96	22.32	68.60	252.63	11.78	40.53	287.35	22.78	86.98	252.42
17453	-22.52	-3.10	-8.30	18.36	72.95	236.41	15.53	45.29	235.68	10.63	42.36	343.62	14.73	76.50	235.41
17454	-23.37	-3.10	-8.30	6.71	80.58	196.88	11.73	31.63	218.56	4.61	43.56	426.73	8.11	43.48	218.69
17455	18.78	-3.96	-2.70	85.84	108.77	291.25	61.65	130.70	183.91	601.31	87.48	567.98	66.96	284.57	233.48
17456	17.57	-3.96	-2.70	83.92	86.57	353.12	38.41	146.86	202.33	408.20	69.67	554.07	56.40	160.35	214.86
17457	16.36	-3.96	-2.70	80.85	77.53	377.74	25.17	169.83	210.61	289.64	56.53	547.33	59.42	105.36	214.12
17458	15.15	-3.96	-2.70	79.81	68.85	388.82	18.55	197.30	216.77	236.07	43.16	519.57	52.32	126.26	218.91
17459	13.94	-3.96	-2.70	79.21	58.83	387.53	17.04	221.69	222.45	225.51	37.96	453.19	42.51	164.57	223.48
17460	12.73	-3.96	-2.70	77.60	48.78	378.01	17.72	241.67	228.37	229.25	34.13	371.79	36.11	177.79	228.41
17461	11.51	-3.96	-2.70	74.23	39.82	363.14	18.74	258.48	234.43	229.76	29.97	299.13	33.31	167.34	234.05
17462	10.30	-3.96	-2.70	69.27	32.33	344.87	19.43	273.23	240.33	221.56	26.32	249.42	32.25	143.54	240.07
17463	9.09	-3.96	-2.70	63.38	26.23	324.57	19.57	286.43	245.90	205.42	23.66	226.08	31.47	115.10	245.97
17464	7.88	-3.96	-2.70	57.25	21.33	303.32	19.08	298.13	251.09	184.06	22.07	223.14	30.26	87.58	251.48
17465	6.67	-3.95	-2.70	51.37	17.45	282.11	17.94	308.26	255.90	160.19	21.41	231.08	28.41	64.48	256.52
17466	5.45	-3.95	-2.70	46.08	14.45	261.91	16.20	316.71	260.40	135.94	21.50	242.64	25.94	48.79	261.13
17467	4.24	-3.95	-2.70	41.54	12.29	243.79	13.90	323.44	264.64	112.77	22.11	254.00	23.03	43.14	265.40
17468	3.03	-3.95	-2.70	37.80	10.94	228.82	11.11	328.38	268.65	91.65	23.08	263.59	19.87	46.58	269.39
17469	1.82	-3.95	-2.70	34.82	10.39	218.09	7.95	331.54	272.47	73.19	24.25	270.17	16.72	54.49	273.14
17470	0.61	-3.95	-2.70	32.53	10.56	212.52	4.66	332.91	276.10	57.75	25.53	276.19	13.95	63.32	276.69
17471	18.53	-5.08	-2.70	74.77	123.40	273.10	48.65	103.07	176.64	645.52	136.17	574.67	66.78	241.32	220.50
17472	17.33	-5.08	-2.70	76.29	105.70	351.18	31.15	130.12	201.24	409.22	94.77	508.56	64.31	154.84	219.75
17473	16.14	-5.08	-2.70	76.21	89.98	379.24	23.19	164.44	206.54	278.81	65.46	509.76	68.64	101.15	214.40
17474	14.94	-5.08	-2.70	77.24	74.38	391.37	19.38	196.52	212.09	232.28	50.17	494.31	58.63	116.69	216.75
17475	13.75	-5.07	-2.70	78.01	60.23	390.30	18.51	221.37	218.25	227.88	40.65	435.02	48.64	154.77	219.98
17476	12.55	-5.07	-2.70	76.81	48.54	381.15	18.65	240.57	224.72	232.64	33.03	360.64	43.34	166.44	224.53
17477	11.36	-5.07	-2.70	73.28	39.30	366.94	19.01	256.57	231.04	231.29	27.27	296.04	41.13	154.84	230.34
17478	10.16	-5.07	-2.70	68.03	32.04	349.55	19.22	270.76	236.98	220.70	23.29	254.26	39.92	131.12	236.60
17479	8.97	-5.07	-2.70	61.95	26.30	330.29	19.08	283.60	242.46	202.77	20.79	236.61	38.51	103.82	242.63
17480	7.77	-5.06	-2.70	55.77	21.70	310.17	18.46	295.09	247.50	180.50	19.50	236.24	36.47	78.20	248.16
17481	6.58	-5.06	-2.70	49.98	18.02	290.15	17.32	305.09	252.17	156.48	19.18	244.54	33.79	57.62	253.14
17482	5.38	-5.06	-2.70	44.88	15.11	271.16	15.66	313.48	256.53	132.59	19.58	255.51	30.62	45.08	257.65
17483	4.18	-5.06	-2.70	40.59	12.96	254.18	13.51	320.16	260.63	110.11	20.49	266.04	27.19	42.50	261.79
17484	2.99	-5.06	-2.70	37.14	11.56	240.21	10.94	325.10	264.51	89.84	21.70	274.88	23.68	47.57	265.62
17485	1.79	-5.05	-2.70	34.49	10.95	230.23	8.06	328.27	268.20	72.28	23.07	281.67	20.32	55.77	269.21
17486	0.60	-5.05	-2.70	32.57	11.08	225.01	5.20	329.67	271.68	57.75	24.52	286.45	17.40	64.32	272.59
17487	18.21	-6.18	-2.70	78.30	132.04	279.98	54.05	104.28	165.84	642.44	175.00	519.31	96.52	231.37	200.94
17488	17.04	-6.18	-2.70	76.32	116.25	356.94	33.80	132.91	189.22	401.89	110.38	472.54	79.09	156.15	218.63
17489	15.86	-6.18	-2.70	75.82	94.90	384.77	26.29	169.24	198.10	278.69	71.53	485.92	68.05	101.87	217.14
17490	14.69	-6.18	-2.70	77.31	74.57	395.64	22.22	199.61	206.62	240.79	52.80	471.85	58.58	114.45	215.56
17491	13.51	-6.17	-2.70	77.88	58.78	393.92	20.28	221.82	214.29	237.45	40.40	415.02	53.90	145.66	216.32
17492	12.34	-6.17	-2.70	75.89	47.21	384.91	19.58	239.06	221.25	238.11	31.95	347.73	52.16	151.84	220.47
17493	11.16	-6.17	-2.70	71.58	38.61	371.38	19.38	253.90	227.54	231.83	26.17	293.07	51.06	138.06	226.46
17494	9.99	-6.17	-2.70	65.88	32.00	355.03	19.21	267.47	233.24	217.58	22.17	260.77	49.39	114.81	232.80
17495	8.81	-6.17	-2.70	59.68	26.75	337.01	18.81	279.97	238.43	197.65	19.54	249.41	46.84	89.61	238.76
17496	7.64	-6.16	-2.70	53.63	22.47	318.26	18.05	291.26	243.20	174.74	18.12	251.69	43.52	66.99	244.13
17497	6.46	-6.16	-2.70	48.12	18.95	299.65	16.88	301.13	247.64	151.01	17.74	260.34	39.68	50.13	248.94
17498	5.29	-6.16	-2.70	43.38	16.10	282.08	15.29	309.43	251.79	127.97	18.17	270.67	35.60	41.84	253.28
17499	4.11	-6.16	-2.70	39.51	13.90	266.43	13.30	316.07	255.71	106.61	19.14	280.34	31.48	42.67	257.24
17500	2.94	-6.16	-2.70	36.51	12.43	253.61	10.97	320.98	259.41	87.56	20.44	288.37	27.50	49.11	260.89
17501	1.76	-6.15	-2.70	34.34	11.73	244.46	8.42	324.17	262.92	71.23	21.93	294.51	23.83	57.34	264.29
17502	0.59	-6.15	-2.70	32.90	11.82	239.64	6.01	325.61	266.23	57.89	23.50	298.80	20.69	65.42	267.45
17503	17.83	-7.26	-2.70	88.61	136.62	309.94	70.40	128.32	150.55	589.91	197.10	445.07	142.75	235.25	186.97
17504	16.68	-7.26	-2.70	84.02	111.42	374.53	45.54	156.23	175.34	400.10	108.29	466.57	96.49	153.37	227.24
17505	15.53	-7.26	-2.70	80.65	87.52	394.64	32.45	182.42	191.85	298.61	70.91	477.40	72.07	104.40	223.19
17506	14.38	-7.26	-2.70	79.48	68.89	401.16	25.25	204.12	203.46	261.99	52.74	449.19	65.53	115.47	213.87
17507	13.23	-7.26	-2.70	77.40	55.57	397.96	22.40	221.45	211.75	250.13	41.57	391.83	65.27	133.11	212.60
17508	12.08	-7.26	-2.70	73.57	45.89	388.97	21.25	236.37	218.35	241.47	33.76	333.65	65.03	131.77	216.66
17509	10.93	-7.26	-2.70	68.35	38.51	376.26	20.56	250.20	224.03	228.51	27.84	291.33	63.20	116.38	222.58
17510	9.78	-7.26	-2.70	62.43	32.65	361.14	19.91	263.30	229.12	210.57	23.36	269.56	59.86	94.99	228.63
17511	8.63	-7.26	-2.70	56.44	27.83	344.57	19.14	275.54	233.80	189.26	20.18	264.46	55.48	73.33	234.24
17512	7.48	-7.26	-2.70	50.83	23.77	327.40	18.15	286.66	238.16	166.47	18.25	269.20	50.52	55.15	239.28
17513	6.33	-7.26	-2.70	45.89	20.33	310.42	16.88	296.41	242.27	143.75	17.45	278.10	45.37	43.43	243.81
17514	5.18	-7.25	-2.70	41.77	17.46	294.44	15.31	304.61	246.15	122.15	17.56	287.79	40.30	40.18	247.91
17515	4.03	-7.25	-2.70	38.52	15.19	280.27	13.45	311.17	249.84	102.40	18.33	296			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
17543	8.97	-5.07	-4.10	44.56	17.26	363.30	22.62	307.81	261.93	6.95	29.43	263.51	25.90	87.58	262.89
17544	7.77	-5.06	-4.10	38.81	13.17	340.34	21.84	319.19	266.46	4.89	32.33	257.29	24.94	68.72	267.90
17545	6.58	-5.06	-4.10	34.33	9.87	317.68	20.38	328.68	270.52	3.67	34.73	260.68	23.34	53.37	272.21
17546	5.38	-5.06	-4.10	31.05	7.28	296.37	18.26	336.36	274.23	8.68	36.69	268.49	21.12	45.23	275.98
17547	4.18	-5.06	-4.10	28.86	5.44	277.46	15.53	342.30	277.68	16.44	38.23	277.35	18.37	46.25	279.36
17548	2.99	-5.06	-4.10	27.64	4.54	261.98	12.24	346.57	280.94	24.66	39.43	285.55	15.25	53.95	282.48
17549	1.79	-5.05	-4.10	27.22	4.67	250.91	8.50	349.19	284.04	32.36	40.30	292.37	12.00	64.39	285.39
17550	0.60	-5.05	-4.10	27.41	5.54	245.05	4.42	350.21	287.01	38.92	40.91	297.63	9.14	75.22	288.16
17551	18.21	-6.18	-4.10	111.58	102.06	317.44	25.06	146.48	166.76	71.19	193.02	364.64	60.81	159.66	179.80
17552	17.04	-6.18	-4.10	110.42	85.48	387.82	25.67	163.94	189.84	59.36	118.28	432.27	54.98	101.39	205.33
17553	15.86	-6.18	-4.10	100.82	69.45	422.40	23.63	188.48	207.91	71.17	68.10	452.68	43.51	93.11	217.10
17554	14.69	-6.18	-4.10	89.40	55.72	435.13	21.93	214.27	221.24	74.26	38.36	445.62	34.97	100.95	224.28
17555	13.51	-6.17	-4.10	77.77	44.58	434.64	20.98	237.69	231.59	58.42	22.93	412.07	30.14	112.31	231.31
17556	12.34	-6.17	-4.10	67.03	35.74	425.24	20.77	257.93	239.87	36.23	17.22	365.39	28.19	115.09	238.80
17557	11.16	-6.17	-4.10	57.60	28.70	410.08	20.92	275.37	246.69	18.00	17.81	321.75	27.62	107.48	246.22
17558	9.99	-6.17	-4.10	49.52	23.01	391.34	21.02	290.48	252.45	9.56	20.96	291.05	27.32	92.91	252.97
17559	8.81	-6.17	-4.10	42.78	18.33	370.60	20.79	303.58	257.42	8.87	24.56	275.72	26.70	75.61	258.82
17560	7.64	-6.16	-4.10	37.31	14.43	349.10	20.04	314.80	261.80	7.34	27.89	272.71	25.54	59.32	263.79
17561	6.46	-6.16	-4.10	33.08	11.15	327.92	18.72	324.21	265.73	4.67	30.78	277.07	23.80	47.59	268.01
17562	5.29	-6.16	-4.10	30.04	8.44	308.06	16.80	331.86	269.33	7.94	33.18	284.64	21.55	43.60	271.68
17563	4.11	-6.16	-4.10	28.10	6.33	290.50	14.32	337.79	272.68	15.32	35.14	292.83	18.90	47.57	274.93
17564	2.94	-6.16	-4.10	27.13	5.02	276.17	11.34	342.07	275.82	23.27	36.71	300.28	16.01	56.22	277.88
17565	1.76	-6.15	-4.10	26.95	4.78	265.96	7.93	344.73	278.80	30.71	37.93	306.46	13.12	66.46	280.62
17566	0.59	-6.15	-4.10	27.40	5.56	260.52	4.24	345.80	281.61	37.03	38.87	311.23	10.71	76.65	283.18
17567	17.83	-7.26	-4.10	107.50	95.60	345.01	37.47	154.30	154.78	62.29	168.38	349.13	81.61	167.06	171.35
17568	16.68	-7.26	-4.10	103.23	79.81	400.92	31.89	171.23	183.20	48.15	108.68	420.06	65.35	109.98	202.09
17569	15.53	-7.26	-4.10	93.83	65.05	429.39	26.05	193.26	203.70	53.19	65.06	440.74	46.20	93.98	214.62
17570	14.38	-7.26	-4.10	83.34	52.93	439.50	22.13	215.53	217.80	50.98	38.96	428.95	35.34	95.91	220.55
17571	13.23	-7.26	-4.10	72.77	43.34	438.24	20.07	236.17	228.02	36.91	24.01	395.55	31.08	101.38	226.93
17572	12.08	-7.26	-4.10	62.97	35.71	429.23	19.32	254.64	235.87	21.21	16.19	355.28	29.97	100.11	234.34
17573	10.93	-7.26	-4.10	54.30	29.50	415.16	19.19	271.07	242.23	12.83	14.45	321.07	29.71	91.16	241.71
17574	9.78	-7.26	-4.10	46.84	24.33	397.86	19.16	285.64	247.60	13.03	16.77	299.28	29.25	77.50	248.34
17575	8.63	-7.26	-4.10	40.60	19.93	378.75	18.90	298.44	252.25	13.32	20.34	290.13	28.27	62.74	254.02
17576	7.48	-7.26	-4.10	35.59	16.13	358.96	18.22	309.51	256.39	10.97	23.89	290.23	26.73	50.27	258.81
17577	6.33	-7.26	-4.10	31.79	12.80	339.49	17.04	318.83	260.14	7.79	27.05	295.52	24.70	43.35	262.89
17578	5.18	-7.25	-4.10	29.15	9.93	321.30	15.34	326.43	263.59	9.03	29.75	302.87	22.31	43.79	266.41
17579	4.03	-7.25	-4.10	27.58	7.54	305.27	13.14	332.35	266.80	15.13	32.00	310.40	19.69	50.03	269.51
17580	2.88	-7.25	-4.10	26.96	5.82	292.25	10.48	336.63	269.80	22.39	33.86	317.14	16.97	59.03	272.31
17581	1.73	-7.25	-4.10	27.11	5.17	282.98	7.44	339.31	272.62	29.32	35.39	322.69	14.39	68.72	274.86
17582	0.58	-7.25	-4.10	27.87	5.75	278.03	4.21	340.44	275.27	35.28	36.62	326.94	12.30	78.07	277.22
17583	18.78	-3.96	-5.50	157.01	78.40	368.82	8.50	168.25	197.82	502.95	213.67	312.25	9.60	194.41	210.48
17584	17.57	-3.96	-5.50	157.36	65.15	427.32	11.09	186.54	219.50	511.21	140.56	431.70	12.82	125.50	226.90
17585	16.36	-3.96	-5.50	146.82	52.42	461.65	17.36	210.44	237.23	485.50	79.02	477.83	18.29	97.01	240.48
17586	15.15	-3.96	-5.50	129.40	41.16	474.22	22.14	237.34	251.04	442.95	32.55	474.53	22.04	87.77	251.81
17587	13.94	-3.96	-5.50	109.85	31.50	471.15	25.78	263.50	261.68	391.38	5.60	441.85	25.83	85.78	261.48
17588	12.73	-3.96	-5.50	90.96	23.31	457.67	28.48	286.74	269.99	337.25	25.50	394.21	29.20	85.58	269.72
17589	11.51	-3.96	-5.50	74.35	16.51	437.50	30.26	306.36	276.57	287.01	40.92	344.83	31.50	83.03	276.70
17590	10.30	-3.96	-5.50	60.70	11.08	413.32	31.08	322.56	281.87	244.88	51.11	304.24	32.49	76.55	282.51
17591	9.09	-3.96	-5.50	50.07	7.09	387.09	30.90	335.78	286.22	212.30	57.67	278.02	32.24	67.03	287.31
17592	7.88	-3.96	-5.50	42.19	4.93	360.28	29.71	346.47	289.87	188.74	61.77	266.23	30.87	56.90	291.25
17593	6.67	-3.95	-5.50	36.63	4.88	334.13	27.56	354.98	293.04	172.66	64.15	265.12	28.51	49.57	294.54
17594	5.45	-3.95	-5.50	32.99	5.94	309.75	24.53	361.60	295.89	162.23	65.33	270.01	25.28	48.47	297.38
17595	4.24	-3.95	-5.50	30.91	7.15	288.23	20.71	366.52	298.56	155.71	65.63	277.28	21.29	54.42	299.94
17596	3.03	-3.95	-5.50	30.12	8.18	270.67	16.23	369.91	301.14	151.65	65.27	284.79	16.67	65.10	302.35
17597	1.82	-3.95	-5.50	30.41	8.99	258.11	11.22	371.87	303.68	148.87	64.38	291.53	11.53	77.86	304.71
17598	0.61	-3.95	-5.50	31.55	9.59	251.44	5.89	372.46	306.21	146.47	63.10	297.10	6.00	91.03	307.06
17599	18.53	-5.08	-5.50	153.35	77.41	368.78	11.04	165.39	197.43	487.11	208.06	307.85	9.23	180.98	213.33
17600	17.33	-5.08	-5.50	153.84	64.81	428.13	14.60	185.75	216.58	492.45	129.91	418.52	16.56	118.71	225.96
17601	16.14	-5.08	-5.50	142.07	52.39	462.96	19.83	210.19	233.37	463.40	69.48	461.51	20.09	93.35	237.48
17602	14.94	-5.08	-5.50	124.02	41.32	475.80	23.35	236.70	246.95	419.51	26.80	459.14	23.41	84.15	247.80
17603	13.75	-5.07	-5.50	104.61	31.88	473.38	25.85	262.05	257.60	368.18	6.36	429.98	26.95	80.96	257.16
17604	12.55	-5.07	-5.50	86.35	24.01	460.90	27.67	284.44	265.95	315.67	24.07	387.55	29.71	79.44	265.54
17605	11.36	-5.07	-5.50	70.53	17.61	441.91	28.85	303.41	272.55	268.09	37.42	344.33	31.25	75.96	272.81
17606	10.16	-5.07	-5.50	57.65	12.58	419.00	29.33	319.19	277.85	229.02	46.56	309.83	31.62	69.27	278.91
17607	8.97	-5.07	-5.50	47.67	8.87	394.03	29.00	332.18	282.17	199.33	52.79	288.42	30.97	60.48	283.90
17608	7.77	-5.06	-5.50	40.30	6.58	368.46	27.81	342.76	285.79	178.20	56.98	279.47	29.41	52.13	287.94
17609	6.58	-5.06	-5.50	35.13	5.77	343.52	25.77	351.25	288.93	163.99	59.69	279.42	27.04	47.52	291.24
17610	5.38	-5.06	-5.50	31.75	6.06	320.30	22.93	357.87	291.76	154.93	61.29	284.26	23.93	49.16	294.02
17611	4.18	-5.06	-5.50	29.86	6.82	299.86	19.37	362.81	294.39	149.39	62.05	291.02	20.13	56.66	296.48
17612	2.99	-5.06	-5.50	29.19	7.66	283.24	15.20	366.23	296.91	146.01	62.14	297.92	15.75	67.66	298.75
17613	1.79	-5.05	-5.50	29.57	8.43	271.40	10.55	368.22	299.37	143.71	61.71	304.11	10.88	80.06	300.94
17614	0.60	-5.05	-5.5												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
17641	6.33	-7.26	-5.50	31.65	8.86	366.98	21.08	340.72	278.63	142.64	49.35	314.90	22.67	48.29	282.35
17642	5.18	-7.25	-5.50	28.98	7.39	346.80	18.83	347.32	281.38	136.80	51.82	319.82	20.03	54.58	285.02
17643	4.03	-7.25	-5.50	27.58	6.62	329.16	15.98	352.28	283.91	133.46	53.52	325.63	16.86	63.69	287.29
17644	2.88	-7.25	-5.50	27.29	6.53	314.92	12.63	355.74	286.30	131.59	54.58	331.33	13.18	74.20	289.31
17645	1.73	-7.25	-5.50	27.97	6.94	304.82	8.88	357.81	288.57	130.36	55.11	336.40	9.06	85.11	291.18
17646	0.58	-7.25	-5.50	29.44	7.70	299.43	5.06	358.55	290.74	129.15	55.21	340.64	4.57	95.81	292.95
17647	18.78	-3.96	-6.90	242.22	69.05	441.58	12.63	175.52	228.55	983.67	233.85	317.36	24.31	182.99	244.64
17648	17.57	-3.96	-6.90	218.68	53.57	491.50	13.49	202.72	248.79	943.57	144.05	433.99	16.29	153.75	255.93
17649	16.36	-3.96	-6.90	191.61	40.15	516.46	21.81	235.65	264.88	862.71	70.90	482.50	25.19	130.36	267.32
17650	15.15	-3.96	-6.90	164.33	29.14	521.55	28.92	266.66	277.49	768.29	19.09	477.67	35.34	109.72	277.83
17651	13.94	-3.96	-6.90	139.11	20.50	512.39	34.19	293.53	287.15	675.83	27.27	444.07	43.37	91.06	286.93
17652	12.73	-3.96	-6.90	117.25	14.38	493.89	37.83	315.85	294.42	591.96	52.85	399.49	48.56	75.72	294.44
17653	11.51	-3.96	-6.90	99.15	11.23	469.65	40.00	333.94	299.82	519.26	70.56	355.91	51.11	65.12	300.37
17654	10.30	-3.96	-6.90	84.64	11.05	442.18	40.76	348.40	303.82	458.51	82.05	320.94	51.42	58.85	304.92
17655	9.09	-3.96	-6.90	73.21	12.51	413.30	40.17	359.83	306.80	409.24	89.05	298.07	49.90	55.64	308.32
17656	7.88	-3.96	-6.90	64.23	14.33	384.39	38.29	368.75	309.11	370.20	92.87	286.86	46.93	55.17	310.86
17657	6.67	-3.95	-6.90	57.13	15.92	356.61	35.23	375.60	311.02	339.70	94.42	284.40	42.79	58.07	312.81
17658	5.45	-3.95	-6.90	51.51	17.16	331.04	31.13	380.72	312.73	315.96	94.37	287.19	37.73	64.78	314.44
17659	4.24	-3.95	-6.90	47.22	18.03	308.70	26.15	384.37	314.40	297.35	93.16	292.42	31.94	74.84	315.93
17660	3.03	-3.95	-6.90	44.33	18.59	290.63	20.45	386.75	316.12	282.44	91.10	298.30	25.64	87.23	317.43
17661	1.82	-3.95	-6.90	43.00	18.90	277.78	14.23	387.99	317.94	270.07	88.39	303.90	19.09	100.85	319.03
17662	0.61	-3.95	-6.90	43.32	19.02	270.95	7.86	388.20	319.92	259.29	85.20	308.83	12.78	114.85	320.79
17663	18.53	-5.08	-6.90	232.82	67.43	442.86	14.86	175.00	227.15	962.30	213.71	318.07	24.63	178.72	248.66
17664	17.33	-5.08	-6.90	210.04	51.63	491.34	18.50	203.30	245.85	917.83	120.81	423.37	26.72	152.77	255.31
17665	16.14	-5.08	-6.90	183.03	39.13	516.16	25.15	235.68	261.28	831.21	53.69	467.83	36.94	130.97	264.35
17666	14.94	-5.08	-6.90	156.13	29.10	522.07	30.50	265.63	273.66	734.44	12.50	464.16	46.39	110.98	273.95
17667	13.75	-5.07	-6.90	131.68	21.27	514.25	34.40	291.48	283.24	642.69	30.81	434.72	52.76	92.48	282.87
17668	12.55	-5.07	-6.90	110.82	15.70	497.31	37.08	313.04	290.47	561.33	52.49	395.79	56.04	77.00	290.53
17669	11.36	-5.07	-6.90	93.77	12.62	474.63	38.61	330.66	295.82	492.02	67.48	358.18	56.80	66.09	296.73
17670	10.16	-5.07	-6.90	80.26	11.94	448.61	39.01	344.86	299.76	434.90	77.43	328.53	55.63	59.64	301.50
17671	8.97	-5.07	-6.90	69.73	12.79	421.04	38.24	356.18	302.70	389.07	83.74	309.56	52.99	56.75	305.05
17672	7.77	-5.06	-6.90	61.50	14.15	393.32	36.35	365.07	304.97	353.05	87.43	300.56	49.20	57.13	307.65
17673	6.58	-5.06	-6.90	54.98	15.48	366.67	33.40	371.92	306.85	325.08	89.20	298.91	44.51	60.97	309.58
17674	5.38	-5.06	-6.90	49.79	16.58	342.15	29.51	377.04	308.54	303.42	89.56	301.65	39.11	68.24	311.13
17675	4.18	-5.06	-6.90	45.80	17.41	320.79	24.82	380.70	310.17	286.49	88.85	306.44	33.17	78.32	312.49
17676	2.99	-5.06	-6.90	43.10	17.99	303.55	19.50	383.09	311.84	272.94	87.33	311.80	26.85	90.29	313.84
17677	1.79	-5.05	-6.90	41.89	18.36	291.33	13.76	384.37	313.60	261.67	85.17	316.95	20.41	103.26	315.26
17678	0.60	-5.05	-6.90	42.27	18.55	284.83	8.07	384.61	315.49	251.81	82.52	321.52	14.30	116.50	316.83
17679	18.21	-6.18	-6.90	223.47	63.89	446.59	20.18	174.78	223.94	947.91	167.06	322.92	35.34	179.74	249.61
17680	17.04	-6.18	-6.90	198.10	49.50	492.17	24.66	203.93	242.13	880.32	88.12	413.53	47.76	155.52	252.99
17681	15.86	-6.18	-6.90	170.78	38.61	516.13	28.62	235.50	257.30	784.22	35.33	452.20	56.83	134.15	260.58
17682	14.69	-6.18	-6.90	144.88	29.90	522.67	31.63	264.13	269.46	686.52	12.85	449.52	62.34	113.76	269.57
17683	13.51	-6.17	-6.90	121.98	23.05	516.31	33.92	288.75	278.86	597.97	32.83	424.80	64.66	94.82	278.30
17684	12.34	-6.17	-6.90	102.76	18.06	501.16	35.57	309.38	285.92	521.55	50.28	392.33	64.49	79.13	286.04
17685	11.16	-6.17	-6.90	87.24	14.96	480.29	36.49	326.42	291.15	457.70	62.73	361.51	62.57	68.10	292.44
17686	9.99	-6.17	-6.90	75.06	13.64	455.98	36.56	340.31	295.02	405.81	71.38	337.79	59.48	61.72	297.42
17687	8.81	-6.17	-6.90	65.63	13.61	429.97	35.69	351.49	297.92	364.60	77.21	323.07	55.52	59.34	301.11
17688	7.64	-6.16	-6.90	58.27	14.27	403.70	33.86	360.33	300.18	332.43	80.92	316.46	50.87	60.53	303.77
17689	6.46	-6.16	-6.90	52.43	15.13	378.40	31.11	367.15	302.07	307.58	83.02	315.73	45.67	65.08	305.72
17690	5.29	-6.16	-6.90	47.72	15.98	355.15	27.53	372.27	303.77	288.41	83.88	318.48	40.00	72.59	307.22
17691	4.11	-6.16	-6.90	44.07	16.69	334.95	23.24	375.92	305.39	273.45	83.76	322.88	33.96	82.40	308.49
17692	2.94	-6.16	-6.90	41.59	17.24	318.72	18.41	378.33	307.03	261.47	82.87	327.73	27.68	93.72	309.71
17693	1.76	-6.15	-6.90	40.52	17.65	307.23	13.27	379.62	308.73	251.49	81.35	332.40	21.37	105.83	310.97
17694	0.59	-6.15	-6.90	40.99	17.91	301.12	8.43	379.91	310.51	242.68	79.31	336.61	15.43	118.14	312.33
17695	17.83	-7.26	-6.90	208.71	59.36	451.20	30.05	174.63	221.34	911.93	108.66	331.39	76.48	186.77	250.72
17696	16.68	-7.26	-6.90	180.63	48.23	492.85	30.76	204.51	239.20	817.17	57.15	404.81	82.83	162.20	250.88
17697	15.53	-7.26	-6.90	154.35	39.39	515.67	31.03	234.93	253.85	716.23	23.16	436.36	82.67	139.42	257.08
17698	14.38	-7.26	-6.90	130.82	32.04	522.90	31.57	261.99	265.44	622.95	16.70	434.57	80.31	117.49	265.26
17699	13.23	-7.26	-6.90	110.46	26.07	518.22	32.36	285.19	274.33	541.79	32.21	415.05	76.69	97.81	273.57
17700	12.08	-7.26	-6.90	93.54	21.46	505.10	33.13	304.79	281.02	473.46	45.91	389.68	72.17	82.15	281.19
17701	10.93	-7.26	-6.90	79.97	18.20	486.28	33.59	321.18	286.02	417.37	56.42	366.21	67.28	71.41	287.64
17702	9.78	-7.26	-6.90	69.36	16.19	463.92	33.46	334.72	289.78	372.27	64.18	348.73	62.23	65.44	292.73
17703	8.63	-7.26	-6.90	61.16	15.22	439.74	32.60	345.72	292.67	336.70	69.77	338.38	57.04	63.63	296.53
17704	7.48	-7.26	-6.90	54.75	14.98	415.20	30.93	354.46	294.97	309.06	73.66	334.24	51.66	65.40	299.28
17705	6.33	-7.26	-6.90	49.60	15.17	391.53	28.47	361.24	296.91	287.76	76.19	334.52	46.07	70.26	301.27
17706	5.18	-7.25	-6.90	45.40	15.56	369.82	25.28	366.32	298.64	271.35	77.61	337.40	40.25	77.61	302.78
17707	4.03	-7.25	-6.90	42.10	16.02	351.01	21.48	369.96	300.29	258.55	78.12	341.50	34.22	86.83	304.03
17708	2.88	-7.25	-6.90	39.87	16.46	335.93	17.22	372.36	301.90	248.29	77.89	345.90	28.06	97.26	305.16
17709	1.73	-7.25	-6.90	38.97	16.85	325.31	12.79	373.68	303.54	239.68	77.05	350.14	21.93	108.33	306.28
17710	0.58	-7.25	-6.90	39.54	17.18	319.66	8.86	374.02	305.21	232.02	75.68	353.99	16.17	119.55	307.47
17711	18.78	-3.96	-8.30	323.58	64.79	530.41	13.90	182.08	266.44						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
17739	4.18	-5.06	-8.30	69.17	30.00	339.98	31.65	394.75	324.39	424.80	117.55	322.98	50.49	110.48	326.74
17740	2.99	-5.06	-8.30	63.29	30.03	322.75	24.83	396.00	325.14	402.48	114.01	326.88	41.62	121.27	327.12
17741	1.79	-5.05	-8.30	59.41	29.93	310.63	17.67	396.50	326.18	383.26	109.82	330.82	32.98	133.50	327.78
17742	0.60	-5.05	-8.30	58.12	29.73	304.22	10.84	396.37	327.52	366.33	105.11	334.55	25.15	146.48	328.77
17743	18.21	-6.18	-8.30	292.07	55.01	527.51	28.31	188.18	260.92	1404.74	142.99	383.76	65.62	245.36	290.63
17744	17.04	-6.18	-8.30	242.53	40.38	558.86	34.59	231.56	276.88	1236.65	58.18	449.42	90.73	260.27	288.43
17745	15.86	-6.18	-8.30	202.65	31.46	569.83	39.77	269.43	289.72	1075.21	28.78	467.09	104.09	247.06	292.84
17746	14.69	-6.18	-8.30	172.05	26.27	566.42	43.90	299.28	299.69	935.37	50.96	453.96	109.50	218.58	299.76
17747	13.51	-6.17	-8.30	149.02	23.85	553.05	47.07	322.30	307.01	819.43	73.28	427.17	110.06	185.60	306.77
17748	12.34	-6.17	-8.30	131.61	23.40	532.93	49.18	340.23	312.02	724.86	89.43	397.94	107.50	155.09	312.69
17749	11.16	-6.17	-8.30	118.14	24.08	508.40	50.11	354.32	315.16	647.97	100.52	372.49	102.84	130.77	317.08
17750	9.99	-6.17	-8.30	107.25	25.21	481.29	49.72	365.37	316.96	585.35	107.73	353.64	96.68	113.91	319.95
17751	8.81	-6.17	-8.30	97.93	26.36	453.13	48.01	373.87	317.89	534.22	111.99	341.87	89.37	104.17	321.56
17752	7.64	-6.16	-8.30	89.48	27.35	425.26	45.05	380.23	318.37	492.42	114.02	336.17	81.19	100.48	322.31
17753	6.46	-6.16	-8.30	81.52	28.11	398.84	40.98	384.84	318.68	458.14	114.36	334.88	72.41	101.65	322.56
17754	5.29	-6.16	-8.30	74.00	28.63	374.89	35.99	388.03	319.03	429.86	113.41	336.33	63.27	106.64	322.60
17755	4.11	-6.16	-8.30	67.17	28.95	354.32	30.27	390.10	319.53	406.30	111.46	339.22	53.99	114.53	322.66
17756	2.94	-6.16	-8.30	61.58	29.10	337.94	24.05	391.31	320.25	386.38	108.71	342.69	44.79	124.49	322.89
17757	1.76	-6.15	-8.30	57.89	29.12	326.44	17.67	391.80	321.22	369.21	105.31	346.27	35.95	135.81	323.38
17758	0.59	-6.15	-8.30	56.70	29.03	320.36	11.96	391.69	322.47	354.03	101.38	349.72	27.95	147.84	324.17
17759	17.83	-7.26	-8.30	265.58	48.11	524.70	41.01	191.93	257.45	1323.66	78.06	381.96	136.41	267.98	291.75
17760	16.68	-7.26	-8.30	217.74	38.25	554.19	42.12	233.21	272.94	1138.53	33.67	434.55	145.59	268.33	286.44
17761	15.53	-7.26	-8.30	181.68	31.93	566.15	43.19	268.25	285.40	981.11	35.36	449.98	143.39	247.51	289.04
17762	14.38	-7.26	-8.30	155.02	27.79	565.19	44.64	296.00	295.02	852.06	54.09	441.41	137.17	216.37	295.05
17763	13.23	-7.26	-8.30	135.36	25.41	554.76	46.13	317.77	302.03	747.74	70.36	421.94	129.60	183.71	301.71
17764	12.08	-7.26	-8.30	120.70	24.42	537.43	47.20	335.06	306.81	663.79	82.75	400.21	121.34	155.01	307.62
17765	10.93	-7.26	-8.30	109.45	24.38	515.31	47.49	348.89	309.84	596.08	91.89	381.13	112.79	132.82	312.16
17766	9.78	-7.26	-8.30	100.36	24.86	490.20	46.79	359.84	311.63	541.13	98.26	366.95	103.97	117.72	315.23
17767	8.63	-7.26	-8.30	92.49	25.56	463.74	45.01	368.27	312.62	496.41	102.40	358.14	94.82	109.07	317.03
17768	7.48	-7.26	-8.30	85.16	26.27	437.38	42.19	374.54	313.20	459.94	104.80	354.00	85.38	105.82	317.92
17769	6.33	-7.26	-8.30	78.05	26.89	412.37	38.44	379.03	313.63	430.11	105.78	353.29	75.75	106.90	318.26
17770	5.18	-7.25	-8.30	71.14	27.40	389.73	33.91	382.11	314.07	405.56	105.62	354.75	66.06	111.40	318.35
17771	4.03	-7.25	-8.30	64.76	27.76	370.35	28.78	384.09	314.62	385.13	104.53	357.37	56.45	118.50	318.39
17772	2.88	-7.25	-8.30	59.47	28.00	354.97	23.29	385.24	315.35	367.85	102.67	360.51	47.06	127.49	318.55
17773	1.73	-7.25	-8.30	55.99	28.12	344.21	17.85	385.71	316.28	352.92	100.16	363.76	38.13	137.75	318.91
17774	0.58	-7.25	-8.30	54.93	28.15	338.54	13.33	385.62	317.43	339.67	97.09	366.97	30.02	148.71	319.53
17775	23.24	-3.96	-2.70	270.87	349.81	253.46	243.16	162.67	243.37	423.75	771.21	870.85	234.70	739.64	1202.36
17776	22.38	-3.96	-2.70	217.94	155.80	196.03	160.68	141.04	169.96	581.05	564.93	506.00	151.63	524.04	489.10
17777	21.53	-3.96	-2.70	177.18	149.29	183.59	124.23	125.52	150.03	680.62	403.50	290.01	120.88	428.18	265.23
17778	20.67	-3.96	-2.70	149.83	155.05	177.79	96.72	120.37	145.53	793.27	283.86	165.99	109.81	402.95	178.16
17779	19.82	-3.96	-2.70	120.82	144.57	207.01	87.24	132.26	157.30	961.77	159.07	374.51	79.98	509.47	187.79
17780	23.02	-5.07	-2.70	21.49	159.61	24.58	52.51	18.93	72.04	92.68	203.18	212.54	46.88	47.09	287.81
17781	22.15	-5.07	-2.70	88.85	156.88	29.14	101.76	31.78	81.24	340.10	123.26	98.51	115.07	133.67	168.39
17782	21.29	-5.08	-2.70	112.35	157.46	31.41	77.72	40.83	73.60	600.51	166.82	42.87	67.21	177.03	93.60
17783	20.42	-5.08	-2.70	123.13	156.03	43.27	40.28	51.65	74.69	843.65	207.13	53.17	29.17	234.86	82.66
17784	19.56	-5.08	-2.70	106.32	147.28	132.27	58.89	91.11	118.51	1126.87	175.89	408.50	71.57	454.38	126.85
17785	22.75	-6.17	-2.70	25.67	172.69	20.39	33.15	23.72	67.86	49.14	153.21	214.76	100.82	72.53	118.98
17786	21.87	-6.18	-2.70	85.17	178.52	28.46	91.32	20.10	79.75	349.28	101.12	119.17	183.70	148.38	168.61
17787	20.99	-6.18	-2.70	126.49	159.96	31.93	56.13	39.37	67.27	664.15	181.51	58.17	126.90	189.97	86.72
17788	20.12	-6.18	-2.70	136.75	154.47	47.26	16.95	51.07	67.96	900.43	250.67	45.31	35.99	230.09	73.05
17789	19.24	-6.18	-2.70	116.47	153.18	139.80	67.43	91.37	112.20	1139.29	233.08	371.02	88.01	418.60	112.57
17790	22.42	-7.26	-2.70	231.15	372.42	188.86	191.26	108.61	215.27	441.69	540.00	828.53	426.49	511.24	1171.37
17791	21.53	-7.26	-2.70	195.41	150.61	136.07	114.50	115.75	134.35	637.47	399.16	485.11	251.72	477.46	387.45
17792	20.64	-7.26	-2.70	175.83	143.68	126.73	81.74	110.69	105.86	812.53	421.31	269.46	82.55	374.10	178.13
17793	19.75	-7.26	-2.70	160.06	139.35	135.47	83.02	105.86	96.47	904.93	362.29	117.19	134.11	334.99	111.26
17794	18.86	-7.26	-2.70	131.35	153.21	199.27	101.57	116.78	114.04	978.07	297.16	287.54	183.96	391.05	115.01
17795	23.24	-3.96	-4.10	128.64	154.06	170.71	90.13	137.61	170.38	108.85	436.63	917.08	126.33	858.34	1127.83
17796	22.38	-3.96	-4.10	93.04	114.07	166.97	50.38	139.11	133.71	88.29	358.98	591.09	85.39	687.81	429.79
17797	21.53	-3.96	-4.10	74.46	111.22	177.46	35.94	134.42	128.09	111.10	321.42	336.79	65.54	562.58	223.90
17798	20.67	-3.96	-4.10	70.79	105.44	205.93	24.22	139.31	137.70	118.50	269.48	162.10	36.18	479.95	171.69
17799	19.82	-3.96	-4.10	83.55	99.69	252.67	14.88	147.65	153.82	39.88	229.22	254.03	10.97	352.77	175.31
17800	23.02	-5.07	-4.10	10.49	106.91	114.38	37.29	36.58	141.17	22.57	558.45	646.95	144.82	238.89	504.76
17801	22.15	-5.07	-4.10	47.98	114.15	113.42	65.34	67.76	150.98	50.70	450.43	404.51	123.35	403.54	290.98
17802	21.29	-5.08	-4.10	54.13	113.41	127.60	54.83	92.10	147.51	120.47	369.47	227.65	92.07	437.34	182.20
17803	20.42	-5.08	-4.10	62.87	110.34	165.61	32.95	114.08	152.73	148.41	309.25	119.17	47.11	417.26	167.68
17804	19.56	-5.08	-4.10	84.63	106.57	227.39	17.20	132.35	161.95	53.59	263.45	256.04	7.18	302.37	176.78
17805	22.75	-6.17	-4.10	14.34	93.06	93.90	34.28	26.60	131.95	24.68	518.61	638.82	97.50	117.84	173.68
17806	21.87	-6.18	-4.10	45.11	121.32	99.52	68.04	55.95	139.56	85.88	417.20	412.49	103.36	414.43	212.33
17807	20.99	-6.18	-4.10	63.54	122.46	120.47	47.87	89.81	133.32	149.76	365.72	241.02	62.03	448.10	137.49
17808	20.12	-6.18	-4.10	73.43	118.12	165.63	24.83	113.28	137.25	162.98	3				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
17837	21.53	-3.96	-6.90	259.46	98.10	225.05	64.01	184.45	161.31	811.31	388.75	614.42	231.83	351.46	242.03
17838	20.67	-3.96	-6.90	262.03	91.99	307.81	40.64	174.28	186.44	903.03	364.97	371.94	127.48	265.89	231.08
17839	19.82	-3.96	-6.90	256.93	82.58	378.27	24.75	167.44	207.68	968.18	313.42	243.96	61.24	218.21	235.78
17840	23.02	-5.07	-6.90	34.11	102.94	152.50	36.73	24.56	127.63	40.15	431.78	667.92	150.82	251.43	393.47
17841	22.15	-5.07	-6.90	125.44	124.76	139.72	87.14	140.13	146.30	349.81	524.71	746.19	304.56	344.26	272.41
17842	21.29	-5.08	-6.90	202.61	114.65	226.16	64.10	169.57	169.53	628.18	486.74	590.63	200.73	302.98	236.38
17843	20.42	-5.08	-6.90	236.12	100.22	310.24	39.82	167.04	190.53	826.80	409.46	367.72	100.93	248.95	241.02
17844	19.56	-5.08	-6.90	243.37	84.10	380.82	23.14	163.93	208.58	936.94	314.86	250.75	45.40	209.57	244.89
17845	22.75	-6.17	-6.90	36.43	86.99	158.66	39.80	29.22	124.20	35.84	351.83	664.64	130.63	194.46	157.57
17846	21.87	-6.18	-6.90	111.11	132.25	149.19	54.44	138.69	152.74	307.30	553.61	759.23	108.26	372.23	157.24
17847	20.99	-6.18	-6.90	199.85	125.19	236.29	40.66	167.37	171.18	647.90	509.66	598.03	56.06	320.19	219.71
17848	20.12	-6.18	-6.90	235.06	101.66	319.34	25.07	163.03	189.14	861.10	382.26	372.25	28.28	252.54	247.86
17849	19.24	-6.18	-6.90	238.62	81.09	387.74	18.64	161.11	206.04	952.64	266.47	263.63	24.51	209.42	250.52
17850	22.42	-7.26	-6.90	136.52	129.24	142.56	88.82	95.34	180.65	425.64	440.40	897.34	169.75	647.67	541.59
17851	21.53	-7.26	-6.90	213.26	146.00	168.90	41.84	171.96	147.96	689.60	540.78	846.26	111.30	551.36	168.80
17852	20.64	-7.26	-6.90	247.67	117.68	256.06	17.03	171.03	165.00	885.57	402.12	604.91	44.46	364.53	266.20
17853	19.75	-7.26	-6.90	248.86	90.65	334.20	20.69	158.28	184.97	971.94	268.19	369.77	22.87	264.16	272.69
17854	18.86	-7.26	-6.90	233.35	72.80	397.46	27.12	157.61	203.11	973.29	177.16	278.66	57.24	215.63	259.26
17855	23.24	-3.96	-8.30	517.54	220.99	70.65	165.18	280.03	144.81	1188.32	717.00	1253.93	688.26	483.38	603.83
17856	22.38	-3.96	-8.30	512.27	132.88	171.93	105.37	243.82	145.87	1473.88	498.43	1049.47	456.20	261.59	369.62
17857	21.53	-3.96	-8.30	468.89	113.28	305.15	69.73	194.22	192.12	1581.18	481.85	672.62	246.48	194.33	319.35
17858	20.67	-3.96	-8.30	420.24	98.06	405.42	44.77	159.44	224.25	1601.26	428.20	371.20	117.74	163.65	296.24
17859	19.82	-3.96	-8.30	374.19	82.52	476.60	25.78	154.82	246.84	1565.41	343.50	298.76	51.34	182.65	286.79
17860	23.02	-5.07	-8.30	373.18	149.37	92.45	78.50	278.17	116.86	546.19	487.18	869.18	300.15	282.86	227.98
17861	22.15	-5.07	-8.30	429.00	145.47	175.44	95.60	249.90	159.65	1070.88	654.32	948.83	360.70	270.94	334.93
17862	21.29	-5.08	-8.30	423.73	125.90	309.70	67.32	195.09	201.20	1389.35	594.55	644.28	194.99	201.03	326.94
17863	20.42	-5.08	-8.30	394.42	104.02	408.40	40.28	159.10	227.61	1521.43	468.54	369.53	81.82	157.03	310.53
17864	19.56	-5.08	-8.30	356.65	82.14	477.54	23.12	156.39	246.73	1527.62	332.94	305.00	37.36	183.77	296.93
17865	22.75	-6.17	-8.30	368.54	133.86	78.67	81.00	263.35	116.21	567.65	461.63	825.30	267.52	288.99	116.37
17866	21.87	-6.18	-8.30	410.33	149.82	191.95	71.38	243.88	173.87	1070.75	713.91	949.99	126.94	256.88	227.23
17867	20.99	-6.18	-8.30	411.01	132.70	320.22	45.75	187.63	205.40	1433.35	610.72	640.78	45.82	186.58	304.51
17868	20.12	-6.18	-8.30	382.33	100.98	414.00	27.42	154.16	227.13	1557.59	419.35	371.36	27.05	166.47	312.26
17869	19.24	-6.18	-8.30	341.52	74.98	479.26	23.67	156.93	244.35	1528.32	263.50	313.74	34.81	204.05	300.82
17870	22.42	-7.26	-8.30	443.11	165.24	70.00	68.20	252.40	153.14	1144.47	656.15	1137.55	127.24	398.93	381.86
17871	21.53	-7.26	-8.30	463.62	164.73	216.66	40.47	225.05	175.29	1551.86	699.77	1019.47	127.68	275.79	237.26
17872	20.64	-7.26	-8.30	427.32	120.18	335.10	27.05	168.60	202.59	1692.28	463.61	626.73	52.91	203.83	329.80
17873	19.75	-7.26	-8.30	373.44	83.62	420.79	32.88	145.17	223.97	1639.61	271.42	365.21	52.88	209.03	325.66
17874	18.86	-7.26	-8.30	319.16	62.15	480.46	38.46	157.65	241.10	1502.34	155.07	323.13	106.55	242.53	306.40
17875	-0.61	-3.95	-2.70	30.81	11.32	212.65	2.71	332.46	279.53	45.56	26.83	279.46	12.12	71.45	280.04
17876	-1.82	-3.95	-2.70	29.54	12.52	218.45	5.17	330.17	282.72	36.73	28.15	281.02	11.91	78.21	283.14
17877	-3.03	-3.95	-2.70	28.61	14.08	229.34	9.20	325.99	285.63	31.29	29.46	281.05	13.49	83.30	285.96
17878	-4.24	-3.95	-2.70	27.93	15.93	244.39	13.56	319.86	288.18	28.99	30.78	279.67	16.39	86.55	288.43
17879	-5.45	-3.95	-2.70	27.50	18.07	262.53	18.02	311.68	290.29	29.42	32.16	276.98	20.02	87.86	290.46
17880	-6.66	-3.96	-2.70	27.35	20.50	282.66	22.52	301.36	291.86	32.22	33.62	273.01	24.02	87.17	291.96
17881	-7.88	-3.96	-2.71	27.59	23.25	303.80	27.02	288.81	292.78	37.25	35.24	267.80	28.20	84.46	292.79
17882	-9.09	-3.96	-2.71	28.39	26.35	325.00	31.55	273.95	292.92	44.53	37.07	261.51	32.50	79.80	292.85
17883	-10.30	-3.96	-2.71	29.94	29.84	345.39	36.20	256.74	292.15	54.12	39.20	254.53	36.96	73.45	291.98
17884	-11.51	-3.96	-2.71	32.39	33.77	364.10	41.13	237.22	290.33	66.07	41.74	247.73	41.71	66.04	290.06
17885	-12.72	-3.96	-2.71	35.83	38.21	380.31	46.62	215.61	287.33	80.46	44.85	242.90	47.03	58.98	286.96
17886	-13.93	-3.96	-2.71	40.39	43.24	393.25	53.15	192.39	283.03	97.63	48.77	243.32	53.38	55.07	282.56
17887	-15.15	-3.96	-2.71	46.44	49.06	402.42	61.55	168.55	277.31	118.45	53.96	254.37	61.60	58.15	276.77
17888	-16.36	-3.96	-2.71	55.09	56.09	407.51	73.48	145.96	269.97	145.08	61.22	283.39	73.36	70.35	269.41
17889	-17.57	-3.97	-2.71	69.10	65.34	413.13	93.09	127.81	260.23	182.41	73.28	346.72	92.84	90.06	259.77
17890	-18.78	-3.97	-2.71	98.68	82.48	385.34	136.30	135.71	227.40	247.10	91.18	425.37	135.94	143.89	227.35
17891	-0.60	-5.05	-2.70	31.25	11.86	225.05	3.62	329.29	274.96	46.41	26.00	289.43	15.33	72.00	275.73
17892	-1.79	-5.05	-2.70	30.42	13.13	230.35	5.43	327.11	277.99	38.39	27.47	290.82	14.55	78.32	278.64
17893	-2.99	-5.06	-2.71	29.99	14.79	240.38	8.99	323.06	280.73	33.71	28.93	290.75	15.33	83.05	281.25
17894	-4.18	-5.06	-2.71	29.90	16.77	254.34	13.04	317.10	283.11	32.06	30.41	289.33	17.44	86.04	283.51
17895	-5.38	-5.06	-2.71	30.12	19.04	271.28	17.27	309.15	285.07	32.97	31.92	286.61	20.45	87.23	285.34
17896	-6.57	-5.06	-2.71	30.68	21.59	290.20	21.60	299.12	286.50	36.06	33.50	282.63	24.00	86.57	286.64
17897	-7.77	-5.07	-2.71	31.67	24.45	310.14	25.97	286.94	287.31	41.19	35.22	277.41	27.86	84.09	287.32
17898	-8.96	-5.07	-2.72	33.19	27.64	330.21	30.42	272.56	287.39	48.40	37.14	271.09	31.92	79.92	287.26
17899	-10.16	-5.07	-2.72	35.37	31.21	349.54	35.02	255.96	286.61	57.76	39.34	264.01	36.21	74.40	286.33
17900	-11.35	-5.07	-2.72	38.30	35.21	367.31	39.93	237.22	284.86	69.36	41.94	256.98	40.84	68.22	284.41
17901	-12.55	-5.08	-2.72	42.07	39.73	382.73	45.43	216.57	282.00	83.33	45.11	251.64	46.06	62.79	281.40
17902	-13.74	-5.08	-2.72	46.86	44.91	395.10	51.98	194.52	277.94	100.05	49.12	251.01	52.32	60.52	277.18
17903	-14.94	-5.08	-2.73	53.12	51.01	404.00	60.36	171.99	272.55	120.42	54.47	260.11	60.41	64.28	271.68
17904	-16.13	-5.08	-2.73	62.05	58.65	409.20	72.14	150.69	265.63	146.56	62.03	286.07	71.92	75.65	264.73
17905	-17.33	-5.09	-2.73	76.61	69.33	415.11	91.24	133.46	256.28	183.35	74.47	344.66	90.80	93.62	255.55
17906	-18.52	-5.09	-2.73	107.33	89.77	387.19	132.52	139.53	225.12	246.92	93.44	416.47	131.		



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
17935	-14.38	-7.26	-2.71	67.80	56.81	407.19	57.35	179.53	260.20	127.26	56.87	275.08	57.14	77.53	258.49
17936	-15.53	-7.27	-2.71	77.86	66.05	412.75	68.72	161.35	254.59	152.82	65.64	294.47	68.00	88.15	252.87
17937	-16.68	-7.27	-2.71	94.39	80.05	419.54	86.24	146.43	246.63	189.45	80.02	342.40	85.15	103.38	245.29
17938	-17.83	-7.27	-2.71	128.51	106.85	392.02	123.00	149.02	219.73	252.95	103.76	398.69	121.67	141.75	219.66
17939	-0.61	-3.95	-4.10	28.04	6.73	231.78	0.91	353.06	294.41	45.81	42.75	290.41	6.01	84.59	295.03
17940	-1.82	-3.95	-4.10	28.59	8.00	237.76	5.21	350.77	297.21	49.06	42.67	293.03	7.83	94.02	297.71
17941	-3.03	-3.95	-4.10	29.12	9.40	249.27	10.23	346.79	299.81	50.26	42.46	294.33	11.80	101.81	300.20
17942	-4.24	-3.95	-4.10	29.47	10.95	265.37	15.30	341.02	302.12	49.33	42.18	294.40	16.43	107.73	302.43
17943	-5.45	-3.95	-4.10	29.52	12.72	284.98	20.30	333.35	304.06	46.32	41.86	293.30	21.22	111.59	304.28
17944	-6.66	-3.96	-4.10	29.21	14.77	306.99	25.17	323.64	305.49	41.41	41.56	291.01	25.97	113.24	305.63
17945	-7.88	-3.96	-4.10	28.59	17.15	330.36	29.85	311.73	306.26	35.04	41.35	287.52	30.58	112.54	306.33
17946	-9.09	-3.96	-4.11	27.82	19.95	354.11	34.33	297.45	306.18	28.33	41.27	282.81	35.01	109.38	306.17
17947	-10.30	-3.96	-4.11	27.29	23.22	377.26	38.65	280.64	305.02	24.06	41.37	277.04	39.27	103.69	304.93
17948	-11.51	-3.96	-4.11	27.54	27.05	398.80	42.91	261.17	302.52	26.68	41.68	270.67	43.47	95.50	302.34
17949	-12.72	-3.96	-4.11	29.17	31.52	417.61	47.33	239.06	298.36	36.73	42.22	264.80	47.79	85.07	298.08
17950	-13.93	-3.96	-4.11	32.51	36.75	432.43	52.26	214.56	292.08	50.95	42.97	261.76	52.58	73.14	291.71
17951	-15.15	-3.96	-4.11	37.41	42.94	441.70	58.24	188.51	282.98	66.52	43.82	265.79	58.40	61.60	282.54
17952	-16.36	-3.96	-4.11	43.40	50.42	443.49	66.13	163.02	269.61	80.50	44.45	283.65	66.16	54.95	269.16
17953	-17.57	-3.96	-4.11	49.92	60.16	429.97	77.01	144.74	247.66	86.98	42.99	317.92	77.04	65.72	247.42
17954	-18.78	-3.97	-4.11	52.55	73.09	371.31	85.58	142.13	211.14	81.54	32.61	328.77	85.78	119.42	211.69
17955	-0.60	-5.05	-4.10	28.00	6.80	244.89	1.19	349.64	289.82	43.97	41.29	301.42	7.79	85.32	290.78
17956	-1.79	-5.05	-4.10	28.80	8.26	250.42	5.00	347.43	292.46	47.26	41.49	303.87	9.06	94.17	293.25
17957	-2.99	-5.06	-4.10	29.64	9.88	261.12	9.73	343.55	294.88	48.59	41.54	305.07	12.32	101.44	295.50
17958	-4.18	-5.06	-4.11	30.38	11.66	276.18	14.53	337.91	297.01	47.95	41.48	305.10	16.44	106.93	297.48
17959	-5.38	-5.06	-4.11	30.94	13.64	294.62	19.31	330.40	298.75	45.43	41.37	303.99	20.87	110.47	299.10
17960	-6.57	-5.06	-4.11	31.30	15.87	315.43	23.99	320.89	300.00	41.31	41.24	301.70	25.36	111.92	300.22
17961	-7.77	-5.07	-4.11	31.54	18.41	337.59	28.53	309.24	300.60	36.21	41.16	298.20	29.76	111.16	300.70
17962	-8.96	-5.07	-4.11	31.83	21.31	360.14	32.90	295.30	300.39	31.45	41.16	293.47	34.04	108.12	300.37
17963	-10.16	-5.07	-4.11	32.48	24.65	382.12	37.14	278.94	299.16	29.56	41.28	287.61	38.19	102.79	299.00
17964	-11.35	-5.07	-4.12	33.87	28.51	402.53	41.36	260.11	296.65	33.29	41.56	281.04	42.28	95.27	296.35
17965	-12.55	-5.08	-4.12	36.37	32.98	420.30	45.76	238.83	292.56	42.79	42.02	274.76	46.51	85.90	292.10
17966	-13.74	-5.08	-4.12	40.19	38.20	434.24	50.65	215.42	286.46	56.04	42.64	270.90	51.18	75.50	285.85
17967	-14.94	-5.08	-4.12	45.31	44.40	442.88	56.55	190.67	277.65	70.84	43.29	273.33	56.82	65.80	276.94
17968	-16.13	-5.08	-4.12	51.56	51.96	444.31	64.23	166.54	264.72	84.56	43.64	288.24	64.27	60.41	264.02
17969	-17.33	-5.08	-4.12	58.66	61.81	430.50	74.56	149.02	243.66	91.96	41.90	317.59	74.61	69.37	243.32
17970	-18.52	-5.09	-4.13	61.76	74.13	372.29	82.74	145.52	209.25	88.16	32.10	324.13	83.02	117.32	210.15
17971	-0.59	-6.15	-4.10	28.26	6.93	260.31	1.53	345.29	284.26	41.93	39.56	314.66	9.56	86.02	285.58
17972	-1.76	-6.15	-4.10	29.36	8.61	265.31	4.75	343.18	286.70	45.18	40.06	316.86	10.39	94.15	287.79
17973	-2.94	-6.16	-4.10	30.57	10.49	275.07	9.10	339.42	288.91	46.64	40.39	317.89	12.96	100.80	289.77
17974	-4.11	-6.16	-4.11	31.75	12.54	288.93	13.59	333.93	290.80	46.32	40.59	317.81	16.51	105.77	291.47
17975	-5.29	-6.16	-4.11	32.87	14.77	306.00	18.10	326.61	292.32	44.40	40.71	316.61	20.49	108.92	292.79
17976	-6.46	-6.16	-4.11	33.92	17.22	325.36	22.54	317.34	293.33	41.25	40.79	314.25	24.63	110.13	293.64
17977	-7.63	-6.17	-4.11	34.99	19.94	346.05	26.88	306.00	293.73	37.63	40.86	310.66	28.77	109.30	293.86
17978	-8.81	-6.17	-4.11	36.25	22.99	367.14	31.11	292.47	293.36	34.95	40.97	305.81	32.84	106.41	293.30
17979	-9.98	-6.17	-4.11	37.92	26.42	387.69	35.26	276.66	292.02	35.21	41.14	299.79	36.83	101.49	291.77
17980	-11.16	-6.17	-4.12	40.28	30.34	406.73	39.41	258.55	289.49	40.07	41.42	292.94	40.79	94.74	289.03
17981	-12.33	-6.18	-4.12	43.54	34.83	423.24	43.77	238.24	285.48	49.43	41.82	286.18	44.89	86.56	284.81
17982	-13.51	-6.18	-4.12	47.86	40.06	436.12	48.63	216.04	279.59	62.03	42.33	281.42	49.42	77.80	278.71
17983	-14.68	-6.18	-4.12	53.33	46.30	443.98	54.46	192.74	271.15	76.25	42.83	282.13	54.86	69.99	270.13
17984	-15.86	-6.18	-4.12	59.98	53.96	444.91	61.92	170.13	258.78	89.84	43.02	293.85	61.98	65.83	257.81
17985	-17.03	-6.19	-4.12	67.73	63.91	430.72	71.73	153.44	238.80	98.33	41.23	317.75	71.78	73.21	238.36
17986	-18.21	-6.19	-4.12	71.28	75.49	373.11	79.71	149.01	206.68	96.25	32.32	319.44	80.03	114.99	207.97
17987	-0.58	-7.25	-4.10	29.05	7.19	277.76	2.03	340.01	277.71	39.94	37.61	329.97	11.26	86.56	279.38
17988	-1.73	-7.25	-4.10	30.50	9.09	282.15	4.51	338.00	279.94	43.10	38.40	331.84	11.74	93.87	281.32
17989	-2.88	-7.25	-4.10	32.10	11.23	290.88	8.39	334.38	281.91	44.68	39.02	332.61	13.69	99.80	283.02
17990	-4.03	-7.25	-4.10	33.74	13.55	303.38	12.51	329.07	283.55	44.76	39.50	332.30	16.63	104.20	284.41
17991	-5.18	-7.25	-4.10	35.40	16.06	318.88	16.69	321.98	284.81	43.56	39.87	330.90	20.11	106.93	285.42
17992	-6.33	-7.26	-4.10	37.10	18.76	336.57	20.85	313.01	285.58	41.56	40.16	328.35	23.84	107.88	285.96
17993	-7.48	-7.26	-4.10	38.93	21.69	355.55	24.96	302.04	285.76	39.59	40.42	324.56	27.66	107.01	285.90
17994	-8.63	-7.26	-4.11	41.02	24.91	374.94	29.01	289.00	285.21	38.95	40.66	319.49	31.47	104.31	285.09
17995	-9.78	-7.26	-4.11	43.56	28.47	393.83	33.03	273.83	283.76	41.11	40.92	313.20	35.25	99.89	283.38
17996	-10.93	-7.26	-4.11	46.70	32.47	411.28	37.10	256.56	281.21	46.99	41.22	305.99	39.03	93.99	280.55
17997	-12.08	-7.26	-4.11	50.62	37.02	426.36	41.39	237.31	277.31	56.45	41.60	298.69	42.96	87.09	276.36
17998	-13.23	-7.26	-4.11	55.44	42.30	438.03	46.19	216.43	271.68	68.66	42.06	292.98	47.29	80.00	270.47
17999	-14.38	-7.26	-4.11	61.32	48.60	445.00	51.95	194.66	263.68	82.46	42.50	291.94	52.51	73.97	262.31
18000	-15.53	-7.26	-4.11	68.47	56.40	445.36	59.23	173.61	251.99	96.09	42.66	300.35	59.30	70.92	250.72
18001	-16.68	-7.27	-4.11	76.89	66.43	430.68	68.57	157.79	233.24	105.73	41.13	318.52	68.59	76.89	232.71
18002	-17.83	-7.27	-4.11	86.86	77.30	373.85	76.53	152.40	203.57	105.32	33.47	315.07	76.79	112.45	205.23
18003	-0.61	-3.95	-5.50	33.27	10.05	251.17	1.83	371.70	308.73	143.79	61.49	301.47	0.93	103.66	309.42
18004	-1.82	-3.95	-5.50	35.29	10.42	257.27	6.39	369.59	311.22	140.34	59.62	304.72	6.03	115.19	311.76
18005	-3.03	-3.95	-5.50	37.31	10.75	269.21	12.27	366.06	313.63	135.75	57.56	306.93	12.07	125.24	314.05
18006	-4.24	-3.													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
18033	-17.33	-5.08	-5.52	54.49	54.35	452.66	58.17	174.65	256.03	44.47	23.71	291.56	58.10	66.78	256.36
18034	-18.52	-5.09	-5.52	51.89	64.25	395.86	56.40	152.08	231.12	41.33	17.61	281.79	56.38	98.69	232.21
18035	-0.59	-6.15	-5.50	31.93	9.20	280.84	2.77	363.61	298.85	133.86	57.44	327.59	0.51	105.31	300.31
18036	-1.76	-6.15	-5.50	34.17	10.00	286.07	6.25	361.64	301.00	131.03	56.39	330.47	5.47	115.34	302.16
18037	-2.94	-6.16	-5.50	36.46	10.87	296.44	11.27	358.29	303.00	127.08	55.09	332.49	10.91	124.02	303.91
18038	-4.11	-6.16	-5.50	38.56	11.86	311.27	16.45	353.46	304.81	121.80	53.58	333.67	16.35	131.11	305.50
18039	-5.29	-6.16	-5.51	40.25	13.04	329.71	21.58	347.02	306.32	115.08	51.92	333.98	21.67	136.37	306.83
18040	-6.46	-6.16	-5.51	41.38	14.47	350.82	26.51	338.83	307.41	106.93	50.13	333.33	26.76	139.58	307.77
18041	-7.64	-6.17	-5.51	41.90	16.23	373.64	31.17	328.70	307.94	97.42	48.24	331.60	31.55	140.54	308.16
18042	-8.81	-6.17	-5.51	41.88	18.42	397.15	35.47	316.47	307.69	86.82	46.28	328.63	35.94	139.04	307.77
18043	-9.98	-6.17	-5.51	41.54	21.13	420.32	39.38	301.97	306.42	75.63	44.23	324.30	39.88	134.91	306.37
18044	-11.16	-6.17	-5.51	41.37	24.46	442.01	42.91	285.12	303.81	64.71	42.08	318.64	43.36	127.98	303.62
18045	-12.33	-6.18	-5.51	42.06	28.52	460.86	46.10	265.90	299.48	55.53	39.74	311.95	46.41	118.09	299.15
18046	-13.51	-6.18	-5.51	44.47	33.46	475.15	49.08	244.52	292.91	50.04	37.02	305.14	49.15	105.08	292.48
18047	-14.68	-6.18	-5.51	49.19	39.45	482.29	51.94	221.64	283.38	49.39	33.61	299.86	51.73	89.13	282.93
18048	-15.86	-6.18	-5.52	55.70	46.70	477.49	54.60	198.85	269.82	51.88	28.97	297.68	54.28	72.72	269.61
18049	-17.03	-6.18	-5.52	60.73	55.20	451.48	56.21	177.98	251.21	53.11	22.75	295.16	56.11	69.98	251.71
18050	-18.21	-6.19	-5.52	57.62	64.06	395.89	55.23	156.17	227.90	49.34	17.25	281.82	55.18	97.17	229.41
18051	-0.58	-7.25	-5.50	31.49	8.66	299.08	3.04	358.00	292.79	127.46	54.93	344.05	0.46	105.87	294.62
18052	-1.73	-7.25	-5.50	33.88	9.78	303.78	6.05	356.12	294.72	124.95	54.33	346.64	5.20	114.95	296.20
18053	-2.88	-7.25	-5.50	36.35	11.05	313.18	10.55	352.89	296.48	121.35	53.47	348.43	10.25	122.79	297.65
18054	-4.03	-7.25	-5.50	38.69	12.47	326.74	15.29	348.20	298.00	116.48	52.37	349.42	15.33	129.15	298.90
18055	-5.18	-7.25	-5.50	40.72	14.08	343.69	20.02	341.93	299.21	110.27	51.08	349.57	20.31	133.82	299.88
18056	-6.33	-7.26	-5.50	42.32	15.92	363.19	24.62	333.94	299.99	102.75	49.61	348.77	25.12	136.57	300.45
18057	-7.48	-7.26	-5.50	43.50	18.05	384.32	29.00	324.07	300.21	94.06	47.97	346.86	29.66	137.21	300.48
18058	-8.63	-7.26	-5.50	44.37	20.54	406.11	33.08	312.16	299.68	84.55	46.19	343.68	33.86	135.57	299.78
18059	-9.78	-7.26	-5.50	45.18	23.45	427.51	36.85	298.10	298.19	74.82	44.22	339.06	37.66	131.52	298.11
18060	-10.93	-7.26	-5.50	46.33	26.90	447.38	40.28	281.85	295.47	65.84	42.05	333.00	41.03	124.95	295.20
18061	-12.08	-7.26	-5.51	48.32	30.99	464.42	43.44	263.48	291.16	59.05	39.58	325.73	43.98	115.79	290.71
18062	-13.23	-7.26	-5.51	51.67	35.85	476.94	46.42	243.24	284.80	55.94	36.66	318.00	46.63	103.98	284.23
18063	-14.38	-7.26	-5.51	56.68	41.66	482.46	49.33	221.82	275.74	56.89	32.97	311.11	49.16	89.79	275.17
18064	-15.53	-7.26	-5.51	62.84	48.55	476.33	52.09	200.63	263.01	60.06	28.08	306.07	51.74	75.56	262.78
18065	-16.68	-7.27	-5.51	67.12	56.34	449.82	53.96	181.07	245.75	61.40	21.91	299.42	53.86	72.96	246.43
18066	-17.83	-7.27	-5.51	63.61	64.05	395.60	53.94	160.16	224.18	57.25	16.96	282.38	53.84	95.63	226.12
18067	-0.61	-3.95	-6.90	45.12	19.00	270.60	3.68	387.40	322.04	249.36	81.61	312.99	8.37	128.55	322.72
18068	-1.82	-3.95	-6.90	48.03	18.88	276.72	8.28	385.60	324.29	239.72	77.73	316.41	9.58	141.44	324.80
18069	-3.03	-3.95	-6.90	51.52	18.69	288.82	15.14	382.74	326.62	229.88	73.61	319.14	15.13	153.10	327.00
18070	-4.24	-3.95	-6.90	55.05	18.46	306.10	22.11	378.74	328.96	219.51	69.33	321.21	21.74	163.20	329.24
18071	-5.45	-3.95	-6.90	58.10	18.21	327.59	28.86	373.48	331.21	208.33	64.94	322.65	28.40	171.43	331.41
18072	-6.67	-3.95	-6.90	60.23	17.97	352.29	35.19	366.79	333.21	196.14	60.51	323.37	34.74	177.47	333.35
18073	-7.88	-3.96	-6.90	61.05	17.80	379.22	40.93	358.48	334.77	182.81	56.11	323.28	40.51	181.03	334.87
18074	-9.09	-3.96	-6.90	60.19	17.80	407.39	45.95	348.31	335.61	168.29	51.78	322.22	45.56	181.74	335.68
18075	-10.30	-3.96	-6.90	57.41	18.16	435.77	50.12	336.03	335.41	152.61	47.55	320.00	49.75	179.18	335.46
18076	-11.51	-3.96	-6.90	52.56	19.15	463.15	53.38	321.31	333.76	135.91	43.43	316.48	53.01	172.79	333.78
18077	-12.72	-3.96	-6.90	45.93	21.13	487.96	55.69	303.83	330.16	118.52	39.35	311.58	55.29	161.72	330.16
18078	-13.94	-3.96	-6.90	38.79	24.45	507.91	57.03	283.20	324.07	101.06	35.25	305.42	56.57	144.83	324.06
18079	-15.15	-3.96	-6.90	34.39	29.39	519.38	57.28	259.17	314.83	84.41	31.11	298.25	56.79	120.85	314.86
18080	-16.36	-3.96	-6.90	36.07	36.12	516.66	56.08	231.60	301.81	69.01	27.20	290.06	55.66	90.46	301.96
18081	-17.57	-3.96	-6.90	40.89	44.50	492.63	52.81	199.78	284.69	53.41	24.57	279.81	52.63	65.68	285.07
18082	-18.78	-3.96	-6.90	42.81	54.27	442.06	47.06	162.74	263.65	36.64	24.91	266.72	47.18	74.55	264.21
18083	-0.60	-5.05	-6.90	44.11	18.60	284.48	4.91	383.87	317.49	242.66	79.45	325.46	9.87	129.44	318.54
18084	-1.79	-5.05	-6.90	47.04	18.55	290.27	8.72	382.12	319.59	233.70	76.05	328.79	10.06	141.61	320.40
18085	-2.99	-5.06	-6.90	50.54	18.44	301.75	14.96	379.34	321.75	224.46	72.39	331.51	14.66	152.62	322.36
18086	-4.18	-5.06	-6.90	54.07	18.29	318.21	21.51	375.43	323.91	214.63	68.52	333.65	20.77	162.15	324.35
18087	-5.38	-5.06	-6.90	57.16	18.13	338.77	27.92	370.25	325.96	203.94	64.49	335.19	27.11	169.86	326.28
18088	-6.57	-5.06	-6.90	59.37	18.02	362.46	34.00	363.64	327.77	192.22	60.37	336.06	33.22	175.47	328.00
18089	-7.77	-5.06	-6.90	60.36	18.03	388.32	39.55	355.39	329.16	179.37	56.20	336.10	38.84	178.65	329.32
18090	-8.96	-5.07	-6.91	59.84	18.28	415.34	44.44	345.29	329.87	165.39	52.03	335.12	43.81	179.05	329.97
18091	-10.16	-5.07	-6.91	57.66	18.94	442.43	48.55	333.11	329.57	150.37	47.90	332.89	47.96	176.29	329.64
18092	-11.36	-5.07	-6.91	53.83	20.26	468.35	51.80	318.60	327.89	134.52	43.79	329.20	51.20	169.85	327.92
18093	-12.55	-5.07	-6.91	48.72	22.52	491.52	54.13	301.52	324.33	118.22	39.68	323.93	53.49	159.04	324.33
18094	-13.75	-5.08	-6.91	43.56	26.01	509.71	55.51	281.61	318.37	102.07	35.52	317.08	54.79	142.86	318.36
18095	-14.94	-5.08	-6.91	40.78	30.93	519.47	55.83	258.69	309.40	86.83	31.34	308.78	55.06	120.30	309.45
18096	-16.14	-5.08	-6.91	42.27	37.40	515.43	54.77	232.56	296.84	72.71	27.51	298.83	54.12	92.27	297.09
18097	-17.33	-5.08	-6.91	45.65	45.27	491.08	51.82	202.42	280.41	58.19	25.22	286.21	51.56	69.61	281.00
18098	-18.53	-5.08	-6.91	46.37	54.35	441.69	46.74	167.19	260.28	42.42	26.08	270.36	46.96	75.92	261.15
18099	-0.59	-6.15	-6.90	42.88	18.07	300.77	6.16	379.23	312.37	234.43	76.85	340.30	10.94	130.16	313.82
18100	-1.76	-6.15	-6.90	45.83	18.15	306.16	9.28	377.56	314.29	226.23	74.02	343.48	10.28	141.46	315.41
18101	-2.94	-6.16	-6.90	49.35	18.17	316.91	14.78	374.87	316.24	217.68	70.90	346.14	13.95	151.69	317.08
18102	-4.11	-6.16	-6.90	52.92	18.18	332.41	20.77	371.07	318.15	208.47	67.52	348.28	19.48	160.52	318.78
18103	-5.29	-6.16	-6.90	56.06	18.21	351.84	26.75	366.01	319.93	198.37	63.95	349.87	25.		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
18131	-0.61	-3.95	-8.30	60.56	29.94	290.00	5.30	399.04	333.85	359.82	102.43	325.24	16.16	158.77	334.47
18132	-1.82	-3.95	-8.30	64.32	29.67	296.00	10.45	397.64	335.90	344.52	96.35	328.45	15.66	172.20	336.35
18133	-3.03	-3.95	-8.30	69.68	29.45	307.93	18.62	395.60	338.21	330.00	90.04	331.28	20.32	184.73	338.53
18134	-4.24	-3.95	-8.30	75.76	29.30	325.11	27.01	392.83	340.74	315.85	83.55	333.78	27.32	195.99	340.96
18135	-5.45	-3.95	-8.30	81.77	29.19	346.68	35.15	389.24	343.38	301.71	76.96	335.93	34.89	205.61	343.53
18136	-6.67	-3.95	-8.30	87.01	29.10	371.75	42.75	384.69	346.01	287.27	70.36	337.68	42.26	213.24	346.10
18137	-7.88	-3.96	-8.30	90.89	28.99	399.43	49.60	379.01	348.42	272.27	63.85	338.92	49.00	218.52	348.49
18138	-9.09	-3.96	-8.30	92.87	28.78	428.80	55.46	371.99	350.36	256.50	57.54	339.46	54.82	221.04	350.41
18139	-10.30	-3.96	-8.30	92.45	28.44	458.90	60.15	363.39	351.46	239.74	51.51	339.08	59.49	220.32	351.51
18140	-11.51	-3.96	-8.30	89.11	27.96	488.57	63.51	352.87	351.29	221.73	45.85	337.51	62.83	215.68	351.34
18141	-12.72	-3.96	-8.30	82.38	27.47	516.31	65.44	339.91	349.34	202.13	40.59	334.39	64.75	206.15	349.41
18142	-13.94	-3.96	-8.30	72.03	27.30	539.95	65.86	323.62	345.14	180.39	35.86	329.26	65.17	190.32	345.23
18143	-15.15	-3.96	-8.30	58.58	28.03	556.09	64.63	302.60	338.22	155.81	32.04	321.42	64.00	166.51	338.37
18144	-16.36	-3.96	-8.30	44.14	30.39	559.76	61.46	274.77	328.24	127.49	29.89	309.86	61.02	133.91	328.49
18145	-17.57	-3.96	-8.30	33.48	34.95	544.61	56.00	237.85	314.97	95.20	30.24	293.73	55.93	95.66	315.34
18146	-18.78	-3.96	-8.30	31.55	41.90	504.10	47.98	190.93	298.40	60.95	33.13	274.29	48.47	66.11	298.78
18147	-0.60	-5.05	-8.30	59.54	29.49	303.88	7.29	395.64	329.16	351.03	99.97	338.01	19.31	159.58	330.11
18148	-1.79	-5.05	-8.30	63.31	29.23	309.62	11.44	394.31	331.08	336.82	94.48	341.19	17.55	172.31	331.78
18149	-2.99	-5.06	-8.30	68.64	28.99	321.05	18.78	392.35	333.26	323.24	88.70	344.09	20.68	184.22	333.76
18150	-4.18	-5.06	-8.30	74.66	28.77	337.54	26.64	389.69	335.65	309.89	82.69	346.73	26.70	194.92	336.00
18151	-5.38	-5.06	-8.30	80.57	28.59	358.34	34.39	386.21	338.17	296.42	76.53	349.08	33.71	204.06	338.40
18152	-6.57	-5.06	-8.30	85.69	28.43	382.57	41.71	381.75	340.68	282.53	70.28	351.08	40.74	211.26	340.84
18153	-7.77	-5.06	-8.30	89.44	28.26	409.35	48.36	376.10	343.03	267.98	64.04	352.57	47.29	216.13	343.14
18154	-8.97	-5.07	-8.30	91.35	28.06	437.71	54.11	369.05	344.95	252.60	57.92	353.33	53.00	218.25	345.03
18155	-10.16	-5.07	-8.30	91.00	27.78	466.60	58.74	360.37	346.09	236.24	52.02	353.08	57.62	217.15	346.17
18156	-11.36	-5.07	-8.30	87.99	27.46	494.78	62.08	349.78	346.00	218.74	46.42	351.43	60.95	212.23	346.08
18157	-12.55	-5.07	-8.30	81.97	27.22	520.69	64.01	336.87	344.17	199.82	41.18	347.98	62.87	202.65	344.27
18158	-13.75	-5.07	-8.30	72.78	27.40	542.20	64.45	320.94	340.07	179.00	36.45	342.18	63.32	187.25	340.22
18159	-14.94	-5.08	-8.30	60.91	28.54	556.16	63.28	300.74	333.24	155.53	32.62	333.33	62.27	164.60	333.49
18160	-16.14	-5.08	-8.30	48.22	31.25	558.05	60.30	274.31	323.38	128.53	30.51	320.44	59.60	134.16	323.78
18161	-17.33	-5.08	-8.30	38.54	35.98	542.17	55.23	239.50	310.32	97.78	31.07	302.71	55.16	98.99	310.88
18162	-18.53	-5.08	-8.30	35.51	42.86	502.59	47.92	195.36	294.12	65.14	34.46	281.24	48.74	71.77	294.71
18163	-0.59	-6.15	-8.30	58.19	28.87	320.03	9.46	391.02	323.98	340.24	96.99	353.01	21.73	160.04	325.28
18164	-1.76	-6.15	-8.30	61.96	28.66	325.45	12.75	389.77	325.74	327.32	92.20	356.13	18.94	171.93	326.71
18165	-2.94	-6.16	-8.30	67.26	28.44	336.28	19.08	387.94	327.74	314.85	87.08	359.06	20.67	183.09	328.44
18166	-4.11	-6.16	-8.30	73.22	28.21	351.98	26.23	385.42	329.91	302.46	81.69	361.80	25.67	193.15	330.40
18167	-5.29	-6.16	-8.30	79.05	27.99	371.84	33.44	382.09	332.20	289.81	76.07	364.31	32.04	201.72	332.53
18168	-6.46	-6.16	-8.30	84.05	27.79	395.08	40.35	377.77	334.49	276.61	70.30	366.51	38.66	208.44	334.71
18169	-7.64	-6.16	-8.30	87.69	27.59	420.78	46.70	372.22	336.62	262.64	64.44	368.23	44.96	212.87	336.77
18170	-8.81	-6.17	-8.30	89.54	27.41	447.97	52.27	365.20	338.36	247.76	58.59	369.19	50.53	214.57	338.48
18171	-9.99	-6.17	-8.30	89.26	27.24	475.48	56.83	356.47	339.38	231.89	52.84	369.01	55.11	213.07	339.49
18172	-11.16	-6.17	-8.30	86.62	27.12	501.95	60.19	345.81	339.25	214.99	47.29	367.25	58.48	207.82	339.37
18173	-12.34	-6.17	-8.30	81.39	27.22	525.74	62.20	332.95	337.46	196.86	42.05	363.38	60.51	198.18	337.61
18174	-13.51	-6.18	-8.30	73.50	27.84	544.75	62.77	317.38	333.46	177.11	37.29	356.80	61.13	183.22	333.68
18175	-14.69	-6.18	-8.30	63.39	29.42	556.10	61.79	298.07	326.81	154.99	33.47	346.79	60.34	161.89	327.16
18176	-15.86	-6.18	-8.30	52.53	32.44	555.84	59.09	273.27	317.19	129.62	31.41	332.42	58.14	133.93	317.75
18177	-17.04	-6.18	-8.30	43.81	37.23	539.05	54.51	240.94	304.50	100.73	32.10	312.99	54.46	102.24	305.27
18178	-18.21	-6.18	-8.30	39.88	43.91	500.58	47.98	200.09	288.85	70.00	35.79	289.43	49.18	77.64	289.65
18179	-0.58	-7.25	-8.30	56.48	28.09	338.21	11.65	385.01	318.80	327.53	93.54	370.07	23.48	159.88	320.43
18180	-1.73	-7.25	-8.30	60.27	27.98	343.24	14.23	383.88	320.37	316.05	89.55	373.06	19.83	170.82	321.60
18181	-2.88	-7.25	-8.30	65.54	27.84	353.35	19.53	382.19	322.13	304.84	85.20	375.93	20.29	181.13	323.03
18182	-4.03	-7.25	-8.30	71.44	27.67	368.10	25.82	379.85	324.02	293.55	80.53	378.67	24.23	190.45	324.66
18183	-5.18	-7.25	-8.30	77.18	27.50	386.84	32.35	376.71	325.98	281.85	75.57	381.23	29.89	198.41	326.43
18184	-6.33	-7.26	-8.30	82.10	27.35	408.84	38.72	372.59	327.90	269.49	70.39	383.50	36.05	204.60	328.22
18185	-7.48	-7.26	-8.30	85.65	27.22	433.24	44.67	367.21	329.66	256.23	65.02	385.28	42.03	208.59	329.88
18186	-8.63	-7.26	-8.30	87.45	27.13	459.01	49.97	360.31	331.04	241.98	59.54	386.28	47.43	209.90	331.21
18187	-9.78	-7.26	-8.30	87.28	27.13	484.93	54.41	351.61	331.75	226.72	54.02	386.04	51.97	208.02	331.91
18188	-10.93	-7.26	-8.30	85.02	27.29	509.49	57.80	340.95	331.40	210.49	48.56	384.02	55.42	202.48	331.56
18189	-12.08	-7.26	-8.30	80.62	27.77	530.97	59.98	328.16	329.51	193.25	43.30	379.61	57.66	192.77	329.71
18190	-13.23	-7.26	-8.30	74.09	28.82	547.25	60.80	312.93	325.59	174.69	38.51	372.13	58.60	178.27	325.87
18191	-14.38	-7.26	-8.30	65.78	30.78	555.74	60.15	294.49	319.16	154.11	34.67	360.88	58.28	158.29	319.62
18192	-15.53	-7.26	-8.30	56.75	33.94	553.09	57.87	271.39	309.93	130.61	32.58	345.02	56.71	132.93	310.65
18193	-16.68	-7.26	-8.30	49.01	38.58	535.29	53.86	241.80	297.79	103.89	33.20	323.96	53.91	104.93	298.76
18194	-17.83	-7.27	-8.30	44.47	44.85	498.05	48.17	204.64	282.91	75.32	36.84	298.49	49.82	83.14	283.90
18195	-22.42	-7.26	-2.70	21.47	113.45	11.76	40.22	13.84	25.67	15.36	47.10	13.25	17.66	13.52	31.29
18196	-21.53	-7.26	-2.70	44.09	111.58	17.84	49.77	17.02	32.08	57.15	38.92	26.52	35.12	28.90	32.20
18197	-20.64	-7.26	-2.71	67.26	110.70	32.16	68.38	21.75	41.68	120.22	24.18	39.45	60.31	55.61	42.05
18198	-19.74	-7.27	-2.71	97.03	112.42	62.37	103.15	58.87	64.06	213.35	35.46	70.88	98.60	105.67	68.45
18199	-18.85	-7.27	-2.71	169.28	136.14	227.89	166.12	169.91	147.35	359.63	116.16	271.34	164.40	234.57	155.87
18200	-22.75	-6.17	-2.70	17.46	114.52	11.88	34.31	12.59	25.68	12.94	49.00	13.27	15.30	11.20	29.97
18201	-21.87	-6.18	-2.71	38.27	113.46	17.74	45.29	15.53	32.78	5					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
18229	-19.55	-5.09	-4.12	49.79	82.90	279.29	76.31	135.55	174.97	78.97	15.96	278.64	75.44	167.81	177.54
18230	-23.24	-3.96	-4.10	7.16	113.46	42.90	22.51	16.95	81.00	12.65	51.93	75.78	14.83	33.97	82.74
18231	-22.38	-3.96	-4.10	17.56	107.01	64.82	35.22	26.62	94.92	47.82	37.21	105.84	30.75	80.09	94.92
18232	-21.53	-3.96	-4.11	31.60	100.03	108.09	53.36	54.15	114.71	85.36	21.10	136.77	50.56	130.73	115.15
18233	-20.67	-3.96	-4.11	44.04	90.90	184.09	72.80	103.51	144.10	109.03	7.82	206.60	71.05	182.23	145.92
18234	-19.82	-3.97	-4.11	41.74	83.62	277.87	77.43	133.13	175.01	73.66	15.41	283.94	76.94	173.46	176.70
18235	-22.42	-7.26	-5.50	14.95	104.66	86.41	35.94	44.12	130.66	9.94	53.68	176.42	22.64	64.47	134.60
18236	-21.53	-7.26	-5.50	23.37	95.19	126.70	40.48	58.94	143.79	25.66	42.64	184.14	31.52	103.59	143.69
18237	-20.64	-7.26	-5.50	32.81	86.03	188.65	45.99	82.61	161.28	38.51	31.64	201.79	40.23	128.41	161.59
18238	-19.75	-7.26	-5.51	44.20	78.49	258.05	49.56	109.69	180.88	44.29	23.30	227.68	46.38	132.75	182.67
18239	-18.85	-7.27	-5.51	54.81	71.16	327.48	53.20	135.84	201.60	52.07	16.99	256.36	51.99	121.04	204.11
18240	-22.75	-6.17	-5.50	11.63	105.70	86.77	30.65	38.04	131.54	8.30	52.24	181.35	19.16	59.02	134.47
18241	-21.87	-6.18	-5.51	19.54	96.57	125.41	35.93	53.26	145.32	24.26	41.52	189.28	28.57	102.37	145.25
18242	-20.99	-6.18	-5.51	28.22	87.65	186.98	42.64	77.50	163.06	36.27	31.01	206.30	38.08	130.64	163.33
18243	-20.11	-6.18	-5.51	38.78	79.97	256.53	47.77	104.88	182.95	39.56	22.96	231.04	45.31	136.90	184.36
18244	-19.23	-6.19	-5.52	48.83	72.15	326.29	53.03	131.19	204.13	45.45	16.95	258.13	52.12	125.40	206.11
18245	-23.02	-5.07	-5.50	8.83	106.64	87.19	25.41	31.84	132.18	7.48	50.89	185.74	15.88	53.84	134.18
18246	-22.15	-5.08	-5.51	16.29	97.88	124.40	31.44	47.88	146.43	23.40	40.46	193.82	25.71	101.32	146.37
18247	-21.29	-5.08	-5.51	24.17	89.21	185.52	39.40	72.69	164.48	34.57	30.29	210.44	36.02	132.61	164.70
18248	-20.42	-5.08	-5.51	33.82	81.40	255.03	46.11	100.25	184.66	35.41	22.46	234.29	44.33	140.60	185.71
18249	-19.56	-5.09	-5.52	43.22	73.21	324.99	52.87	126.62	206.27	39.22	16.81	260.16	52.23	129.45	207.72
18250	-23.24	-3.96	-5.50	6.67	107.46	87.62	20.20	25.99	132.62	7.15	49.66	189.43	12.78	49.44	133.83
18251	-22.38	-3.96	-5.50	13.60	99.02	123.59	27.11	42.98	147.13	22.94	39.47	197.58	23.09	100.45	147.09
18252	-21.53	-3.96	-5.50	20.62	90.64	184.22	36.42	68.43	165.41	33.36	29.52	213.95	34.17	134.31	165.58
18253	-20.67	-3.96	-5.51	29.35	82.75	253.55	44.64	96.11	185.84	31.91	21.80	237.23	43.49	143.85	186.54
18254	-19.82	-3.96	-5.51	38.09	74.28	323.57	52.77	122.48	207.80	33.49	16.55	262.28	52.36	133.14	208.75
18255	-22.42	-7.26	-6.90	14.97	94.16	142.71	31.58	57.20	172.29	9.01	56.69	290.33	21.77	71.12	174.82
18256	-21.53	-7.26	-6.90	25.23	85.65	186.69	33.12	72.03	185.46	17.57	50.72	257.47	27.67	101.06	185.01
18257	-20.64	-7.26	-6.90	35.25	77.48	251.44	35.51	92.55	200.77	25.24	44.30	244.05	33.42	113.57	200.37
18258	-19.75	-7.26	-6.90	43.68	69.51	319.22	38.81	118.10	217.20	33.01	37.87	246.93	38.79	110.23	217.11
18259	-18.85	-7.27	-6.90	50.50	62.37	381.66	42.14	145.92	233.70	42.46	32.65	260.30	42.87	96.37	235.82
18260	-22.75	-6.17	-6.90	12.00	94.89	142.41	26.82	49.31	174.13	6.91	53.69	299.28	17.85	64.04	176.00
18261	-21.87	-6.18	-6.90	22.00	86.49	184.47	28.96	64.24	188.03	15.11	48.20	264.91	24.18	98.18	187.69
18262	-20.99	-6.18	-6.91	31.83	78.29	249.13	32.42	85.03	203.70	21.46	42.33	248.74	30.62	113.62	203.43
18263	-20.11	-6.18	-6.91	40.04	70.19	317.64	36.94	111.05	220.52	27.71	36.37	248.23	36.85	111.70	221.03
18264	-19.24	-6.19	-6.91	46.62	62.73	381.05	41.40	139.59	237.46	36.16	31.43	258.21	41.91	97.50	238.57
18265	-23.02	-5.07	-6.90	9.51	95.48	142.35	22.08	41.15	175.71	5.58	50.32	307.02	14.22	57.04	176.98
18266	-22.15	-5.08	-6.90	19.31	87.21	182.67	24.85	56.68	190.13	13.36	45.29	271.41	20.84	95.53	189.88
18267	-21.29	-5.08	-6.91	28.92	79.02	247.12	29.41	77.82	206.28	18.29	39.90	253.07	27.95	113.63	206.10
18268	-20.42	-5.08	-6.91	36.88	70.83	316.13	35.15	104.24	223.49	22.80	34.44	249.74	35.03	113.05	223.88
18269	-19.56	-5.08	-6.91	43.19	63.10	380.30	40.69	133.36	240.81	30.04	29.91	256.75	41.02	98.64	241.63
18270	-23.24	-3.96	-6.90	7.60	95.97	142.41	17.40	33.28	177.01	4.87	46.88	313.37	10.92	50.81	177.78
18271	-22.38	-3.96	-6.90	17.13	87.79	181.26	20.86	49.54	191.77	12.20	42.24	276.80	17.84	93.20	191.61
18272	-21.53	-3.96	-6.90	26.52	79.66	245.40	26.63	71.23	208.33	15.73	37.28	256.79	25.58	113.65	208.23
18273	-20.67	-3.96	-6.90	34.24	71.43	314.70	33.54	98.08	225.89	18.30	32.31	251.25	33.44	114.30	226.15
18274	-19.82	-3.96	-6.90	40.28	63.49	379.38	40.08	127.65	243.52	24.19	28.23	255.82	40.26	99.81	244.06
18275	-22.42	-7.26	-8.30	13.97	81.60	199.52	27.64	69.07	209.51	9.10	61.19	388.60	22.65	76.14	210.52
18276	-21.53	-7.26	-8.30	25.65	73.92	245.66	29.16	82.83	223.29	16.67	57.70	315.41	28.43	90.01	222.11
18277	-20.64	-7.26	-8.30	34.99	66.21	316.32	32.13	103.91	238.30	24.04	52.94	274.34	34.44	97.76	237.23
18278	-19.75	-7.26	-8.30	40.45	58.74	387.06	36.75	133.16	253.34	34.85	47.56	265.17	40.11	89.18	253.13
18279	-18.86	-7.26	-8.30	42.82	51.78	447.29	42.21	166.88	267.77	51.26	42.16	276.40	45.17	80.18	268.35
18280	-22.75	-6.17	-8.30	11.39	81.56	198.28	23.32	59.49	212.85	6.92	57.09	401.37	18.24	67.31	213.55
18281	-21.87	-6.18	-8.30	23.10	73.89	242.34	25.33	72.68	227.63	14.08	54.32	324.62	24.40	89.58	226.72
18282	-20.99	-6.18	-8.30	32.52	65.97	313.48	29.24	93.89	243.06	19.81	50.40	278.20	30.99	94.56	242.27
18283	-20.12	-6.18	-8.30	37.80	58.33	385.79	34.83	124.05	258.45	29.00	45.75	263.46	37.43	86.23	258.32
18284	-19.24	-6.18	-8.30	39.49	51.20	447.73	41.12	159.28	273.17	44.91	40.88	270.32	43.37	75.75	273.64
18285	-23.02	-5.07	-8.30	9.27	81.26	197.51	19.05	49.38	215.65	5.56	52.18	412.32	14.17	58.23	216.10
18286	-22.15	-5.07	-8.30	21.01	73.52	239.67	21.58	62.52	231.20	12.27	50.09	332.66	20.52	84.39	230.56
18287	-21.29	-5.08	-8.30	30.49	65.46	311.09	26.46	84.10	247.25	16.29	46.96	281.87	27.70	91.47	246.70
18288	-20.42	-5.08	-8.30	35.58	57.65	384.63	33.06	115.24	263.04	23.67	43.13	262.31	34.93	83.39	262.97
18289	-19.56	-5.08	-8.30	36.60	50.38	447.94	40.18	151.84	278.02	39.09	39.00	265.14	41.78	71.37	278.38
18290	-23.24	-3.96	-8.30	7.69	80.93	197.06	14.88	39.42	217.91	4.87	47.12	421.26	10.55	49.71	218.16
18291	-22.38	-3.96	-8.30	19.37	73.06	237.62	18.01	52.53	233.99	11.14	45.63	339.36	17.06	79.61	233.57
18292	-21.53	-3.96	-8.30	28.88	64.88	309.14	23.97	74.91	250.59	13.45	43.24	285.14	24.75	88.69	250.25
18293	-20.67	-3.96	-8.30	33.81	56.94	383.59	31.52	107.22	266.76	18.87	40.25	261.62	32.73	80.89	266.73
18294	-19.82	-3.96	-8.30	34.21	49.57	447.97	39.41	145.10	281.97	33.95	36.92	260.97	40.42	67.42	282.22
18295	17.50	-8.10	-2.70	113.00	123.62	358.39	64.15	165.47	130.26	569.11	171.42	429.26	157.61	238.04	197.64
18296	16.37	-8.10	-2.70	95.13	99.05	391.93	44.36	177.70	175.17	410.79	103.98	476.83	112.16	147.50	242.14
18297	15.24	-8.10	-2.70	85.28	78.15	403.05	33.25	191.00	193.63	320.12	74.32	468.78	87.57	106.86	224.33
18298	14.11	-8.10	-2.70	79.69	64.16	405.37	27.96	205.44	203.99	277.55	57.05	426.65	81.46	111.51	211.40
18299	12.98	-8.10	-2.70	75.04	53.93	401.08	25.47	219.60	210.90	255.88	45.51	371.69	79.82	118.13	209.99
18300	11.85	-8													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
18327	17.50	-8.10	-4.10	100.40	88.52	367.94	38.95	160.03	155.23	51.28	149.18	351.89	81.98	173.70	179.71
18328	16.37	-8.10	-4.10	96.07	73.66	411.48	30.71	176.96	184.34	37.90	101.04	416.16	63.79	115.45	204.98
18329	15.24	-8.10	-4.10	87.81	61.33	434.70	24.77	195.84	203.88	37.35	64.19	430.66	45.32	93.00	213.94
18330	14.11	-8.10	-4.10	78.11	51.23	442.85	21.25	215.25	216.61	32.78	40.96	413.89	36.07	90.20	218.01
18331	12.98	-8.10	-4.10	68.34	43.12	441.03	19.33	233.97	225.71	23.36	26.31	381.91	33.12	90.22	232.75
18332	11.85	-8.10	-4.10	59.33	36.42	432.45	18.46	251.31	232.72	16.85	17.25	348.32	32.55	86.88	230.83
18333	10.73	-8.10	-4.10	51.36	30.72	419.35	18.16	267.12	238.47	16.87	13.59	322.38	32.15	77.62	237.87
18334	9.60	-8.10	-4.10	44.51	25.84	403.33	17.98	281.35	243.39	18.17	14.68	307.62	31.27	65.51	244.19
18335	8.47	-8.10	-4.10	38.83	21.56	385.63	17.65	293.95	247.72	17.24	17.82	302.96	29.81	53.62	249.61
18336	7.34	-8.10	-4.10	34.33	17.75	367.31	16.99	304.89	251.63	14.17	21.27	305.20	27.85	45.01	254.21
18337	6.21	-8.10	-4.10	30.98	14.34	349.32	15.90	314.13	255.21	10.94	24.46	311.08	25.53	42.21	258.14
18338	5.08	-8.10	-4.10	28.76	11.31	332.53	14.35	321.68	258.52	11.24	27.24	318.25	23.00	45.48	261.55
18339	3.95	-8.10	-4.10	27.57	8.71	317.78	12.35	327.56	261.60	15.97	29.62	325.29	20.37	52.66	264.55
18340	2.82	-8.10	-4.10	27.27	6.72	305.82	9.96	331.83	264.48	22.36	31.64	331.49	17.76	61.46	267.23
18341	1.69	-8.10	-4.10	27.72	5.73	297.33	7.23	334.54	267.16	28.70	33.35	336.55	15.37	70.49	269.66
18342	0.56	-8.10	-4.10	28.75	6.08	292.78	4.40	335.70	269.66	34.27	34.78	340.40	13.47	79.07	271.86
18343	17.23	-8.70	-4.10	94.56	83.88	373.49	35.51	160.85	165.65	49.85	144.43	353.34	72.82	169.13	192.76
18344	16.11	-8.70	-4.10	91.28	72.06	415.10	28.27	177.15	189.68	37.33	98.96	409.29	59.74	112.67	208.28
18345	15.00	-8.70	-4.10	83.39	60.85	437.29	24.03	194.77	205.30	31.54	65.17	418.16	45.16	89.13	213.53
18346	13.89	-8.70	-4.10	73.94	51.57	444.69	21.23	213.40	216.03	26.60	42.62	400.03	37.68	83.79	216.20
18347	12.78	-8.70	-4.10	64.81	44.02	442.75	19.40	231.43	223.95	21.89	28.17	371.52	35.44	81.78	221.38
18348	11.67	-8.70	-4.10	56.45	37.58	434.65	18.35	248.35	230.21	20.72	18.55	344.16	34.80	76.72	228.06
18349	10.56	-8.70	-4.10	49.07	32.02	422.36	17.83	263.91	235.47	21.84	13.96	324.61	33.99	68.03	234.76
18350	9.45	-8.70	-4.10	42.81	27.21	407.33	17.46	277.95	240.04	21.97	14.04	314.75	32.70	57.68	240.78
18351	8.34	-8.70	-4.10	37.65	22.91	390.73	17.02	290.43	244.14	20.06	16.63	313.04	30.84	48.46	245.97
18352	7.22	-8.70	-4.10	33.60	19.04	373.55	16.32	301.27	247.87	16.67	19.81	316.63	28.57	42.96	250.43
18353	6.11	-8.70	-4.10	30.66	15.54	356.69	15.25	310.44	251.32	13.57	22.87	322.86	26.06	42.84	254.26
18354	5.00	-8.70	-4.10	28.80	12.39	340.97	13.79	317.93	254.52	13.48	25.61	329.87	23.44	47.47	257.60
18355	3.89	-8.70	-4.10	27.91	9.64	327.19	11.94	323.78	257.50	17.25	28.02	336.57	20.81	54.84	260.53
18356	2.78	-8.70	-4.10	27.88	7.47	316.04	9.72	328.04	260.29	22.84	30.10	342.39	18.28	63.24	263.15
18357	1.67	-8.70	-4.10	28.53	6.26	308.11	7.24	330.75	262.87	28.63	31.90	347.09	16.00	71.69	265.49
18358	0.56	-8.70	-4.10	29.72	6.43	303.85	4.70	331.95	265.26	33.83	33.45	350.65	14.23	79.64	267.59
18359	17.50	-8.10	-5.50	135.49	70.36	399.59	31.21	165.34	188.62	435.82	105.01	322.19	41.31	168.52	213.24
18360	16.37	-8.10	-5.50	125.57	59.85	444.46	26.70	187.66	208.85	396.09	71.58	391.19	36.50	121.03	219.97
18361	15.24	-8.10	-5.50	112.40	50.30	471.25	23.25	211.14	224.77	351.90	42.11	418.77	34.64	93.39	228.43
18362	14.11	-8.10	-5.50	97.26	41.99	482.06	21.31	233.89	236.88	306.87	18.47	415.17	33.44	77.23	236.42
18363	12.98	-8.10	-5.50	82.13	34.99	480.97	20.61	254.93	246.06	263.78	2.87	395.09	31.37	67.73	244.46
18364	11.85	-8.10	-5.50	68.37	29.11	471.68	20.69	273.82	253.21	225.80	12.71	370.43	28.91	61.16	252.40
18365	10.73	-8.10	-5.50	56.63	24.11	456.92	21.06	290.44	258.93	194.58	22.85	349.12	26.96	55.41	259.62
18366	9.60	-8.10	-5.50	47.09	19.89	438.69	21.30	304.84	263.62	170.48	30.67	334.95	25.45	50.35	265.75
18367	8.47	-8.10	-5.50	39.70	16.28	418.54	21.12	317.09	267.55	153.02	36.78	328.34	24.06	47.14	270.74
18368	7.34	-8.10	-5.50	34.26	13.21	397.79	20.38	327.31	270.94	141.08	41.55	327.69	22.53	47.22	274.73
18369	6.21	-8.10	-5.50	30.50	10.64	377.53	19.02	335.62	273.94	133.44	45.20	330.80	20.63	51.12	277.95
18370	5.08	-8.10	-5.50	28.15	8.59	358.78	17.05	342.18	276.64	128.91	47.96	335.77	18.25	58.14	280.59
18371	3.95	-8.10	-5.50	26.99	7.15	342.43	14.52	347.14	279.13	126.44	49.97	341.28	15.37	67.10	282.82
18372	2.82	-8.10	-5.50	26.89	6.43	329.25	11.51	350.61	281.46	125.15	51.38	346.56	12.02	76.97	284.78
18373	1.69	-8.10	-5.50	27.71	6.47	319.92	8.15	352.71	283.64	124.33	52.27	351.22	8.24	87.05	286.55
18374	0.56	-8.10	-5.50	29.31	7.16	314.94	4.74	353.49	285.69	123.44	52.73	355.11	4.12	96.87	288.18
18375	17.23	-8.70	-5.50	124.99	69.02	401.80	32.65	164.16	193.13	397.25	93.01	325.63	56.05	165.85	218.99
18376	16.11	-8.70	-5.50	116.34	59.82	445.02	25.87	187.32	210.85	357.63	67.30	385.14	44.13	121.35	221.67
18377	15.00	-8.70	-5.50	104.84	51.12	471.58	21.53	210.25	224.78	316.22	41.29	408.66	38.24	93.52	227.88
18378	13.89	-8.70	-5.50	91.05	43.30	482.71	19.39	232.29	235.48	274.99	19.71	405.17	34.82	76.16	234.58
18379	12.78	-8.70	-5.50	77.24	36.67	482.18	18.63	252.46	243.79	237.29	5.26	388.20	30.91	66.18	241.91
18380	11.67	-8.70	-5.50	64.65	31.00	473.77	18.70	270.76	250.38	204.57	10.37	368.47	27.57	59.13	249.45
18381	10.56	-8.70	-5.50	53.87	26.09	460.09	19.13	286.99	255.76	177.94	20.05	352.28	25.28	53.57	256.42
18382	9.45	-8.70	-5.50	45.13	21.88	443.02	19.44	301.11	260.24	157.65	27.64	342.26	23.62	49.52	262.38
18383	8.34	-8.70	-5.50	38.35	18.17	424.09	19.36	313.20	264.05	142.97	33.78	338.40	22.29	47.79	267.25
18384	7.22	-8.70	-5.50	33.36	14.92	404.56	18.74	323.32	267.37	133.00	38.60	339.21	20.87	49.26	271.20
18385	6.11	-8.70	-5.50	29.94	12.09	385.49	17.54	331.58	270.33	126.71	42.37	342.89	19.13	53.93	274.40
18386	5.00	-8.70	-5.50	27.83	9.70	367.86	15.77	338.10	273.00	123.08	45.28	347.90	16.95	61.05	277.04
18387	3.89	-8.70	-5.50	26.87	7.84	352.49	13.46	343.04	275.46	121.20	47.48	353.21	14.30	69.64	279.26
18388	2.78	-8.70	-5.50	26.91	6.66	340.13	10.70	346.51	277.73	120.31	49.10	358.20	11.19	78.92	281.19
18389	1.67	-8.70	-5.50	27.83	6.35	331.39	7.60	348.63	279.85	119.77	50.23	362.57	7.67	88.32	282.90
18390	0.56	-8.70	-5.50	29.49	6.90	326.71	4.47	349.45	281.82	119.09	50.93	366.19	3.83	97.45	284.46
18391	17.50	-8.10	-6.90	190.13	57.18	453.55	38.29	174.74	221.40	849.35	73.56	338.10	125.04	194.89	253.21
18392	16.37	-8.10	-6.90	162.78	48.62	492.27	34.19	204.98	238.29	745.14	42.55	398.06	114.06	168.53	250.35
18393	15.24	-8.10	-6.90	139.19	41.22	514.55	31.48	234.20	251.92	648.61	21.12	424.10	102.48	143.71	255.00
18394	14.11	-8.10	-6.90	118.56	34.70	522.65	30.40	259.90	262.61	563.74	18.63	423.34	92.91	120.21	262.18
18395	12.98	-8.10	-6.90	100.76	29.21	519.51	30.31	281.93	270.82	491.42	29.91	408.30	84.41	100.23	269.90
18396	11.85	-8.10	-6.90	85.97	24.76	508.12	30.62	300.66	277.07	431.58	41.26	388.84	76.54	85.01	277.23
18397	10.73	-8.10	-6.90	74.09	21.29	491.07	30.86	316.53	281.84	382.90	50.74	371.26	69.65	74.81	283.60
18															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
18425	15.24	-8.10	-8.30	162.49	33.88	562.57	44.75	266.81	282.25	889.09	38.33	437.21	171.23	245.99	286.24
18426	14.11	-8.10	-8.30	140.11	30.11	563.78	44.38	292.88	291.36	775.13	52.45	432.55	155.58	212.97	291.36
18427	12.98	-8.10	-8.30	123.73	27.58	555.79	44.74	313.66	297.99	683.73	65.05	418.87	141.83	181.09	297.60
18428	11.85	-8.10	-8.30	111.60	26.05	540.77	45.10	330.41	302.56	610.60	75.42	402.95	129.38	154.29	303.41
18429	10.73	-8.10	-8.30	102.29	25.30	520.66	44.99	344.00	305.56	551.57	83.73	388.74	118.27	134.06	308.05
18430	9.60	-8.10	-8.30	94.70	25.16	497.27	44.12	354.82	307.43	503.57	89.80	378.16	107.73	120.54	311.30
18431	8.47	-8.10	-8.30	87.98	25.36	472.33	42.36	363.14	308.58	464.50	94.12	371.67	97.44	112.82	313.30
18432	7.34	-8.10	-8.30	81.53	25.72	447.36	39.73	369.29	309.33	432.63	96.97	368.82	87.31	109.88	314.38
18433	6.21	-8.10	-8.30	75.07	26.13	423.65	36.29	373.66	309.92	406.56	98.56	368.66	77.26	110.84	314.89
18434	5.08	-8.10	-8.30	68.65	26.53	402.22	32.19	376.63	310.48	385.12	99.09	370.23	67.35	114.88	315.09
18435	3.95	-8.10	-8.30	62.63	26.86	383.92	27.60	378.54	311.12	367.27	98.72	372.74	57.64	121.30	315.20
18436	2.82	-8.10	-8.30	57.60	27.12	369.43	22.75	379.64	311.87	352.16	97.60	375.67	48.23	129.48	315.37
18437	1.69	-8.10	-8.30	54.30	27.30	359.31	18.07	380.11	312.78	339.06	95.82	378.71	39.31	138.85	315.68
18438	0.56	-8.10	-8.30	53.35	27.41	353.98	14.40	380.04	313.86	327.37	93.46	381.72	31.19	148.92	316.20
18439	17.23	-8.70	-8.30	208.91	46.41	517.29	56.03	197.89	254.90	1090.57	45.18	377.04	246.75	293.52	294.62
18440	16.11	-8.70	-8.30	173.34	40.49	545.30	48.61	234.58	268.95	936.63	32.59	414.43	212.45	273.13	284.38
18441	15.00	-8.70	-8.30	147.64	35.82	559.38	44.91	265.19	280.19	813.55	37.43	428.42	185.53	243.07	284.33
18442	13.89	-8.70	-8.30	128.82	32.12	562.28	43.63	290.31	288.87	713.59	49.07	426.78	164.98	208.82	288.84
18443	12.78	-8.70	-8.30	115.19	29.49	556.08	43.36	310.27	295.17	634.25	59.61	417.14	147.39	178.55	294.72
18444	11.67	-8.70	-8.30	104.98	27.56	542.76	43.32	326.64	299.60	570.02	69.40	405.34	132.87	153.31	300.42
18445	10.56	-8.70	-8.30	97.09	26.32	524.19	43.00	340.04	302.63	517.84	77.44	394.60	120.50	134.70	305.14
18446	9.45	-8.70	-8.30	90.58	25.74	502.17	42.07	350.69	304.60	475.38	83.42	386.60	109.03	122.45	308.51
18447	8.34	-8.70	-8.30	84.66	25.54	478.49	40.37	358.89	305.89	440.63	88.04	381.84	98.26	115.34	310.65
18448	7.22	-8.70	-8.30	78.81	25.59	454.71	37.90	364.93	306.80	412.21	91.28	380.00	87.86	112.59	311.91
18449	6.11	-8.70	-8.30	72.80	25.79	432.11	34.72	369.20	307.52	388.94	93.32	380.34	77.70	113.42	312.57
18450	5.00	-8.70	-8.30	66.72	26.05	411.70	30.94	372.09	308.20	369.79	94.35	382.07	67.76	117.10	312.89
18451	3.89	-8.70	-8.30	60.96	26.32	394.30	26.74	373.95	308.90	353.84	94.50	384.56	58.09	123.01	313.09
18452	2.78	-8.70	-8.30	56.14	26.56	380.54	22.35	375.03	309.69	340.30	93.89	387.37	48.77	130.58	313.29
18453	1.67	-8.70	-8.30	52.99	26.76	370.94	18.19	375.50	310.59	328.52	92.62	390.28	39.94	139.29	313.60
18454	0.56	-8.70	-8.30	52.13	26.91	365.87	15.05	375.46	311.62	317.95	90.78	393.15	31.84	148.69	314.08
18455	22.14	-8.10	-2.70	313.37	111.94	219.75	45.65	280.28	81.94	915.73	388.05	1282.27	120.76	1300.39	258.09
18456	21.23	-8.10	-2.70	233.84	134.64	220.59	63.37	223.07	82.91	854.96	466.21	821.47	87.22	769.19	88.39
18457	20.33	-8.10	-2.70	199.28	115.57	237.93	55.23	191.43	70.43	857.44	384.60	468.10	83.39	545.07	71.67
18458	19.42	-8.10	-2.70	174.38	110.22	263.87	60.97	170.97	45.89	845.98	290.88	246.61	144.27	436.96	45.53
18459	18.52	-8.10	-2.70	148.56	127.96	305.54	78.33	162.59	60.31	782.99	246.82	300.45	188.29	365.61	73.66
18460	21.91	-8.70	-2.70	386.43	204.70	321.78	93.63	320.32	40.40	838.47	386.52	1238.10	105.74	1266.47	445.57
18461	20.99	-8.70	-2.70	273.86	138.81	305.42	67.13	238.70	38.41	801.95	503.19	843.61	73.70	710.09	274.76
18462	20.07	-8.70	-2.70	219.46	118.88	321.96	61.12	200.21	28.87	772.43	382.96	535.21	45.07	483.14	135.16
18463	19.16	-8.70	-2.70	181.29	124.41	342.97	59.82	178.46	44.24	762.90	315.29	352.58	101.67	364.91	74.53
18464	18.24	-8.70	-2.70	150.06	136.87	362.12	67.54	177.63	97.29	755.33	265.06	342.14	189.30	318.69	134.66
18465	22.14	-8.10	-4.10	165.62	156.58	156.14	61.65	227.05	84.53	212.91	200.62	1008.52	79.98	1373.88	207.29
18466	21.23	-8.10	-4.10	116.33	168.92	187.59	46.52	175.68	58.31	116.96	283.37	724.55	55.24	813.83	149.60
18467	20.33	-8.10	-4.10	103.96	136.93	220.00	39.69	152.94	66.51	105.56	261.43	440.65	28.66	540.05	153.62
18468	19.42	-8.10	-4.10	98.35	120.73	262.86	44.68	143.50	91.39	95.00	233.83	253.96	45.14	379.99	135.07
18469	18.52	-8.10	-4.10	98.42	104.56	313.89	44.79	147.36	122.57	66.93	193.61	258.38	70.54	263.29	147.76
18470	21.91	-8.70	-4.10	199.57	166.97	199.97	86.58	243.45	38.64	102.61	205.80	1053.68	66.01	1340.47	588.64
18471	20.99	-8.70	-4.10	136.28	130.56	215.78	57.72	183.97	49.48	67.38	220.25	724.45	39.95	756.42	385.09
18472	20.07	-8.70	-4.10	111.73	114.80	242.66	50.83	154.45	74.84	76.60	214.38	441.98	22.87	494.17	245.27
18473	19.16	-8.70	-4.10	98.38	104.91	279.33	50.17	143.03	104.82	82.99	195.27	271.68	44.11	350.55	177.38
18474	18.24	-8.70	-4.10	93.88	95.30	323.64	43.82	147.21	136.20	63.03	173.69	271.46	66.01	250.00	171.93
18475	22.14	-8.10	-5.50	236.07	132.37	134.49	51.93	225.48	96.37	549.02	347.38	990.56	81.29	1353.33	107.41
18476	21.23	-8.10	-5.50	175.96	135.54	180.38	37.48	176.40	100.17	487.31	321.34	749.84	36.46	771.55	290.68
18477	20.33	-8.10	-5.50	157.88	107.50	234.10	30.95	158.94	122.89	477.06	226.08	498.52	25.21	492.42	277.21
18478	19.42	-8.10	-5.50	149.18	91.56	291.28	34.62	149.82	145.61	474.16	173.74	305.85	42.14	333.23	236.71
18479	18.52	-8.10	-5.50	142.70	80.65	346.25	34.64	151.65	167.01	462.00	138.53	257.10	44.73	235.78	215.13
18480	21.91	-8.70	-5.50	280.27	155.80	142.93	79.43	232.39	78.08	799.12	389.23	1024.44	146.04	1303.21	655.64
18481	20.99	-8.70	-5.50	193.76	116.74	192.54	50.91	176.60	107.42	578.70	228.38	730.46	91.07	707.27	483.30
18482	20.07	-8.70	-5.50	159.06	98.36	245.34	47.02	153.14	131.42	500.26	169.95	472.16	94.47	453.34	348.21
18483	19.16	-8.70	-5.50	142.03	86.92	298.78	44.67	143.33	153.56	461.82	140.04	296.50	86.66	312.29	265.58
18484	18.24	-8.70	-5.50	132.58	77.70	350.90	39.80	147.83	173.74	431.40	117.05	265.37	71.95	225.04	228.47
18485	22.14	-8.10	-6.90	382.65	145.00	120.31	52.53	228.22	108.28	1277.71	481.33	1149.64	142.93	1235.74	117.03
18486	21.23	-8.10	-6.90	314.34	135.32	191.05	24.54	192.01	134.45	1122.90	413.66	880.16	44.75	635.13	366.89
18487	20.33	-8.10	-6.90	281.13	96.87	274.32	31.67	166.22	163.05	1075.00	245.98	577.90	58.11	376.45	348.84
18488	19.42	-8.10	-6.90	248.99	78.16	346.16	40.43	150.57	184.86	1018.91	162.19	354.34	110.21	270.39	301.33
18489	18.52	-8.10	-6.90	219.24	66.63	404.17	41.40	154.04	203.48	944.73	111.92	288.65	127.15	223.34	268.66
18490	21.91	-8.70	-6.90	467.43	180.38	118.18	97.92	233.88	101.84	1672.39	618.88	1194.38	296.37	1191.21	685.28
18491	20.99	-8.70	-6.90	332.19	110.90	205.43	61.24	179.11	143.80	1239.94	286.65	828.12	176.97	587.85	527.89
18492	20.07	-8.70	-6.90	270.28	86.16	284.59	61.29	151.55	168.25	1071.13	175.71	528.26	195.17	363.59	397.85
18493	19.16	-8.70	-6.90	228.93	73.67	351.54	57.19	141.62	188.19	963.31	123.64	333.75	193.38	272.89	317.01
18494	18.24	-8.70	-6.90	198.06	65.02	406.17	50.36	151.2							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
18523	-2.78	-8.70	-2.70	39.01	18.81	289.55	9.72	307.83	256.32	47.22	26.98	335.62	21.11	80.47	257.42
18524	-3.89	-8.70	-2.70	40.79	21.24	298.95	12.04	302.72	258.02	47.78	28.90	333.51	21.13	82.44	258.84
18525	-5.00	-8.70	-2.70	42.90	24.02	310.69	14.98	295.88	259.35	50.16	30.91	330.19	22.10	83.24	259.87
18526	-6.11	-8.70	-2.70	45.36	27.10	324.12	18.32	287.29	260.26	54.13	33.02	325.64	23.88	82.96	260.45
18527	-7.22	-8.70	-2.70	48.19	30.49	338.56	21.98	276.93	260.70	59.63	35.28	319.88	26.29	81.76	260.52
18528	-8.34	-8.70	-2.70	51.45	34.21	353.29	25.93	264.85	260.61	66.69	37.75	312.97	29.23	79.92	260.04
18529	-9.45	-8.70	-2.70	55.19	38.32	367.66	30.22	251.13	259.93	75.41	40.55	305.18	32.64	77.96	258.96
18530	-10.56	-8.70	-2.70	59.49	42.92	381.01	34.96	235.95	258.61	85.97	43.81	297.07	36.55	76.62	257.21
18531	-11.67	-8.70	-2.70	64.39	48.20	392.80	40.35	219.56	256.58	98.55	47.80	289.81	41.16	76.79	254.77
18532	-12.78	-8.70	-2.70	70.30	54.42	402.62	46.82	202.44	253.83	113.76	52.90	285.49	46.82	79.59	251.68
18533	-13.89	-8.70	-2.70	77.94	62.01	410.38	54.95	185.34	250.24	132.74	59.68	287.75	54.16	85.91	247.87
18534	-15.00	-8.70	-2.70	88.98	72.61	416.33	66.10	169.19	245.67	157.98	69.74	302.40	64.60	96.15	243.33
18535	-16.11	-8.70	-2.70	107.01	89.18	423.82	82.58	155.95	238.89	194.32	86.26	342.09	80.60	109.64	237.09
18536	-17.23	-8.70	-2.70	143.78	121.57	396.41	115.63	156.51	215.59	257.42	115.41	385.74	113.19	141.04	215.56
18537	-0.56	-8.10	-4.10	30.19	7.52	292.46	2.58	335.34	271.95	38.68	35.99	343.09	12.48	86.82	273.84
18538	-1.69	-8.10	-4.10	31.91	9.54	296.38	4.41	333.44	274.00	41.77	37.00	344.67	12.75	93.46	275.58
18539	-2.82	-8.10	-4.10	33.80	11.87	304.27	7.84	329.95	275.77	43.50	37.83	345.19	14.28	98.81	277.05
18540	-3.95	-8.10	-4.10	35.79	14.41	315.65	11.61	324.81	277.22	43.95	38.52	344.67	16.77	102.76	278.21
18541	-5.08	-8.10	-4.10	37.85	17.12	329.86	15.50	317.94	278.27	43.42	39.09	343.06	19.84	105.17	278.98
18542	-6.21	-8.10	-4.10	40.01	20.02	346.14	19.42	309.24	278.85	42.41	39.56	340.30	23.22	105.96	279.27
18543	-7.34	-8.10	-4.10	42.35	23.13	363.67	23.33	298.64	278.86	41.75	39.97	336.31	26.75	105.10	278.99
18544	-8.47	-8.10	-4.10	44.99	26.50	381.62	27.22	286.05	278.17	42.56	40.34	331.03	30.32	102.62	278.00
18545	-9.60	-8.10	-4.10	48.09	30.19	399.10	31.12	271.46	276.65	45.94	40.68	324.49	33.90	98.66	276.15
18546	-10.73	-8.10	-4.10	51.75	34.28	415.24	35.10	254.93	274.10	52.47	41.03	316.98	37.51	93.51	273.26
18547	-11.85	-8.10	-4.10	56.11	38.93	429.13	39.31	236.59	270.29	62.01	41.43	309.23	41.26	87.64	269.11
18548	-12.98	-8.10	-4.10	61.31	44.27	439.82	44.03	216.81	264.90	73.99	41.90	302.77	45.40	81.82	263.42
18549	-14.11	-8.10	-4.10	67.53	50.64	446.08	49.68	196.26	257.29	87.53	42.33	300.34	50.37	77.02	255.64
18550	-15.24	-8.10	-4.10	75.10	58.62	445.95	56.80	176.42	246.20	101.19	42.56	306.10	56.88	74.63	244.70
18551	-16.37	-8.10	-4.10	84.00	68.81	430.77	65.71	161.30	228.54	111.63	41.32	319.56	65.67	79.54	227.96
18552	-17.50	-8.10	-4.10	88.25	79.13	374.53	73.61	155.12	200.99	112.40	34.38	311.72	73.76	110.20	202.99
18553	-0.56	-8.70	-4.10	31.34	7.81	303.51	3.11	331.65	267.44	38.05	34.79	353.09	13.26	86.84	269.46
18554	-1.67	-8.70	-4.10	33.25	9.88	307.10	4.44	329.82	269.35	41.11	35.94	354.45	13.40	92.98	271.06
18555	-2.78	-8.70	-4.10	35.33	12.33	314.39	7.48	326.44	270.99	42.97	36.91	354.79	14.67	97.93	272.38
18556	-3.89	-8.70	-4.10	37.54	15.00	324.95	10.97	321.45	272.30	43.74	37.74	354.09	16.85	101.56	273.38
18557	-5.00	-8.70	-4.10	39.85	17.86	338.19	14.63	314.78	273.22	43.73	38.45	352.32	19.62	103.77	273.98
18558	-6.11	-8.70	-4.10	42.30	20.89	353.41	18.35	306.33	273.67	43.45	39.05	349.41	22.75	104.48	274.11
18559	-7.22	-8.70	-4.10	44.96	24.13	369.85	22.10	296.03	273.57	43.68	39.56	345.26	26.05	103.67	273.68
18560	-8.34	-8.70	-4.10	47.94	27.62	386.70	25.86	283.83	272.80	45.40	40.01	339.82	29.44	101.39	272.56
18561	-9.45	-8.70	-4.10	51.37	31.41	403.13	29.66	269.72	271.23	49.47	40.43	333.11	32.86	97.81	270.63
18562	-10.56	-8.70	-4.10	55.38	35.57	418.30	33.54	253.79	268.70	56.37	40.80	325.39	36.30	93.25	267.71
18563	-11.67	-8.70	-4.10	59.99	40.30	431.34	37.66	236.16	264.97	65.90	41.19	317.35	39.88	88.09	263.61
18564	-12.78	-8.70	-4.10	65.43	45.73	441.33	42.30	217.19	259.77	77.69	41.67	310.36	43.85	83.10	258.08
18565	-13.89	-8.70	-4.10	71.91	52.11	447.10	47.76	197.58	252.47	91.04	42.07	306.89	48.54	79.09	250.61
18566	-15.00	-8.70	-4.10	79.78	60.16	446.63	54.74	178.50	241.87	104.70	42.29	310.65	54.81	76.98	240.21
18567	-16.11	-8.70	-4.10	88.93	70.43	431.03	63.26	163.93	225.19	115.46	41.22	320.49	63.14	81.12	224.58
18568	-17.23	-8.70	-4.10	93.23	80.12	375.14	71.04	157.22	199.54	116.91	34.88	309.14	71.04	108.46	201.77
18569	-0.56	-8.10	-5.50	31.47	8.28	314.57	3.06	353.00	287.61	122.03	52.82	358.20	0.79	106.09	289.69
18570	-1.69	-8.10	-5.50	33.99	9.67	318.82	5.76	351.21	289.36	119.78	52.59	360.53	5.03	114.40	291.06
18571	-2.82	-8.10	-5.50	36.61	11.27	327.44	9.88	348.08	290.91	116.48	52.07	362.09	9.75	121.55	292.27
18572	-3.95	-8.10	-5.50	39.16	13.05	339.92	14.25	343.53	292.20	111.98	51.30	362.88	14.51	127.32	293.26
18573	-5.08	-8.10	-5.50	41.46	15.02	355.61	18.65	337.43	293.16	106.23	50.31	362.83	19.20	131.50	293.94
18574	-6.21	-8.10	-5.50	43.45	17.20	373.72	22.95	329.64	293.68	99.29	49.10	361.83	23.75	133.90	294.22
18575	-7.34	-8.10	-5.50	45.15	19.63	393.40	27.08	320.02	293.65	91.35	47.68	359.71	28.08	134.33	293.96
18576	-8.47	-8.10	-5.50	46.69	22.36	413.69	30.97	308.43	292.89	82.82	46.05	356.28	32.10	132.62	292.99
18577	-9.60	-8.10	-5.50	48.31	25.46	433.57	34.59	294.79	291.23	74.35	44.18	351.37	35.75	128.70	291.10
18578	-10.73	-8.10	-5.50	50.35	29.01	451.92	37.93	279.10	288.40	66.98	41.99	344.94	38.99	122.48	288.05
18579	-11.85	-8.10	-5.50	53.18	33.15	467.44	41.03	261.45	284.11	62.00	39.44	337.18	41.85	113.93	283.56
18580	-12.98	-8.10	-5.50	57.16	37.97	478.51	43.99	242.18	277.96	60.56	36.39	328.68	44.40	103.11	277.27
18581	-14.11	-8.10	-5.50	62.39	43.64	482.70	46.93	221.93	269.32	62.58	32.52	320.49	46.86	90.26	268.66
18582	-15.24	-8.10	-5.50	68.35	50.27	475.44	49.81	201.98	257.34	66.19	27.45	313.16	49.48	77.57	257.11
18583	-16.37	-8.10	-5.50	72.14	57.47	448.49	51.94	183.44	241.26	67.63	21.38	303.22	51.84	75.06	242.11
18584	-17.50	-8.10	-5.50	68.44	64.16	395.44	52.75	163.28	221.17	63.32	16.88	283.23	52.60	94.29	223.45
18585	-0.56	-8.70	-5.50	31.73	8.09	326.33	2.95	349.02	283.63	117.90	51.27	369.06	1.08	106.06	285.86
18586	-1.67	-8.70	-5.50	34.33	9.66	330.27	5.46	347.30	285.25	115.87	51.28	371.18	4.93	113.79	287.09
18587	-2.78	-8.70	-5.50	37.06	11.49	338.29	9.31	344.26	286.65	112.81	51.00	372.56	9.39	120.42	288.14
18588	-3.89	-8.70	-5.50	39.74	13.52	349.97	13.42	339.81	287.78	108.62	50.46	373.18	13.90	125.77	288.94
18589	-5.00	-8.70	-5.50	42.25	15.73	364.68	17.57	333.86	288.57	103.26	49.67	372.96	18.37	129.62	289.43
18590	-6.11	-8.70	-5.50	44.51	18.14	381.72	21.65	326.25	288.91	96.80	48.65	371.77	22.73	131.79	289.50
18591	-7.22	-8.70	-5.50	46.56	20.78	400.26	25.58	316.86	288.70	89.48	47.39	369.46	26.87	132.09	289.04
18592	-8.34	-8.70	-5.50	48.54	23.70	419.38	29.32	305.55	287.80	81.72	45.88	365.82	30.75	130.38	287.88
18593	-9.45	-8.70	-5.50	50.68	26.94	438.10	32.83	292.28	286.02	74.22	44.07	360.68	34.28	126.57	285.86
18594	-1														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
18621	-5.00	-8.70	-6.90	53.45	19.55	388.64	23.23	351.99	304.24	181.29	62.21	391.12	20.45	159.54	305.06
18622	-6.11	-8.70	-6.90	56.18	20.64	407.30	27.84	345.96	304.88	171.89	59.61	391.64	25.47	163.31	305.48
18623	-7.22	-8.70	-6.90	58.08	21.99	427.79	32.25	338.34	305.07	161.47	56.72	391.26	30.28	165.03	305.49
18624	-8.34	-8.70	-6.90	59.11	23.65	449.11	36.33	328.94	304.64	150.16	53.54	389.67	34.69	164.35	304.92
18625	-9.45	-8.70	-6.90	59.42	25.69	470.09	39.97	317.60	303.40	138.25	50.06	386.51	38.55	160.98	303.56
18626	-10.56	-8.70	-6.90	59.30	28.17	489.36	43.04	304.30	301.07	126.19	46.25	381.40	41.72	154.64	301.12
18627	-11.67	-8.70	-6.90	59.11	31.25	505.24	45.53	289.05	297.34	114.54	42.19	373.96	44.18	144.95	297.34
18628	-12.78	-8.70	-6.90	59.46	34.95	515.74	47.37	272.01	291.93	103.87	38.01	363.95	45.92	131.68	291.95
18629	-13.89	-8.70	-6.90	60.71	39.39	518.00	48.35	253.34	284.36	94.33	33.95	351.01	46.87	114.75	284.56
18630	-15.00	-8.70	-6.90	62.31	44.36	508.14	48.43	232.54	274.16	85.13	30.47	334.50	47.33	95.28	274.83
18631	-16.11	-8.70	-6.90	62.89	49.64	482.30	47.28	209.26	261.12	74.92	28.80	313.64	47.15	80.77	262.48
18632	-17.23	-8.70	-6.90	60.98	55.52	438.21	45.26	182.11	245.15	62.97	29.93	288.58	46.15	81.28	247.03
18633	-0.56	-8.10	-8.30	54.96	27.45	353.65	13.21	379.49	315.12	316.59	90.61	384.66	24.47	159.26	316.95
18634	-1.69	-8.10	-8.30	58.75	27.44	358.34	15.38	378.44	316.53	306.28	87.29	387.51	20.26	169.41	317.93
18635	-2.82	-8.10	-8.30	63.99	27.40	367.83	19.91	376.87	318.07	296.09	83.58	390.28	19.80	179.01	319.12
18636	-3.95	-8.10	-8.30	69.84	27.34	381.72	25.51	374.67	319.70	285.71	79.52	392.94	22.88	187.71	320.47
18637	-5.08	-8.10	-8.30	75.51	27.29	399.44	31.45	371.70	321.35	274.83	75.14	395.42	27.95	195.15	321.90
18638	-6.21	-8.10	-8.30	80.37	27.25	420.30	37.33	367.76	322.93	263.20	70.48	397.62	33.70	200.93	323.32
18639	-7.34	-8.10	-8.30	83.88	27.26	443.48	42.89	362.57	324.30	250.60	65.57	399.32	39.40	204.58	324.59
18640	-8.47	-8.10	-8.30	85.70	27.35	467.95	47.93	355.82	325.29	236.93	60.45	400.19	44.64	205.60	325.51
18641	-9.60	-8.10	-8.30	85.64	27.55	492.44	52.23	347.24	325.63	222.22	55.18	399.76	49.13	203.50	325.82
18642	-10.73	-8.10	-8.30	83.69	27.97	515.39	55.62	336.64	324.97	206.57	49.84	397.40	52.67	197.79	325.17
18643	-11.85	-8.10	-8.30	79.92	28.75	534.96	57.95	323.94	322.90	190.07	44.61	392.46	55.12	188.08	323.13
18644	-12.98	-8.10	-8.30	74.46	30.09	549.08	59.03	309.00	318.98	172.52	39.79	384.23	56.42	173.98	319.32
18645	-14.11	-8.10	-8.30	67.54	32.23	555.30	58.73	291.21	312.76	153.20	35.92	371.99	56.56	155.04	313.28
18646	-15.24	-8.10	-8.30	59.91	35.38	550.75	56.89	269.38	303.88	131.27	33.74	355.03	55.63	131.64	304.70
18647	-16.37	-8.10	-8.30	52.98	39.76	532.13	53.40	241.99	292.28	106.43	34.16	332.83	53.61	106.55	293.38
18648	-17.50	-8.10	-8.30	48.19	45.61	495.93	48.38	207.91	278.09	79.74	37.55	306.09	50.46	87.07	279.21
18649	-0.56	-8.70	-8.30	53.78	27.01	365.54	14.13	374.95	312.79	308.18	88.42	395.96	25.05	158.41	314.74
18650	-1.67	-8.70	-8.30	57.56	27.09	369.97	16.06	373.97	314.08	298.70	85.58	398.69	20.52	167.97	315.59
18651	-2.78	-8.70	-8.30	62.75	27.15	378.96	20.12	372.47	315.47	289.26	82.33	401.34	19.43	177.03	316.61
18652	-3.89	-8.70	-8.30	68.54	27.20	392.14	25.24	370.37	316.91	279.55	78.71	403.88	21.87	185.26	317.75
18653	-5.00	-8.70	-8.30	74.16	27.27	409.00	30.74	367.53	318.32	269.29	74.75	406.23	26.47	192.30	318.94
18654	-6.11	-8.70	-8.30	78.98	27.37	428.90	36.25	363.73	319.63	258.22	70.49	408.28	31.89	197.76	320.09
18655	-7.22	-8.70	-8.30	82.49	27.53	451.02	41.52	358.69	320.70	246.15	65.94	409.80	37.37	201.17	321.04
18656	-8.34	-8.70	-8.30	84.34	27.79	474.38	46.33	352.10	321.37	232.98	61.12	410.46	42.47	202.02	321.64
18657	-9.45	-8.70	-8.30	84.39	28.19	497.68	50.52	343.66	321.41	218.73	56.09	409.75	46.92	199.79	321.64
18658	-10.56	-8.70	-8.30	82.68	28.81	519.35	53.88	333.19	320.49	203.55	50.88	407.03	50.49	194.07	320.72
18659	-11.67	-8.70	-8.30	79.32	29.78	537.50	56.28	320.60	318.22	187.59	45.71	401.61	53.10	184.39	318.49
18660	-12.78	-8.70	-8.30	74.58	31.26	550.07	57.60	305.88	314.28	170.81	40.90	392.80	54.71	170.60	314.65
18661	-13.89	-8.70	-8.30	68.66	33.47	554.73	57.53	288.61	308.21	152.49	37.00	379.87	55.17	152.54	308.77
18662	-15.00	-8.70	-8.30	61.91	36.50	548.88	56.06	267.43	299.58	131.56	34.68	362.19	54.75	130.21	300.45
18663	-16.11	-8.70	-8.30	55.61	40.59	529.73	53.02	241.63	288.39	108.19	34.86	339.31	53.37	107.18	289.57
18664	-17.23	-8.70	-8.30	50.80	46.01	494.33	48.54	209.80	274.74	83.02	37.91	311.87	50.93	89.37	275.93
18665	-18.52	-8.10	-2.70	178.86	146.56	230.36	159.57	169.98	149.84	359.95	127.54	265.50	157.26	225.06	159.41
18666	-19.42	-8.10	-2.70	104.81	112.57	63.58	101.77	60.00	64.22	217.61	40.52	70.52	95.95	102.47	69.43
18667	-20.33	-8.10	-2.70	73.38	108.95	32.67	69.71	23.06	40.97	125.59	22.98	39.09	59.90	55.03	41.42
18668	-21.23	-8.10	-2.70	48.96	110.19	18.06	53.05	18.05	31.43	61.51	37.29	26.19	36.30	30.13	31.53
18669	-22.14	-8.10	-2.70	25.09	112.75	11.73	44.47	14.85	25.28	17.54	45.80	13.24	19.50	15.43	31.86
18670	-18.24	-8.70	-2.70	184.44	153.86	231.78	154.33	168.95	152.42	356.93	134.58	259.97	151.44	215.72	162.32
18671	-19.16	-8.70	-2.70	110.24	113.56	64.81	101.40	60.76	65.29	219.55	44.93	70.46	94.58	99.55	71.01
18672	-20.07	-8.70	-2.70	77.85	107.91	33.09	71.27	23.88	40.93	129.24	22.16	38.81	60.14	54.41	41.46
18673	-20.99	-8.70	-2.70	52.80	109.04	18.23	55.80	18.70	31.27	64.84	35.90	25.90	37.63	30.90	31.33
18674	-21.91	-8.70	-2.70	28.69	112.48	11.77	47.55	15.79	25.07	19.42	45.07	13.12	21.09	17.16	32.28
18675	-18.52	-8.10	-4.10	73.80	82.40	284.13	73.40	142.55	171.87	98.72	19.76	263.28	70.86	147.94	176.83
18676	-19.42	-8.10	-4.10	64.49	85.09	189.14	77.54	112.52	141.99	113.75	11.74	190.94	70.81	157.98	147.11
18677	-20.33	-8.10	-4.10	46.88	92.49	111.52	65.47	65.90	111.42	87.08	14.62	126.23	55.65	120.34	112.46
18678	-21.23	-8.10	-4.10	31.04	101.28	66.63	52.47	41.50	92.04	49.96	33.70	97.02	39.07	83.35	92.09
18679	-22.14	-8.10	-4.10	19.16	109.91	41.44	43.30	32.43	79.97	15.42	49.79	70.33	25.41	49.54	86.68
18680	-18.24	-8.70	-4.10	78.67	81.97	285.59	72.35	143.86	171.85	102.94	20.61	260.00	69.29	142.71	177.24
18681	-19.16	-8.70	-4.10	68.10	83.74	190.75	78.23	113.83	142.23	114.52	12.83	188.78	70.51	152.99	147.88
18682	-20.07	-8.70	-4.10	49.96	90.70	112.80	67.61	67.93	111.21	87.67	13.28	124.94	56.57	118.38	112.42
18683	-20.99	-8.70	-4.10	34.07	99.87	67.26	55.29	43.85	91.79	50.84	33.11	95.63	40.56	84.02	91.79
18684	-21.91	-8.70	-4.10	22.43	109.42	41.19	46.31	35.18	79.52	16.72	50.19	69.25	27.03	52.70	86.91
18685	-18.52	-8.10	-5.50	59.71	70.43	328.61	53.24	139.49	199.59	57.38	17.04	255.26	51.78	117.30	202.51
18686	-19.42	-8.10	-5.50	48.75	77.36	259.53	50.95	113.50	179.20	48.32	23.54	225.19	47.20	129.14	181.27
18687	-20.33	-8.10	-5.50	36.84	84.77	190.28	48.58	86.72	159.83	40.70	32.12	198.25	41.91	126.47	160.17
18688	-21.23	-8.10	-5.50	26.88	94.25	127.96	43.93	63.57	142.43	27.13	43.59	179.90	33.77	104.67	132.30
18689	-22.14	-8.10	-5.50	18.00	103.81	86.21	39.89	48.98	129.18	11.69	55.05	172.14	25.25	69.04	133.90
18690	-18.24	-8.70	-5.50	63.33	69.77	329.76	53.15	142.14	198.39	61.21	17.12	254.70	51.51	114.18	201.56
18691	-19.16	-8.70	-5.50	52.21	76.37	261.00	51.94	116.27	178.22	51.43	23.67	223.60	47		



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
18719	17.76	-9.62	-2.70	113.80	193.81	272.77	97.63	130.05	184.81	790.30	398.60	263.46	274.04	251.77	238.23
18720	20.65	-11.34	-2.70	55.73	158.34	10.88	95.75	24.92	35.89	163.70	75.51	62.13	141.11	143.26	291.81
18721	19.75	-11.21	-2.70	108.59	148.79	18.08	112.59	32.26	46.64	415.92	149.81	27.13	276.93	97.45	158.82
18722	18.85	-11.08	-2.70	121.13	140.71	29.12	100.20	32.89	54.55	544.15	230.43	24.91	291.65	76.82	110.32
18723	17.95	-10.95	-2.70	112.62	143.45	51.46	89.72	44.31	69.35	634.39	286.12	45.98	280.72	87.04	98.36
18724	17.06	-10.82	-2.70	86.88	176.17	192.20	93.70	117.44	141.29	768.41	378.05	199.15	283.12	204.29	178.66
18725	19.76	-12.83	-2.70	65.43	122.65	12.73	83.73	23.62	24.64	171.55	101.23	36.60	162.82	119.37	167.11
18726	18.89	-12.62	-2.70	88.32	121.90	19.38	89.02	25.21	29.28	331.74	34.38	25.70	242.62	69.44	95.27
18727	18.01	-12.41	-2.70	103.13	122.58	32.62	87.95	25.55	38.79	449.73	122.37	27.71	264.45	54.44	70.49
18728	17.14	-12.19	-2.70	99.36	129.72	61.30	87.85	47.06	62.88	546.72	217.13	52.06	257.27	66.64	79.67
18729	16.27	-11.98	-2.70	90.23	173.94	212.57	98.33	129.37	146.12	672.59	347.10	189.57	241.67	170.94	173.62
18730	18.76	-14.25	-2.70	70.74	105.49	10.30	82.01	22.77	21.79	182.84	126.57	19.27	174.38	87.06	112.95
18731	17.92	-13.96	-2.70	91.36	106.22	17.50	83.64	24.64	25.76	307.80	18.58	17.79	217.59	57.54	70.43
18732	17.08	-13.67	-2.70	102.42	109.38	32.18	83.31	26.16	35.85	399.90	83.17	26.87	227.61	45.98	58.97
18733	16.24	-13.37	-2.70	99.66	121.22	62.70	87.63	51.39	63.66	481.78	183.05	51.07	216.72	55.64	77.94
18734	15.40	-13.08	-2.70	101.11	175.63	223.86	101.89	137.24	154.07	585.45	321.20	182.96	193.75	142.90	177.04
18735	17.66	-15.59	-2.70	81.84	93.24	10.27	82.72	24.01	20.69	197.61	125.63	15.82	174.64	72.79	80.51
18736	16.86	-15.22	-2.70	99.24	94.45	18.39	82.00	25.55	24.47	294.86	27.04	18.59	195.08	50.00	55.32
18737	16.06	-14.85	-2.70	107.98	98.94	33.87	81.94	28.54	34.91	368.04	63.31	28.85	194.62	40.22	53.27
18738	15.26	-14.48	-2.70	105.18	114.31	65.78	88.68	54.88	65.87	431.65	159.69	53.43	179.47	46.68	79.28
18739	14.46	-14.11	-2.70	112.00	178.42	235.56	105.48	141.96	163.63	508.61	300.32	189.18	153.23	117.32	185.41
18740	16.47	-16.85	-2.70	95.35	82.95	10.06	84.24	25.62	19.80	211.82	114.14	13.67	169.26	62.03	58.52
18741	15.71	-16.41	-2.70	110.42	84.44	19.00	81.76	27.08	23.37	287.95	30.67	19.28	174.33	44.66	44.08
18742	14.95	-15.97	-2.70	117.07	89.68	35.10	81.87	30.95	34.33	344.09	50.88	30.89	166.62	35.16	49.07
18743	14.20	-15.53	-2.70	113.56	108.18	68.21	90.36	57.32	68.58	390.44	141.40	57.24	149.15	38.19	81.71
18744	13.44	-15.08	-2.70	121.07	180.80	245.53	109.77	144.29	173.39	441.25	282.04	204.07	122.01	95.06	195.44
18745	15.18	-18.02	-2.70	110.94	73.38	9.89	85.43	27.27	18.78	224.95	99.01	12.50	160.30	53.55	42.09
18746	14.48	-17.51	-2.70	123.76	75.23	19.62	81.72	28.72	22.13	283.37	31.57	20.24	155.69	40.00	34.91
18747	13.77	-17.00	-2.70	128.30	81.00	36.26	82.13	33.24	33.80	324.81	42.75	33.28	143.47	30.49	45.71
18748	13.07	-16.49	-2.70	123.31	102.33	70.45	92.37	59.07	71.47	355.60	126.56	62.14	125.25	30.83	84.62
18749	12.37	-15.98	-2.70	128.05	182.82	254.92	115.20	145.25	183.44	382.61	266.95	224.34	98.99	77.62	207.13
18750	13.81	-19.09	-2.70	128.07	63.89	9.73	85.53	28.77	17.57	237.23	83.10	11.62	149.27	46.14	29.34
18751	13.17	-18.52	-2.70	138.54	66.30	20.19	81.05	30.34	20.66	280.51	30.90	21.13	138.97	35.67	27.27
18752	12.52	-17.94	-2.70	140.87	72.50	37.32	82.08	35.39	33.20	309.17	37.52	35.67	124.47	26.26	42.98
18753	11.88	-17.37	-2.70	133.80	96.60	72.52	94.43	60.33	74.48	326.34	114.80	67.37	106.69	24.92	87.81
18754	11.23	-16.80	-2.70	132.91	184.48	263.53	121.82	144.76	193.76	331.76	254.83	246.24	81.84	64.66	219.37
18755	12.37	-20.05	-2.70	146.16	54.25	9.60	83.92	30.04	16.20	249.03	67.64	10.92	136.81	39.45	19.35
18756	11.79	-19.42	-2.70	154.15	57.44	20.72	79.21	31.85	18.93	279.37	29.05	21.92	123.82	31.52	20.89
18757	11.20	-18.79	-2.70	154.17	64.02	38.28	81.31	37.38	32.52	297.03	34.22	37.91	108.76	22.49	40.73
18758	10.62	-18.17	-2.70	144.57	90.89	74.39	96.26	61.19	77.42	302.48	105.63	72.40	92.24	20.32	90.90
18759	10.04	-17.54	-2.70	135.95	185.11	271.03	129.22	143.28	203.40	288.91	244.54	267.00	69.44	55.17	230.94
18760	10.86	-20.91	-2.70	164.53	44.54	9.49	80.17	31.05	14.73	260.52	53.17	10.37	123.14	33.28	11.57
18761	10.35	-20.23	-2.70	169.97	48.64	21.18	75.81	33.22	16.96	279.99	26.34	22.57	109.77	27.45	15.57
18762	9.83	-19.55	-2.70	167.63	55.55	39.14	79.56	39.20	31.76	288.34	31.98	39.87	95.51	19.06	38.81
18763	9.32	-18.87	-2.70	155.25	85.19	76.04	97.71	61.78	80.16	283.90	98.45	76.88	80.91	16.70	93.67
18764	8.80	-18.19	-2.70	137.52	185.01	277.67	137.06	141.14	212.44	254.06	236.01	285.45	60.55	47.94	241.57
18765	9.29	-21.65	-2.70	182.46	35.02	9.41	74.03	31.82	13.23	271.61	40.04	9.94	108.28	27.50	5.76
18766	8.85	-20.93	-2.70	185.39	40.04	21.60	70.70	34.41	14.77	282.19	23.06	23.08	96.34	23.33	11.19
18767	8.41	-20.20	-2.70	180.75	47.17	39.89	76.79	40.81	30.97	282.86	30.25	41.50	84.03	15.82	37.13
18768	7.96	-19.48	-2.70	165.54	79.74	77.51	98.72	62.16	82.69	270.30	92.89	80.66	71.89	13.61	95.97
18769	7.52	-18.76	-2.70	138.06	184.37	283.44	144.91	138.59	220.69	226.91	228.89	300.87	54.35	41.64	250.74
18770	7.67	-22.28	-2.70	199.23	26.06	9.34	65.44	32.37	11.79	281.94	28.49	9.63	92.19	22.02	2.85
18771	7.30	-21.52	-2.70	199.84	31.88	21.95	63.89	35.42	12.40	285.56	19.57	23.45	83.10	19.09	7.66
18772	6.94	-20.76	-2.70	193.08	39.05	40.55	73.09	42.19	30.21	280.12	28.77	42.78	73.71	12.64	35.63
18773	6.57	-19.99	-2.70	175.22	74.75	78.77	99.27	62.36	84.96	261.13	88.59	83.66	64.53	10.74	97.69
18774	6.20	-19.23	-2.70	138.10	183.44	288.32	152.35	135.87	227.96	206.94	222.92	312.93	50.35	35.41	258.10
18775	6.01	-22.78	-2.70	214.17	18.10	9.29	54.51	32.75	10.48	290.93	18.78	9.41	74.85	16.85	4.40
18776	5.72	-21.99	-2.70	212.79	24.37	22.25	55.64	36.25	9.90	289.43	16.30	23.69	69.75	14.68	4.94
18777	5.43	-21.20	-2.70	204.22	31.40	41.09	68.75	43.34	29.55	279.43	27.51	43.71	64.09	9.42	34.24
18778	5.14	-20.41	-2.70	184.08	70.51	79.82	99.40	62.47	86.92	255.66	85.28	85.84	58.34	7.99	98.72
18779	4.86	-19.62	-2.70	138.26	182.55	292.28	158.92	133.28	234.11	193.44	217.89	321.55	48.27	28.98	263.40
18780	4.32	-23.17	-2.70	226.66	11.56	9.25	41.57	33.01	9.37	297.83	11.23	9.28	56.37	12.25	6.53
18781	4.11	-22.35	-2.70	223.73	17.77	22.50	46.45	36.90	7.32	292.99	13.68	23.81	56.17	10.11	3.10
18782	3.90	-21.54	-2.70	213.80	24.51	41.52	64.19	44.25	29.04	279.98	26.46	44.52	54.91	6.12	32.97
18783	3.69	-20.72	-2.70	191.95	67.30	80.63	99.16	62.52	88.50	253.07	82.73	87.21	53.01	5.65	99.05
18784	3.49	-19.90	-2.70	139.20	182.04	295.28	164.23	131.07	239.02	185.58	213.69	326.76	47.79	22.62	266.52
18785	2.60	-23.42	-2.70	236.11	6.78	9.22	27.15	33.22	8.55	301.81	6.32	9.22	37.09	9.28	7.93
18786	2.47	-22.59	-2.70	232.23	12.32	22.68	37.31	37.38	4.73	295.37	12.04	23.81	42.56	5.63	2.18
18787	2.35	-21.76	-2.70	221.49	18.86	41.83	59.99	44.91	28.72	280.89	25.64	44.52	46.14	2.81	31.83
18788	2.22	-20.93	-2.70	198.67	65.41	81.19	98.63	62.58	89.67	252.50	80.76	87.79	48.32	4.61	98.68
18789	2.10	-20.10	-2.70	141.50	182.22	297.29	167.94	129.48	242.54	182.56	210.19	328.69	48.56	17.35	267.39
18790	0.87	-23.5													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
18817	16.06	-14.85	-4.10	64.72	75.89	117.53	79.15	77.27	100.20	154.88	43.20	98.65	85.00	114.77	148.71
18818	15.26	-14.48	-4.10	63.02	78.20	195.80	77.55	111.44	137.53	175.69	79.58	157.57	80.07	104.48	166.54
18819	14.46	-14.11	-4.10	74.58	81.67	292.94	58.45	141.04	164.59	165.84	80.05	233.16	65.72	96.46	183.55
18820	16.47	-16.85	-4.10	78.94	74.41	36.40	76.55	64.32	62.60	104.24	63.89	57.73	88.51	151.60	152.11
18821	15.71	-16.41	-4.10	78.88	69.19	72.94	78.27	68.30	74.10	136.98	18.97	73.20	92.32	119.15	131.19
18822	14.95	-15.97	-4.10	75.91	66.47	121.23	81.14	83.20	98.63	162.51	30.60	105.53	90.25	96.64	135.24
18823	14.20	-15.53	-4.10	72.97	70.85	201.84	78.98	116.64	138.99	176.62	66.54	168.44	80.94	86.56	164.51
18824	13.44	-15.08	-4.10	81.74	75.91	300.80	58.84	145.23	166.15	169.06	65.43	248.01	61.98	81.56	184.26
18825	15.18	-18.02	-4.10	94.73	66.14	36.47	79.40	69.54	59.06	127.67	64.08	53.83	97.57	129.22	114.66
18826	14.48	-17.51	-4.10	93.26	59.98	75.35	80.16	73.74	70.99	151.25	23.40	76.86	96.55	101.92	109.20
18827	13.77	-17.00	-4.10	88.98	57.72	124.81	82.42	88.63	97.43	168.21	26.11	113.41	91.34	81.26	125.93
18828	13.00	-16.49	-4.10	84.24	64.22	207.51	79.87	120.89	140.99	175.74	59.07	181.84	79.38	70.97	164.45
18829	12.37	-15.98	-4.10	89.93	70.09	308.20	59.30	148.63	168.08	169.12	53.84	267.21	57.20	68.25	186.17
18830	13.81	-19.09	-4.10	111.91	57.39	36.77	80.72	74.49	54.91	149.23	58.38	51.25	100.69	110.28	86.61
18831	13.17	-18.52	-4.10	108.99	50.77	77.71	80.76	78.96	67.47	164.44	23.10	80.66	96.72	87.34	92.47
18832	12.52	-17.94	-4.10	103.28	49.60	128.21	82.57	93.63	96.17	173.66	26.16	121.43	89.80	68.28	119.11
18833	11.88	-17.37	-4.10	96.40	58.38	212.82	79.97	124.45	143.13	174.90	55.46	196.03	76.41	57.96	165.37
18834	11.23	-16.80	-4.10	98.76	64.15	315.14	59.73	151.42	170.20	167.91	45.10	287.92	52.19	56.86	188.36
18835	12.37	-20.05	-4.10	129.93	48.14	37.20	80.03	78.96	50.09	169.59	49.70	49.14	99.44	93.73	65.10
18836	11.79	-19.42	-4.10	125.50	41.56	79.91	79.60	83.80	63.45	177.42	20.28	84.12	93.89	74.68	79.40
18837	11.20	-18.79	-4.10	118.25	42.36	131.32	81.23	98.24	94.74	179.83	28.23	128.93	86.27	57.33	113.83
18838	10.62	-18.17	-4.10	108.98	53.46	217.64	79.04	127.50	145.18	175.15	54.23	209.61	72.40	47.28	166.60
18839	10.04	-17.54	-4.10	107.79	58.02	321.42	59.96	153.82	172.23	166.63	38.40	307.92	47.34	47.18	190.48
18840	10.86	-20.91	-4.10	148.13	38.61	37.71	76.97	82.83	44.63	188.95	39.71	47.32	94.62	78.87	48.39
18841	10.35	-20.23	-4.10	142.16	32.65	81.90	76.39	88.17	58.98	190.44	16.74	87.04	88.54	63.38	68.96
18842	9.83	-19.55	-4.10	133.30	36.53	134.11	78.19	102.40	93.14	187.00	31.18	135.52	81.00	47.92	109.54
18843	9.32	-18.87	-4.10	121.55	49.69	221.95	76.99	130.14	147.05	176.89	54.32	221.77	67.49	38.48	167.76
18844	8.80	-18.19	-4.10	116.74	51.66	327.07	59.91	155.90	174.12	165.99	33.22	325.98	42.88	39.11	192.33
18845	9.29	-21.65	-4.10	165.81	29.16	38.22	71.36	86.06	38.66	207.10	29.48	45.72	86.65	65.14	35.34
18846	8.85	-20.93	-4.10	158.33	24.56	83.64	71.00	91.98	54.23	203.31	14.27	89.38	80.90	52.87	60.54
18847	8.41	-20.20	-4.10	147.90	32.74	136.56	73.41	106.06	91.48	194.98	34.49	141.02	74.09	39.52	105.88
18848	7.96	-19.48	-4.10	133.71	47.22	225.74	73.84	132.38	148.73	180.07	55.09	232.07	61.72	31.03	168.61
18849	7.52	-18.76	-4.10	125.37	45.11	332.08	59.54	157.67	175.87	166.30	29.16	341.41	38.79	32.45	193.73
18850	7.67	-22.28	-4.10	182.27	20.26	38.71	63.18	88.66	32.32	223.57	19.81	44.35	75.82	52.07	25.20
18851	7.30	-21.52	-4.10	173.40	18.23	85.15	63.47	95.21	49.43	215.55	14.35	91.14	71.12	42.69	53.74
18852	6.94	-20.76	-4.10	161.52	31.36	138.67	67.00	109.19	89.91	203.27	37.84	145.37	65.60	31.67	102.66
18853	6.57	-19.99	-4.10	145.07	46.07	229.01	69.75	134.24	150.24	184.29	56.11	240.32	55.08	24.59	168.97
18854	6.20	-19.23	-4.10	133.46	38.40	336.39	58.87	159.15	177.47	167.56	25.91	353.84	34.98	27.20	194.57
18855	6.01	-22.78	-4.10	196.87	12.44	39.15	52.58	90.70	25.75	237.72	11.48	43.20	62.45	39.35	17.55
18856	5.72	-21.99	-4.10	186.82	14.89	86.42	54.01	97.84	44.89	226.52	16.67	92.33	59.38	32.48	48.31
18857	5.43	-21.20	-4.10	173.69	32.06	140.43	59.30	111.78	88.56	211.23	40.93	148.56	55.65	24.08	99.75
18858	5.14	-20.41	-4.10	155.29	46.03	231.71	65.01	135.75	151.57	189.04	57.10	246.43	47.62	19.21	168.75
18859	4.86	-19.62	-4.10	140.82	31.64	339.94	57.95	160.37	178.90	169.57	23.24	363.11	31.33	23.72	194.79
18860	4.32	-23.17	-4.10	209.01	6.35	39.52	39.90	92.23	19.12	248.88	5.53	42.26	46.92	26.98	12.15
18861	4.11	-22.35	-4.10	198.04	14.86	87.45	43.09	99.88	40.96	235.51	19.64	92.99	45.98	22.03	44.12
18862	3.90	-21.54	-4.10	183.96	33.90	141.83	50.88	113.80	87.52	218.18	43.42	150.61	44.47	16.73	97.09
18863	3.69	-20.72	-4.10	164.05	46.72	233.82	60.06	136.95	152.71	193.70	57.84	250.40	39.49	15.56	167.91
18864	3.49	-19.90	-4.10	147.30	25.03	342.68	56.86	161.35	180.13	172.03	20.99	369.19	27.77	22.49	194.38
18865	2.60	-23.42	-4.10	218.14	3.26	39.82	25.63	93.33	12.73	256.36	4.20	41.52	29.78	16.10	8.86
18866	2.47	-22.59	-4.10	206.63	16.46	88.20	31.62	101.35	38.05	241.86	22.00	93.13	31.37	11.34	41.07
18867	2.35	-21.76	-4.10	191.97	35.92	142.84	42.74	115.26	86.88	223.46	45.00	151.53	32.48	10.30	94.71
18868	2.22	-20.93	-4.10	171.09	47.72	235.29	55.53	137.84	153.61	197.71	58.13	252.28	30.97	14.72	166.50
18869	2.10	-20.10	-4.10	152.73	19.05	344.54	55.69	162.12	181.14	174.58	19.02	372.11	24.27	23.62	193.39
18870	0.87	-23.55	-4.10	223.84	3.57	40.00	10.94	94.08	7.68	259.59	5.35	40.92	11.75	12.83	7.42
18871	0.83	-22.71	-4.10	212.19	17.87	88.64	21.86	102.26	36.56	245.00	23.07	92.70	16.43	2.90	39.15
18872	0.78	-21.87	-4.10	197.39	37.41	143.41	36.55	116.16	86.70	226.54	45.44	151.33	20.51	8.10	92.70
18873	0.74	-21.03	-4.10	176.19	48.70	236.10	52.11	138.44	154.29	200.60	57.85	252.12	22.65	16.87	164.63
18874	0.70	-20.20	-4.10	157.02	14.78	345.55	54.53	162.68	181.91	176.90	17.29	372.03	20.88	26.49	191.93
18875	21.43	-9.79	-5.50	162.65	171.20	143.40	126.02	130.79	143.83	468.40	427.86	834.49	355.20	820.54	1067.97
18876	20.51	-9.75	-5.50	138.81	110.53	193.16	84.04	127.96	140.73	427.74	214.05	579.03	233.51	541.84	610.10
18877	19.60	-9.70	-5.50	123.59	93.49	243.29	66.50	122.62	152.29	396.15	156.20	372.48	173.09	381.03	392.64
18878	18.68	-9.66	-5.50	116.24	83.76	295.41	54.19	125.63	167.56	374.96	128.87	260.70	129.70	277.10	285.25
18879	17.76	-9.62	-5.50	111.87	75.53	347.74	44.00	139.80	183.67	349.39	108.47	267.05	95.90	207.97	239.80
18880	20.65	-11.34	-5.50	32.45	111.43	129.61	63.12	68.91	132.59	73.52	232.07	490.51	145.82	436.29	760.56
18881	19.75	-11.21	-5.50	64.80	101.15	172.30	73.66	83.96	150.20	193.19	196.71	347.38	188.48	381.35	523.23
18882	18.85	-11.08	-5.50	76.48	87.66	224.36	66.60	95.40	164.39	229.26	150.99	244.92	161.94	302.71	366.09
18883	17.95	-10.95	-5.50	83.42	79.74	281.03	55.50	113.05	177.70	240.22	121.74	224.16	125.83	236.51	278.49
18884	17.06	-10.82	-5.50	87.25	73.49	338.76	44.48	136.56	190.94	234.77	102.91	263.96	93.41	187.09	239.08
18885	19.76	-12.83	-5.50	41.52	88.63	99.65	57.65	76.25	124.60	71.14	133.75	278.92	87.62	378.28	545.62
18886	18.89	-12.62	-5.50	47.41	85.65	148.32	60.03	80.04	139.43	88.06	133.39	201.22	100.26	306.58	398.66
18887	18.01	-12.41	-5.50	55.94	80.27	206.12	59.32	92.98	156.83	112.51	122.50</				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
18915	12.37	-20.05	-5.50	118.71	45.75	96.00	72.27	118.48	80.18	116.00	39.69	122.57	69.67	132.88	100.32
18916	11.79	-19.42	-5.50	113.50	42.88	157.39	67.10	124.57	99.15	112.75	29.91	164.84	62.88	110.26	120.07
18917	11.20	-18.79	-5.50	107.91	42.22	223.81	61.02	137.69	124.91	108.30	27.09	218.07	54.00	92.01	144.93
18918	10.62	-18.17	-5.50	104.00	47.62	293.75	51.07	155.43	150.27	103.74	30.53	278.03	41.17	79.62	167.19
18919	10.04	-17.54	-5.50	98.58	52.60	362.53	41.18	175.19	171.51	97.19	32.64	339.11	28.27	72.92	184.07
18920	10.86	-20.91	-5.50	135.99	37.38	98.95	69.90	124.32	71.69	138.16	34.12	121.60	70.38	112.79	78.46
18921	10.35	-20.23	-5.50	129.00	35.20	161.26	64.71	130.79	92.27	131.89	26.55	170.48	63.28	93.90	105.52
18922	9.83	-19.55	-5.50	121.49	35.52	228.12	58.73	143.60	120.17	124.50	25.14	228.36	54.18	78.52	136.13
18923	9.32	-18.87	-5.50	115.19	42.30	298.40	49.29	160.56	147.05	117.10	29.21	292.15	41.31	68.50	162.03
18924	8.80	-18.19	-5.50	107.30	48.52	367.32	40.22	179.57	168.98	107.68	32.00	356.37	28.46	63.93	180.75
18925	9.29	-21.65	-5.50	152.68	28.88	101.61	65.01	129.22	62.59	159.01	27.15	120.63	67.28	94.16	61.25
18926	8.85	-20.93	-5.50	144.00	27.54	164.65	60.16	136.18	85.14	149.90	22.06	175.07	60.40	78.90	93.75
18927	8.41	-20.20	-5.50	134.66	28.94	231.91	54.72	148.77	115.42	139.68	22.51	237.01	51.71	66.41	128.70
18928	7.96	-19.48	-5.50	126.09	36.95	302.50	46.31	165.07	143.91	129.47	27.48	304.26	39.55	58.77	157.43
18929	7.52	-18.76	-5.50	115.86	44.31	371.58	38.58	183.42	166.55	117.30	31.51	371.36	27.47	56.35	177.63
18930	7.67	-22.28	-5.50	168.14	20.76	103.95	57.60	133.19	53.15	177.98	19.79	119.58	60.71	76.22	47.73
18931	7.30	-21.52	-5.50	157.95	20.34	167.58	53.47	140.71	78.12	166.33	17.33	178.59	54.56	64.53	84.19
18932	6.94	-20.76	-5.50	146.93	22.78	235.17	49.00	153.17	110.96	153.56	19.59	243.93	46.84	55.10	122.36
18933	6.57	-19.99	-5.50	136.30	31.75	306.04	42.16	168.90	141.06	140.74	25.33	314.13	36.06	50.17	153.27
18934	6.20	-19.23	-5.50	123.94	40.11	375.26	36.26	186.71	164.39	126.05	30.89	383.71	25.39	50.17	174.68
18935	6.01	-22.78	-5.50	181.81	13.51	105.97	47.88	136.31	43.66	194.44	12.91	118.48	51.05	58.39	37.37
18936	5.72	-21.99	-5.50	170.33	14.09	170.05	44.80	144.36	71.62	180.70	13.20	181.07	46.11	50.31	76.54
18937	5.43	-21.20	-5.50	157.87	17.40	237.91	41.74	156.76	107.07	165.77	16.84	249.12	39.88	44.36	116.97
18938	5.14	-20.41	-5.50	145.46	26.89	308.99	36.99	172.05	138.66	150.70	22.96	321.68	31.08	42.74	149.53
18939	4.86	-19.62	-5.50	131.28	36.06	378.31	33.41	189.42	162.63	133.84	30.10	393.27	22.35	45.60	171.93
18940	4.32	-23.17	-5.50	193.15	7.63	107.65	36.13	138.64	34.56	207.78	7.30	117.32	38.79	40.31	29.86
18941	4.11	-22.35	-5.50	180.68	9.31	172.08	34.46	147.17	66.13	192.47	10.38	182.56	35.48	35.99	70.60
18942	3.90	-21.54	-5.50	167.10	13.16	240.13	33.29	159.54	103.99	175.90	14.55	252.60	31.16	34.36	112.47
18943	3.69	-20.72	-5.50	153.27	22.62	311.33	31.15	174.52	136.86	159.07	20.61	326.89	24.84	36.92	146.20
18944	3.49	-19.90	-5.50	137.64	32.40	380.70	30.26	191.56	161.37	140.52	29.20	399.97	18.52	42.92	169.43
18945	2.60	-23.42	-5.50	201.71	3.57	108.94	22.79	140.27	26.64	217.41	3.82	116.06	24.53	21.86	24.98
18946	2.47	-22.59	-5.50	188.58	6.52	173.61	22.97	149.15	62.13	201.15	8.99	183.04	23.17	21.84	66.28
18947	2.35	-21.76	-5.50	174.24	10.27	241.75	24.30	161.52	101.91	183.56	12.78	254.36	21.13	26.04	108.87
18948	2.22	-20.93	-5.50	159.44	19.20	313.01	25.24	176.29	135.73	165.57	18.53	329.77	17.67	33.44	143.35
18949	2.10	-20.10	-5.50	142.80	29.37	382.37	27.15	193.10	160.63	145.90	28.31	403.80	14.09	42.31	167.25
18950	0.87	-23.55	-5.50	207.04	1.84	109.71	8.46	141.30	21.63	222.82	2.80	114.56	8.97	4.77	22.52
18951	0.83	-22.71	-5.50	193.65	5.56	174.50	11.61	150.32	60.10	206.29	8.26	182.40	9.85	10.71	63.57
18952	0.78	-21.87	-5.50	178.99	8.75	242.67	16.34	162.68	100.97	188.38	11.34	254.35	10.37	21.79	106.23
18953	0.74	-21.03	-5.50	163.73	16.95	313.94	20.35	177.33	135.32	169.95	16.94	330.27	10.01	32.91	141.07
18954	0.70	-20.20	-5.50	146.60	27.27	383.26	24.57	194.04	160.45	149.82	27.51	404.75	9.39	43.60	165.48
18955	21.43	-9.79	-6.90	247.35	204.48	138.09	176.25	130.70	161.19	909.64	686.40	938.36	645.30	764.62	1064.02
18956	20.51	-9.75	-6.90	223.08	108.50	220.57	117.71	125.49	165.31	867.14	280.90	648.60	433.07	478.88	624.05
18957	19.60	-9.70	-6.90	197.88	84.47	290.72	89.21	121.37	179.34	818.46	169.36	420.07	334.18	345.59	425.92
18958	18.68	-9.66	-6.90	176.69	72.61	351.91	70.27	128.93	195.01	767.53	118.55	298.88	270.19	278.01	327.36
18959	17.76	-9.62	-6.90	158.90	64.63	404.14	55.71	148.65	209.99	711.02	86.62	295.41	221.37	236.67	278.55
18960	20.65	-11.34	-6.90	31.26	110.17	170.25	62.82	79.19	152.32	104.34	317.42	559.84	208.81	437.20	768.59
18961	19.75	-11.21	-6.90	87.47	100.75	225.90	85.39	92.29	170.46	367.84	269.06	417.71	322.48	391.77	546.81
18962	18.85	-11.08	-6.90	107.84	83.61	287.32	76.78	106.42	185.48	470.96	185.49	303.75	301.81	329.85	404.22
18963	17.95	-10.95	-6.90	113.07	72.53	345.63	63.51	126.49	199.76	502.88	131.03	270.15	257.65	278.61	320.08
18964	17.06	-10.82	-6.90	112.60	65.31	398.18	50.57	151.73	213.27	501.96	94.69	295.94	213.39	237.88	275.16
18965	19.76	-12.83	-6.90	39.55	79.23	161.51	50.44	93.55	151.79	118.79	178.77	380.30	130.77	409.22	585.32
18966	18.89	-12.62	-6.90	50.47	78.92	218.05	54.71	99.48	167.60	186.44	178.19	285.86	180.75	354.47	449.23
18967	18.01	-12.41	-6.90	66.27	74.60	278.67	54.86	113.02	183.28	266.08	152.95	248.07	199.80	303.65	354.10
18968	17.14	-12.19	-6.90	76.90	69.14	338.33	49.25	133.61	198.30	315.18	120.88	259.75	189.60	259.85	294.13
18969	16.27	-11.98	-6.90	83.34	64.76	393.12	41.11	158.31	212.22	340.52	92.81	295.40	168.40	223.02	261.25
18970	18.76	-14.25	-6.90	40.60	67.61	155.92	48.83	103.99	145.62	75.35	108.24	275.29	86.44	347.17	442.95
18971	17.92	-13.96	-6.90	48.94	68.08	212.19	47.54	109.65	161.12	127.28	114.54	233.56	112.99	306.13	360.33
18972	17.08	-13.67	-6.90	56.71	67.25	274.47	44.81	122.80	177.36	170.11	108.66	232.85	126.06	265.78	301.00
18973	16.24	-13.37	-6.90	63.89	65.46	335.78	40.33	142.41	193.58	206.73	95.65	260.69	128.06	229.92	263.77
18974	15.40	-13.08	-6.90	69.97	63.69	392.19	34.02	165.57	208.72	234.08	79.14	298.90	121.86	198.91	244.46
18975	17.66	-15.59	-6.90	49.24	62.43	155.46	51.53	113.78	137.55	57.89	65.53	232.57	56.72	297.95	335.45
18976	16.86	-15.22	-6.90	53.76	63.08	212.98	47.48	119.43	153.53	87.75	74.24	219.27	71.30	261.18	288.40
18977	16.06	-14.85	-6.90	58.42	63.46	275.88	42.65	132.28	170.62	117.86	76.27	235.73	81.09	227.83	255.81
18978	15.26	-14.48	-6.90	62.57	63.28	337.82	37.06	150.90	187.99	144.66	72.67	269.54	86.17	198.76	237.27
18979	14.46	-14.11	-6.90	66.52	63.14	394.73	30.50	172.59	204.25	168.33	64.93	308.71	87.18	173.92	229.92
18980	16.47	-16.85	-6.90	60.70	58.71	159.01	55.83	123.53	129.39	49.93	45.95	217.80	43.59	255.97	256.90
18981	15.71	-16.41	-6.90	62.92	59.58	217.38	50.01	129.11	145.98	69.01	53.36	220.94	49.49	223.34	234.60
18982	14.95	-15.97	-6.90	64.99	60.76	280.46	43.56	141.51	163.91	89.34	57.67	246.44	55.37	195.01	221.30
18983	14.20	-15.53	-6.90	66.68	61.66	342.40	36.71	159.15	182.31	109.58	58.15	283.76	60.31	171.17	216.57
18984	13.44	-15.08	-6.90	68.38	62.75	399.14	29.27	179.58	199.57	129.24	55.26	323.96	63.77	151.44	217.86
18985															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19013	6.57	-19.99	-6.90	121.46	43.73	371.88	31.53	199.44	140.98	118.79	40.37	375.05	30.30	78.34	148.28
19014	6.20	-19.23	-6.90	110.61	52.51	426.64	24.57	214.09	164.74	112.49	48.30	427.23	26.16	77.54	170.45
19015	6.01	-22.78	-6.90	164.53	14.77	194.28	42.78	170.76	52.68	161.34	14.32	214.48	42.10	79.30	43.26
19016	5.72	-21.99	-6.90	153.62	21.78	252.93	37.75	179.29	78.67	149.76	21.07	267.12	36.83	72.88	80.65
19017	5.43	-21.20	-6.90	142.07	30.82	314.62	32.23	190.36	107.20	138.52	29.51	325.25	31.06	69.57	113.06
19018	5.14	-20.41	-6.90	129.81	40.09	374.99	26.67	203.38	135.28	127.93	38.12	383.72	25.90	69.20	141.71
19019	4.86	-19.62	-6.90	117.42	49.93	429.52	21.12	217.52	160.18	119.03	47.78	437.52	22.47	71.67	165.31
19020	4.32	-23.17	-6.90	175.04	9.42	197.33	32.24	173.39	40.77	174.53	9.28	213.66	32.24	58.03	33.54
19021	4.11	-22.35	-6.90	163.09	17.09	255.86	28.62	182.48	70.34	161.41	16.81	269.45	28.30	56.41	72.61
19022	3.90	-21.54	-6.90	150.39	26.87	317.36	24.66	193.64	101.22	148.39	26.24	329.85	24.05	57.86	106.41
19023	3.69	-20.72	-6.90	136.92	36.93	377.52	20.77	206.44	130.84	135.84	36.11	390.03	20.38	61.81	136.39
19024	3.49	-19.90	-6.90	123.29	47.59	431.81	16.94	220.20	156.70	124.91	47.24	445.08	18.21	67.68	161.13
19025	2.60	-23.42	-6.90	183.04	5.61	199.73	20.20	175.17	30.15	184.51	5.60	212.40	20.39	36.77	27.05
19026	2.47	-22.59	-6.90	170.38	13.70	258.15	18.20	184.68	64.11	170.32	13.62	270.50	18.13	41.20	66.86
19027	2.35	-21.76	-6.90	156.87	23.93	319.45	16.05	195.93	97.05	156.04	23.76	332.51	15.77	48.29	101.47
19028	2.22	-20.93	-6.90	142.53	34.48	379.39	14.10	208.59	127.86	142.10	34.60	393.90	14.04	56.73	132.35
19029	2.10	-20.10	-6.90	127.99	45.70	433.44	12.28	222.10	154.43	129.70	46.83	449.86	13.53	65.71	157.98
19030	0.87	-23.55	-6.90	188.08	3.62	201.19	7.11	176.21	23.06	190.71	3.65	210.35	7.18	18.39	23.62
19031	0.83	-22.71	-6.90	175.07	11.82	259.53	6.89	185.92	60.80	175.99	11.81	269.96	6.87	30.33	63.39
19032	0.78	-21.87	-6.90	161.14	22.21	320.68	6.80	197.20	94.98	161.05	22.39	333.02	6.84	42.64	98.27
19033	0.74	-21.03	-6.90	146.35	32.95	380.46	7.17	209.80	126.46	146.35	33.80	395.21	7.49	54.55	129.67
19034	0.70	-20.20	-6.90	131.34	44.41	434.33	7.64	223.18	153.42	133.10	46.65	451.76	8.86	65.69	155.94
19035	21.43	-9.79	-8.30	351.96	262.80	156.80	246.80	125.42	180.94	1421.76	976.20	1120.76	978.27	685.97	1040.14
19036	20.51	-9.75	-8.30	316.75	115.85	271.51	162.89	115.07	191.52	1374.44	358.74	696.71	667.99	415.32	625.22
19037	19.60	-9.70	-8.30	269.46	78.53	356.63	118.91	116.62	208.70	1253.72	188.78	423.65	508.93	345.18	453.83
19038	18.68	-9.66	-8.30	229.13	63.16	421.68	90.82	136.95	225.26	1128.54	116.06	322.25	406.97	327.13	368.23
19039	17.76	-9.62	-8.30	196.61	54.24	471.60	71.71	167.32	240.16	1012.44	74.53	332.73	334.12	314.32	320.93
19040	20.65	-11.34	-8.30	27.82	111.92	217.49	64.64	93.63	178.51	122.79	397.04	617.46	260.03	432.95	756.79
19041	19.75	-11.21	-8.30	108.12	103.34	284.03	102.46	104.89	195.28	519.80	344.45	453.66	450.51	406.97	562.37
19042	18.85	-11.08	-8.30	132.74	80.45	353.47	92.62	121.54	211.37	666.60	224.68	337.53	428.29	373.36	438.93
19043	17.95	-10.95	-8.30	135.94	66.49	413.82	76.72	146.11	226.54	708.57	145.68	309.60	370.40	343.27	361.62
19044	17.06	-10.82	-8.30	131.07	57.76	463.14	62.74	175.24	240.49	702.90	95.41	332.55	313.08	314.97	315.13
19045	19.76	-12.83	-8.30	37.65	70.29	222.84	44.86	111.08	177.79	150.41	216.49	447.30	159.87	417.98	592.57
19046	18.89	-12.62	-8.30	51.44	73.35	284.20	54.49	118.84	193.52	248.75	220.38	345.72	241.04	385.05	478.88
19047	18.01	-12.41	-8.30	71.61	69.59	348.34	58.35	133.70	209.46	370.00	185.00	302.16	278.38	352.28	393.48
19048	17.14	-12.19	-8.30	83.89	63.64	407.29	54.64	155.83	224.71	446.60	138.61	306.71	272.69	320.68	334.48
19049	16.27	-11.98	-8.30	89.64	58.33	457.12	48.75	182.07	238.88	485.15	99.53	334.39	250.07	290.86	298.16
19050	18.76	-14.25	-8.30	34.12	57.01	225.60	40.64	123.66	171.44	102.90	139.67	356.52	116.88	368.28	467.51
19051	17.92	-13.96	-8.30	45.08	60.30	282.96	41.41	130.42	187.37	183.97	145.17	305.87	160.19	340.88	395.49
19052	17.08	-13.67	-8.30	54.15	61.19	346.11	41.38	144.04	203.89	251.20	133.51	293.83	184.97	311.86	339.02
19053	16.24	-13.37	-8.30	62.37	60.26	404.90	40.19	164.18	220.09	308.78	112.41	311.66	193.76	283.47	299.95
19054	15.40	-13.08	-8.30	68.52	58.05	455.25	38.01	188.15	235.35	349.78	88.36	341.30	190.04	256.59	277.27
19055	17.66	-15.59	-8.30	40.39	52.09	228.76	41.81	134.99	162.13	89.92	95.03	319.18	87.59	325.60	364.55
19056	16.86	-15.22	-8.30	45.79	55.80	285.53	38.47	140.96	178.64	140.50	101.87	294.03	113.84	296.84	321.30
19057	16.06	-14.85	-8.30	50.98	58.31	347.99	35.67	153.61	196.14	189.84	99.06	298.82	131.86	270.11	288.57
19058	15.26	-14.48	-8.30	55.63	59.32	406.62	33.53	172.18	213.63	232.45	89.28	323.06	142.24	245.42	267.83
19059	14.46	-14.11	-8.30	59.81	58.76	457.02	31.97	194.30	230.20	267.39	75.71	353.90	146.19	222.93	258.36
19060	16.47	-16.85	-8.30	49.78	49.76	234.53	45.69	145.92	151.85	80.66	69.15	305.57	70.63	284.88	283.06
19061	15.71	-16.41	-8.30	52.19	54.07	290.94	40.06	151.53	168.79	117.77	76.44	295.97	86.23	257.66	261.76
19062	14.95	-15.97	-8.30	54.15	57.63	352.89	35.12	163.40	187.17	153.56	77.77	310.53	99.12	233.57	247.53
19063	14.20	-15.53	-8.30	56.05	59.74	411.11	31.47	180.62	205.88	186.78	73.88	339.04	108.87	212.42	241.24
19064	13.44	-15.08	-8.30	58.03	60.05	461.10	29.22	201.16	223.84	216.07	66.33	371.11	115.41	194.03	241.94
19065	15.18	-18.02	-8.30	62.05	47.36	242.01	50.04	156.63	140.86	79.73	54.75	301.96	61.84	249.59	220.49
19066	14.48	-17.51	-8.30	61.77	52.39	297.95	43.14	162.21	158.00	106.11	62.00	303.45	70.45	224.81	215.60
19067	13.77	-17.00	-8.30	61.12	56.94	359.26	36.73	173.49	177.05	133.00	65.38	325.35	78.91	203.65	215.07
19068	13.07	-16.49	-8.30	60.51	60.02	416.92	31.69	189.50	196.85	158.94	64.65	357.58	86.88	185.78	219.39
19069	12.37	-15.98	-8.30	60.23	61.11	466.30	28.35	208.45	216.12	183.31	60.51	391.17	93.68	170.98	227.72
19070	13.81	-19.09	-8.30	76.24	43.82	250.09	53.51	166.63	128.87	85.12	46.03	302.16	58.30	219.56	172.42
19071	13.17	-18.52	-8.30	73.52	49.65	305.37	45.94	172.52	146.06	103.03	53.27	312.81	61.79	197.80	179.35
19072	12.52	-17.94	-8.30	70.47	55.26	365.98	38.64	183.41	165.71	122.46	57.90	341.05	66.43	179.56	188.70
19073	11.88	-17.37	-8.30	67.50	59.38	423.03	32.60	198.33	186.58	142.29	59.24	376.88	72.15	164.61	200.69
19074	11.23	-16.80	-8.30	64.94	61.30	471.78	28.26	215.77	207.20	161.94	57.59	412.25	78.15	152.83	214.50
19075	12.37	-20.05	-8.30	91.42	38.92	257.92	55.16	175.44	115.78	95.16	39.33	303.63	56.74	193.42	134.69
19076	11.79	-19.42	-8.30	86.45	45.63	312.46	47.39	181.91	133.02	105.95	46.76	322.28	56.81	174.93	150.03
19077	11.20	-18.79	-8.30	81.15	52.37	372.36	39.70	192.61	153.39	118.91	52.47	356.20	58.40	159.59	166.52
19078	10.62	-18.17	-8.30	75.94	57.63	428.84	33.07	206.63	175.47	133.22	55.46	395.51	62.01	147.33	184.15
19079	10.04	-17.54	-8.30	71.15	60.54	476.98	28.02	222.70	197.58	148.48	55.70	432.79	66.98	138.12	202.23
19080	10.86	-20.91	-8.30	106.63	32.96	264.99	54.47	182.84	101.80	107.77	32.93	305.18	54.88	169.53	104.35
19081	10.35	-20.23	-8.30	99.63	40.60	318.80	46.91	190.08	119.23	112.76	40.80	330.90	52.89	154.49	125.76
19082	9.83	-19.55	-8.30	92.27	48.52	378.07	39.28	200.74	140.54	120.09	47.65	369.94			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19111	0.83	-22.71	-8.30	154.36	15.22	341.84	6.56	213.80	51.99	157.75	15.44	353.51	8.06	57.11	53.44
19112	0.78	-21.87	-8.30	139.67	27.52	398.21	6.34	225.33	85.92	147.79	28.34	410.20	11.51	70.42	87.73
19113	0.74	-21.03	-8.30	124.69	38.61	451.56	5.70	237.01	119.86	140.45	40.58	464.41	16.08	82.70	121.46
19114	0.70	-20.20	-8.30	109.93	46.86	496.81	4.93	248.55	152.13	136.89	50.58	510.91	20.94	93.64	153.27
19115	-11.69	-9.49	-2.70	70.52	51.95	398.45	40.94	216.35	249.27	105.69	50.10	298.45	41.13	80.31	247.04
19116	-12.72	-9.44	-2.70	76.32	58.28	406.64	47.29	201.22	247.28	120.08	55.50	294.11	46.67	84.05	244.74
19117	-13.76	-9.39	-2.70	83.76	65.92	413.29	54.94	186.23	244.63	137.88	62.44	295.67	53.56	90.39	241.94
19118	-11.91	-10.47	-2.70	80.52	59.55	407.66	43.42	209.61	239.04	118.93	55.35	309.07	42.11	86.79	236.11
19119	-12.81	-10.33	-2.70	85.77	65.59	413.24	49.38	197.64	238.48	131.79	60.89	305.14	47.43	91.10	235.39
19120	-13.70	-10.18	-2.70	92.26	73.01	417.92	56.21	185.80	237.45	147.21	67.83	306.24	53.74	96.64	234.37
19121	-12.11	-11.46	-2.70	92.15	69.75	417.30	47.15	203.59	228.43	134.40	63.30	321.30	43.34	94.83	224.81
19122	-12.88	-11.21	-2.70	96.83	74.90	420.48	52.25	194.66	229.44	145.52	68.26	317.50	48.31	98.64	225.86
19123	-13.63	-10.96	-2.70	102.59	81.82	423.38	58.45	185.79	230.16	158.74	74.92	317.76	54.35	103.15	226.79
19124	-0.57	-9.89	-2.70	40.56	17.43	301.25	10.90	305.42	241.25	57.15	23.05	355.56	25.72	72.32	242.89
19125	-1.70	-9.88	-2.70	42.09	18.91	303.88	10.70	303.81	243.57	54.24	24.85	355.11	23.51	75.96	244.98
19126	-2.84	-9.86	-2.70	43.94	21.05	309.46	11.49	300.50	245.67	53.55	26.83	353.25	22.26	78.65	246.79
19127	-3.96	-9.83	-2.70	46.07	23.68	317.61	13.23	295.49	247.49	54.75	28.96	350.03	21.98	80.36	248.28
19128	-5.08	-9.80	-2.70	48.49	26.69	327.82	15.73	288.79	249.01	57.53	31.22	345.47	22.65	81.13	249.42
19129	-6.20	-9.76	-2.70	51.20	30.02	339.52	18.79	280.38	250.18	61.76	33.61	339.60	24.16	81.08	250.17
19130	-7.31	-9.71	-2.70	54.22	33.64	352.06	22.31	270.32	250.96	67.39	36.19	332.47	26.37	80.39	250.51
19131	-8.42	-9.66	-2.70	57.59	37.59	364.80	26.24	258.68	251.31	74.48	39.01	324.23	29.19	79.41	250.39
19132	-9.52	-9.60	-2.70	61.38	41.93	377.15	30.61	245.58	251.18	83.13	42.19	315.22	32.58	78.62	249.79
19133	-10.62	-9.54	-2.70	65.69	46.76	388.55	35.53	231.27	250.55	93.53	45.91	306.11	36.59	78.67	248.70
19134	-0.60	-11.68	-2.70	48.82	21.61	335.27	16.26	292.90	222.34	65.71	24.04	387.02	26.90	70.27	223.77
19135	-1.80	-11.64	-2.70	50.98	23.17	336.96	15.72	291.51	224.85	64.38	25.72	385.06	24.51	73.25	226.07
19136	-2.99	-11.58	-2.70	53.35	25.57	341.08	15.91	288.34	227.29	64.92	27.81	381.28	23.06	75.63	228.18
19137	-4.16	-11.50	-2.70	55.91	28.58	347.29	16.94	283.43	229.62	67.00	30.23	375.78	22.58	77.40	230.08
19138	-5.32	-11.40	-2.70	58.66	32.02	355.13	18.79	276.84	231.81	70.43	32.90	368.66	23.06	78.62	231.77
19139	-6.47	-11.28	-2.70	61.59	35.82	364.11	21.38	268.64	233.80	75.12	35.80	360.05	24.43	79.40	233.22
19140	-7.60	-11.15	-2.70	64.73	39.90	373.66	24.64	258.92	235.56	81.06	38.96	350.13	26.61	79.96	234.41
19141	-8.72	-10.99	-2.70	68.12	44.29	383.27	28.50	247.84	237.03	88.33	42.42	339.22	29.51	80.60	235.32
19142	-9.83	-10.82	-2.70	71.83	49.03	392.43	32.96	235.57	238.18	97.04	46.29	327.88	33.12	81.70	235.95
19143	-10.92	-10.63	-2.70	76.00	54.25	400.74	38.08	222.40	238.96	107.41	50.73	317.04	37.47	83.67	236.30
19144	-0.63	-13.48	-2.70	59.89	28.19	370.71	24.31	278.71	199.52	77.68	28.38	420.75	26.63	65.77	200.38
19145	-1.88	-13.42	-2.70	62.50	29.79	371.50	23.56	277.63	202.25	77.69	29.63	417.10	24.30	68.56	202.93
19146	-3.11	-13.32	-2.70	65.21	32.40	374.01	23.31	274.77	205.24	79.20	31.58	411.15	22.86	71.35	205.54
19147	-4.33	-13.19	-2.70	68.02	35.76	378.01	23.71	270.20	208.41	81.98	34.10	403.10	22.36	74.06	208.18
19148	-5.53	-13.03	-2.70	70.92	39.67	383.18	24.85	264.03	211.69	85.90	37.10	393.14	22.83	76.66	210.83
19149	-6.70	-12.83	-2.70	73.93	43.98	389.13	26.77	256.37	214.99	90.95	40.52	381.55	24.24	79.17	213.45
19150	-7.86	-12.61	-2.70	77.09	48.62	395.46	29.47	247.36	218.23	97.14	44.31	368.69	26.56	81.72	216.03
19151	-8.99	-12.35	-2.70	80.44	53.55	401.78	32.95	237.18	221.31	104.56	48.51	355.10	29.71	84.45	218.53
19152	-10.11	-12.06	-2.70	84.07	58.82	407.75	37.19	226.05	224.15	113.36	53.16	341.60	33.70	87.52	220.91
19153	-11.19	-11.74	-2.70	88.11	64.52	413.09	42.20	214.21	226.70	123.76	58.41	329.37	38.54	91.09	223.15
19154	-0.65	-15.28	-2.70	73.65	39.63	405.37	36.66	262.93	174.51	93.31	39.50	454.31	25.49	58.32	174.63
19155	-1.95	-15.20	-2.70	76.63	41.30	405.38	35.76	262.28	177.46	94.41	40.12	448.90	23.39	61.89	177.36
19156	-3.22	-15.07	-2.70	79.62	44.07	406.37	35.18	259.95	181.13	96.74	41.64	440.74	22.09	66.28	180.54
19157	-4.47	-14.90	-2.70	82.64	47.73	408.23	35.03	256.04	185.38	100.15	44.00	430.13	21.70	71.13	184.13
19158	-5.71	-14.67	-2.70	85.69	52.06	410.77	35.44	250.66	190.06	104.58	47.09	417.43	22.30	76.17	188.06
19159	-6.91	-14.40	-2.70	88.83	56.90	413.80	36.49	243.93	195.02	110.05	50.82	403.06	23.91	81.23	192.27
19160	-8.09	-14.08	-2.70	92.10	62.13	417.08	38.27	236.02	200.08	116.63	55.11	387.61	26.50	86.22	196.67
19161	-9.24	-13.72	-2.70	95.60	67.70	420.41	40.86	227.10	205.09	124.44	59.93	371.86	30.04	91.09	201.18
19162	-10.36	-13.31	-2.70	99.44	73.58	423.58	44.31	217.38	209.90	133.66	65.27	356.86	34.52	95.84	205.70
19163	-11.45	-12.86	-2.70	103.75	79.92	426.43	48.70	207.06	214.35	144.53	71.26	344.05	39.94	100.47	210.13
19164	-0.67	-17.07	-2.70	89.28	60.83	447.70	56.94	247.65	149.23	111.90	62.91	496.39	24.92	47.99	149.45
19165	-1.99	-16.99	-2.70	92.82	62.67	447.13	55.87	247.51	152.35	114.13	62.90	488.97	23.20	54.30	152.04
19166	-3.30	-16.84	-2.70	96.41	65.68	446.84	54.86	245.87	156.74	117.53	63.90	478.47	22.11	62.09	155.65
19167	-4.59	-16.62	-2.70	100.07	69.68	446.80	53.99	242.80	162.22	122.01	65.88	465.26	21.80	70.45	160.22
19168	-5.85	-16.34	-2.70	103.82	74.48	446.95	53.35	238.39	168.53	127.54	68.77	449.81	22.42	78.76	165.61
19169	-7.09	-15.99	-2.70	107.74	79.91	447.21	53.03	232.73	175.37	134.17	72.50	432.74	24.05	86.63	171.68
19170	-8.29	-15.58	-2.70	111.88	85.81	447.46	53.18	225.95	182.46	141.98	76.97	414.81	26.76	93.79	178.23
19171	-9.46	-15.11	-2.70	116.33	92.06	447.56	53.97	218.20	189.53	151.09	82.10	396.99	30.55	100.08	185.07
19172	-10.60	-14.58	-2.70	121.20	98.58	447.34	55.63	209.68	196.33	161.65	87.80	380.52	35.49	105.44	191.97
19173	-11.69	-14.00	-2.70	126.52	105.30	446.63	58.46	200.62	202.64	173.81	94.03	366.98	41.65	109.94	198.69
19174	-0.68	-18.88	-2.70	111.44	111.22	470.17	106.33	211.67	158.33	139.35	120.10	515.09	31.50	33.99	163.96
19175	-2.02	-18.79	-2.70	116.76	113.77	469.05	104.83	212.00	160.45	143.73	119.57	505.60	31.17	42.90	164.75
19176	-3.36	-18.61	-2.70	122.69	117.61	467.12	102.60	211.28	163.74	149.78	120.07	492.61	30.93	52.39	166.81
19177	-4.68	-18.35	-2.70	129.10	122.46	464.46	99.67	209.59	167.96	157.29	121.50	476.69	30.79	61.74	169.92
19178	-5.97	-18.01	-2.70	135.85	128.07	461.12	96.13	206.97	172.89	166.13	123.79	458.48	30.89	70.57	173.94
19179	-7.23	-17.59	-2.70	142.80	134.13	457.11	92.17	203.54	178.31	176.16	126.82	438.79	31.49	78.69	178.66
19180	-8.47	-17.09	-2.70	149.80	140.35	452.46	88.03	199.42	183.93	187.25	130.41	418.59	32.98	86.04	183.81
19181	-9.66	-16.51	-2.70	156.67	146.42	447.16	84.14	194.77							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19209	-12.88	-11.21	-4.10	90.71	59.33	452.63	39.38	200.58	229.27	107.81	40.22	338.06	39.83	85.02	226.70
19210	-13.63	-10.96	-4.10	94.40	63.85	451.26	43.78	190.41	226.97	114.68	40.81	332.07	43.64	83.63	224.73
19211	-0.57	-9.89	-4.10	35.02	8.57	327.07	4.80	323.08	257.00	38.09	32.11	374.75	14.49	86.18	259.15
19212	-1.70	-9.88	-4.10	37.20	10.80	330.06	5.27	321.37	258.91	41.11	33.59	375.32	14.48	91.51	260.73
19213	-2.84	-9.86	-4.10	39.56	13.55	336.40	7.44	318.07	260.56	43.22	34.91	374.68	15.47	95.76	262.03
19214	-3.96	-9.83	-4.10	42.06	16.57	345.67	10.41	313.12	261.91	44.57	36.07	372.83	17.31	98.82	263.02
19215	-5.08	-9.80	-4.10	44.68	19.78	357.32	13.75	306.50	262.90	45.48	37.08	369.75	19.75	100.60	263.63
19216	-6.20	-9.76	-4.10	47.45	23.13	370.69	17.26	298.13	263.47	46.47	37.96	365.38	22.57	101.06	263.81
19217	-7.31	-9.71	-4.10	50.43	26.64	385.06	20.89	287.99	263.54	48.22	38.72	359.67	25.63	100.20	263.47
19218	-8.42	-9.66	-4.10	53.69	30.35	399.65	24.62	276.07	263.03	51.43	39.37	352.61	28.82	98.12	262.54
19219	-9.52	-9.60	-4.10	57.36	34.32	413.71	28.46	262.43	261.81	56.66	39.95	344.33	32.11	95.02	260.89
19220	-10.62	-9.54	-4.10	61.52	38.62	426.46	32.49	247.19	259.75	64.14	40.50	335.17	35.51	91.24	258.41
19221	-0.60	-11.68	-4.10	43.34	10.31	364.85	8.70	308.68	238.10	42.45	28.18	410.11	15.64	84.17	240.13
19222	-1.80	-11.64	-4.10	45.87	12.65	366.89	8.32	307.15	240.15	45.39	30.07	409.16	15.55	88.47	241.88
19223	-2.99	-11.58	-4.10	48.57	15.85	371.68	9.09	303.90	242.06	47.91	31.82	406.53	16.30	91.92	243.41
19224	-4.16	-11.50	-4.10	51.42	19.47	378.86	10.93	298.96	243.77	50.16	33.42	402.26	17.81	94.39	244.69
19225	-5.32	-11.40	-4.10	54.37	23.29	387.92	13.52	292.31	245.25	52.45	34.87	396.39	19.90	95.82	245.67
19226	-6.47	-11.28	-4.10	57.45	27.23	398.24	16.59	283.97	246.41	55.18	36.15	388.93	22.40	96.18	246.33
19227	-7.60	-11.15	-4.10	60.68	31.26	409.18	20.00	273.96	247.20	58.80	37.27	379.96	25.19	95.52	246.58
19228	-8.72	-10.99	-4.10	64.11	35.40	420.05	23.69	262.36	247.50	63.67	38.24	369.61	28.19	93.96	246.38
19229	-9.83	-10.82	-4.10	67.81	39.71	430.18	27.64	249.32	247.23	70.03	39.11	358.21	31.37	91.71	245.63
19230	-10.92	-10.63	-4.10	71.84	44.27	438.90	31.90	235.03	246.21	77.90	39.91	346.35	34.78	89.04	244.21
19231	-0.63	-13.48	-4.10	55.46	12.69	404.12	15.05	291.73	214.22	53.37	24.26	447.50	16.04	79.53	215.71
19232	-1.88	-13.42	-4.10	58.17	14.99	405.16	14.20	290.43	216.48	56.18	26.27	444.85	15.95	83.02	217.74
19233	-3.11	-13.32	-4.10	61.04	18.57	408.14	13.88	287.38	218.86	59.06	28.23	439.93	16.54	86.05	219.74
19234	-4.33	-13.19	-4.10	64.02	22.78	412.78	14.29	282.62	221.30	62.08	30.11	432.85	17.76	88.47	221.67
19235	-5.53	-13.03	-4.10	67.08	27.27	418.69	15.52	276.20	223.71	65.44	31.88	423.76	19.50	90.16	223.48
19236	-6.70	-12.83	-4.10	70.23	31.90	425.40	17.54	268.17	225.99	69.37	33.53	412.81	21.65	91.08	225.13
19237	-7.86	-12.61	-4.10	73.47	36.59	432.39	20.24	258.63	228.01	74.10	35.03	400.23	24.13	91.23	226.56
19238	-8.99	-12.35	-4.10	76.82	41.31	439.10	23.50	247.71	229.66	79.76	36.40	386.38	26.89	90.70	227.66
19239	-10.11	-12.06	-4.10	80.30	46.08	444.98	27.26	235.61	230.77	86.40	37.64	371.81	29.95	89.58	228.36
19240	-11.19	-11.74	-4.10	83.91	50.99	449.48	31.54	222.56	231.16	93.88	38.80	357.36	33.42	87.96	228.51
19241	-0.65	-15.28	-4.10	71.55	15.36	442.32	24.81	271.88	185.73	71.20	20.81	484.28	16.20	71.60	186.36
19242	-1.95	-15.20	-4.10	74.39	17.71	442.46	23.71	270.89	188.24	74.01	22.42	479.84	16.13	74.82	188.69
19243	-3.22	-15.07	-4.10	77.32	21.77	443.60	22.73	268.18	191.32	77.16	24.17	472.51	16.52	78.14	191.30
19244	-4.47	-14.90	-4.10	80.32	26.71	445.57	22.02	263.83	194.86	80.70	26.01	462.51	17.35	81.28	194.30
19245	-5.71	-14.67	-4.10	83.35	32.05	448.13	21.75	257.91	198.69	84.70	27.89	450.10	18.60	84.00	197.45
19246	-6.91	-14.40	-4.10	86.41	37.55	450.97	22.12	250.52	202.62	89.24	29.77	435.60	20.22	86.12	200.72
19247	-8.09	-14.08	-4.10	89.49	43.10	453.72	23.24	241.79	206.44	94.39	31.64	419.42	22.20	87.53	203.97
19248	-9.24	-13.72	-4.10	92.59	48.61	455.95	25.20	231.91	209.93	100.14	33.47	402.12	24.59	88.16	207.07
19249	-10.36	-13.31	-4.10	95.69	54.03	457.20	28.02	221.11	212.85	106.38	35.22	384.47	27.47	87.98	209.84
19250	-11.45	-12.86	-4.10	98.75	59.39	456.97	31.72	209.68	214.97	112.89	36.82	367.47	30.99	87.05	212.06
19251	-0.67	-17.07	-4.10	92.91	16.84	475.83	40.42	245.64	160.84	96.93	18.21	516.41	17.32	59.74	160.81
19252	-1.99	-16.99	-4.10	95.95	19.77	475.16	39.14	245.02	163.34	99.93	18.49	509.99	17.37	63.39	163.05
19253	-3.30	-16.84	-4.10	99.05	25.04	474.33	37.55	242.86	166.93	103.44	19.07	500.01	17.44	67.62	166.19
19254	-4.59	-16.62	-4.10	102.13	31.40	473.28	35.73	239.25	171.41	107.40	19.99	486.79	17.53	71.91	170.12
19255	-5.85	-16.34	-4.10	105.15	38.19	471.91	33.84	234.29	176.52	111.77	21.34	470.72	17.69	75.82	174.68
19256	-7.09	-15.99	-4.10	108.07	45.07	470.04	32.09	228.09	181.92	116.47	23.12	452.30	18.06	79.02	179.66
19257	-8.29	-15.58	-4.10	110.83	51.82	467.47	30.77	220.81	187.29	121.40	25.33	432.17	18.88	81.28	184.80
19258	-9.46	-15.11	-4.10	113.36	58.28	463.92	30.26	212.69	192.31	126.37	27.86	411.07	20.48	82.52	189.83
19259	-10.60	-14.58	-4.10	115.57	64.30	459.06	30.98	204.02	196.67	131.14	30.57	389.94	23.20	82.80	194.45
19260	-11.69	-14.00	-4.10	117.31	69.72	452.52	33.28	195.18	200.12	135.34	33.22	369.86	27.29	82.44	198.38
19261	-0.68	-18.88	-4.10	126.79	16.77	445.35	58.22	201.88	170.63	138.33	15.89	479.42	20.00	44.09	173.68
19262	-2.02	-18.79	-4.10	129.74	20.63	444.30	56.86	201.72	171.91	141.12	14.02	472.36	19.77	47.96	173.95
19263	-3.36	-18.61	-4.10	132.38	27.45	442.28	54.83	200.75	173.86	144.14	12.12	461.80	19.19	52.01	174.99
19264	-4.68	-18.35	-4.10	134.65	35.37	439.35	52.27	199.00	176.32	147.22	10.82	448.18	18.24	55.90	176.72
19265	-5.97	-18.01	-4.10	136.45	43.51	435.57	49.32	196.56	179.12	150.19	10.95	432.00	17.10	59.41	179.02
19266	-7.23	-17.59	-4.10	137.72	51.43	430.96	46.26	193.51	182.10	152.85	12.89	413.84	16.17	62.45	181.72
19267	-8.47	-17.09	-4.10	138.35	58.88	425.53	43.41	189.96	185.01	154.98	16.17	394.41	16.18	65.08	184.61
19268	-9.66	-16.51	-4.10	138.26	65.64	419.26	41.24	186.05	187.64	156.36	20.09	374.52	17.89	67.49	187.44
19269	-10.81	-15.87	-4.10	137.34	71.53	412.11	40.25	181.96	189.77	156.76	24.11	355.07	21.62	70.02	189.96
19270	-11.91	-15.15	-4.10	135.46	76.33	404.00	40.91	177.93	191.27	155.91	27.76	337.01	24.04	73.17	191.99
19271	-16.80	-9.56	-4.10	99.83	81.48	375.49	67.09	159.95	197.38	123.09	35.07	305.70	66.74	106.31	199.75
19272	-16.19	-10.65	-4.10	108.41	83.00	375.75	62.06	163.09	194.74	130.84	35.36	302.34	60.88	101.99	197.36
19273	-15.52	-11.69	-4.10	116.10	83.87	375.96	57.10	165.46	192.64	137.96	35.00	300.55	54.66	96.82	195.41
19274	-15.79	-9.48	-4.10	95.47	72.69	430.29	60.03	166.66	220.08	120.87	40.52	322.10	59.78	83.15	219.53
19275	-15.37	-10.42	-4.10	103.60	75.80	428.18	56.03	169.55	213.48	127.60	40.05	324.18	55.42	84.75	213.18
19276	-14.91	-11.34	-4.10	111.37	78.36	425.09	51.85	171.95	207.39	134.37	39.13	325.88	50.59	85.25	207.40
19277	-14.78	-9.40	-4.10	85.87	62.68	446.99	52.58	179.57	235.73	109.94	41.71	316.72	52.55	79.39	233.99
19278	-14.55	-10.21	-4.10	93.53	66.39	446.68	50.25	179.95	227.81	116.78	41.33	323.91	49.96	81.53	226.09
19279	-14.30	-11.00	-4.10	100.91	70.04	445.34	47.40	180.34	219.88	123.34					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19307	-10.62	-9.54	-5.50	58.18	33.83	464.03	34.17	269.27	274.36	68.69	40.94	364.49	35.84	115.61	273.79
19308	-0.60	-11.68	-5.50	39.57	10.71	393.31	0.99	324.04	257.74	95.34	43.29	432.12	2.39	102.97	260.01
19309	-1.80	-11.64	-5.50	42.44	12.55	395.68	3.07	322.59	259.40	94.48	44.37	432.00	5.29	108.62	261.33
19310	-2.99	-11.58	-5.50	45.52	15.22	401.17	6.46	319.67	260.90	92.74	45.09	430.41	9.03	113.38	262.45
19311	-4.16	-11.50	-5.50	48.65	18.34	409.35	10.03	315.25	262.20	90.10	45.43	427.34	12.95	117.04	263.36
19312	-5.32	-11.40	-5.50	51.72	21.69	419.67	13.68	309.26	263.23	86.69	45.40	422.77	16.88	119.40	263.99
19313	-6.47	-11.28	-5.50	54.69	25.16	431.45	17.36	301.65	263.91	82.76	44.97	416.63	20.70	120.29	264.28
19314	-7.60	-11.15	-5.50	57.58	28.69	443.92	21.03	292.39	264.16	78.74	44.10	408.85	24.35	119.59	264.15
19315	-8.72	-10.99	-5.50	60.50	32.26	456.19	24.67	281.48	263.86	75.16	42.76	399.40	27.77	117.24	263.50
19316	-9.83	-10.82	-5.50	63.56	35.91	467.36	28.26	269.05	262.90	72.67	40.92	388.33	30.95	113.25	262.24
19317	-10.92	-10.63	-5.50	66.90	39.68	476.42	31.82	255.33	261.10	71.77	38.57	375.86	33.90	107.70	260.24
19318	-0.63	-13.48	-5.50	50.64	17.20	436.99	5.14	305.55	235.87	84.16	40.43	473.86	3.01	98.09	237.60
19319	-1.88	-13.42	-5.50	53.41	18.39	438.27	4.43	304.28	237.70	84.27	41.66	472.05	5.34	102.61	239.20
19320	-3.11	-13.32	-5.50	56.42	20.78	441.70	5.42	301.48	239.59	83.73	42.48	468.03	8.60	106.46	240.77
19321	-4.33	-13.19	-5.50	59.51	23.94	446.96	7.75	297.15	241.49	82.61	42.89	461.88	12.11	109.40	242.27
19322	-5.53	-13.03	-5.50	62.60	27.51	453.60	10.75	291.28	243.29	81.11	42.87	453.64	15.63	111.22	243.64
19323	-6.70	-12.83	-5.50	65.63	31.29	461.05	14.08	283.88	244.90	79.52	42.37	443.37	19.05	111.75	244.82
19324	-7.86	-12.61	-5.50	68.59	35.12	468.64	17.61	274.98	246.18	78.21	41.38	431.15	22.31	110.86	245.71
19325	-8.99	-12.35	-5.50	71.51	38.90	475.62	21.28	264.68	247.00	77.53	39.86	417.14	25.41	108.50	246.21
19326	-10.11	-12.06	-5.50	74.43	42.61	481.16	25.07	253.18	247.20	77.75	37.79	401.61	28.37	104.68	246.21
19327	-11.19	-11.74	-5.50	77.31	46.24	484.38	29.02	240.78	246.63	78.84	35.21	385.03	31.33	99.47	245.59
19328	-0.65	-15.28	-5.50	67.40	27.69	477.40	11.84	283.59	210.10	80.85	42.00	512.50	4.04	90.00	210.88
19329	-1.95	-15.20	-5.50	69.98	28.23	477.60	10.55	282.54	212.11	82.11	42.62	508.90	5.66	93.68	212.80
19330	-3.22	-15.07	-5.50	72.72	30.01	478.73	9.44	279.97	214.61	83.03	42.78	502.24	8.19	96.97	215.05
19331	-4.47	-14.90	-5.50	75.51	32.71	480.58	9.00	275.93	217.47	83.71	42.48	492.66	11.02	99.58	217.57
19332	-5.71	-14.67	-5.50	78.26	36.01	482.85	9.69	270.47	220.55	84.30	41.71	480.35	13.90	101.26	220.26
19333	-6.91	-14.40	-5.50	80.89	39.61	485.12	11.61	263.65	223.63	84.95	40.46	465.53	16.73	101.80	222.99
19334	-8.09	-14.08	-5.50	83.36	43.31	486.93	14.49	255.57	226.52	85.80	38.74	448.47	19.50	101.05	225.61
19335	-9.24	-13.72	-5.50	85.63	46.91	487.69	18.02	246.40	228.98	86.90	36.57	429.58	22.27	98.94	227.94
19336	-10.36	-13.31	-5.50	87.65	50.28	486.77	22.01	236.39	230.79	88.19	34.00	409.38	25.18	95.52	229.79
19337	-11.45	-12.86	-5.50	89.34	53.38	483.52	26.35	225.87	231.73	89.43	31.03	388.57	28.39	91.00	230.95
19338	-0.67	-17.07	-5.50	91.37	40.69	497.13	19.90	255.93	189.57	93.11	48.83	529.61	5.66	78.07	189.56
19339	-1.99	-16.99	-5.50	93.65	40.74	496.43	18.56	255.17	191.45	95.18	48.32	524.46	6.59	81.39	191.32
19340	-3.30	-16.84	-5.50	95.83	41.80	495.31	16.96	253.11	194.16	97.02	47.17	515.46	8.10	84.50	193.83
19341	-4.59	-16.62	-5.50	97.83	43.69	493.70	15.38	249.82	197.54	98.62	45.40	502.89	9.93	87.06	196.98
19342	-5.85	-16.34	-5.50	99.55	46.17	491.50	14.29	245.38	201.37	100.00	43.11	487.11	11.95	88.81	200.63
19343	-7.09	-15.99	-5.50	100.91	48.96	488.54	14.23	239.88	205.40	101.10	40.38	468.54	14.16	89.53	204.55
19344	-8.29	-15.58	-5.50	101.83	51.84	484.60	15.60	233.42	209.32	101.88	37.33	447.70	16.65	89.12	208.51
19345	-9.46	-15.11	-5.50	102.24	54.60	479.44	18.31	226.20	212.84	102.22	34.10	425.22	19.56	87.60	212.22
19346	-10.60	-14.58	-5.50	102.05	57.08	472.78	22.05	218.43	215.69	101.97	30.83	401.88	23.01	85.20	215.42
19347	-11.69	-14.00	-5.50	101.16	59.12	464.34	26.50	210.37	217.66	100.93	27.67	378.56	27.03	82.40	217.87
19348	-0.68	-18.88	-5.50	122.98	41.11	457.20	24.26	221.84	179.12	123.15	44.73	483.61	6.27	61.43	180.55
19349	-2.02	-18.79	-5.50	124.55	41.12	456.24	23.23	221.43	180.34	124.84	43.86	478.26	5.87	64.75	181.00
19350	-3.36	-18.61	-5.50	125.33	42.04	454.32	22.40	220.21	182.23	125.72	42.44	469.42	6.94	67.94	182.24
19351	-4.68	-18.35	-5.50	125.31	43.75	451.49	22.03	218.22	184.69	125.78	40.59	457.42	9.21	70.73	184.26
19352	-5.97	-18.01	-5.50	124.49	46.05	447.83	22.34	215.49	187.62	125.00	38.41	442.67	12.18	72.91	186.98
19353	-7.23	-17.59	-5.50	122.86	48.72	443.37	23.45	212.06	190.84	123.37	35.98	425.63	15.59	74.41	190.24
19354	-8.47	-17.09	-5.50	120.44	51.52	438.14	25.32	207.98	194.15	120.89	33.41	406.83	19.27	75.26	193.82
19355	-9.66	-16.51	-5.50	117.28	54.28	432.16	27.81	203.33	197.31	117.60	30.80	386.91	23.13	75.64	197.45
19356	-10.81	-15.87	-5.50	113.47	56.84	425.45	30.72	198.24	200.13	113.56	28.23	366.61	27.10	75.88	200.85
19357	-11.91	-15.15	-5.50	109.05	59.04	418.03	33.93	192.89	202.45	108.86	25.80	346.76	31.10	76.42	203.77
19358	-16.80	-9.56	-5.50	76.11	64.23	395.15	50.08	168.00	216.41	72.79	16.96	285.67	49.78	91.86	219.06
19359	-16.19	-10.65	-5.50	82.08	64.19	394.64	47.97	171.26	212.83	79.65	17.72	288.77	47.43	89.42	215.67
19360	-15.52	-11.69	-5.50	87.71	63.95	394.40	45.87	174.03	209.54	85.92	18.81	293.34	44.97	86.73	212.48
19361	-15.79	-9.48	-5.50	79.78	59.52	444.91	47.91	186.35	233.60	76.75	20.53	309.73	47.86	77.88	234.72
19362	-15.37	-10.42	-5.50	84.90	60.95	440.40	45.05	187.34	227.78	82.55	20.27	313.72	45.07	79.14	229.20
19363	-14.91	-11.34	-5.50	89.64	62.00	435.38	42.28	187.94	222.36	87.82	20.42	317.61	42.28	79.72	224.02
19364	-14.78	-9.40	-5.50	76.80	53.50	472.75	45.68	202.52	247.56	75.25	26.09	324.26	45.47	79.40	247.42
19365	-14.55	-10.21	-5.50	82.19	55.97	468.59	43.10	201.12	240.37	80.80	24.83	329.63	43.04	79.51	240.49
19366	-14.30	-11.00	-5.50	87.14	58.18	462.97	40.27	199.88	233.43	85.86	23.74	333.87	40.39	79.47	233.87
19367	-12.93	-14.37	-5.50	104.22	60.49	410.96	37.33	187.64	204.38	103.68	23.45	329.16	35.09	77.76	206.33
19368	-12.65	-13.39	-5.50	99.59	60.37	455.72	31.00	203.20	218.92	99.09	24.92	358.39	31.22	80.23	219.68
19369	-12.36	-12.43	-5.50	90.42	55.65	478.72	30.42	216.71	231.94	90.19	28.30	370.85	31.59	86.67	231.51
19370	-13.86	-13.54	-5.50	99.00	61.97	404.37	40.38	182.78	205.98	98.08	21.68	314.30	38.66	79.90	208.40
19371	-13.48	-12.78	-5.50	97.02	61.35	447.24	35.03	197.18	219.66	96.17	23.02	341.66	35.09	79.14	220.86
19372	-13.10	-12.03	-5.50	90.55	57.20	472.64	33.87	209.54	231.65	90.04	26.22	356.30	34.49	83.42	231.61
19373	-14.74	-12.66	-5.50	93.59	63.03	397.69	43.31	178.10	207.29	92.28	20.11	301.65	41.99	82.96	210.08
19374	-14.28	-12.13	-5.50	93.75	62.00	437.75	38.89	191.28	219.82	92.43	21.20	326.53	38.86	79.08	221.46
19375	-13.81	-11.61	-5.50	89.91	58.72	464.42	37.41	202.42	230.73	88.99	24.38	342.29	37.67	80.49	231.11
19376	-11.69	-9.49	-6.90	61.40	34.71	510.62	43.55	281.55	289.84	111.05	42.28	383.13	42.09	138.09	289.84
19377	-12.72	-9.44	-6.90	62.46	38.11	517.28	45.40	266.09	284.90	102.39	38.39				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19405	-0.63	-13.48	-6.90	46.78	26.97	466.14	4.08	318.55	261.99	148.32	57.76	496.88	12.59	120.13	263.57
19406	-1.88	-13.42	-6.90	49.84	27.52	467.60	5.85	317.58	263.46	145.65	58.36	495.74	8.20	125.70	264.85
19407	-3.11	-13.32	-6.90	53.35	28.82	471.41	9.06	315.49	264.99	142.41	58.43	492.52	7.05	130.62	266.15
19408	-4.33	-13.19	-6.90	56.93	30.72	477.21	12.80	312.25	266.53	138.49	57.97	487.26	10.05	134.57	267.44
19409	-5.53	-13.03	-6.90	60.27	33.01	484.51	16.75	307.77	267.97	133.87	56.99	479.93	14.57	137.24	268.63
19410	-6.70	-12.83	-6.90	63.15	35.52	492.70	20.76	301.95	269.18	128.59	55.47	470.52	19.24	138.30	269.62
19411	-7.86	-12.61	-6.90	65.50	38.07	501.00	24.72	294.72	270.04	122.83	53.40	459.00	23.67	137.47	270.29
19412	-8.99	-12.35	-6.90	67.34	40.52	508.53	28.55	286.03	270.39	116.87	50.79	445.37	27.73	134.53	270.51
19413	-10.11	-12.06	-6.90	68.79	42.80	514.28	32.19	276.01	270.07	111.01	47.67	429.70	31.39	129.38	270.15
19414	-11.19	-11.74	-6.90	69.96	44.86	517.23	35.60	264.87	268.98	105.50	44.17	412.21	34.71	122.10	269.13
19415	-12.22	-11.40	-6.90	70.87	46.65	519.34	38.87	254.70	268.06	99.87	40.83	395.76	37.77	114.90	267.55
19416	-13.20	-11.03	-6.90	71.55	48.18	520.59	42.02	245.53	267.24	94.66	37.24	379.43	40.54	107.80	266.27
19417	-14.14	-10.63	-6.90	72.01	49.47	521.07	45.07	237.33	266.00	89.99	33.36	363.63	43.04	100.80	265.22
19418	-15.04	-10.20	-6.90	72.28	50.56	520.99	47.92	229.60	265.00	85.77	29.14	348.49	45.24	94.00	264.30
19419	-15.90	-9.75	-6.90	72.38	51.46	520.29	50.57	222.23	264.13	81.99	24.57	333.93	47.14	87.40	263.49
19420	-16.72	-9.28	-6.90	72.33	52.18	518.87	53.00	215.33	263.33	78.63	19.97	319.93	48.74	80.90	262.76
19421	-17.50	-8.79	-6.90	72.14	52.76	516.63	55.22	208.87	262.63	75.71	15.40	307.43	50.04	74.60	262.10
19422	-18.24	-8.28	-6.90	71.82	53.22	513.87	57.14	202.77	262.00	73.13	10.87	295.43	50.94	68.70	261.50
19423	-18.94	-7.75	-6.90	71.38	53.56	510.63	58.67	197.40	261.43	70.87	6.40	283.93	51.44	63.20	260.94
19424	-19.59	-7.20	-6.90	70.83	53.78	507.00	59.84	192.67	260.90	68.21	1.97	272.93	51.64	58.10	260.42
19425	-20.20	-6.63	-6.90	70.18	53.89	503.07	60.67	188.47	260.43	65.23	-2.56	262.43	51.64	53.40	260.00
19426	-20.77	-6.04	-6.90	69.44	53.89	498.87	61.17	184.77	260.00	61.93	-7.03	252.43	51.44	49.00	259.62
19427	-21.30	-5.43	-6.90	68.61	53.68	494.50	61.34	181.50	259.63	58.31	-11.50	242.93	51.14	44.90	259.27
19428	-21.79	-4.80	-6.90	67.61	53.26	490.87	61.17	178.67	259.24	54.31	-15.97	233.93	50.74	41.10	258.96
19429	-22.24	-4.15	-6.90	66.46	52.64	487.00	60.67	176.17	258.87	50.00	-20.44	224.93	50.24	37.60	258.67
19430	-22.66	-3.48	-6.90	65.17	51.82	482.93	60.84	174.00	258.53	45.51	-24.91	215.93	49.64	34.20	258.40
19431	-23.05	-2.80	-6.90	63.75	50.80	478.50	60.67	172.13	258.13	41.13	-29.38	206.93	48.94	30.90	258.14
19432	-23.41	-2.11	-6.90	62.20	49.57	473.77	60.17	170.50	257.77	36.87	-33.85	197.93	48.14	27.60	257.89
19433	-23.74	-1.42	-6.90	60.53	48.14	468.67	59.34	169.13	257.37	32.71	-38.32	188.93	47.24	24.30	257.64
19434	-24.04	-0.73	-6.90	58.75	46.51	463.20	58.17	167.93	256.97	28.67	-42.79	180.93	46.24	21.00	257.40
19435	-24.31	0.00	-6.90	56.87	44.68	457.43	56.67	166.93	256.57	24.73	-47.26	172.93	45.14	17.70	257.15
19436	-24.55	0.73	-6.90	54.90	42.64	451.20	54.84	166.00	256.07	20.87	-51.73	164.93	43.94	14.40	256.90
19437	-24.76	1.46	-6.90	52.84	40.39	444.50	52.67	165.13	255.57	17.07	-56.20	156.93	42.64	11.10	256.65
19438	-24.94	2.19	-6.90	50.69	37.93	437.33	50.17	164.30	255.07	13.41	-60.67	148.93	41.34	7.80	256.40
19439	-25.09	2.92	-6.90	48.46	35.26	429.67	47.34	163.50	254.57	9.87	-65.14	140.93	40.04	4.50	256.15
19440	-25.21	3.65	-6.90	46.17	32.38	421.50	44.17	162.70	254.07	6.43	-69.61	132.93	38.74	1.20	255.90
19441	-25.30	4.38	-6.90	43.82	29.30	412.83	40.67	161.87	253.57	3.07	-74.08	124.93	37.44	-2.10	255.65
19442	-25.36	5.11	-6.90	41.41	26.03	403.67	36.84	161.00	253.07	-0.31	-78.55	116.93	36.14	-5.40	255.40
19443	-25.39	5.84	-6.90	38.96	22.57	394.00	32.67	160.07	252.57	-3.77	-83.02	108.93	34.84	-8.70	255.15
19444	-25.39	6.57	-6.90	36.47	18.93	383.83	28.17	159.00	252.07	-7.23	-87.49	100.93	33.54	-12.00	254.90
19445	-25.36	7.30	-6.90	33.94	15.17	373.13	23.34	157.87	251.57	-10.67	-91.96	92.93	32.24	-15.30	254.65
19446	-25.29	8.03	-6.90	31.38	11.30	362.00	18.17	156.57	251.07	-14.13	-96.43	84.93	30.94	-18.60	254.40
19447	-25.18	8.76	-6.90	28.79	7.33	349.33	12.67	155.00	250.57	-17.60	-100.90	76.93	29.64	-21.90	254.15
19448	-25.04	9.49	-6.90	26.17	3.26	336.13	6.84	154.13	250.07	-21.07	-105.37	68.93	28.34	-25.20	253.90
19449	-24.87	10.22	-6.90	23.52	-0.91	322.50	0.67	153.70	249.57	-24.53	-109.84	60.93	27.04	-28.50	253.65
19450	-24.68	10.95	-6.90	20.84	-4.94	308.33	-3.84	153.63	249.07	-28.00	-114.31	52.93	25.74	-31.80	253.40
19451	-24.47	11.68	-6.90	18.13	-8.97	293.67	-7.23	153.70	248.57	-31.47	-118.78	44.93	24.44	-35.10	253.15
19452	-24.24	12.41	-6.90	15.40	-13.00	278.50	-10.63	153.87	248.07	-35.00	-123.25	36.93	23.14	-38.40	252.90
19453	-23.99	13.14	-6.90	12.64	-17.03	262.83	-14.00	154.00	247.57	-38.57	-127.72	28.93	21.84	-41.70	252.65
19454	-23.72	13.87	-6.90	9.87	-21.06	246.67	-17.37	154.13	247.07	-42.13	-132.19	20.93	20.54	-45.00	252.40
19455	-23.43	14.60	-6.90	7.09	-25.09	230.00	-20.74	154.20	246.57	-45.77	-136.66	12.93	19.24	-48.30	252.15
19456	-23.12	15.33	-6.90	4.30	-29.12	212.83	-24.17	154.20	246.07	-49.41	-141.13	4.93	17.94	-51.60	251.90
19457	-22.79	16.06	-6.90	1.51	-33.15	195.13	-27.60	154.13	245.57	-53.05	-145.60	-3.07	16.64	-54.90	251.65
19458	-22.44	16.79	-6.90	-1.28	-37.18	177.00	-31.03	153.93	245.07	-56.69	-150.07	-11.13	15.34	-58.20	251.40
19459	-22.07	17.52	-6.90	-4.07	-41.21	158.33	-34.46	153.67	244.57	-60.33	-154.54	-19.23	14.04	-61.50	251.15
19460	-21.68	18.25	-6.90	-6.86	-45.24	139.13	-37.89	153.27	244.07	-63.97	-159.01	-27.33	12.74	-64.80	250.90
19461	-21.27	18.98	-6.90	-9.65	-49.27	119.50	-41.32	152.73	243.57	-67.61	-163.48	-35.43	11.44	-68.10	250.65
19462	-20.84	19.71	-6.90	-12.44	-53.30	99.33	-44.75	152.07	243.07	-71.25	-167.95	-43.53	10.14	-71.40	250.40
19463	-20.39	20.44	-6.90	-15.23	-57.33	78.67	-48.17	151.27	242.57	-74.89	-172.42	-51.63	8.84	-74.70	250.15
19464	-19.92	21.17	-6.90	-18.02	-61.36	57.50	-51.60	150.33	242.07	-78.53	-176.89	-59.73	7.54	-78.00	249.90
19465	-19.43	21.90	-6.90	-20.81	-65.39	35.83	-55.03	149.27	241.57	-82.17	-181.36	-67.83	6.24	-81.30	249.65
19466	-18.92	22.63	-6.90	-23.60	-69.42	14.17	-58.46	148.00	241.07	-85.81	-185.83	-75.93	4.94	-84.60	249.40
19467	-18.39	23.36	-6.90	-26.39	-73.45	-7.48	-61.89	146.53	240.57	-89.35	-190.30	-84.03	3.64	-87.90	249.15
19468	-17.84	24.09	-6.90	-29.18	-77.48	-20.81	-65.32	144.87	240.07	-92.89	-194.77	-92.13	2.34	-91.20	248.90
19469	-17.27	24.82	-6.90	-31.97	-81.51	-34.14	-68.75	143.00	239.57	-96.43	-199.24	-100.23	1.04	-94.50	248.65
19470	-16.68	25.55	-6.90	-34.76	-85.54	-47.47	-72.18	140.93	239.07	-100.00	-203.71	-108.33	-0.26	-97.80	248.40
19471	-16.07	26.28	-6.90	-37.55	-89.57	-60.80	-75.61	138.53	238.57	-103.87	-208.18	-116.43	-1.56	-101.10	248.15
19472	-15.44	27.01	-6.90	-40.34	-93.60	-74.13	-79.04	135.87	238.07	-107.73	-212.65	-124.53	-2.86	-104.40	247.90
19473	-14.79	27.74	-6.90	-43.13	-97.63	-87.46	-82.47	132.93	237.57	-111.59	-217.12	-132.63	-4.16	-107.70	247.65
19474	-14.12	28.47	-6.90	-45.92	-101.66	-100.79	-85.90	129.73	237.07	-115.45	-221.60	-140.73	-5.46	-111.00	247.40
19475	-13.43	29.20	-6.90	-48.71	-105.69	-119.12	-89.33	126.07	236.57	-119.31	-226.07	-148.83	-6.76	-114.30	247.15



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19503	-1.95	-15.20	-8.30	56.34	39.21	536.43	8.99	307.80	269.75	188.37	68.32	556.95	22.62	140.70	270.30
19504	-3.22	-15.07	-8.30	60.31	39.88	537.95	12.94	306.72	271.46	185.60	68.15	551.98	17.15	145.32	271.99
19505	-4.47	-14.90	-8.30	64.47	40.94	540.33	17.61	304.98	273.45	182.37	67.37	544.14	15.09	149.15	273.94
19506	-5.71	-14.67	-8.30	68.26	42.21	543.26	22.57	302.48	275.58	178.45	66.00	533.53	17.22	151.84	276.04
19507	-6.91	-14.40	-8.30	71.21	43.52	546.34	27.54	299.05	277.69	173.70	64.06	520.22	21.81	153.01	278.14
19508	-8.09	-14.08	-8.30	73.04	44.67	549.12	32.30	294.47	279.58	168.01	61.56	504.37	27.11	152.30	280.04
19509	-9.24	-13.72	-8.30	73.67	45.54	550.99	36.65	288.52	280.99	161.43	58.54	486.17	32.27	149.39	281.51
19510	-10.36	-13.31	-8.30	73.27	46.02	551.29	40.48	281.12	281.66	154.14	55.03	465.97	36.96	144.19	282.28
19511	-11.45	-12.86	-8.30	72.09	46.08	549.36	43.74	272.46	281.35	146.33	51.10	444.24	41.13	136.96	282.10
19512	-12.67	-11.70	-8.30	67.46	48.51	558.74	3.23	287.74	239.52	160.21	66.47	578.92	27.87	124.79	239.56
19513	-1.99	-16.99	-8.30	69.40	48.51	558.33	5.74	287.15	240.95	158.73	67.17	575.94	21.39	128.45	241.00
19514	-3.30	-16.84	-8.30	71.49	49.00	557.71	9.94	285.82	243.05	157.09	67.34	569.26	16.38	131.65	243.08
19515	-4.59	-16.62	-8.30	73.44	49.82	556.75	14.66	283.76	245.75	155.09	66.97	559.00	14.45	134.08	245.77
19516	-5.85	-16.34	-8.30	74.99	50.81	555.36	19.60	280.95	248.96	152.57	66.07	545.37	16.46	135.47	248.99
19517	-7.09	-15.99	-8.30	75.88	51.79	553.38	24.54	277.28	252.50	149.37	64.64	528.61	20.88	135.58	252.61
19518	-8.29	-15.58	-8.30	75.95	52.58	550.64	29.26	272.63	256.16	145.40	62.69	509.05	26.06	134.16	256.39
19519	-9.46	-15.11	-8.30	75.20	53.01	546.95	33.57	266.89	259.62	140.71	60.20	487.12	31.13	131.08	260.02
19520	-10.60	-14.58	-8.30	73.77	52.97	542.08	37.34	260.06	262.52	135.41	57.16	463.41	35.75	126.39	263.11
19521	-11.69	-14.00	-8.30	71.90	52.41	535.84	40.57	252.34	264.53	129.65	53.63	438.74	39.86	120.42	265.31
19522	-12.73	-13.42	-8.30	69.49	51.13	539.47	2.10	265.79	196.23	140.00	60.69	556.08	22.54	109.32	196.34
19523	-2.02	-18.79	-8.30	91.30	51.27	538.76	5.59	265.04	197.84	138.92	61.64	552.80	17.89	111.76	197.64
19524	-3.36	-18.61	-8.30	91.39	51.93	537.30	10.29	263.49	200.66	137.51	62.42	546.01	15.25	114.03	200.17
19525	-4.68	-18.35	-8.30	90.75	52.99	535.12	15.21	261.21	204.70	135.67	62.97	535.88	15.74	115.88	204.00
19526	-5.97	-18.01	-8.30	89.37	54.29	532.23	20.09	258.21	209.86	133.30	63.21	522.64	18.90	117.06	209.06
19527	-7.23	-17.59	-8.30	87.25	55.65	528.64	24.77	254.45	215.93	130.35	63.09	506.53	23.34	117.36	215.18
19528	-8.47	-17.09	-8.30	84.43	56.87	524.35	29.08	249.89	222.63	126.82	62.50	487.85	28.07	116.60	222.07
19529	-9.66	-16.51	-8.30	81.05	57.74	519.36	32.89	244.51	229.58	122.83	61.33	466.99	32.56	114.70	229.30
19530	-10.81	-15.87	-8.30	77.37	58.06	513.69	36.12	238.39	236.31	118.54	59.44	444.53	36.58	111.69	236.35
19531	-11.91	-15.15	-8.30	73.72	57.65	507.39	38.83	231.83	242.31	114.16	56.75	421.28	40.09	107.88	242.64
19532	-12.96	-14.34	-8.30	54.09	46.75	491.87	48.51	211.03	270.13	86.78	38.50	320.35	51.24	91.69	271.35
19533	-16.19	-10.65	-8.30	58.33	48.27	489.30	48.05	212.41	264.58	92.25	40.00	332.00	51.29	93.95	265.77
19534	-15.52	-11.69	-8.30	61.79	50.38	488.04	46.89	213.00	259.51	96.87	42.54	344.66	50.39	95.29	260.62
19535	-15.79	-9.48	-8.30	58.39	41.98	525.69	52.18	239.45	283.20	109.15	35.90	346.92	52.71	106.72	284.43
19536	-15.37	-10.42	-8.30	61.41	44.12	520.36	50.77	236.09	276.84	110.34	37.87	355.73	51.80	105.44	278.10
19537	-14.91	-11.34	-8.30	63.76	46.67	515.57	48.91	232.60	270.95	110.98	40.56	364.71	50.32	104.07	272.18
19538	-14.78	-9.40	-8.30	63.48	38.26	545.55	54.76	235.05	294.08	130.02	35.84	368.99	53.50	126.68	295.02
19539	-14.55	-10.21	-8.30	64.82	40.57	540.58	52.96	256.73	287.38	127.43	37.53	375.26	52.10	121.52	288.44
19540	-14.30	-11.00	-8.30	65.93	43.21	535.04	50.81	250.97	280.97	125.23	39.74	381.04	50.44	117.23	282.09
19541	-12.93	-14.37	-8.30	70.41	56.28	501.27	41.14	225.46	247.37	110.00	53.33	399.10	43.21	103.84	247.99
19542	-12.65	-13.39	-8.30	69.99	51.22	529.47	43.16	245.21	265.88	124.40	50.02	416.31	43.26	114.64	266.86
19543	-12.36	-12.43	-8.30	70.65	45.73	545.88	46.13	264.32	280.51	139.31	47.60	424.85	44.31	129.60	281.40
19544	-13.86	-13.54	-8.30	67.51	54.62	495.59	43.24	220.16	251.57	106.07	49.64	378.81	46.04	100.21	252.39
19545	-13.48	-12.78	-8.30	68.13	50.01	523.28	45.26	239.43	266.93	119.66	46.74	396.74	46.04	109.96	268.01
19546	-13.10	-12.03	-8.30	69.28	45.26	541.32	47.75	257.73	279.62	133.37	44.78	408.34	46.59	123.77	280.62
19547	-14.74	-12.66	-8.30	64.88	52.59	490.28	45.15	215.91	255.08	101.69	45.94	360.10	48.56	97.44	256.04
19548	-14.28	-12.13	-8.30	66.02	48.64	516.71	47.07	234.06	267.58	114.34	43.52	378.20	48.45	105.74	268.75
19549	-13.81	-11.61	-8.30	67.41	44.95	535.40	49.15	250.97	278.60	126.93	42.24	391.93	48.59	117.70	279.68
19550	-21.43	-9.79	-2.70	34.43	110.76	11.40	54.33	17.19	25.65	23.54	44.31	12.84	25.25	19.72	33.64
19551	-20.65	-11.34	-2.70	44.55	108.00	11.13	63.04	19.32	25.52	31.15	44.02	12.59	31.35	23.49	34.27
19552	-19.76	-12.83	-2.70	57.15	104.35	10.91	71.43	21.68	25.18	41.45	45.27	12.26	38.59	27.47	34.22
19553	-18.76	-14.25	-2.70	71.61	99.51	10.65	79.04	23.98	24.54	54.72	47.54	11.88	46.82	31.21	33.30
19554	-17.66	-15.59	-2.70	87.88	93.31	10.40	85.48	26.18	23.60	71.12	49.75	11.50	55.57	34.50	31.49
19555	-16.47	-16.85	-2.70	105.67	85.73	10.16	90.29	28.20	22.40	90.63	50.89	11.13	64.08	37.11	28.82
19556	-15.18	-18.02	-2.70	124.58	76.89	9.94	93.06	30.00	20.94	112.92	50.29	10.79	71.47	38.85	25.39
19557	-13.81	-19.09	-2.70	144.08	67.03	9.74	93.44	31.51	19.27	137.41	47.66	10.48	76.89	39.57	21.40
19558	-12.37	-20.05	-2.70	163.57	56.49	9.59	91.16	32.70	17.43	163.27	43.04	10.21	79.54	39.21	17.07
19559	-10.86	-20.91	-2.70	182.32	45.72	9.46	86.06	33.54	15.51	189.48	36.79	9.99	78.83	37.76	12.69
19560	-9.29	-21.65	-2.70	199.64	35.25	9.37	78.16	34.06	13.60	214.93	29.54	9.80	74.42	35.30	8.63
19561	-7.67	-22.28	-2.70	214.85	25.62	9.30	67.67	34.29	11.82	238.55	22.03	9.64	66.29	31.94	5.47
19562	-6.01	-22.78	-2.70	227.36	17.30	9.25	54.93	34.29	10.27	259.38	15.08	9.51	54.67	27.83	4.39
19563	-4.32	-23.17	-2.70	236.66	10.72	9.22	40.45	34.13	9.06	276.61	9.50	9.39	40.06	23.15	5.51
19564	-2.60	-23.42	-2.70	242.36	6.17	9.20	24.99	33.89	8.28	289.65	5.99	9.30	23.30	18.18	7.07
19565	-0.87	-23.55	-2.70	244.18	3.85	9.19	10.73	33.64	7.95	298.16	4.56	9.24	7.67	13.37	8.15
19566	-20.51	-9.75	-2.70	59.50	106.48	18.35	60.92	19.89	31.13	70.91	34.37	25.12	40.37	31.92	30.99
19567	-19.75	-11.21	-2.70	70.82	102.95	18.64	67.50	21.84	30.62	80.73	31.65	24.10	43.91	33.33	30.18
19568	-18.89	-12.62	-2.70	83.64	98.69	18.88	73.45	23.87	29.79	92.57	29.73	22.99	47.64	34.66	28.92
19569	-17.92	-13.96	-2.70	97.74	93.50	19.14	78.65	25.86	28.74	106.49	28.64	21.99	51.58	35.78	27.25
19570	-16.86	-15.22	-2.70	112.96	87.31	19.45	82.73	27.78	27.49	122.40	28.10	21.17	55.38	36.53	25.21
19571	-15.71	-16.41	-2.70	129.02	80.18	19.82	85.36	29.63	26.04	140.05	27.71	20.59	58.63	36.79	22.83
19572	-14.48	-17.51	-2.70	145.58	72.22	20.21	86.27	31.37	24.36	159.05	27.05	20.27	60.86	36.47	20.15
19573	-13.17	-18.52	-2.70	162.22	63.59	20.62	85.27	32.96	22.45	178.88	25.84	20.19	61.65	35.47	17.26

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19601	-18.24	-13.37	-2.70	152.65	115.37	67.99	93.41	62.52	70.59	234.83	63.73	61.97	73.33	67.80	75.90
19602	-15.26	-14.48	-2.70	162.87	113.90	69.17	92.23	62.95	72.43	239.70	66.54	61.35	67.32	59.66	76.89
19603	-14.20	-15.53	-2.70	172.40	111.56	70.55	91.43	63.36	74.51	244.41	68.68	61.72	61.32	51.86	77.95
19604	-13.07	-16.49	-2.70	181.09	108.24	72.03	91.09	63.74	76.72	248.61	70.17	63.00	55.54	44.57	79.07
19605	-11.88	-17.37	-2.70	188.92	104.11	73.60	91.13	64.02	79.08	252.17	71.36	65.10	50.16	37.90	80.39
19606	-10.62	-18.17	-2.70	195.79	99.30	75.13	91.39	64.15	81.39	254.99	72.32	67.80	45.29	31.95	81.87
19607	-9.32	-18.87	-2.70	201.58	93.96	76.56	91.82	64.14	83.56	257.00	73.11	70.87	41.16	26.80	83.51
19608	-7.96	-19.48	-2.70	206.14	88.37	77.88	92.39	64.02	85.55	258.17	73.86	74.11	38.02	22.48	85.39
19609	-6.57	-19.99	-2.70	209.40	82.78	79.04	93.11	63.80	87.30	258.55	74.59	77.33	36.08	18.87	87.49
19610	-5.14	-20.41	-2.70	211.26	77.47	80.03	93.98	63.53	88.76	258.21	75.36	80.34	35.46	15.79	89.76
19611	-3.69	-20.72	-2.70	211.68	72.75	80.80	94.96	63.25	89.86	257.29	76.17	83.01	36.14	13.02	92.09
19612	-2.22	-20.93	-2.70	210.62	68.92	81.32	95.98	63.00	90.53	255.97	77.05	85.18	37.97	10.39	94.31
19613	-0.74	-21.03	-2.70	208.09	66.27	81.55	96.96	62.80	90.72	254.49	78.05	86.75	40.73	7.85	96.22
19614	-17.76	-9.62	-2.70	192.36	163.17	232.89	146.06	167.66	155.97	352.63	143.11	249.94	142.03	201.63	165.58
19615	-17.06	-10.82	-2.70	201.94	174.73	234.86	135.50	165.82	160.48	346.48	154.18	237.67	129.22	182.63	169.09
19616	-16.27	-11.98	-2.70	209.71	185.26	237.59	126.14	163.64	166.25	339.51	164.62	227.68	116.52	163.76	173.26
19617	-15.40	-13.08	-2.70	215.71	193.99	241.75	118.64	161.69	172.64	331.96	173.69	221.24	104.24	145.77	177.53
19618	-14.46	-14.11	-2.70	219.60	201.42	247.44	113.35	159.64	180.33	323.39	181.76	219.06	92.52	128.81	182.92
19619	-13.44	-15.08	-2.70	221.20	206.59	253.52	111.18	157.25	188.24	313.32	187.91	220.50	82.08	112.60	188.66
19620	-12.37	-15.98	-2.70	220.66	209.86	260.22	112.54	154.85	196.59	301.90	192.60	225.91	73.48	97.96	195.15
19621	-11.23	-16.80	-2.70	217.71	211.51	267.01	117.15	151.90	205.31	289.03	196.30	234.66	66.94	84.57	202.68
19622	-10.04	-17.54	-2.70	212.62	211.09	273.26	124.08	148.55	213.44	275.06	198.56	245.64	62.52	72.55	210.50
19623	-8.80	-18.19	-2.70	205.69	209.09	279.06	132.42	144.98	221.05	260.43	199.94	258.20	59.90	61.97	218.79
19624	-7.52	-18.76	-2.70	197.28	205.85	284.28	141.25	141.33	227.93	245.64	200.74	271.47	58.48	52.65	227.35
19625	-6.20	-19.23	-2.70	187.84	201.78	288.83	149.74	137.78	233.90	231.22	201.28	284.65	57.61	44.31	235.93
19626	-4.86	-19.62	-2.70	177.90	197.31	292.62	157.28	134.56	238.79	217.71	201.84	297.03	56.74	36.64	244.20
19627	-3.49	-19.90	-2.70	168.11	192.89	295.56	163.35	131.89	242.45	205.68	202.61	308.00	55.56	29.44	251.77
19628	-2.10	-20.10	-2.70	159.07	188.94	297.56	167.61	129.94	244.77	195.65	203.78	317.05	53.97	22.79	258.27
19629	-0.70	-20.20	-2.70	151.41	185.70	298.49	169.77	128.86	245.52	188.14	205.36	323.67	52.09	17.44	263.17
19630	-21.43	-9.79	-4.10	27.79	107.74	40.52	52.84	39.52	80.04	20.03	49.80	67.11	31.04	57.53	88.29
19631	-20.65	-11.34	-4.10	37.06	104.48	39.63	61.13	45.69	79.04	26.47	50.64	63.55	36.52	64.36	88.23
19632	-19.76	-12.83	-4.10	48.54	100.31	38.92	69.04	52.21	77.62	35.28	52.07	59.78	42.67	71.34	87.08
19633	-18.76	-14.25	-4.10	61.75	95.03	38.28	76.23	58.59	75.54	46.53	53.71	55.94	49.55	77.70	84.51
19634	-17.66	-15.59	-4.10	76.71	88.51	37.79	82.35	64.77	72.74	60.42	54.84	52.25	56.93	83.07	80.39
19635	-16.47	-16.85	-4.10	93.19	80.73	37.51	87.01	70.64	69.21	77.06	54.73	48.85	64.29	86.99	74.75
19636	-15.18	-18.02	-4.10	110.87	71.76	37.44	89.79	76.09	64.91	96.32	52.85	45.90	70.86	89.09	67.75
19637	-13.81	-19.09	-4.10	129.28	61.80	37.56	90.33	80.95	59.86	117.76	48.94	43.51	75.78	89.07	59.66
19638	-12.37	-20.05	-4.10	147.81	51.18	37.83	88.31	85.11	54.11	140.65	43.09	41.74	78.23	86.79	50.87
19639	-10.86	-20.91	-4.10	165.76	40.34	38.20	83.54	88.47	47.77	164.01	35.66	40.54	77.56	82.24	41.87
19640	-9.29	-21.65	-4.10	182.42	29.79	38.61	76.02	91.04	40.99	186.76	27.30	39.82	73.41	75.59	33.13
19641	-7.67	-22.28	-4.10	197.11	20.11	39.01	65.91	92.85	33.95	207.85	18.76	39.48	65.70	67.06	25.13
19642	-6.01	-22.78	-4.10	209.24	11.86	39.39	53.55	93.99	26.80	226.28	10.90	39.43	54.66	56.93	18.26
19643	-4.32	-23.17	-4.10	218.32	5.69	39.71	39.40	94.58	19.73	241.22	4.83	39.62	40.73	45.55	12.88
19644	-2.60	-23.42	-4.10	223.93	3.05	39.94	24.10	94.73	13.04	252.00	3.46	39.96	24.56	33.39	9.28
19645	-0.87	-23.55	-4.10	225.81	3.63	40.04	9.21	94.54	7.78	258.18	5.12	40.40	7.09	21.38	7.54
19646	-20.51	-9.75	-4.10	39.47	97.08	68.24	60.54	47.72	91.30	53.16	31.82	92.74	43.53	84.65	91.19
19647	-19.75	-11.21	-4.10	48.74	92.84	69.47	67.38	53.28	90.03	57.91	31.40	88.29	47.42	85.29	89.73
19648	-18.89	-12.62	-4.10	59.52	87.80	70.76	73.63	58.85	88.36	65.00	31.68	84.00	51.38	85.80	87.72
19649	-17.92	-13.96	-4.10	71.80	81.86	72.17	79.17	64.36	86.23	74.54	32.32	80.27	55.55	86.00	85.10
19650	-16.86	-15.22	-4.10	85.46	74.91	73.76	83.66	69.78	83.62	86.47	32.64	77.39	59.84	85.63	81.82
19651	-15.71	-16.41	-4.10	100.34	67.00	75.51	86.76	75.10	80.48	100.65	32.01	75.54	63.90	84.44	77.90
19652	-14.48	-17.51	-4.10	116.12	58.24	77.36	88.15	80.24	76.77	116.81	30.02	74.81	67.25	82.21	73.35
19653	-13.17	-18.52	-4.10	132.41	48.87	79.24	87.53	85.06	72.49	134.50	26.52	75.17	69.29	78.79	68.28
19654	-11.79	-19.42	-4.10	148.68	39.28	81.08	84.66	89.43	67.67	153.11	21.65	76.46	69.37	74.09	62.87
19655	-10.35	-20.23	-4.10	164.30	30.04	82.79	79.42	93.22	62.44	171.89	16.03	78.41	67.02	68.12	57.36
19656	-8.85	-20.93	-4.10	178.68	22.02	84.34	71.88	96.36	56.98	189.96	10.95	80.76	61.96	60.95	52.06
19657	-7.30	-21.52	-4.10	191.23	16.42	85.70	62.27	98.83	51.56	206.52	9.28	83.28	54.15	52.69	47.30
19658	-5.72	-21.99	-4.10	201.46	14.47	86.86	51.02	100.65	46.46	220.82	12.24	85.79	43.82	43.48	43.38
19659	-4.11	-22.35	-4.10	208.95	15.48	87.78	38.84	101.87	42.04	232.23	16.59	88.13	31.38	33.47	40.51
19660	-2.47	-22.59	-4.10	213.36	17.21	88.42	27.10	102.52	38.69	240.23	20.26	90.15	17.62	22.83	38.83
19661	-0.83	-22.71	-4.10	214.47	18.18	88.72	19.47	102.65	36.78	244.52	22.51	91.71	6.73	11.88	38.39
19662	-19.60	-9.70	-4.10	55.28	87.58	114.34	71.16	70.96	111.07	89.23	10.69	121.95	58.09	114.33	112.51
19663	-18.85	-11.08	-4.10	63.82	83.07	116.06	75.72	75.06	110.28	92.46	8.95	117.53	59.76	108.12	111.81
19664	-18.01	-12.41	-4.10	73.35	78.04	117.88	79.92	79.19	109.35	97.48	8.91	113.87	61.30	101.87	110.85
19665	-17.08	-13.67	-4.10	83.94	72.34	119.94	83.53	83.30	108.29	104.40	10.07	111.41	62.73	95.55	109.67
19666	-16.06	-14.85	-4.10	95.57	65.99	122.25	86.23	87.46	107.07	113.26	11.36	110.39	63.96	89.16	108.23
19667	-14.95	-15.97	-4.10	108.10	59.17	124.77	87.73	91.67	105.62	123.88	12.24	110.91	64.81	82.66	106.47
19668	-13.77	-17.00	-4.10	121.28	52.13	127.41	87.82	95.89	103.91	135.97	12.83	112.93	65.02	76.06	104.35
19669	-12.52	-17.94	-4.10	134.82	45.29	130.09	86.26	99.98	101.94	149.15	13.76	116.25	64.23	69.36	101.92
19670	-11.20	-18.79	-4.10	148.27	39.31	132.68	82.86	103.79	99.72	162.94	15.84	120.53	62.00	62.57	99.25
19671	-9.83	-19.55	-4.10	161.10	34.99	135.10	77.62	107.21	97.34	176.70	19.43	125.39	58.01	55.70	96.52
19672	-8.41	-20.20	-4.1												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19699	-13.44	-15.08	-4.10	127.47	71.52	307.32	60.47	155.99	177.12	147.43	22.97	255.61	45.08	81.66	180.23
19700	-12.37	-15.98	-4.10	134.47	67.27	312.57	58.64	157.46	178.25	154.06	21.07	265.02	40.04	72.99	180.33
19701	-11.23	-16.80	-4.10	141.01	62.21	317.98	57.02	158.79	179.34	160.22	19.02	276.85	35.02	65.52	180.49
19702	-10.04	-17.54	-4.10	146.91	56.53	323.19	55.51	160.01	180.25	165.75	17.02	290.19	30.01	59.26	180.68
19703	-8.80	-18.19	-4.10	152.04	50.31	328.13	54.19	161.07	181.00	170.49	15.28	304.30	25.15	54.12	181.03
19704	-7.52	-18.76	-4.10	156.26	43.71	332.68	53.12	161.92	181.61	174.33	13.98	318.44	20.68	49.81	181.70
19705	-6.20	-19.23	-4.10	159.44	36.88	336.74	52.40	162.55	182.10	177.19	13.24	331.95	16.97	45.97	182.78
19706	-4.86	-19.62	-4.10	161.47	29.98	340.18	52.08	162.96	182.47	179.03	13.11	344.24	14.56	42.27	184.28
19707	-3.49	-19.90	-4.10	162.29	23.34	342.89	52.19	163.17	182.68	179.87	13.56	354.82	13.98	38.45	186.11
19708	-2.10	-20.10	-4.10	161.84	17.58	344.77	52.70	163.20	182.70	179.74	14.48	363.24	15.23	34.43	188.15
19709	-0.70	-20.20	-4.10	160.10	14.14	345.66	53.49	163.03	182.45	178.72	15.76	369.05	17.74	30.29	190.15
19710	-21.43	-9.79	-5.50	26.04	101.71	85.98	48.66	59.58	128.18	17.29	56.89	162.36	31.59	78.92	134.04
19711	-20.65	-11.34	-5.50	34.53	98.65	85.98	56.17	68.56	125.75	23.98	58.20	152.16	37.45	87.25	132.20
19712	-19.76	-12.83	-5.50	44.96	94.73	86.37	63.34	77.91	122.75	32.51	59.12	141.66	43.55	95.65	129.16
19713	-18.76	-14.25	-5.50	56.94	89.83	87.22	69.83	87.01	118.89	42.87	59.56	131.52	49.82	103.13	124.51
19714	-17.66	-15.59	-5.50	70.50	83.87	88.59	75.38	95.84	114.10	55.28	59.26	122.21	56.16	109.29	118.14
19715	-16.47	-16.85	-5.50	85.53	76.83	90.46	79.69	104.33	108.36	69.94	57.87	114.15	62.31	113.63	110.09
19716	-15.18	-18.02	-5.50	101.79	68.75	92.75	82.39	112.32	101.62	86.88	55.06	107.79	67.71	115.63	100.48
19717	-13.81	-19.09	-5.50	118.84	59.73	95.31	83.08	119.57	93.87	105.76	50.58	103.45	71.66	114.87	89.59
19718	-12.37	-20.05	-5.50	136.08	50.02	97.96	81.40	125.84	85.16	125.90	44.48	101.15	73.40	111.14	77.91
19719	-10.86	-20.91	-5.50	152.80	40.03	100.53	77.15	131.01	75.66	146.33	37.08	100.61	72.31	104.43	66.04
19720	-9.29	-21.65	-5.50	168.31	30.26	102.89	70.29	135.05	65.65	166.04	28.94	101.38	68.07	94.94	54.63
19721	-7.67	-22.28	-5.50	181.97	21.22	104.99	60.99	138.03	55.40	184.06	20.75	103.04	60.68	82.96	44.30
19722	-6.01	-22.78	-5.50	193.26	13.41	106.80	49.56	140.06	45.24	199.51	13.25	105.27	50.36	68.82	35.57
19723	-4.32	-23.17	-5.50	201.75	7.28	108.28	36.41	141.28	35.59	211.65	7.12	107.80	37.57	52.85	28.85
19724	-2.60	-23.42	-5.50	207.04	3.26	109.34	22.07	141.82	27.25	219.86	3.20	110.35	22.93	35.42	24.42
19725	-0.87	-23.55	-5.50	208.85	1.75	109.85	7.27	141.81	21.84	223.66	2.46	112.66	7.17	17.12	22.33
19726	-20.51	-9.75	-5.50	34.97	91.00	131.18	51.13	72.47	140.63	32.16	44.49	171.01	38.93	106.23	140.33
19727	-19.75	-11.21	-5.50	43.47	87.79	134.03	57.29	80.34	138.34	38.49	45.46	162.64	43.39	107.36	137.80
19728	-18.89	-12.62	-5.50	53.14	83.87	137.08	62.87	88.07	135.57	46.46	46.30	155.01	47.70	108.29	134.63
19729	-17.92	-13.96	-5.50	64.04	79.19	140.40	67.82	95.64	132.19	56.07	46.91	148.78	51.90	108.82	130.68
19730	-16.86	-15.22	-5.50	76.16	73.66	143.98	71.92	103.12	128.12	67.33	46.99	144.35	55.99	108.66	125.85
19731	-15.71	-16.41	-5.50	89.47	67.25	147.78	74.91	110.56	123.31	80.30	46.13	142.00	59.83	107.51	120.11
19732	-14.48	-17.51	-5.50	103.75	59.98	151.71	76.50	117.86	117.68	94.96	44.01	141.89	63.07	105.05	113.49
19733	-13.17	-18.52	-5.50	118.65	51.94	155.61	76.34	124.79	111.22	111.04	40.42	143.89	65.14	101.00	106.09
19734	-11.79	-19.42	-5.50	133.68	43.37	159.35	74.14	131.10	104.02	127.99	35.42	147.58	65.44	95.21	98.16
19735	-10.35	-20.23	-5.50	148.19	34.65	162.78	69.72	136.59	96.30	145.04	29.33	152.37	63.44	87.66	90.10
19736	-8.85	-20.93	-5.50	161.59	26.24	165.85	63.08	141.15	88.37	161.37	22.68	157.73	58.90	78.44	82.37
19737	-7.30	-21.52	-5.50	173.33	18.62	168.53	54.38	144.77	80.61	176.18	16.13	163.21	51.81	67.71	75.45
19738	-5.72	-21.99	-5.50	182.95	12.32	170.82	43.94	147.47	73.46	188.77	10.48	168.51	42.36	55.66	69.76
19739	-4.11	-22.35	-5.50	190.08	7.90	172.67	32.19	149.33	67.38	198.52	6.87	173.35	30.96	42.52	65.60
19740	-2.47	-22.59	-5.50	194.39	5.79	173.99	19.81	150.40	62.86	204.93	6.31	177.46	18.12	28.66	63.17
19741	-0.83	-22.71	-5.50	195.62	5.40	174.63	9.05	150.72	60.34	207.58	7.34	180.54	4.73	15.33	62.50
19742	-19.60	-9.70	-5.50	45.30	81.30	194.17	53.70	94.46	157.74	46.47	32.56	191.49	45.41	121.81	158.14
19743	-18.85	-11.08	-5.50	53.50	78.11	197.32	57.90	100.99	155.65	52.80	33.19	186.03	48.19	117.42	156.01
19744	-18.01	-12.41	-5.50	62.37	74.47	200.73	61.65	107.27	153.37	60.27	33.95	182.11	50.69	112.96	153.60
19745	-17.08	-13.67	-5.50	72.04	70.26	204.46	64.86	113.36	150.76	68.89	34.72	180.24	52.89	108.41	150.78
19746	-16.06	-14.85	-5.50	82.56	65.40	208.50	67.36	119.45	147.72	78.72	35.16	180.66	54.82	103.70	147.44
19747	-14.95	-15.97	-5.50	93.92	59.87	212.77	68.94	125.65	144.15	89.79	34.90	183.43	56.45	98.75	143.47
19748	-13.77	-17.00	-5.50	106.00	53.67	217.15	69.38	131.92	139.98	102.04	33.63	188.44	57.56	93.41	138.82
19749	-12.52	-17.94	-5.50	118.53	46.87	221.50	68.41	138.04	135.22	115.24	31.19	195.31	57.78	87.57	133.55
19750	-11.20	-18.79	-5.50	131.09	39.70	225.65	65.79	143.75	129.97	128.97	27.63	203.43	56.63	81.12	127.82
19751	-9.83	-19.55	-5.50	143.17	32.49	229.48	61.37	148.86	124.43	142.61	23.27	212.14	53.76	74.02	121.97
19752	-8.41	-20.20	-5.50	154.24	25.63	232.93	55.21	153.21	118.91	155.52	18.56	220.90	48.97	66.25	116.42
19753	-6.94	-20.76	-5.50	163.86	19.51	235.95	47.48	156.75	113.72	167.07	14.10	229.27	42.29	57.87	111.58
19754	-5.43	-21.20	-5.50	171.64	14.53	238.53	38.53	159.48	109.14	176.73	10.60	236.90	33.89	48.99	107.83
19755	-3.90	-21.54	-5.50	177.28	10.99	240.61	28.89	161.43	105.42	184.04	8.85	243.52	24.10	39.83	105.40
19756	-2.35	-21.76	-5.50	180.50	9.01	242.07	19.65	162.61	102.75	188.59	8.95	248.81	13.40	31.01	104.37
19757	-0.78	-21.87	-5.50	181.10	8.36	242.79	13.85	163.04	101.25	190.08	10.02	252.49	3.55	24.00	104.68
19758	-18.68	-9.66	-5.50	57.57	74.54	263.13	53.37	120.51	176.90	56.61	23.82	221.19	48.61	121.44	179.41
19759	-17.95	-10.95	-5.50	65.39	72.13	266.08	55.19	126.11	174.95	64.00	24.41	218.99	49.48	114.72	177.63
19760	-17.14	-12.19	-5.50	73.47	69.47	269.43	56.74	131.29	173.05	71.73	25.34	218.79	50.04	107.99	175.74
19761	-16.24	-13.37	-5.50	81.93	66.35	273.21	57.92	136.22	171.07	79.91	26.47	220.95	50.24	101.36	173.63
19762	-15.26	-14.48	-5.50	90.81	62.77	277.35	58.59	141.11	168.83	88.67	27.55	225.61	50.12	94.93	171.09
19763	-14.20	-15.53	-5.50	100.14	58.69	281.78	58.65	146.15	166.21	98.07	28.25	232.71	49.68	88.77	168.02
19764	-13.07	-16.49	-5.50	109.81	54.09	286.37	57.98	151.29	163.15	108.06	28.38	242.01	48.84	82.95	164.35
19765	-11.88	-17.37	-5.50	119.69	48.96	290.97	56.40	156.35	159.63	118.51	27.74	252.95	47.41	77.43	160.15
19766	-10.62	-18.17	-5.50	129.49	43.47	295.40	53.67	161.13	155.78	129.11	26.35	264.82	45.07	72.09	155.60
19767	-9.32	-18.87	-5.50	138.78	37.89	299.52	49.74	165.44	151.76	139.39	24.41	276.95	41.60	66.82	151.01
19768	-7.96	-19.48	-5.50	147.19	32.44	303.27	44.67	169.14	147.81	148.91	22.18	288.73	36.91	61.52	146.74
19769	-6.57	-19.99	-5.50	154.37	27.38	306.59	38.67	172.18	14						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19797	-13.81	-19.09	-6.90	106.92	56.62	173.79	74.25	149.59	116.81	95.22	50.19	177.72	65.91	131.46	106.91
19798	-12.37	-20.05	-6.90	122.81	48.13	179.11	73.15	157.15	105.35	112.63	44.21	176.88	67.03	127.01	92.11
19799	-10.86	-20.91	-6.90	138.24	39.21	184.03	69.61	163.34	93.02	130.19	37.13	178.67	65.62	119.00	77.20
19800	-9.29	-21.65	-6.90	152.49	30.37	188.42	63.60	168.16	80.13	146.91	29.49	182.24	61.40	107.70	62.97
19801	-7.67	-22.28	-6.90	164.98	22.13	192.23	55.28	171.72	67.02	161.93	21.91	186.89	54.43	93.53	50.16
19802	-6.01	-22.78	-6.90	175.29	14.98	195.52	44.97	174.18	54.04	174.56	15.02	192.12	44.96	76.93	39.36
19803	-4.32	-23.17	-6.90	183.09	9.31	198.29	33.09	175.71	41.62	184.25	9.39	197.57	33.47	58.35	31.05
19804	-2.60	-23.42	-6.90	188.04	5.44	200.36	20.10	176.47	30.64	190.46	5.46	202.77	20.49	38.46	25.58
19805	-0.87	-23.55	-6.90	189.78	3.54	201.41	6.52	176.62	23.23	192.72	3.54	207.16	6.71	19.91	23.11
19806	-20.51	-9.75	-6.90	34.98	83.04	193.77	42.57	90.11	179.78	26.45	54.21	238.22	36.21	107.76	178.89
19807	-19.75	-11.21	-6.90	42.07	81.09	198.59	47.92	100.30	175.82	33.50	55.26	226.98	41.05	111.31	174.47
19808	-18.89	-12.62	-6.90	50.05	78.64	203.73	52.67	109.92	171.18	41.48	55.77	217.54	45.29	114.43	169.14
19809	-17.92	-13.96	-6.90	59.00	75.62	209.12	56.84	119.04	165.66	50.26	55.92	210.58	48.94	116.97	162.70
19810	-16.86	-15.22	-6.90	69.03	71.91	214.75	60.41	127.99	159.26	59.89	55.63	206.33	52.14	118.75	155.12
19811	-15.71	-16.41	-6.90	80.29	67.41	220.58	63.26	137.01	151.95	70.73	54.67	205.02	55.09	119.41	146.42
19812	-14.48	-17.51	-6.90	92.75	62.02	226.49	65.14	145.98	143.64	83.05	52.69	206.78	57.66	118.48	136.60
19813	-13.17	-18.52	-6.90	106.08	55.72	232.27	65.60	154.55	134.24	96.79	49.42	211.34	59.36	115.49	125.76
19814	-11.79	-19.42	-6.90	119.71	48.67	237.69	64.25	162.31	123.86	111.43	44.82	217.99	59.53	110.16	114.26
19815	-10.35	-20.23	-6.90	132.98	41.21	242.61	60.83	168.99	112.82	126.18	39.17	225.85	57.65	102.45	102.65
19816	-8.85	-20.93	-6.90	145.24	33.80	246.94	55.29	174.49	101.51	140.22	32.96	234.15	53.47	92.56	91.56
19817	-7.30	-21.52	-6.90	155.98	26.90	250.69	47.79	178.83	90.45	152.82	26.75	242.35	47.01	80.78	81.63
19818	-5.72	-21.99	-6.90	164.80	20.92	253.92	38.60	182.08	80.17	163.36	21.08	250.13	38.51	67.56	73.38
19819	-4.11	-22.35	-6.90	171.42	16.22	256.63	28.10	184.34	71.32	171.38	16.44	257.18	28.37	53.46	67.26
19820	-2.47	-22.59	-6.90	175.53	13.06	258.66	16.72	185.70	64.66	176.42	13.20	263.14	17.09	39.74	63.52
19821	-0.83	-22.71	-6.90	176.81	11.59	259.71	4.92	186.23	60.97	178.05	11.63	267.52	5.32	29.88	62.24
19822	-19.60	-9.70	-6.90	44.85	75.01	258.39	42.46	109.42	194.32	36.26	46.92	233.88	40.11	112.78	193.59
19823	-18.85	-11.08	-6.90	51.28	73.54	262.70	46.10	118.34	190.42	43.64	47.92	229.76	43.49	111.98	189.40
19824	-18.01	-12.41	-6.90	58.22	71.93	267.35	49.20	126.44	186.16	51.40	48.90	228.00	46.18	111.02	184.76
19825	-17.08	-13.67	-6.90	65.80	70.02	272.36	51.79	134.02	181.31	59.43	49.95	228.84	48.15	109.94	179.44
19826	-16.06	-14.85	-6.90	74.18	67.62	277.71	53.91	141.58	175.76	67.85	50.90	232.33	49.62	108.69	173.31
19827	-14.95	-15.97	-6.90	83.55	64.57	283.31	55.52	149.43	169.39	77.01	51.33	238.46	50.84	107.04	166.25
19828	-13.77	-17.00	-6.90	93.89	60.72	288.97	56.40	157.50	162.08	87.21	50.85	247.03	51.79	104.67	158.18
19829	-12.52	-17.94	-6.90	104.97	56.03	294.51	56.20	165.42	153.79	98.46	49.17	257.50	52.10	101.23	149.17
19830	-11.20	-18.79	-6.90	116.32	50.64	299.70	54.56	172.80	144.72	110.37	46.28	269.05	51.27	96.47	139.50
19831	-9.83	-19.55	-6.90	127.36	44.87	304.42	51.24	179.31	135.21	122.32	42.44	280.86	48.87	90.31	129.68
19832	-8.41	-20.20	-6.90	137.53	39.09	308.59	46.23	184.82	125.73	133.64	38.06	292.28	44.73	82.85	120.31
19833	-6.94	-20.76	-6.90	146.40	33.69	312.23	39.64	189.27	116.76	143.72	33.57	302.87	38.86	74.34	111.96
19834	-5.43	-21.20	-6.90	153.63	29.01	315.35	31.71	192.71	108.78	152.08	29.42	312.35	31.46	65.15	105.17
19835	-3.90	-21.54	-6.90	158.97	25.33	317.93	22.77	195.20	102.28	158.33	25.96	320.46	22.86	55.92	100.30
19836	-2.35	-21.76	-6.90	162.15	22.90	319.84	13.20	196.78	97.65	162.12	23.52	326.86	13.53	47.76	97.56
19837	-0.78	-21.87	-6.90	162.93	21.85	320.82	3.63	197.47	95.17	163.10	22.30	331.14	4.38	42.60	96.92
19838	-18.68	-9.66	-6.90	53.21	67.64	324.10	42.86	133.45	210.03	46.10	40.03	246.41	43.14	106.13	210.81
19839	-17.95	-10.95	-6.90	59.02	66.83	327.19	44.68	140.93	206.18	53.63	41.19	248.48	44.98	103.69	206.91
19840	-17.14	-12.19	-6.90	65.07	66.08	330.82	46.04	147.51	202.27	61.01	42.69	252.82	46.12	101.29	202.88
19841	-16.24	-13.37	-6.90	71.47	65.20	335.06	46.97	153.65	198.07	68.20	44.60	259.52	46.53	99.02	198.45
19842	-15.26	-14.48	-6.90	78.39	64.01	339.84	47.56	159.90	193.34	75.35	46.61	268.59	46.43	96.95	193.38
19843	-14.20	-15.53	-6.90	86.01	62.31	344.98	47.84	166.56	187.89	82.88	48.27	279.93	46.11	95.02	187.48
19844	-13.07	-16.49	-6.90	94.34	59.95	350.26	47.64	173.54	181.58	91.05	49.21	293.20	45.57	93.05	180.61
19845	-11.88	-17.37	-6.90	103.23	56.83	355.46	46.72	180.51	174.41	99.93	49.13	307.73	44.61	90.73	172.82
19846	-10.62	-18.17	-6.90	112.31	53.09	360.39	44.73	187.09	166.61	109.22	48.01	322.67	42.83	87.78	164.43
19847	-9.32	-18.87	-6.90	121.10	49.00	364.90	41.52	192.98	158.55	118.44	46.09	337.29	39.97	84.09	155.91
19848	-7.96	-19.48	-6.90	129.15	44.85	368.93	37.04	198.02	150.66	127.07	43.64	350.98	35.89	79.62	147.82
19849	-6.57	-19.99	-6.90	136.10	40.93	372.45	31.42	202.16	143.36	134.67	41.00	363.33	30.63	74.52	140.70
19850	-5.14	-20.41	-6.90	141.68	37.52	375.46	24.84	205.40	137.05	140.88	38.45	374.07	24.37	69.03	134.99
19851	-3.69	-20.72	-6.90	145.69	34.86	377.90	17.59	207.79	132.04	145.39	36.27	382.93	17.40	63.55	131.01
19852	-2.22	-20.93	-6.90	147.91	33.13	379.67	10.09	209.35	128.55	147.95	34.67	389.61	10.20	58.71	128.85
19853	-0.74	-21.03	-6.90	148.17	32.48	380.56	3.85	210.03	126.68	148.32	33.82	393.77	4.54	55.38	128.46
19854	-17.76	-9.62	-6.90	60.00	61.65	384.13	43.35	159.24	225.72	56.59	34.82	268.31	44.67	93.28	227.59
19855	-17.06	-10.82	-6.90	65.23	61.67	386.20	43.50	165.16	221.90	63.78	36.33	275.05	45.06	91.58	223.83
19856	-16.27	-11.98	-6.90	70.48	61.82	389.00	43.22	170.28	218.27	70.47	38.42	283.79	44.80	89.94	220.15
19857	-15.40	-13.08	-6.90	75.88	61.90	392.55	42.52	175.18	214.59	76.63	41.11	294.61	43.82	88.55	216.32
19858	-14.46	-14.11	-6.90	81.51	61.84	396.74	41.59	180.28	210.45	82.45	43.99	307.58	42.43	87.58	211.91
19859	-13.44	-15.08	-6.90	87.59	61.37	401.33	40.49	185.90	205.75	88.40	46.68	322.53	40.84	87.05	206.83
19860	-12.37	-15.98	-6.90	94.07	60.44	406.12	39.16	191.80	200.26	94.65	48.97	339.01	39.09	86.86	200.81
19861	-11.23	-16.80	-6.90	100.92	58.78	410.92	37.47	197.72	194.00	101.33	50.38	356.32	37.09	86.56	193.95
19862	-10.04	-17.54	-6.90	107.84	56.63	415.48	35.10	203.36	187.24	108.20	51.04	373.60	34.54	85.88	186.58
19863	-8.80	-18.19	-6.90	114.45	54.15	419.70	31.95	208.43	180.31	114.91	51.03	390.14	31.32	84.62	179.12
19864	-7.52	-18.76	-6.90	120.42	51.55	423.51	28.02	212.80	173.60	121.07	50.53	405.20	27.36	82.66	172.07
19865	-6.20	-19.23	-6.90	125.47	49.05	426.86	23.38	216.41	167.47	126.39	49.75	418.97	22.74	80.04	165.90
19866	-4.86	-19.62	-6.90	129.42	46.87	429.70	18.22	219.27	162.22	130.61	48.84	430.56	17.61	76.89	160.96
19867	-3.49	-19.90	-6.90	132.11	45.19	431.98	12.80								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19895	-10.35	-20.23	-8.30	115.50	42.62	320.71	54.25	194.56	121.85	112.11	42.10	297.66	53.01	117.12	106.43
19896	-8.85	-20.93	-8.30	126.76	35.88	325.84	49.59	200.69	107.11	124.25	36.14	308.56	48.90	107.63	91.89
19897	-7.30	-21.52	-8.30	136.53	29.50	330.26	43.03	205.46	92.59	135.11	30.23	318.99	42.77	96.25	78.81
19898	-5.72	-21.99	-8.30	144.54	23.92	334.12	34.88	209.02	78.88	144.26	24.88	328.73	34.86	83.76	67.83
19899	-4.11	-22.35	-8.30	150.63	19.50	337.57	25.56	211.53	66.76	151.43	20.47	337.62	25.60	71.24	59.51
19900	-2.47	-22.59	-8.30	154.58	16.49	340.42	15.56	213.15	57.34	156.36	17.31	345.27	15.57	60.46	54.26
19901	-0.83	-22.71	-8.30	155.96	15.07	342.06	5.81	213.93	52.04	158.61	15.61	350.82	6.20	54.64	52.24
19902	-19.60	-9.70	-8.30	42.14	65.45	324.46	38.70	125.51	228.07	36.23	54.82	267.14	42.62	104.35	226.28
19903	-18.85	-11.08	-8.30	46.90	65.08	329.53	41.96	136.12	222.35	44.34	54.81	266.24	46.53	107.21	220.03
19904	-18.01	-12.41	-8.30	51.87	64.96	335.01	44.33	144.98	216.00	52.44	54.97	268.66	49.12	109.32	213.06
19905	-17.08	-13.67	-8.30	57.09	64.90	340.99	45.89	152.84	208.73	59.99	55.60	273.98	50.21	111.09	205.05
19906	-16.06	-14.85	-8.30	62.93	64.58	347.49	47.09	160.83	200.61	66.98	56.61	281.86	50.31	112.87	196.03
19907	-14.95	-15.97	-8.30	69.92	63.61	354.35	48.24	169.59	191.50	74.00	57.45	292.32	50.14	114.47	185.87
19908	-13.77	-17.00	-8.30	78.32	61.60	361.27	49.21	178.95	181.10	81.81	57.44	305.18	50.03	115.31	174.35
19909	-12.52	-17.94	-8.30	87.95	58.35	367.92	49.48	188.27	169.33	90.75	56.08	319.70	49.66	114.68	161.53
19910	-11.20	-18.79	-8.30	98.20	54.02	374.03	48.50	196.91	156.48	100.59	53.33	334.86	48.42	112.14	147.90
19911	-9.83	-19.55	-8.30	108.30	48.99	379.44	45.92	204.44	143.09	110.70	49.53	349.70	45.81	107.64	134.16
19912	-8.41	-20.20	-8.30	117.63	43.75	384.12	41.70	210.73	129.75	120.39	45.18	363.56	41.64	101.44	121.08
19913	-6.94	-20.76	-8.30	125.73	38.74	388.14	35.96	215.78	117.04	129.10	40.73	376.06	35.95	94.02	109.34
19914	-5.43	-21.20	-8.30	132.32	34.32	391.62	28.96	218.66	105.62	136.46	36.57	387.04	28.99	86.05	99.60
19915	-3.90	-21.54	-8.30	137.26	30.78	394.63	21.06	222.52	96.20	142.25	33.00	396.38	21.19	78.39	92.41
19916	-2.35	-21.76	-8.30	140.35	28.38	397.03	12.76	224.44	89.49	146.27	30.32	403.75	13.47	72.23	88.06
19917	-0.78	-21.87	-8.30	141.26	27.27	398.38	5.16	225.43	85.99	148.21	28.71	408.54	8.56	69.11	86.56
19918	-18.68	-9.66	-8.30	47.64	58.58	390.48	41.17	152.05	242.44	49.48	48.74	272.58	46.36	95.00	241.96
19919	-17.95	-10.95	-8.30	52.01	58.84	392.80	43.03	160.31	236.89	58.00	48.98	279.73	48.96	97.19	236.18
19920	-17.14	-12.19	-8.30	56.32	59.66	396.08	44.00	166.80	231.22	65.95	49.96	289.26	50.21	98.64	230.21
19921	-16.24	-13.37	-8.30	60.61	60.82	400.53	44.14	172.57	225.06	72.87	51.96	300.93	49.96	99.93	223.68
19922	-15.26	-14.48	-8.30	65.21	61.94	405.99	43.94	178.79	218.18	78.81	54.60	314.71	48.77	101.54	216.32
19923	-14.20	-15.53	-8.30	70.68	62.45	412.06	43.77	186.05	210.23	84.44	57.08	330.61	47.34	103.47	207.80
19924	-13.07	-16.49	-8.30	77.29	61.97	418.32	43.53	194.11	200.92	90.46	58.68	348.21	45.93	105.23	197.84
19925	-11.88	-17.37	-8.30	84.91	60.27	424.38	42.85	202.33	190.26	97.24	58.95	366.64	44.32	106.15	186.51
19926	-10.62	-18.17	-8.30	93.05	57.52	429.96	41.27	210.08	178.67	104.64	57.88	384.86	42.08	105.78	174.37
19927	-9.32	-18.87	-8.30	101.07	54.08	434.93	38.50	216.97	166.76	112.21	55.81	402.05	38.86	104.02	162.14
19928	-7.96	-19.48	-8.30	108.45	50.37	439.24	34.53	222.81	155.14	119.46	53.15	417.66	34.59	101.00	150.53
19929	-6.57	-19.99	-8.30	114.82	46.74	442.94	29.44	227.58	144.38	125.98	50.23	431.38	29.35	97.04	140.20
19930	-5.14	-20.41	-8.30	119.94	43.48	446.08	23.44	231.33	135.03	131.48	47.34	443.02	23.45	92.60	131.73
19931	-3.69	-20.72	-8.30	123.67	40.85	448.67	16.83	234.15	127.62	135.82	44.72	452.45	17.52	88.24	125.54
19932	-2.22	-20.93	-8.30	125.85	39.06	450.63	10.02	236.09	122.54	138.86	42.59	459.42	12.99	84.63	121.84
19933	-0.74	-21.03	-8.30	126.25	38.29	451.68	4.13	237.10	119.96	140.45	41.16	463.52	12.36	82.54	120.55
19934	-17.76	-9.62	-8.30	51.09	52.37	446.33	44.72	181.68	256.32	66.47	43.17	293.57	49.25	88.38	256.99
19935	-17.06	-10.82	-8.30	55.49	53.20	446.72	45.40	187.17	251.08	74.50	43.85	305.06	50.58	91.06	251.67
19936	-16.27	-11.98	-8.30	59.51	54.70	448.50	45.16	191.23	246.11	81.69	45.63	318.29	50.61	92.81	246.57
19937	-15.40	-13.08	-8.30	63.15	56.68	451.83	44.07	195.06	241.08	87.56	48.71	333.36	49.20	94.52	241.32
19938	-14.46	-14.11	-8.30	66.79	58.71	456.38	42.67	199.63	235.35	92.29	52.44	350.42	47.05	96.74	235.32
19939	-13.44	-15.08	-8.30	71.05	60.20	461.64	41.28	205.43	228.66	96.64	55.98	369.35	44.69	99.61	228.27
19940	-12.37	-15.98	-8.30	76.12	60.89	467.16	39.84	212.01	220.59	101.14	58.78	389.57	42.25	102.60	219.74
19941	-11.23	-16.80	-8.30	81.92	60.42	472.58	38.12	218.79	211.23	106.11	60.31	410.13	39.63	104.99	209.88
19942	-10.04	-17.54	-8.30	88.07	59.02	477.60	35.76	225.28	201.12	111.43	60.70	430.00	36.50	106.99	199.31
19943	-8.80	-18.19	-8.30	94.07	56.98	482.11	32.61	231.09	190.84	116.78	60.19	448.45	32.73	106.64	188.67
19944	-7.52	-18.76	-8.30	99.52	54.60	486.06	28.64	236.06	180.96	121.84	59.05	464.98	28.35	105.77	178.64
19945	-6.20	-19.23	-8.30	104.14	52.19	489.44	23.97	240.18	171.98	126.33	57.54	479.29	23.59	103.98	169.77
19946	-4.86	-19.62	-8.30	107.77	49.98	492.26	18.73	243.48	164.33	130.11	55.85	491.20	18.93	101.58	162.52
19947	-3.49	-19.90	-8.30	110.27	48.18	494.50	13.16	245.99	158.37	133.09	54.14	500.52	15.33	98.92	157.21
19948	-2.10	-20.10	-8.30	111.55	46.96	496.09	7.56	247.73	154.32	135.23	52.58	507.08	14.33	96.40	153.95
19949	-0.70	-20.20	-8.30	111.47	46.49	496.90	2.93	248.62	152.26	136.50	51.35	510.59	16.57	94.46	152.70
19950	11.67	-9.50	-2.70	60.91	51.37	399.73	30.35	222.51	211.02	225.95	42.75	317.09	94.82	76.41	207.49
19951	12.71	-9.45	-2.70	64.94	50.09	406.41	33.47	209.56	208.19	247.30	52.45	344.84	102.50	83.02	205.39
19952	13.75	-9.40	-2.70	68.93	68.31	410.03	37.25	196.69	205.05	275.05	65.42	382.58	111.17	87.09	207.57
19953	11.86	-10.51	-2.70	53.80	60.89	407.82	36.60	209.12	204.77	218.02	51.08	321.92	102.54	65.65	200.76
19954	12.77	-10.36	-2.70	56.32	68.52	411.50	39.84	197.78	203.90	240.16	60.43	337.87	111.06	73.01	201.68
19955	13.67	-10.20	-2.70	59.07	77.63	412.99	43.49	186.53	202.95	267.47	73.14	362.28	120.89	82.96	206.22
19956	12.05	-11.51	-2.70	48.01	73.01	415.78	42.98	195.40	197.11	213.02	63.16	327.63	102.56	79.13	194.89
19957	12.82	-11.26	-2.70	49.14	79.80	416.79	45.38	186.15	197.75	235.52	71.50	333.52	111.37	86.57	198.90
19958	13.59	-10.99	-2.70	50.72	88.51	416.50	48.23	176.77	198.53	263.93	83.56	346.76	120.87	98.03	205.71
19959	0.56	-9.90	-2.70	39.42	16.75	301.67	11.87	305.38	238.82	62.48	21.54	354.44	28.74	67.85	240.61
19960	1.69	-9.89	-2.70	38.74	17.01	305.03	13.28	303.72	236.28	70.40	20.36	351.68	32.53	62.63	238.15
19961	2.81	-9.87	-2.70	38.60	18.20	311.19	14.89	300.42	233.61	80.88	19.62	347.24	37.04	56.80	235.47
19962	3.93	-9.85	-2.70	39.09	20.21	319.77	16.58	295.48	230.86	93.80	19.43	341.05	42.28	50.73	232.58
19963	5.05	-9.82	-2.70	40.31	22.90	330.29	18.26	288.93	228.03	108.93	19.89	333.18	48.25	45.11	229.47
19964	6.17	-9.78	-2.70	42.29	26.17	342.15	19.94	280.81	225.16	125.98	21.10	323.91	54.95	41.24	226.15
19965	7.28	-9.74	-2.70	45.03	29.96	354.74									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
19993	5.58	-14.75	-2.70	59.01	48.82	414.43	41.84	243.25	173.85	112.56	47.33	431.43	45.82	62.98	171.41
19994	6.78	-14.48	-2.70	56.36	53.65	417.29	43.00	235.02	175.75	123.17	50.83	417.02	52.08	67.99	172.65
19995	7.97	-14.16	-2.70	53.93	59.25	420.03	44.26	225.59	178.00	136.55	55.06	399.85	59.20	73.86	174.59
19996	9.13	-13.80	-2.70	51.77	65.61	422.42	45.64	215.17	180.49	152.97	60.21	380.83	67.24	80.51	177.37
19997	10.27	-13.38	-2.70	49.98	72.80	424.19	47.19	203.96	183.09	172.88	66.63	361.66	76.27	88.09	181.26
19998	11.37	-12.92	-2.70	48.69	81.03	424.99	48.94	192.20	185.74	197.00	74.89	345.23	86.46	97.13	186.87
19999	0.65	-17.08	-2.70	85.79	60.21	448.35	57.84	246.36	147.58	111.01	63.77	500.17	27.18	44.49	148.01
20000	1.94	-17.01	-2.70	82.29	60.73	448.86	58.50	243.74	147.47	111.55	65.25	500.02	29.91	44.67	147.82
20001	3.22	-16.87	-2.70	78.85	62.49	449.35	59.06	239.72	148.73	113.96	67.50	496.02	33.14	48.50	148.81
20002	4.50	-16.66	-2.70	75.51	65.41	449.76	59.49	234.34	151.12	118.64	70.45	488.07	36.94	55.18	150.91
20003	5.75	-16.39	-2.70	72.32	69.40	449.99	59.80	227.69	154.40	126.05	74.10	476.09	41.40	63.75	154.12
20004	6.99	-16.04	-2.70	69.32	74.34	449.93	60.01	219.84	158.31	136.62	78.51	460.13	46.63	73.47	158.45
20005	8.20	-15.64	-2.70	66.58	80.14	449.42	60.14	210.93	162.56	150.86	83.80	440.45	52.79	83.94	163.93
20006	9.38	-15.17	-2.70	64.12	86.75	448.27	60.25	201.13	166.91	169.31	90.22	417.70	60.10	94.99	170.68
20007	10.52	-14.63	-2.70	61.99	94.13	446.19	60.39	190.66	171.16	192.73	98.19	393.20	68.89	106.65	178.97
20008	11.63	-14.04	-2.70	60.18	102.32	442.81	60.63	179.72	175.18	222.13	108.26	369.40	79.62	119.34	189.30
20009	0.67	-18.88	-2.70	106.88	110.15	470.43	106.67	210.39	157.39	136.95	121.69	520.60	31.99	27.13	164.37
20010	2.00	-18.79	-2.70	103.05	110.22	469.75	106.66	208.18	157.42	136.69	123.89	521.82	32.69	24.68	165.77
20011	3.33	-18.62	-2.70	99.99	111.56	468.16	105.51	205.03	158.35	139.11	126.89	518.54	33.82	27.99	168.13
20012	4.64	-18.37	-2.70	97.66	114.09	465.63	103.62	200.98	160.10	144.76	130.74	510.52	35.58	35.58	171.47
20013	5.93	-18.03	-2.70	95.98	117.63	462.14	101.09	196.11	162.50	154.27	135.47	497.62	38.19	45.48	175.73
20014	7.20	-17.61	-2.70	94.78	121.96	457.67	98.02	190.50	165.31	168.29	141.15	479.77	41.92	56.72	180.80
20015	8.43	-17.11	-2.70	93.85	126.87	452.15	94.58	184.30	168.30	187.45	147.91	457.11	47.08	69.04	186.63
20016	9.63	-16.54	-2.70	92.96	132.15	445.49	90.93	177.67	171.25	212.33	155.94	430.12	54.13	82.54	193.16
20017	10.78	-15.88	-2.70	91.82	137.60	437.49	87.28	170.79	173.94	243.53	165.53	399.92	63.67	97.47	200.39
20018	11.89	-15.16	-2.70	90.14	143.11	427.79	83.95	164.01	176.27	281.78	177.18	368.60	76.61	113.92	208.69
20019	16.80	-9.56	-2.70	82.34	143.73	365.18	71.33	149.01	193.78	550.32	199.11	404.80	223.19	218.76	282.74
20020	16.19	-10.65	-2.70	61.98	154.05	356.57	71.17	133.29	184.09	511.74	219.88	356.88	206.60	210.42	266.76
20021	15.51	-11.70	-2.70	68.08	155.42	372.25	74.25	138.65	179.28	479.69	223.10	327.41	178.78	198.19	249.95
20022	15.78	-9.48	-2.70	76.09	101.26	403.88	52.78	167.82	197.35	396.91	116.84	441.02	161.00	139.45	249.60
20023	15.36	-10.44	-2.70	57.42	116.70	407.22	57.55	152.82	197.51	374.22	131.43	392.28	159.39	151.69	246.39
20024	14.89	-11.36	-2.70	52.79	124.50	412.94	59.58	148.12	190.09	358.67	143.33	357.68	144.50	162.59	239.42
20025	14.77	-9.41	-2.70	72.04	81.46	409.62	43.05	182.36	201.35	319.75	85.47	418.69	126.77	97.96	220.28
20026	14.53	-10.23	-2.70	59.38	92.16	412.20	49.29	171.95	201.18	310.06	93.39	383.93	135.49	105.94	218.92
20027	14.27	-11.03	-2.70	50.76	102.18	415.82	52.81	164.40	196.45	297.57	103.54	357.30	130.17	121.31	218.13
20028	12.91	-14.38	-2.70	87.43	148.12	416.69	81.18	157.85	178.17	326.19	190.31	340.96	93.92	132.78	216.60
20029	12.60	-13.43	-2.70	58.42	110.07	438.07	60.79	169.64	178.90	254.35	119.04	351.46	92.08	132.33	200.05
20030	12.30	-12.48	-2.70	48.04	88.85	424.60	50.56	181.85	188.22	222.25	83.70	336.39	96.70	106.83	193.40
20031	13.85	-13.56	-2.70	82.55	152.00	403.86	78.75	151.63	179.09	373.85	203.74	321.80	115.18	153.31	225.85
20032	13.44	-12.81	-2.70	56.49	116.61	431.42	60.81	161.01	182.00	288.43	129.46	341.79	106.82	144.05	212.15
20033	13.05	-12.07	-2.70	47.89	95.48	422.99	51.84	173.65	190.33	248.08	92.36	335.18	107.34	114.92	200.99
20034	14.73	-12.67	-2.70	76.26	155.53	387.98	76.96	145.31	179.49	427.60	218.96	315.18	142.89	174.52	236.89
20035	14.25	-12.15	-2.70	55.04	123.96	422.15	61.11	152.72	185.04	329.50	142.84	342.34	125.25	156.48	226.63
20036	13.77	-11.64	-2.70	48.53	101.90	419.96	53.19	165.60	192.16	278.70	101.92	341.74	120.71	125.23	211.45
20037	11.67	-9.50	-4.10	54.65	41.04	439.65	19.24	239.91	225.09	29.32	21.97	344.95	37.67	66.25	222.31
20038	12.71	-9.45	-4.10	62.07	47.16	445.45	20.67	224.28	220.08	29.72	32.04	363.87	38.71	71.83	217.00
20039	13.75	-9.40	-4.10	70.26	54.21	446.00	22.59	207.91	213.85	32.32	46.21	385.31	40.65	76.60	213.13
20040	11.86	-10.51	-4.10	54.13	48.07	446.63	22.03	225.27	216.50	43.90	29.00	349.31	40.64	62.75	212.74
20041	12.77	-10.36	-4.10	60.22	53.54	448.55	23.60	212.18	213.36	45.88	39.01	358.67	41.54	68.05	210.11
20042	13.67	-10.20	-4.10	67.22	59.74	446.52	25.33	198.85	209.40	48.94	52.86	371.04	43.50	74.06	208.67
20043	12.05	-11.51	-4.10	55.57	56.30	451.54	25.81	209.90	206.42	63.23	37.78	353.27	40.39	70.61	202.72
20044	12.82	-11.26	-4.10	60.12	60.83	450.16	26.93	199.90	205.15	66.67	46.82	354.53	42.62	73.93	202.92
20045	13.59	-10.99	-4.10	65.46	65.95	445.98	28.28	189.62	203.50	70.62	60.06	358.99	45.44	79.02	203.92
20046	0.56	-9.90	-4.10	33.12	7.37	327.53	6.11	323.27	254.95	34.21	30.54	372.84	15.42	80.02	257.39
20047	1.69	-9.89	-4.10	31.59	7.69	331.34	8.09	321.95	252.77	29.70	28.79	369.56	17.07	73.16	255.44
20048	2.81	-9.87	-4.10	30.55	9.42	338.37	10.14	319.09	250.42	25.03	26.86	364.92	19.21	65.82	253.27
20049	3.93	-9.85	-4.10	30.15	12.03	348.21	12.01	314.68	247.93	21.04	24.75	358.96	21.67	58.39	250.84
20050	5.05	-9.82	-4.10	30.53	15.14	360.32	13.62	308.67	245.30	19.02	22.44	351.84	24.33	51.50	248.13
20051	6.17	-9.78	-4.10	31.85	18.60	374.07	14.93	301.04	242.52	19.79	19.94	344.00	27.09	46.20	245.07
20052	7.28	-9.74	-4.10	34.22	22.35	388.72	15.96	291.77	239.58	22.63	17.38	336.32	29.85	43.94	241.59
20053	8.39	-9.69	-4.10	37.71	26.41	403.50	16.77	280.89	236.44	25.93	15.10	330.31	32.48	45.76	237.60
20054	9.50	-9.63	-4.10	42.33	30.83	417.56	17.48	268.49	233.06	28.41	14.12	328.21	34.78	51.33	233.04
20055	10.60	-9.56	-4.10	48.05	35.69	429.99	18.24	254.70	229.35	29.42	16.17	332.60	36.58	58.94	227.91
20056	0.58	-11.69	-4.10	41.04	9.56	365.49	9.83	308.62	236.14	39.16	26.29	409.07	16.51	79.28	238.37
20057	1.75	-11.67	-4.10	39.03	10.66	368.60	11.25	307.05	234.31	35.76	24.36	406.00	18.00	73.99	236.62
20058	2.91	-11.62	-4.10	37.42	13.17	374.18	12.74	303.90	232.49	32.71	22.39	401.05	19.98	68.44	234.74
20059	4.07	-11.55	-4.10	36.31	16.47	381.89	14.15	299.15	230.68	30.62	20.42	394.22	22.32	62.91	232.73
20060	5.22	-11.46	-4.10	35.86	20.21	391.27	15.42	292.79	228.89	30.11	18.51	385.63	24.96	57.80	230.54
20061	6.37	-11.35	-4.10	36.21	24.22	401.78	16.54	284.83	227.09	31.40	16.78	375.64	27.80	53.64	228.15
20062	7.51	-11.21	-4.10	37.52	28.46	412.77	17.55	275.30	225.28	34.04	15.52	364.97	30.74	51.12	225.51
20063	8.64	-11.06													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
20091	6.99	-16.04	-4.10	76.15	45.89	471.94	39.24	221.50	169.62	96.16	23.92	470.00	21.01	66.75	168.22
20092	8.20	-15.64	-4.10	74.03	52.34	468.83	38.19	213.43	173.25	100.83	28.12	448.44	23.27	70.96	172.17
20093	9.38	-15.17	-4.10	72.34	58.67	464.38	37.15	204.62	176.78	106.96	34.21	423.92	26.35	75.13	176.54
20094	10.52	-14.63	-4.10	71.22	64.83	458.19	36.24	195.36	179.97	114.07	42.54	397.68	30.36	79.15	181.20
20095	11.63	-14.04	-4.10	70.92	70.78	449.75	35.60	185.95	182.65	121.37	53.39	371.78	35.46	83.21	186.07
20096	0.67	-18.88	-4.10	123.61	17.94	445.47	58.85	201.27	169.99	135.98	17.41	482.74	19.99	40.83	174.11
20097	2.00	-18.79	-4.10	120.10	23.29	444.63	58.76	199.94	169.92	134.08	18.71	482.16	19.87	38.83	175.10
20098	3.33	-18.62	-4.10	116.36	30.41	442.81	58.01	197.86	170.37	132.95	19.93	477.53	19.83	38.34	176.57
20099	4.64	-18.37	-4.10	112.44	38.03	439.99	56.68	195.08	171.28	132.88	21.46	468.73	20.06	39.51	178.44
20100	5.93	-18.03	-4.10	108.35	45.62	436.15	54.90	191.66	172.54	134.11	23.81	455.77	20.79	42.24	180.58
20101	7.20	-17.61	-4.10	104.13	52.91	431.28	52.80	187.68	173.99	136.81	27.54	438.70	22.28	46.26	182.85
20102	8.43	-17.11	-4.10	99.79	59.77	425.32	50.54	183.24	175.45	140.98	33.07	417.80	24.80	51.35	185.07
20103	9.63	-16.54	-4.10	95.42	66.13	418.21	48.28	178.45	176.73	146.37	40.64	393.60	28.55	57.39	187.09
20104	10.78	-15.88	-4.10	91.13	71.96	409.80	46.21	173.45	177.69	152.40	50.34	367.13	33.67	64.36	188.80
20105	11.89	-15.16	-4.10	87.04	77.18	399.90	44.57	168.40	178.23	158.02	62.17	340.11	40.09	72.12	190.28
20106	16.80	-9.56	-4.10	89.04	84.67	366.36	34.76	154.25	181.63	72.50	139.60	339.65	63.22	149.82	207.94
20107	16.19	-10.65	-4.10	83.57	89.90	357.43	40.67	148.96	185.81	109.55	136.07	314.32	65.51	125.35	206.83
20108	15.51	-11.70	-4.10	79.53	91.16	357.70	42.84	149.13	180.85	137.72	123.83	294.56	65.69	112.79	197.41
20109	15.78	-9.48	-4.10	85.97	74.63	414.61	28.87	171.53	194.65	54.06	99.86	389.73	56.86	105.85	212.21
20110	15.36	-10.44	-4.10	80.67	79.54	412.37	32.54	165.48	194.76	84.16	102.27	361.72	57.64	100.42	209.00
20111	14.89	-11.36	-4.10	76.95	83.46	410.50	35.02	162.39	190.58	112.02	100.70	338.21	57.46	99.30	203.29
20112	14.77	-9.41	-4.10	78.50	63.41	438.31	25.28	189.63	205.45	39.82	67.84	399.13	46.43	84.75	212.13
20113	14.53	-10.23	-4.10	74.00	68.36	437.61	28.11	182.68	203.24	60.82	72.98	376.64	48.43	84.27	208.60
20114	14.27	-11.03	-4.10	71.13	73.35	435.89	30.79	177.15	198.66	83.52	76.98	357.53	48.82	85.93	204.30
20115	12.91	-14.38	-4.10	83.32	81.55	389.52	43.66	163.50	178.56	161.59	76.15	316.42	47.59	81.33	190.79
20116	12.60	-13.43	-4.10	71.48	75.77	440.22	35.32	177.74	184.89	126.71	65.79	351.11	41.28	87.37	190.15
20117	12.30	-12.48	-4.10	61.02	65.80	452.58	30.25	193.66	195.16	91.00	50.69	356.43	40.15	82.70	194.05
20118	13.85	-13.56	-4.10	80.31	85.55	378.67	43.24	158.66	178.64	160.72	91.23	299.06	54.68	91.07	191.73
20119	13.44	-12.81	-4.10	72.41	79.74	429.67	35.38	171.09	186.50	128.07	78.13	337.38	46.96	91.12	194.07
20120	13.05	-12.07	-4.10	64.03	69.84	447.27	30.77	185.79	195.78	93.76	60.57	350.63	43.81	84.63	196.84
20121	14.73	-12.67	-4.10	78.95	88.97	366.48	43.33	153.66	178.97	154.34	107.93	289.98	61.00	100.03	193.33
20122	14.25	-12.15	-4.10	74.48	83.34	416.76	35.83	164.98	187.79	125.93	92.49	330.30	52.70	94.98	198.10
20123	13.77	-11.64	-4.10	68.01	73.52	439.43	31.37	178.20	195.78	95.00	71.05	349.11	47.95	87.61	200.19
20124	11.67	-9.50	-5.50	62.89	34.99	478.50	16.19	262.08	244.96	182.76	7.02	370.58	26.11	60.69	243.49
20125	12.71	-9.45	-5.50	73.92	40.15	483.82	16.46	245.42	239.43	209.79	10.23	383.21	30.14	67.97	237.22
20126	13.75	-9.40	-5.50	85.90	46.04	482.21	17.60	227.46	232.64	241.20	23.61	394.54	35.33	77.88	231.41
20127	11.86	-10.51	-5.50	63.46	42.05	484.16	13.90	247.06	236.26	157.01	10.39	375.01	25.30	68.48	233.83
20128	12.77	-10.36	-5.50	72.33	46.14	484.53	14.80	233.43	232.49	178.62	18.91	379.25	29.72	74.90	230.04
20129	13.67	-10.20	-5.50	81.85	50.65	479.62	16.51	219.26	227.87	204.05	31.23	383.41	35.43	83.39	226.71
20130	12.05	-11.51	-5.50	65.40	49.78	485.34	13.53	231.40	226.76	128.62	20.05	377.10	24.68	79.29	224.02
20131	12.82	-11.26	-5.50	71.80	52.55	481.74	14.83	221.34	224.90	145.79	27.34	374.44	29.01	83.76	222.91
20132	13.59	-10.99	-5.50	78.65	55.43	474.60	16.75	210.66	222.52	167.25	38.29	372.68	33.73	91.17	221.99
20133	0.56	-9.90	-5.50	31.16	7.08	352.28	3.76	340.06	272.78	109.62	47.06	390.47	3.48	97.73	275.55
20134	1.69	-9.89	-5.50	29.36	7.07	356.49	6.66	339.13	270.97	109.96	45.93	387.02	6.83	89.75	274.12
20135	2.81	-9.87	-5.50	28.27	8.25	364.31	9.40	336.90	269.02	110.14	44.40	382.60	9.94	81.51	272.52
20136	3.93	-9.85	-5.50	28.04	10.27	375.31	11.77	333.29	266.94	110.64	42.42	377.30	12.67	73.35	270.69
20137	5.05	-9.82	-5.50	28.78	12.83	388.95	13.71	328.22	264.71	112.02	39.91	371.34	14.97	65.71	268.57
20138	6.17	-9.78	-5.50	30.63	15.74	404.52	15.16	321.57	262.29	114.98	36.77	365.20	16.84	59.16	266.07
20139	7.28	-9.74	-5.50	33.79	18.95	421.22	16.09	313.23	259.65	120.35	32.84	359.73	18.36	54.40	263.04
20140	8.39	-9.69	-5.50	38.47	22.44	438.11	16.54	303.09	256.71	129.01	27.93	356.17	19.68	52.11	259.35
20141	9.50	-9.63	-5.50	44.85	26.24	454.14	16.57	291.13	253.38	141.90	21.82	356.06	21.10	52.60	254.87
20142	10.60	-9.56	-5.50	53.08	30.39	468.10	16.36	277.35	249.54	159.83	14.34	360.82	23.08	55.63	249.58
20143	0.58	-11.69	-5.50	37.07	10.28	393.95	3.44	324.16	256.14	95.53	41.94	430.49	3.25	96.80	258.70
20144	1.75	-11.67	-5.50	35.09	11.24	397.38	5.97	323.02	254.63	95.30	40.27	427.09	5.93	90.36	257.42
20145	2.91	-11.62	-5.50	33.76	13.35	403.62	8.18	320.53	253.09	94.93	38.23	422.10	8.51	83.82	256.02
20146	4.07	-11.55	-5.50	33.19	16.17	412.31	10.01	316.64	251.52	94.83	35.78	415.60	10.75	77.45	254.45
20147	5.22	-11.46	-5.50	33.50	19.38	422.97	11.43	311.27	249.92	95.54	32.87	407.73	12.61	71.58	252.68
20148	6.37	-11.35	-5.50	34.84	22.82	434.96	12.43	304.33	248.23	97.70	29.40	398.90	14.14	66.61	250.61
20149	7.51	-11.21	-5.50	37.45	26.41	447.53	13.03	295.77	246.43	102.06	25.24	389.81	15.48	62.98	248.15
20150	8.64	-11.06	-5.50	41.54	30.12	459.80	13.30	285.57	244.43	109.49	20.25	381.51	16.86	61.15	245.23
20151	9.75	-10.88	-5.50	47.33	33.95	470.77	13.39	273.80	242.16	120.91	14.46	375.45	18.68	61.46	241.80
20152	10.86	-10.68	-5.50	54.89	37.96	479.31	13.51	260.60	239.48	137.21	9.14	373.08	21.45	64.02	237.91
20153	0.60	-13.49	-5.50	48.17	17.47	437.68	6.59	305.44	234.40	83.52	38.90	473.10	3.44	93.30	236.23
20154	1.81	-13.45	-5.50	46.09	18.96	440.06	8.04	304.08	233.35	82.56	37.02	469.72	5.45	88.54	235.15
20155	3.02	-13.37	-5.50	44.51	21.44	444.25	9.32	301.35	232.52	81.44	34.77	463.98	7.52	83.92	234.15
20156	4.21	-13.26	-5.50	43.52	24.55	449.97	10.33	297.22	231.89	80.51	32.12	455.91	9.33	79.71	233.19
20157	5.40	-13.10	-5.50	43.22	28.02	456.83	11.05	291.64	231.42	80.20	29.03	445.63	10.84	76.14	232.22
20158	6.58	-12.91	-5.50	43.74	31.66	464.30	11.50	284.58	231.04	81.05	25.45	433.45	12.13	73.42	231.18
20159	7.74	-12.69	-5.50	45.32	35.37	471.77	11.74	276.05	230.65	83.72	21.37	419.96	13.37	71.74	230.00
20160	8.88	-12.43	-5.50	48.22	39.07	478.45	11.87	266.11	230.15	89.05	17.03	406.09	14.88	71.32	228.64
20161	10.01	-12.13	-5.50	52.66	42.74	483.49	12.07	254.91	229.41	98.02	13				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
20189	8.43	-17.11	-5.50	94.27	56.78	438.11	28.53	203.74	187.08	91.38	35.72	418.76	14.94	66.45	192.78
20190	9.63	-16.54	-5.50	86.94	59.21	431.61	28.69	198.48	189.32	84.33	34.11	396.47	14.99	72.88	195.53
20191	10.78	-15.88	-5.50	83.86	61.40	424.12	28.92	192.73	191.35	76.71	34.20	372.64	14.88	80.72	198.27
20192	11.89	-15.16	-5.50	79.29	63.33	415.65	29.38	186.59	193.04	69.27	37.10	348.81	15.28	89.95	201.16
20193	16.80	-9.56	-5.50	109.06	68.38	398.70	33.53	160.94	199.20	329.31	85.91	323.88	69.85	162.08	225.62
20194	16.19	-10.65	-5.50	90.77	68.31	392.43	33.70	160.53	202.98	236.53	82.55	315.39	69.22	152.63	225.69
20195	15.51	-11.70	-5.50	79.24	68.71	388.47	33.60	162.58	201.05	155.51	77.16	305.37	54.13	141.61	219.09
20196	15.78	-9.48	-5.50	105.20	61.00	441.92	24.94	185.03	212.68	302.40	64.64	373.06	51.30	122.10	223.23
20197	15.36	-10.44	-5.50	93.02	63.01	435.93	24.87	182.70	212.77	232.17	65.28	355.66	52.06	121.78	222.13
20198	14.89	-11.36	-5.50	83.77	65.01	429.93	25.47	181.13	210.09	167.98	64.54	340.14	45.64	119.97	218.80
20199	14.77	-9.41	-5.50	97.35	53.29	469.63	20.03	206.76	223.67	273.81	42.71	394.78	41.38	95.73	226.53
20200	14.53	-10.23	-5.50	89.80	56.56	465.08	19.40	201.90	221.21	224.26	47.41	378.34	41.83	99.64	223.63
20201	14.27	-11.03	-5.50	83.46	59.79	459.00	19.93	197.86	217.61	176.16	50.49	363.65	39.94	101.35	220.33
20202	12.91	-14.38	-5.50	75.64	64.86	407.28	30.26	180.32	194.66	65.12	44.00	328.13	17.63	101.10	203.68
20203	12.60	-13.43	-5.50	73.98	63.70	453.06	20.76	198.08	206.82	78.00	40.49	358.83	19.71	95.72	209.30
20204	12.30	-12.48	-5.50	69.51	57.65	477.53	15.61	214.76	216.83	100.18	31.60	373.82	22.63	89.31	215.39
20205	13.85	-13.56	-5.50	73.63	66.55	399.31	31.29	174.22	196.25	72.18	53.71	312.80	24.36	113.42	207.32
20206	13.44	-12.81	-5.50	75.41	64.70	443.27	22.47	191.33	207.63	93.65	48.50	345.15	26.20	103.38	211.80
20207	13.05	-12.07	-5.50	73.56	59.22	470.26	17.13	207.15	216.69	117.26	38.79	365.22	27.40	93.85	216.49
20208	14.73	-12.67	-5.50	74.20	67.96	391.41	32.77	168.03	198.06	99.83	65.72	303.90	37.11	126.04	212.18
20209	14.25	-12.15	-5.50	78.17	65.47	432.57	24.66	184.55	208.12	121.07	58.05	336.57	35.76	112.01	214.73
20210	13.77	-11.64	-5.50	78.25	60.65	460.84	19.15	199.39	215.94	140.66	45.72	359.37	33.95	100.40	217.88
20211	11.67	-9.50	-6.90	76.35	31.93	514.64	25.72	288.42	269.12	366.94	31.61	392.57	80.92	94.25	268.72
20212	12.71	-9.45	-6.90	87.68	35.91	520.90	26.04	271.87	263.98	411.98	23.76	401.06	91.48	108.04	262.68
20213	13.75	-9.40	-6.90	100.81	40.39	519.99	27.16	253.15	257.56	465.83	19.89	407.17	104.73	125.56	256.89
20214	11.86	-10.51	-6.90	73.29	39.34	519.63	22.20	273.04	261.27	328.48	24.55	397.64	84.83	105.08	259.53
20215	12.77	-10.36	-6.90	82.44	42.15	520.24	23.16	259.39	257.41	366.50	21.90	398.55	95.53	117.13	255.90
20216	13.67	-10.20	-6.90	92.73	45.24	515.68	25.05	244.58	252.68	411.42	24.11	398.40	108.82	132.00	252.25
20217	12.05	-11.51	-6.90	70.79	47.10	518.81	19.31	256.78	252.75	285.40	25.40	399.20	86.41	115.46	251.01
20218	12.82	-11.26	-6.90	77.59	48.45	515.36	20.91	246.60	250.45	317.64	26.51	394.34	96.82	125.14	249.31
20219	13.59	-10.99	-6.90	85.35	49.91	508.86	23.09	235.19	247.43	356.92	31.31	389.68	108.17	138.51	247.70
20220	0.56	-9.90	-6.90	36.76	16.28	374.40	9.05	354.47	290.96	200.49	65.74	406.17	17.02	120.40	293.74
20221	1.69	-9.89	-6.90	35.88	16.11	378.91	11.34	353.99	289.57	205.65	65.55	402.88	22.48	111.93	292.82
20222	2.81	-9.87	-6.90	36.36	16.27	387.33	14.23	352.57	288.12	211.36	64.86	398.98	28.17	103.62	291.85
20223	3.93	-9.85	-6.90	38.05	16.80	399.27	17.13	350.12	286.61	218.19	63.60	394.57	33.92	95.83	290.75
20224	5.05	-9.82	-6.90	40.64	17.71	414.18	19.74	346.47	285.01	226.81	61.71	389.90	39.67	88.95	289.45
20225	6.17	-9.78	-6.90	43.91	19.03	431.36	21.92	341.43	283.28	238.01	59.08	385.40	45.44	83.41	287.80
20226	7.28	-9.74	-6.90	47.86	20.77	449.95	23.59	334.76	281.34	252.72	55.59	381.76	51.32	79.70	285.64
20227	8.39	-9.69	-6.90	52.69	22.92	468.91	24.72	326.24	279.10	271.96	51.12	379.90	57.48	78.36	282.78
20228	9.50	-9.63	-6.90	58.82	25.49	487.01	25.36	315.69	276.43	296.81	45.51	380.80	64.20	79.98	279.04
20229	10.60	-9.56	-6.90	66.68	28.47	502.83	25.62	303.02	273.17	328.44	38.74	385.14	71.87	85.13	274.36
20230	0.58	-11.69	-6.90	37.91	18.90	419.12	7.61	337.76	278.30	176.15	59.72	449.28	17.54	118.54	280.81
20231	1.75	-11.67	-6.90	36.79	19.27	422.79	9.53	337.14	277.13	180.05	58.68	445.81	23.00	111.53	279.97
20232	2.91	-11.62	-6.90	36.96	20.25	429.57	11.93	335.56	275.97	184.48	57.14	441.08	28.59	104.79	279.10
20233	4.07	-11.55	-6.90	38.27	21.75	439.09	14.30	332.94	274.81	190.01	55.08	435.13	34.21	98.64	278.12
20234	5.22	-11.46	-6.90	40.44	23.67	450.86	16.39	329.13	273.60	197.30	52.44	428.16	39.88	93.41	276.95
20235	6.37	-11.35	-6.90	43.29	25.91	464.22	18.10	323.93	272.31	207.18	49.18	420.51	45.67	89.48	275.47
20236	7.51	-11.21	-6.90	46.84	28.37	478.33	19.41	317.15	270.85	220.58	45.22	412.78	51.75	87.25	273.54
20237	8.64	-11.06	-6.90	51.34	30.98	492.18	20.35	308.60	269.13	238.55	40.53	405.79	58.37	87.20	271.04
20238	9.75	-10.88	-6.90	57.16	33.69	504.57	21.01	298.22	267.05	262.26	35.11	400.51	65.88	89.92	267.89
20239	10.86	-10.68	-6.90	64.67	36.50	514.18	21.58	286.06	264.44	293.03	29.20	397.71	74.80	95.99	264.08
20240	0.60	-13.49	-6.90	44.48	27.21	466.79	4.88	318.58	260.84	150.78	56.70	495.60	17.84	114.42	262.57
20241	1.81	-13.45	-6.90	43.11	28.09	469.29	6.92	317.78	260.05	153.40	55.13	491.87	23.17	108.92	261.86
20242	3.02	-13.37	-6.90	42.74	29.59	473.77	9.10	316.00	259.46	156.49	53.05	485.95	28.52	103.80	261.27
20243	4.21	-13.26	-6.90	43.27	31.57	479.93	11.09	313.17	259.04	160.57	50.46	477.88	33.85	99.37	260.72
20244	5.40	-13.10	-6.90	44.53	33.86	487.37	12.80	309.19	258.72	166.30	47.33	467.81	39.24	95.95	260.13
20245	6.58	-12.91	-6.90	46.45	36.30	495.55	14.20	303.89	258.41	174.46	43.66	456.04	44.83	93.82	259.39
20246	7.74	-12.69	-6.90	49.07	38.76	503.75	15.30	297.13	258.00	185.97	39.48	443.12	50.87	93.31	258.40
20247	8.88	-12.43	-6.90	52.64	41.12	511.11	16.18	288.81	257.35	201.94	34.90	429.84	57.69	94.80	257.02
20248	10.01	-12.13	-6.90	57.46	43.32	516.64	16.99	278.93	256.30	223.69	30.29	417.26	65.72	98.85	255.21
20249	11.11	-11.80	-6.90	63.82	45.34	519.29	18.01	267.62	254.73	252.78	26.54	406.44	75.56	106.30	253.03
20250	0.63	-15.29	-6.90	58.37	40.80	508.16	3.67	296.88	238.90	127.66	59.43	535.64	17.34	107.42	239.52
20251	1.88	-15.23	-6.90	56.73	41.84	509.26	5.67	295.89	238.61	128.94	57.83	531.64	22.37	103.23	239.08
20252	3.12	-15.12	-6.90	55.64	43.34	511.02	7.36	293.92	238.83	130.58	55.64	524.44	27.32	99.56	239.04
20253	4.36	-14.96	-6.90	55.06	45.15	513.24	8.81	290.93	239.47	133.04	52.88	514.08	32.20	96.73	239.34
20254	5.58	-14.75	-6.90	54.95	47.08	515.64	10.08	286.86	240.43	136.88	49.55	500.70	37.11	95.03	239.88
20255	6.78	-14.48	-6.90	55.31	48.97	517.84	11.19	281.63	241.56	142.81	45.73	484.59	42.24	94.72	240.55
20256	7.97	-14.16	-6.90	56.22	50.67	519.36	12.19	275.14	242.67	151.75	41.58	466.30	47.91	96.05	241.20
20257	9.13	-13.80	-6.90	57.90	52.07	519.64	13.14	267.37	243.52	164.85	37.42	446.69	54.52	99.32	241.70
20258	10.27	-13.38	-6.90	60.61	53.12	518.06	14.23	258.36	243.89	183.57	33.97	426.93	62.65	105.03	241.94
20259	11.37	-12.92	-6.90	64.63	53.87	514									



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
20287	14.53	-10.23	-6.90	101.75	49.47	502.47	27.82	225.01	245.66	451.24	33.49	390.29	125.12	154.39	248.98
20288	14.27	-11.03	-6.90	89.80	52.83	494.95	25.86	220.82	241.96	376.89	40.06	379.41	122.18	153.37	245.80
20289	12.91	-14.38	-6.90	68.35	62.09	448.23	23.00	200.16	215.87	156.52	50.67	357.86	70.19	138.83	224.24
20290	12.60	-13.43	-6.90	68.62	59.45	485.56	18.77	219.90	231.00	197.45	43.46	381.10	79.00	131.95	233.26
20291	12.30	-12.48	-6.90	69.40	54.24	508.60	17.66	238.80	242.90	240.33	34.02	394.62	83.88	124.59	241.97
20292	13.85	-13.56	-6.90	69.21	61.69	442.43	25.13	193.51	218.72	197.75	56.93	342.73	90.07	156.85	231.01
20293	13.44	-12.81	-6.90	72.13	58.85	478.18	21.54	212.69	231.62	237.50	47.24	367.80	94.81	145.77	236.33
20294	13.05	-12.07	-6.90	74.50	54.29	502.44	19.95	230.90	242.03	274.97	36.64	385.16	95.66	134.87	242.41
20295	14.73	-12.67	-6.90	74.41	61.27	437.66	28.84	186.96	221.26	260.35	65.44	332.95	117.03	176.20	239.08
20296	14.25	-12.15	-6.90	78.32	58.25	470.79	25.36	205.31	231.81	291.53	52.63	358.57	115.13	160.99	240.19
20297	13.77	-11.64	-6.90	80.99	54.27	494.99	23.12	222.49	240.69	318.33	39.07	377.88	110.45	147.56	243.52
20298	11.67	-9.50	-8.30	98.09	30.47	548.00	40.84	317.47	295.07	527.70	59.80	410.93	138.02	157.46	295.38
20299	12.71	-9.45	-8.30	106.50	32.56	557.15	41.37	302.31	290.95	582.93	51.37	417.02	153.44	180.42	290.30
20300	13.75	-9.40	-8.30	117.53	35.05	560.02	42.34	284.43	285.43	649.88	43.09	421.31	172.44	207.62	285.52
20301	11.86	-10.51	-8.30	90.18	35.78	554.20	37.73	301.65	288.41	477.73	46.01	417.90	144.65	164.91	287.82
20302	12.77	-10.36	-8.30	97.04	37.38	557.31	38.80	288.87	284.88	524.91	40.58	417.29	159.80	184.66	284.11
20303	13.67	-10.20	-8.30	105.79	39.24	556.06	40.50	274.61	280.41	580.79	35.95	415.82	178.25	207.80	280.97
20304	12.05	-11.51	-8.30	81.74	41.99	554.89	34.79	284.41	280.97	422.18	36.91	421.60	147.28	170.92	279.97
20305	12.82	-11.26	-8.30	87.31	42.54	553.69	36.35	274.74	278.50	462.71	35.19	416.02	161.80	187.10	278.18
20306	13.59	-10.99	-8.30	94.60	43.46	550.05	38.17	263.60	275.17	511.91	34.67	410.55	177.32	207.48	276.58
20307	0.56	-9.90	-8.30	49.52	26.21	392.97	15.61	364.74	307.26	297.27	84.96	419.20	33.25	146.97	309.77
20308	1.69	-9.89	-8.30	50.32	26.05	397.62	18.12	364.77	306.31	306.26	85.93	416.28	41.52	138.65	309.36
20309	2.81	-9.87	-8.30	53.43	25.92	406.38	21.62	364.36	305.46	316.38	86.31	413.07	50.45	131.07	309.05
20310	3.93	-9.85	-8.30	58.15	25.85	418.91	25.41	363.38	304.68	328.19	86.04	409.64	59.84	124.67	308.80
20311	5.05	-9.82	-8.30	63.70	25.87	434.73	29.08	361.66	303.96	342.37	85.05	406.20	69.59	119.91	308.50
20312	6.17	-9.78	-8.30	69.43	26.02	453.19	32.41	358.92	303.22	359.69	83.26	403.09	79.65	117.28	308.00
20313	7.28	-9.74	-8.30	74.96	26.34	473.49	35.23	354.79	302.39	381.08	80.58	400.84	90.03	117.35	307.11
20314	8.39	-9.69	-8.30	80.21	26.90	494.57	37.48	348.86	301.35	407.53	76.90	400.10	100.81	120.72	306.61
20315	9.50	-9.63	-8.30	85.45	27.74	515.11	39.12	340.77	299.93	440.13	72.12	401.48	112.14	128.09	303.25
20316	10.60	-9.56	-8.30	91.24	28.92	533.54	40.20	330.28	297.92	480.15	66.20	405.24	124.40	140.22	299.87
20317	0.58	-11.69	-8.30	46.26	26.42	439.68	14.64	347.10	299.57	264.40	76.81	464.32	35.43	143.09	301.77
20318	1.75	-11.67	-8.30	46.95	26.47	443.51	16.71	347.09	298.79	271.30	76.59	461.03	43.91	136.14	301.39
20319	2.91	-11.62	-8.30	49.95	26.75	450.63	19.72	346.69	298.13	279.32	75.76	456.76	52.92	130.03	301.10
20320	4.07	-11.55	-8.30	54.47	27.27	460.75	23.01	345.77	297.54	289.05	74.28	451.54	62.30	125.18	300.83
20321	5.22	-11.46	-8.30	59.66	28.03	473.42	26.21	344.15	296.98	301.23	72.12	445.52	72.04	121.99	300.46
20322	6.37	-11.35	-8.30	64.86	29.00	488.05	29.11	341.51	296.38	316.72	69.27	439.01	82.17	120.92	299.85
20323	7.51	-11.21	-8.30	69.71	30.16	503.82	31.61	337.46	295.63	336.52	65.70	432.49	92.79	122.41	298.82
20324	8.64	-11.06	-8.30	74.24	31.45	519.71	33.66	331.58	294.60	361.69	61.43	426.60	104.08	127.01	297.17
20325	9.75	-10.88	-8.30	78.82	32.84	534.38	35.30	323.56	293.15	393.44	56.48	421.98	116.33	135.38	294.76
20326	10.86	-10.68	-8.30	84.12	34.31	546.41	36.64	313.32	291.11	433.15	50.94	419.03	130.04	148.34	291.53
20327	0.60	-13.49	-8.30	45.71	30.51	491.05	11.39	328.01	287.08	229.16	70.18	514.11	37.28	137.69	288.54
20328	1.81	-13.45	-8.30	46.02	30.97	493.65	13.48	327.85	286.60	234.14	69.01	510.30	45.62	132.10	288.21
20329	3.02	-13.37	-8.30	48.35	31.84	498.38	16.39	327.29	286.35	240.17	67.20	504.53	54.29	127.38	288.08
20330	4.21	-13.26	-8.30	52.02	33.02	504.98	19.53	326.23	286.30	247.87	64.76	496.84	63.22	123.96	288.05
20331	5.40	-13.10	-8.30	56.27	34.44	513.11	22.57	324.47	286.34	257.97	61.68	487.34	72.46	122.23	288.02
20332	6.58	-12.91	-8.30	60.49	35.97	522.26	25.35	321.72	286.38	271.36	58.01	476.30	82.16	122.58	287.82
20333	7.74	-12.69	-8.30	64.38	37.51	531.79	27.77	317.63	286.27	289.06	53.81	464.22	92.55	125.42	287.28
20334	8.88	-12.43	-8.30	68.01	38.93	540.83	29.82	311.80	285.80	312.24	49.21	451.80	103.95	131.22	286.22
20335	10.01	-12.13	-8.30	71.80	40.16	548.33	31.56	304.01	284.80	342.19	44.44	439.89	116.78	140.66	284.49
20336	11.11	-11.80	-8.30	76.43	41.19	553.20	33.22	294.25	283.10	380.49	39.84	429.27	131.69	154.81	282.17
20337	0.63	-15.29	-8.30	51.34	39.42	536.48	7.35	308.23	267.65	193.65	66.75	557.84	37.56	130.73	268.18
20338	1.88	-15.23	-8.30	50.92	40.18	537.66	9.78	307.84	267.55	197.05	65.05	553.51	45.39	126.37	268.01
20339	3.12	-15.12	-8.30	51.84	41.34	539.65	12.80	306.95	267.90	201.40	62.73	546.21	53.35	122.87	268.23
20340	4.36	-14.96	-8.30	53.73	42.76	542.25	15.91	305.50	268.64	207.28	59.82	535.97	61.45	120.67	268.78
20341	5.58	-14.75	-8.30	56.09	44.29	545.22	18.92	303.34	269.67	215.36	56.40	522.93	69.82	120.20	269.54
20342	6.78	-14.48	-8.30	58.51	45.75	548.24	21.71	300.25	270.85	226.49	52.54	507.34	78.70	121.83	270.38
20343	7.97	-14.16	-8.30	60.78	46.99	550.88	24.20	295.94	271.98	241.67	48.42	489.73	88.43	125.95	271.13
20344	9.13	-13.80	-8.30	62.99	47.89	552.63	26.34	290.13	272.81	262.06	44.30	470.91	99.50	132.98	271.61
20345	10.27	-13.38	-8.30	65.53	48.37	552.86	28.22	282.64	273.03	289.10	40.64	451.94	112.49	143.54	271.65
20346	11.37	-12.92	-8.30	69.02	48.50	551.02	30.08	273.56	272.38	324.60	38.18	434.04	128.10	158.54	271.26
20347	0.65	-17.08	-8.30	65.84	48.94	558.95	4.73	287.66	238.92	161.86	65.21	578.14	34.76	121.16	238.91
20348	1.94	-17.01	-8.30	64.53	49.80	558.88	7.76	286.99	239.26	164.01	63.52	573.66	41.69	118.00	239.13
20349	3.22	-16.87	-8.30	63.58	50.98	558.51	10.92	285.67	240.32	166.93	61.35	565.55	48.66	115.73	240.01
20350	4.50	-16.66	-8.30	62.93	52.33	557.73	14.00	283.69	242.06	171.10	58.78	553.87	55.74	114.85	241.52
20351	5.75	-16.39	-8.30	62.44	53.67	556.42	16.94	280.99	244.41	177.11	55.92	538.77	63.09	115.78	243.59
20352	6.99	-16.04	-8.30	61.98	54.83	554.45	19.65	277.43	247.22	185.73	52.90	520.53	70.99	118.89	246.14
20353	8.20	-15.64	-8.30	61.55	55.65	551.66	22.06	272.83	250.27	197.87	49.91	499.65	79.85	124.51	249.03
20354	9.38	-15.17	-8.30	61.30	55.98	547.87	24.11	267.04	253.25	214.70	47.24	476.92	90.27	132.96	252.09
20355	10.52	-14.63	-8.30	61.62	55.75	542.92	25.90	259.99	255.77	237.77	45.38	453.50	103.01	144.70	255.13
20356	11.63	-14.04	-8.30	63.11	54.97	536.71	27.74	251.79	257.46	269.25	45.04	430.82	118.84	160.53	258.1

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
20385	0.62	-1.65	-9.50	75.33	41.56	287.06	11.13	409.18	348.89	494.65	132.60	315.05	16.73	172.29	349.03
20386	1.85	-1.65	-9.50	78.73	42.34	293.84	21.48	409.60	347.75	521.97	140.87	311.60	26.11	158.39	347.93
20387	3.08	-1.65	-9.50	85.88	43.30	306.71	31.41	409.63	347.01	552.89	148.69	307.87	35.92	145.67	347.23
20388	4.31	-1.65	-9.50	95.86	44.34	325.02	40.65	409.20	346.66	588.06	155.88	304.07	45.41	135.09	346.93
20389	5.55	-1.65	-9.50	107.72	45.34	347.94	48.97	408.20	346.63	628.20	162.12	300.70	54.18	127.81	346.94
20390	6.78	-1.65	-9.50	120.72	46.18	374.65	56.13	406.50	346.83	674.08	166.97	298.71	61.92	125.20	347.18
20391	8.01	-1.65	-9.50	134.40	46.71	404.37	61.86	403.91	347.12	726.57	169.75	299.66	68.31	128.86	347.48
20392	9.25	-1.65	-9.50	148.49	46.84	436.36	65.89	400.19	347.30	786.73	169.52	305.79	73.01	140.63	347.65
20393	10.48	-1.65	-9.50	162.94	46.50	469.95	67.97	395.01	347.12	855.84	164.94	319.80	75.67	162.43	347.42
20394	11.71	-1.65	-9.50	177.93	45.76	504.42	67.90	387.88	346.28	935.75	154.25	344.19	75.93	195.77	346.50
20395	12.94	-1.65	-9.50	194.05	44.88	538.93	65.47	377.95	344.50	1029.07	135.19	380.27	73.35	240.84	344.61
20396	14.18	-1.65	-9.50	212.56	44.40	572.20	60.41	363.79	341.53	1139.52	105.27	426.84	67.42	295.42	341.54
20397	15.41	-1.65	-9.50	235.93	45.30	602.05	52.21	342.95	337.14	1271.88	64.61	478.48	57.47	353.37	337.13
20398	16.64	-1.65	-9.50	268.08	49.09	624.49	39.98	311.86	331.03	1431.60	51.46	522.86	42.68	402.98	331.21
20399	17.87	-1.65	-9.50	314.35	57.61	632.53	22.37	266.43	322.49	1624.55	129.89	537.50	22.34	425.73	323.37
20400	19.11	-1.65	-9.50	380.84	72.57	614.89	6.15	204.35	309.95	1857.77	252.95	489.02	13.03	396.93	312.53
20401	0.62	-0.55	-9.50	75.47	41.62	282.88	11.08	409.64	351.03	497.69	133.41	311.19	11.87	171.56	351.05
20402	1.85	-0.55	-9.50	78.91	42.43	289.75	21.58	410.07	349.85	525.53	141.85	307.67	22.16	157.48	349.87
20403	3.09	-0.55	-9.50	86.12	43.43	302.80	31.59	410.10	349.07	557.04	149.85	303.84	32.13	144.58	349.09
20404	4.33	-0.55	-9.50	96.19	44.52	321.32	40.89	409.66	348.65	592.88	157.20	299.92	41.45	133.85	348.68
20405	5.56	-0.55	-9.50	108.18	45.57	344.49	49.25	408.65	348.54	633.72	163.59	296.42	49.85	126.47	348.57
20406	6.80	-0.55	-9.50	121.36	46.45	371.47	56.40	406.95	348.63	680.36	168.51	294.33	57.08	123.83	348.67
20407	8.04	-0.55	-9.50	135.26	47.02	401.48	62.11	404.37	348.80	733.63	171.27	295.29	62.86	127.54	348.84
20408	9.27	-0.55	-9.50	149.60	47.16	433.79	66.09	400.68	348.83	794.52	170.86	301.64	66.91	139.48	348.87
20409	10.51	-0.55	-9.50	164.31	46.83	467.76	68.11	395.55	348.50	864.27	165.90	316.21	69.00	161.59	348.53
20410	11.75	-0.55	-9.50	179.55	46.11	502.68	67.96	388.45	347.54	944.63	154.54	341.59	68.88	195.37	347.56
20411	12.98	-0.55	-9.50	195.88	45.27	537.71	65.42	378.52	345.70	1038.09	134.46	379.04	66.31	240.96	345.71
20412	14.22	-0.55	-9.50	214.56	44.87	571.56	60.17	364.28	342.75	1148.21	103.23	427.23	60.94	296.07	342.75
20413	15.46	-0.55	-9.50	238.02	45.90	602.01	51.63	343.27	338.50	1279.68	61.79	480.45	52.18	354.47	338.49
20414	16.69	-0.55	-9.50	270.21	49.88	624.96	38.78	311.84	332.61	1437.76	54.78	525.96	39.02	404.22	332.63
20415	17.93	-0.55	-9.50	316.35	58.69	633.26	20.03	265.84	324.35	1627.35	138.37	540.69	19.98	426.25	324.44
20416	19.17	-0.55	-9.50	382.19	74.29	615.43	7.21	202.95	312.22	1850.96	268.18	490.80	10.10	393.60	312.46
20417	0.62	0.55	-9.50	75.45	41.61	282.89	11.08	409.64	351.04	497.63	133.39	311.18	11.87	171.57	351.05
20418	1.85	0.55	-9.50	78.91	42.42	289.76	21.58	410.08	349.86	525.47	141.84	307.67	22.18	157.49	349.88
20419	3.09	0.55	-9.50	86.13	43.42	302.81	31.60	410.11	349.08	556.99	149.84	303.84	32.17	144.59	349.10
20420	4.33	0.55	-9.50	96.21	44.51	321.34	40.90	409.67	348.66	592.82	157.19	299.92	41.49	133.87	348.69
20421	5.56	0.55	-9.50	108.20	45.56	344.51	49.26	408.66	348.55	633.68	163.58	296.43	49.90	126.49	348.59
20422	6.80	0.55	-9.50	121.38	46.44	371.49	56.42	406.96	348.66	680.32	168.51	294.34	57.13	123.84	348.70
20423	8.04	0.55	-9.50	135.27	47.01	401.50	62.12	404.38	348.83	733.59	171.27	295.30	62.91	127.55	348.87
20424	9.27	0.55	-9.50	149.61	47.16	433.81	66.11	400.69	348.87	794.48	170.87	301.66	66.97	139.49	348.91
20425	10.51	0.55	-9.50	164.32	46.84	467.77	68.13	395.56	348.54	864.25	165.90	316.23	69.06	161.60	348.58
20426	11.75	0.55	-9.50	179.56	46.13	502.69	67.97	388.46	347.58	944.62	154.54	341.61	68.93	195.38	347.61
20427	12.98	0.55	-9.50	195.88	45.29	537.71	65.42	378.53	345.74	1038.07	134.47	379.05	66.36	240.97	345.75
20428	14.22	0.55	-9.50	214.56	44.90	571.57	60.16	364.29	342.79	1148.20	103.25	427.23	60.98	296.08	342.79
20429	15.46	0.55	-9.50	238.02	45.93	602.01	51.62	343.28	338.53	1279.68	61.82	480.45	52.20	354.48	338.53
20430	16.69	0.55	-9.50	270.21	49.90	624.96	38.77	311.85	332.64	1437.76	54.80	525.96	39.03	404.24	332.65
20431	17.93	0.55	-9.50	316.35	58.71	633.25	20.01	265.85	324.37	1627.36	138.38	540.68	19.97	426.26	324.47
20432	19.17	0.55	-9.50	382.19	74.31	615.42	7.20	202.96	312.23	1850.97	268.18	490.80	10.01	393.61	312.48
20433	0.62	1.65	-9.50	75.30	41.54	287.07	11.13	409.19	348.90	494.49	132.54	315.04	16.75	172.29	349.04
20434	1.85	1.65	-9.50	78.73	42.32	293.86	21.49	409.62	347.76	521.80	140.81	311.59	26.16	158.41	347.94
20435	3.08	1.65	-9.50	85.91	43.27	306.75	31.42	409.67	347.03	552.73	148.64	307.87	36.00	145.70	347.26
20436	4.31	1.65	-9.50	95.90	44.31	325.06	40.68	409.24	346.69	587.92	155.84	304.08	45.51	135.13	346.97
20437	5.55	1.65	-9.50	107.77	45.31	347.99	49.02	408.24	346.68	628.06	162.09	300.72	54.31	127.85	347.00
20438	6.78	1.65	-9.50	120.78	46.15	374.71	56.18	406.54	346.90	673.96	166.95	298.74	62.07	125.24	347.25
20439	8.01	1.65	-9.50	134.45	46.70	404.43	61.91	403.95	347.21	726.47	169.75	299.70	68.47	128.90	347.58
20440	9.25	1.65	-9.50	148.53	46.84	436.42	65.94	400.22	347.41	786.63	169.52	305.84	73.17	140.66	347.76
20441	10.48	1.65	-9.50	162.97	46.53	470.00	68.01	395.05	347.24	855.77	164.95	319.85	75.83	162.47	347.54
20442	11.71	1.65	-9.50	177.96	45.81	504.46	67.93	387.91	346.41	935.69	154.27	344.24	76.07	195.80	346.63
20443	12.94	1.65	-9.50	194.06	44.95	538.95	65.48	377.98	344.63	1029.03	135.22	380.31	73.48	240.87	344.74
20444	14.18	1.65	-9.50	212.57	44.48	572.20	60.39	363.82	341.65	1139.48	105.31	426.87	67.53	295.44	341.66
20445	15.41	1.65	-9.50	235.93	45.38	602.05	52.18	342.98	337.25	1271.86	64.68	478.49	57.55	353.40	337.24
20446	16.64	1.65	-9.50	268.09	49.16	624.48	39.93	311.90	331.12	1431.60	51.53	522.85	42.72	403.02	331.30
20447	17.87	1.65	-9.50	314.35	57.67	632.51	22.30	266.47	322.55	1624.57	129.90	537.48	22.33	425.77	322.44
20448	19.11	1.65	-9.50	380.85	72.61	614.86	6.08	204.39	309.99	1857.80	252.94	489.01	12.90	396.97	312.59
20449	0.62	-1.65	-10.50	88.32	51.47	301.10	12.58	410.01	355.71	582.19	149.36	325.64	20.23	200.52	355.82
20450	1.85	-1.65	-10.50	93.49	52.61	307.46	24.36	410.58	354.88	615.10	159.32	322.93	30.69	187.79	355.03
20451	3.08	-1.65	-10.50	103.38	54.09	319.62	35.69	410.97	354.50	652.23	168.91	320.06	41.84	176.41	354.69
20452	4.31	-1.65	-10.50	116.68	55.82	337.02	46.34	411.13	354.56	693.99	177.97	317.14	52.80	167.38	354.79
20453	5.55	-1.65	-10.50	132.16	57.68	358.96	56.08	411.00	355.01	740.75	186.25	314.43	63.13	161.93	355.28
20454	6.78	-1.65	-10.50	148.85	59.54	384.71	64.64	410.48	355.78						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
20483	3.09	0.55	-10.50	103.57	54.21	315.50	35.86	411.03	357.62	656.99	170.08	315.84	36.65	175.07	357.64
20484	4.33	0.55	-10.50	116.98	56.00	333.13	46.55	411.18	357.60	699.55	179.32	312.82	47.37	165.90	357.63
20485	5.56	0.55	-10.50	132.59	57.92	355.32	56.30	411.03	357.95	747.14	187.74	310.00	57.18	160.34	357.98
20486	6.80	0.55	-10.50	149.46	59.83	381.35	64.83	410.50	358.58	800.05	194.91	307.92	65.80	159.97	358.62
20487	8.04	0.55	-10.50	166.92	61.56	410.53	71.87	409.50	359.38	858.49	200.16	307.53	72.95	166.65	359.42
20488	9.27	0.55	-10.50	184.49	62.99	442.26	77.15	407.88	360.18	922.71	202.56	310.29	78.34	182.60	360.21
20489	10.51	0.55	-10.50	201.80	64.03	476.03	80.41	405.47	360.76	993.14	200.84	318.27	81.71	210.21	360.79
20490	11.75	0.55	-10.50	218.59	64.71	511.41	81.46	401.97	360.91	1070.71	193.24	333.99	82.83	251.70	360.94
20491	12.98	0.55	-10.50	234.73	65.18	547.95	80.13	396.80	360.49	1157.41	177.51	360.05	81.49	308.44	360.51
20492	14.22	0.55	-10.50	250.54	65.72	585.07	76.17	388.81	359.45	1257.02	150.86	398.15	77.42	379.96	359.45
20493	15.46	0.55	-10.50	267.30	66.81	621.57	69.06	375.77	357.92	1376.20	110.88	447.44	70.04	462.21	357.92
20494	16.69	0.55	-10.50	288.43	69.08	654.51	57.59	353.70	356.09	1525.50	64.76	501.41	58.16	545.36	356.09
20495	17.93	0.55	-10.50	320.87	73.69	677.03	39.64	316.94	353.83	1720.04	91.55	542.87	39.74	612.40	353.86
20496	19.17	0.55	-10.50	374.85	82.67	675.87	12.14	260.02	350.39	1982.10	214.60	538.02	13.03	640.86	350.50
20497	0.62	1.65	-10.50	88.29	51.46	301.11	12.59	410.02	355.72	581.99	149.31	325.63	20.26	200.52	355.84
20498	1.85	1.65	-10.50	93.50	52.58	307.47	24.37	410.60	354.90	614.91	159.27	322.92	30.77	187.80	355.05
20499	3.08	1.65	-10.50	103.43	54.05	319.65	35.72	411.00	354.53	652.05	168.87	320.06	41.96	176.44	354.73
20500	4.31	1.65	-10.50	116.75	55.79	337.05	46.39	411.17	354.60	693.83	177.94	317.15	52.95	167.42	354.85
20501	5.55	1.65	-10.50	132.23	57.65	359.00	56.14	411.04	355.08	740.59	186.23	314.45	63.30	161.97	355.36
20502	6.78	1.65	-10.50	148.92	59.52	384.76	64.71	410.52	355.87	792.64	193.32	312.49	72.66	161.63	356.19
20503	8.01	1.65	-10.50	166.15	61.25	413.65	71.80	409.50	356.86	850.24	198.80	312.16	80.67	168.24	357.20
20504	9.25	1.65	-10.50	183.45	62.70	445.06	77.13	407.85	357.87	913.70	201.18	314.87	86.96	183.98	358.21
20505	10.48	1.65	-10.50	200.47	63.78	478.46	80.43	405.38	358.67	983.51	199.82	322.56	91.15	211.22	358.97
20506	11.71	1.65	-10.50	216.98	64.47	513.39	81.50	401.81	359.01	1060.71	192.87	337.65	92.85	252.19	359.25
20507	12.94	1.65	-10.50	232.88	64.90	549.40	80.19	396.59	358.68	1147.42	178.11	362.67	91.64	308.32	358.83
20508	14.18	1.65	-10.50	248.51	65.34	585.92	76.29	388.60	357.60	1247.59	152.77	399.35	86.98	379.19	357.65
20509	15.41	1.65	-10.50	265.18	66.25	621.80	69.37	375.66	355.85	1367.96	114.16	447.05	78.09	460.92	355.84
20510	16.64	1.65	-10.50	286.29	68.32	654.17	58.33	353.83	353.60	1519.17	67.39	499.61	63.82	543.89	353.64
20511	17.87	1.65	-10.50	318.76	72.71	676.30	41.24	317.56	350.72	1716.80	85.59	540.32	42.75	611.72	351.07
20512	19.11	1.65	-10.50	372.79	81.48	675.15	15.69	261.52	346.45	1985.39	202.75	535.70	17.04	644.01	347.70
20513	-19.11	-1.65	-9.50	26.85	36.67	571.28	57.90	223.82	337.54	92.02	40.55	286.09	58.01	94.56	337.58
20514	-17.87	-1.65	-9.50	55.37	37.44	599.20	68.22	279.80	349.33	145.48	38.20	305.90	68.23	145.26	349.38
20515	-16.64	-1.65	-9.50	83.66	39.23	600.42	74.88	319.13	357.99	193.04	36.43	318.92	74.82	187.29	358.03
20516	-15.41	-1.65	-9.50	106.42	41.05	584.80	78.46	344.99	364.18	231.98	36.49	326.42	78.37	218.02	364.21
20517	-14.18	-1.65	-9.50	122.30	42.55	559.45	79.63	361.72	368.28	262.92	38.80	330.49	79.53	238.55	368.30
20518	-12.94	-1.65	-9.50	131.65	43.59	529.03	78.86	372.88	370.50	287.82	43.03	332.51	78.75	251.03	370.51
20519	-11.71	-1.65	-9.50	135.49	44.16	496.36	76.36	380.82	371.06	308.72	48.65	333.28	76.26	257.47	371.07
20520	-10.48	-1.65	-9.50	134.95	44.25	463.19	72.24	386.85	370.26	327.14	55.31	333.19	72.15	259.37	370.26
20521	-9.25	-1.65	-9.50	131.02	43.93	430.66	66.57	391.67	368.44	344.16	62.77	332.47	66.50	257.73	368.45
20522	-8.01	-1.65	-9.50	124.57	43.33	399.60	59.51	395.64	365.96	360.52	70.86	331.29	59.47	253.19	365.97
20523	-6.78	-1.65	-9.50	116.34	42.58	370.76	51.24	398.93	363.14	376.73	79.40	329.74	51.27	246.21	363.15
20524	-5.55	-1.65	-9.50	107.01	41.84	344.88	41.99	401.68	360.21	393.23	88.24	327.90	42.15	237.16	360.22
20525	-4.31	-1.65	-9.50	97.36	41.23	322.73	32.01	403.95	357.36	410.43	97.23	325.82	32.44	226.33	357.39
20526	-3.08	-1.65	-9.50	88.25	40.86	305.14	21.55	405.79	354.73	428.73	106.25	323.52	22.60	214.06	354.78
20527	-1.85	-1.65	-9.50	80.78	40.79	292.92	10.88	407.27	352.41	448.55	115.21	320.99	13.80	200.68	352.48
20528	-0.62	-1.65	-9.50	76.14	41.02	286.76	2.10	408.39	350.45	470.36	124.02	318.18	10.59	186.59	350.55
20529	-19.17	-0.55	-9.50	25.46	36.33	571.70	58.15	222.64	339.58	91.15	40.42	283.63	58.16	92.82	339.59
20530	-17.93	-0.55	-9.50	54.69	37.54	599.76	68.71	279.43	351.20	145.14	38.36	303.00	68.71	144.56	351.20
20531	-16.69	-0.55	-9.50	83.47	39.54	600.71	75.48	319.27	359.65	193.17	36.58	315.65	75.47	187.28	359.65
20532	-15.46	-0.55	-9.50	106.59	41.40	584.59	79.04	345.44	365.68	232.47	36.48	322.83	79.03	218.45	365.68
20533	-14.22	-0.55	-9.50	122.72	42.84	558.66	80.11	362.29	369.69	263.66	38.65	326.64	80.10	239.19	369.70
20534	-12.98	-0.55	-9.50	132.21	43.84	527.67	79.22	373.48	371.92	288.73	42.84	328.48	79.21	251.72	371.92
20535	-11.75	-0.55	-9.50	136.10	44.38	494.49	76.61	381.38	372.56	309.73	48.52	329.14	76.60	258.12	372.56
20536	-10.51	-0.55	-9.50	135.53	44.48	460.88	72.42	387.34	371.88	328.22	55.26	329.01	72.41	259.91	371.88
20537	-9.27	-0.55	-9.50	131.53	44.19	427.98	66.71	392.09	370.21	345.29	62.80	328.32	66.71	258.13	370.21
20538	-8.04	-0.55	-9.50	124.98	43.60	396.62	59.63	396.01	367.86	361.70	70.95	327.19	59.63	253.46	367.86
20539	-6.80	-0.55	-9.50	116.64	42.84	367.51	51.34	399.29	365.14	378.00	79.54	325.71	51.35	246.36	365.14
20540	-5.56	-0.55	-9.50	107.23	42.07	341.37	42.07	402.04	362.29	394.64	88.44	323.95	42.10	237.18	362.29
20541	-4.33	-0.55	-9.50	97.51	41.42	318.99	32.05	404.32	359.49	412.04	97.51	321.93	32.11	226.24	359.49
20542	-3.09	-0.55	-9.50	88.37	41.00	301.19	21.52	406.20	356.89	430.60	106.64	319.67	21.66	213.83	356.89
20543	-1.85	-0.55	-9.50	80.89	40.88	288.82	10.70	407.70	354.58	450.74	115.71	317.16	11.10	200.30	354.58
20544	-0.62	-0.55	-9.50	76.25	41.09	282.58	0.68	408.85	352.61	472.94	124.67	314.35	3.63	186.05	352.62
20545	-19.17	0.55	-9.50	25.45	36.38	571.71	58.17	222.62	339.56	91.15	40.45	283.62	58.18	92.81	339.57
20546	-17.93	0.55	-9.50	54.68	37.56	599.77	68.73	279.41	351.17	145.13	38.38	303.00	68.73	144.55	351.18
20547	-16.69	0.55	-9.50	83.46	39.55	600.71	75.49	319.26	359.62	193.16	36.59	315.64	75.49	187.27	359.62
20548	-15.46	0.55	-9.50	106.57	41.39	584.58	79.05	345.42	365.64	232.46	36.48	322.82	79.04	218.43	365.65
20549	-14.22	0.55	-9.50	122.70	42.82	558.66	80.12	362.28	369.65	263.65	38.63	326.62	80.10	239.18	369.65
20550	-12.98	0.55	-9.50	132.19	43.82	527.66	79.21	373.47	371.87	288.72	42.82	328.46	79.20	251.71	371.87
20551	-11.75	0.55	-9.50	136.08	44.36	494.47	76.61	381.37	372.51	309.71	48.50	329.12	76.59	258.10	372.51
20552	-10.51	0.55	-9.50	135.50	44.47	460.87	72.40	387.33	371.84	328.19	5				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
20581	-14.18	-1.65	-10.50	180.43	60.93	573.15	93.07	388.97	379.69	341.19	44.82	345.12	93.01	276.49	379.70
20582	-12.94	-1.65	-10.50	183.99	60.77	540.02	91.23	392.61	380.15	364.92	47.76	345.22	91.16	284.15	380.16
20583	-11.71	-1.65	-10.50	181.86	60.10	506.16	87.72	396.09	379.46	384.15	52.90	344.67	87.66	287.39	379.46
20584	-10.48	-1.65	-10.50	175.62	58.99	472.65	82.56	398.57	377.75	400.94	59.74	343.65	82.52	287.21	377.75
20585	-9.25	-1.65	-10.50	166.41	57.54	440.30	75.77	400.58	375.30	416.66	67.89	342.30	75.77	284.23	375.29
20586	-8.01	-1.65	-10.50	155.10	55.89	409.74	67.49	402.31	372.39	432.23	77.02	340.68	67.56	278.89	372.39
20587	-6.78	-1.65	-10.50	142.43	54.24	381.61	57.93	403.85	369.31	448.29	86.85	338.88	58.12	271.50	369.31
20588	-5.55	-1.65	-10.50	129.08	52.75	356.54	47.35	405.22	366.27	465.35	97.12	336.94	47.74	262.35	366.28
20589	-4.31	-1.65	-10.50	115.87	51.58	335.22	36.01	406.44	363.43	483.90	107.62	334.90	36.80	251.70	363.43
20590	-3.08	-1.65	-10.50	103.83	50.82	318.39	24.16	407.52	360.90	504.39	118.19	332.76	25.88	239.84	360.93
20591	-1.85	-1.65	-10.50	94.26	50.55	306.74	12.08	408.47	358.74	527.29	128.73	330.53	16.44	227.08	358.79
20592	-0.62	-1.65	-10.50	88.68	50.77	300.87	1.89	409.30	357.00	553.07	139.14	328.16	13.47	213.82	357.08
20593	-19.17	-0.55	-10.50	72.23	52.10	630.21	75.31	269.52	368.76	145.70	53.98	311.92	75.32	155.24	368.77
20594	-17.93	-0.55	-10.50	115.16	57.12	641.50	85.97	324.37	374.45	213.21	51.05	329.06	85.97	205.29	374.46
20595	-16.69	-0.55	-10.50	148.19	59.84	628.69	91.73	358.17	377.95	268.66	47.20	336.97	91.72	240.28	377.95
20596	-15.46	-0.55	-10.50	169.81	61.00	603.34	93.91	377.12	380.30	310.91	44.59	340.05	93.90	262.97	380.30
20597	-14.22	-0.55	-10.50	181.26	61.25	572.12	93.65	387.28	381.75	342.25	44.59	340.99	93.64	276.82	381.75
20598	-12.98	-0.55	-10.50	184.85	60.95	538.43	91.58	392.88	382.22	366.08	47.43	340.93	91.58	284.49	382.22
20599	-11.75	-0.55	-10.50	182.66	60.23	504.08	87.89	396.27	381.64	385.34	52.66	340.29	87.89	287.65	381.64
20600	-10.51	-0.55	-10.50	176.28	59.14	470.15	82.61	398.66	380.11	402.13	59.65	339.26	82.61	287.35	380.11
20601	-9.27	-0.55	-10.50	166.92	57.74	437.44	75.77	400.58	377.86	417.85	67.94	337.93	75.78	284.23	377.86
20602	-8.04	-0.55	-10.50	155.45	56.15	406.57	67.48	402.26	375.15	433.44	77.17	336.37	67.50	278.76	375.15
20603	-6.80	-0.55	-10.50	142.64	54.52	378.16	57.93	403.78	372.23	449.58	87.06	334.63	57.96	271.26	372.23
20604	-5.56	-0.55	-10.50	129.19	53.01	352.83	47.35	405.16	369.32	466.81	97.38	332.76	47.40	262.01	369.32
20605	-4.33	-0.55	-10.50	115.91	51.79	331.28	35.99	406.40	366.56	485.60	107.95	330.78	35.99	251.25	366.56
20606	-3.09	-0.55	-10.50	103.83	50.98	314.24	24.10	407.51	364.08	506.41	118.61	328.68	24.33	239.27	364.09
20607	-1.85	-0.55	-10.50	94.25	50.65	302.44	11.91	408.50	361.96	529.71	129.26	326.46	12.54	226.39	361.96
20608	-0.62	-0.55	-10.50	88.69	50.84	296.48	0.63	409.35	360.22	555.97	139.81	324.10	4.66	212.97	360.23
20609	-19.17	0.55	-10.50	72.23	52.13	630.22	75.34	269.50	368.74	145.70	54.01	311.92	75.35	155.24	368.74
20610	-17.93	0.55	-10.50	115.15	57.13	641.50	85.99	324.35	374.42	213.21	51.07	329.06	85.99	205.28	374.43
20611	-16.69	0.55	-10.50	148.18	59.84	628.69	91.75	358.15	377.91	268.65	47.20	336.96	91.74	240.27	377.91
20612	-15.46	0.55	-10.50	169.79	60.98	603.34	93.92	377.11	380.25	310.90	44.57	340.04	93.91	262.96	380.25
20613	-14.22	0.55	-10.50	181.24	61.22	572.11	93.66	387.27	381.70	342.23	44.55	340.98	93.65	276.81	381.70
20614	-12.98	0.55	-10.50	184.82	60.92	538.43	91.58	392.87	382.17	366.06	47.40	340.92	91.57	284.48	382.17
20615	-11.75	0.55	-10.50	182.63	60.20	504.06	87.88	396.26	381.59	385.32	52.63	340.28	87.87	287.64	381.59
20616	-10.51	0.55	-10.50	176.25	59.11	470.13	82.59	398.65	380.06	402.10	59.64	339.24	82.59	287.33	380.06
20617	-9.27	0.55	-10.50	166.88	57.73	437.42	75.75	400.56	377.82	417.81	67.93	337.91	75.75	284.22	377.82
20618	-8.04	0.55	-10.50	155.41	56.14	406.56	67.46	402.24	375.11	433.40	77.17	336.35	67.46	278.75	375.11
20619	-6.80	0.55	-10.50	142.59	54.52	378.14	57.91	403.76	372.20	449.54	87.06	334.62	57.92	271.25	372.20
20620	-5.56	0.55	-10.50	129.14	53.02	352.82	47.33	405.14	369.29	466.76	97.38	332.75	47.37	261.99	369.29
20621	-4.33	0.55	-10.50	115.86	51.80	331.27	35.97	406.39	366.55	485.54	107.95	330.76	35.97	251.24	366.55
20622	-3.09	0.55	-10.50	103.78	50.98	314.23	24.09	407.51	364.08	506.35	118.60	328.67	24.29	239.26	364.08
20623	-1.85	0.55	-10.50	94.21	50.65	302.43	11.91	408.49	361.95	529.65	129.25	326.46	12.50	226.38	361.95
20624	-0.62	0.55	-10.50	88.66	50.84	296.47	0.67	409.35	360.22	555.90	139.79	324.09	4.61	212.97	360.23
20625	-19.11	1.65	-10.50	72.76	51.90	629.92	74.75	270.67	365.30	146.36	53.60	314.91	74.87	156.71	365.33
20626	-17.87	1.65	-10.50	115.12	56.49	641.14	85.16	324.72	371.44	213.19	50.43	332.34	85.19	205.89	371.47
20627	-16.64	1.65	-10.50	147.72	59.14	628.65	90.88	358.08	375.33	268.10	46.72	340.56	90.85	240.35	375.37
20628	-15.41	1.65	-10.50	169.07	60.42	603.80	93.17	376.83	377.95	310.00	44.43	343.92	93.11	262.74	377.98
20629	-14.18	1.65	-10.50	180.37	60.83	573.14	93.09	386.94	379.53	341.13	44.69	345.09	93.02	276.45	379.55
20630	-12.94	1.65	-10.50	183.92	60.66	539.99	91.22	392.57	379.99	364.86	47.63	345.18	91.14	284.11	380.00
20631	-11.71	1.65	-10.50	181.78	60.00	506.12	87.69	396.06	379.30	384.07	52.80	344.62	87.61	287.35	379.31
20632	-10.48	1.65	-10.50	175.52	58.91	472.61	82.50	398.54	377.60	400.85	59.67	343.60	82.45	287.17	377.61
20633	-9.25	1.65	-10.50	166.30	57.49	440.25	75.71	400.54	375.17	416.55	67.85	342.25	75.69	284.19	375.17
20634	-8.01	1.65	-10.50	154.98	55.87	409.69	67.42	402.27	372.28	432.10	77.01	340.63	67.46	278.84	372.28
20635	-6.78	1.65	-10.50	142.30	54.24	381.56	57.86	403.81	369.22	448.14	86.85	338.83	58.01	271.45	369.23
20636	-5.55	1.65	-10.50	128.94	52.77	356.49	47.29	405.18	366.21	465.19	97.11	336.90	47.63	262.30	366.22
20637	-4.31	1.65	-10.50	115.73	51.60	335.19	35.97	406.40	363.39	483.73	107.60	334.86	35.97	251.66	363.41
20638	-3.08	1.65	-10.50	103.69	50.84	318.36	24.14	407.49	360.87	504.21	118.17	332.73	25.77	239.80	360.91
20639	-1.85	1.65	-10.50	94.14	50.56	306.73	12.07	408.45	358.73	527.10	128.69	330.50	16.34	227.06	358.79
20640	-0.62	1.65	-10.50	88.60	50.77	300.86	1.93	409.30	357.00	552.87	139.09	328.14	13.43	213.80	357.09
20641	-23.52	-1.65	-9.50	7.18	66.57	238.37	6.32	19.96	258.77	6.39	38.76	518.18	5.50	31.61	258.69
20642	-22.67	-1.65	-9.50	19.38	56.84	285.48	13.83	32.86	277.98	12.14	40.41	385.86	14.03	56.61	277.84
20643	-21.83	-1.65	-9.50	25.37	48.44	371.66	24.29	64.91	295.92	8.11	41.66	301.45	24.68	55.06	295.82
20644	-20.99	-1.65	-9.50	23.48	42.11	455.71	35.53	112.28	311.58	18.28	42.25	267.92	35.88	44.83	311.54
20645	-20.14	-1.65	-9.50	17.32	38.28	521.65	46.37	164.43	324.78	47.14	42.01	269.11	46.62	54.96	324.79
20646	-23.57	-0.55	-9.50	6.94	66.32	238.36	4.13	10.21	260.54	6.40	35.62	520.16	3.97	26.49	260.53
20647	-22.73	-0.55	-9.50	19.12	56.31	285.17	12.84	26.39	280.15	12.15	37.67	387.28	12.86	53.89	280.14
20648	-21.89	-0.55	-9.50	25.09	47.57	371.36	23.75	61.09	298.15	7.10	39.64	301.82	23.79	52.56	298.14
20649	-21.05	-0.55	-9.50	22.94	41.16	455.58	35.27	109.67	313.81	16.67	40.95	267.06	35.30	41.66	313.81
20650	-20.20	-0.55	-9.50	16.01	37.52	521.74	46.34	162.46	326.95	45.88	41.33	267.29	46.37	52.02</	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
20679	-20.99	1.65	-10.50	10.93	42.85	532.04	48.48	143.42	347.39	38.66	53.06	279.74	48.84	59.01	347.34
20680	-20.14	1.65	-10.50	33.12	46.83	593.42	61.77	206.56	357.39	84.39	54.48	293.37	62.00	104.12	357.38
20681	20.14	-1.65	-9.50	457.80	90.88	572.47	32.96	142.35	294.78	2095.71	380.30	391.18	46.68	313.81	299.60
20682	20.99	-1.65	-9.50	539.76	110.61	506.49	63.22	98.26	276.18	2318.85	497.89	324.04	91.19	191.31	281.60
20683	21.83	-1.65	-9.50	645.75	136.07	404.14	102.75	93.71	248.60	2563.41	626.62	530.42	162.77	92.81	250.02
20684	22.67	-1.65	-9.50	782.82	169.37	243.68	159.28	139.44	203.90	2768.23	767.14	1118.45	271.61	280.48	218.41
20685	23.52	-1.65	-9.50	939.38	211.91	60.40	238.82	184.23	121.01	2826.85	843.22	1582.30	372.33	350.14	322.40
20686	20.20	-0.55	-9.50	457.42	93.67	572.63	38.27	140.51	297.70	2066.41	409.43	391.56	42.70	300.15	298.06
20687	21.05	-0.55	-9.50	536.64	114.39	506.43	71.44	98.01	280.29	2245.21	554.23	321.76	81.05	156.60	280.46
20688	21.89	-0.55	-9.50	640.32	139.01	403.87	114.34	98.97	254.51	2404.15	727.46	503.66	134.76	151.36	254.72
20689	22.73	-0.55	-9.50	780.80	166.07	238.54	169.89	144.58	208.51	2480.14	899.59	999.21	199.01	509.38	216.91
20690	23.57	-0.55	-9.50	953.71	199.27	94.86	238.16	178.15	110.03	2446.88	879.35	1231.37	249.50	781.53	140.54
20691	20.20	0.55	-9.50	457.42	93.68	572.62	38.28	140.52	297.71	2066.43	409.42	391.56	42.66	300.16	298.08
20692	21.05	0.55	-9.50	536.65	114.40	506.43	71.45	98.02	280.30	2245.23	554.23	321.76	81.02	156.62	280.47
20693	21.89	0.55	-9.50	640.32	139.01	403.86	114.35	98.97	254.51	2404.18	727.46	503.68	134.74	151.36	254.70
20694	22.73	0.55	-9.50	780.80	166.07	238.53	169.89	144.58	208.51	2480.17	899.59	999.23	199.00	509.38	216.81
20695	23.57	0.55	-9.50	953.71	199.26	94.85	238.17	178.15	110.03	2446.90	879.34	1231.38	249.51	781.53	140.35
20696	20.14	1.65	-9.50	457.80	90.90	572.44	32.99	142.39	294.80	2095.77	380.28	391.17	46.63	313.84	299.66
20697	20.99	1.65	-9.50	539.77	110.63	506.46	63.26	98.29	276.20	2318.91	497.88	324.05	91.15	191.35	281.66
20698	21.83	1.65	-9.50	645.76	136.08	404.11	102.79	93.73	248.61	2563.48	626.61	530.46	162.75	92.82	250.05
20699	22.67	1.65	-9.50	782.82	169.37	243.64	159.30	139.44	203.90	2768.31	767.14	1118.51	271.60	280.46	218.27
20700	23.52	1.65	-9.50	939.38	211.89	60.37	238.84	184.22	121.00	2826.93	843.21	1582.34	372.35	350.14	322.11
20701	20.14	-1.65	-10.50	443.34	94.25	645.46	18.42	197.72	340.93	2299.27	343.29	474.37	36.06	632.48	343.46
20702	20.99	-1.65	-10.50	524.20	110.36	584.73	52.98	138.97	334.18	2654.42	489.07	370.92	80.14	591.32	337.38
20703	21.83	-1.65	-10.50	634.57	133.90	479.44	100.95	90.66	325.63	3170.29	673.69	352.59	145.12	522.15	327.55
20704	22.67	-1.65	-10.50	790.21	168.57	310.84	172.02	76.44	317.91	3978.12	928.49	837.76	234.49	405.81	317.60
20705	23.52	-1.65	-10.50	1008.79	223.04	29.39	305.68	62.97	296.58	5241.82	1323.13	2293.18	367.56	544.50	311.20
20706	20.20	-0.55	-10.50	445.35	95.67	645.91	21.55	195.25	345.88	2282.57	364.01	476.97	26.78	619.66	346.05
20707	21.05	-0.55	-10.50	526.48	111.53	585.09	58.37	135.80	340.38	2613.99	526.69	375.21	65.98	558.51	340.47
20708	21.89	-0.55	-10.50	638.96	133.66	479.37	108.23	87.84	333.40	3092.55	740.40	333.02	120.52	446.18	333.38
20709	22.73	-0.55	-10.50	799.08	165.17	305.47	181.26	79.72	326.46	3862.24	1037.34	717.13	197.89	259.45	327.32
20710	23.57	-0.55	-10.50	1019.80	216.00	40.69	319.37	74.17	303.45	5107.03	1507.72	2032.31	337.87	307.86	311.56
20711	20.20	0.55	-10.50	445.35	95.68	645.91	21.56	195.27	345.89	2282.59	364.01	476.97	26.69	619.68	346.06
20712	21.05	0.55	-10.50	526.48	111.53	585.08	58.38	135.81	340.39	2614.01	526.69	375.20	65.93	558.52	340.48
20713	21.89	0.55	-10.50	638.96	133.65	479.36	108.25	87.85	333.41	3092.58	740.40	333.03	120.49	446.19	333.38
20714	22.73	0.55	-10.50	799.09	165.16	305.47	181.27	79.73	326.47	3862.28	1037.35	717.14	197.87	259.46	327.29
20715	23.57	0.55	-10.50	1019.80	215.98	40.68	319.38	74.17	303.45	5107.08	1507.72	2032.32	337.83	307.87	311.48
20716	20.14	1.65	-10.50	443.35	94.28	645.44	18.43	197.76	340.96	2299.33	343.29	474.36	35.94	632.53	343.51
20717	20.99	1.65	-10.50	524.21	110.38	584.71	53.02	139.01	334.20	2654.49	489.06	370.91	80.07	591.37	337.43
20718	21.83	1.65	-10.50	634.59	133.89	479.41	100.99	90.70	325.64	3170.37	673.68	352.61	145.07	522.19	327.59
20719	22.67	1.65	-10.50	790.23	168.55	310.82	172.05	76.46	317.91	3978.21	928.49	837.80	234.45	405.85	317.59
20720	23.52	1.65	-10.50	1008.80	223.01	29.33	305.71	62.97	296.58	5241.95	1323.13	2293.24	367.50	544.53	311.09
20721	0.61	2.50	-9.50	75.09	41.37	292.84	11.27	408.48	346.37	490.21	131.38	320.36	21.61	173.20	346.69
20722	1.84	2.50	-9.50	78.49	42.11	299.51	21.37	408.93	345.28	516.82	139.42	317.00	30.72	159.58	345.69
20723	3.07	2.50	-9.50	85.61	43.01	312.18	31.18	408.98	344.63	546.94	147.01	313.42	40.62	147.13	345.14
20724	4.30	2.50	-9.50	95.49	43.98	330.21	40.36	408.58	344.38	581.23	153.98	309.80	50.46	136.77	345.00
20725	5.52	2.50	-9.50	107.18	44.91	352.82	48.65	407.60	344.49	620.40	160.05	306.64	59.81	129.65	345.21
20726	6.75	2.50	-9.50	119.96	45.71	379.19	55.82	405.90	344.86	665.25	164.81	304.81	68.28	127.09	345.66
20727	7.98	2.50	-9.50	133.33	46.23	408.53	61.58	403.29	345.37	716.69	167.63	305.79	75.52	130.66	346.20
20728	9.21	2.50	-9.50	147.06	46.37	440.10	65.67	399.53	345.79	775.81	167.63	311.66	81.12	142.19	346.58
20729	10.43	2.50	-9.50	161.13	46.07	473.17	67.83	394.29	345.84	844.01	163.57	324.96	84.62	163.56	346.51
20730	11.66	2.50	-9.50	175.74	45.36	507.02	67.84	387.10	345.20	923.22	153.80	348.05	85.53	196.29	345.67
20731	12.89	2.50	-9.50	191.52	44.46	540.77	65.54	377.17	343.51	1016.24	136.14	382.26	83.23	240.63	343.75
20732	14.12	2.50	-9.50	209.78	43.88	573.19	60.70	363.10	340.50	1126.98	108.06	426.57	76.98	294.47	340.52
20733	15.34	2.50	-9.50	232.95	44.60	602.17	52.95	342.51	335.93	1260.41	68.77	475.94	65.91	351.86	335.91
20734	16.57	2.50	-9.50	264.99	48.15	623.85	41.51	311.90	329.51	1422.08	48.04	518.62	49.31	401.28	329.94
20735	17.80	2.50	-9.50	311.22	56.38	631.45	25.32	267.25	320.61	1618.23	119.69	532.98	27.26	424.66	322.72
20736	19.03	2.50	-9.50	377.95	70.87	614.03	8.26	206.32	307.75	1858.51	238.59	486.57	7.98	398.86	314.41
20737	0.61	3.10	-9.50	74.84	41.19	298.04	11.50	407.64	344.32	485.92	130.19	325.19	24.99	173.98	344.79
20738	1.83	3.10	-9.50	78.22	41.90	304.61	21.30	408.09	343.27	511.81	137.99	321.91	34.11	160.63	343.88
20739	3.06	3.10	-9.50	85.27	42.74	317.09	30.95	408.17	342.67	541.12	145.33	318.45	44.17	148.43	343.45
20740	4.28	3.10	-9.50	95.04	43.64	334.88	40.03	407.78	342.50	574.51	152.07	314.99	54.36	138.30	343.44
20741	5.50	3.10	-9.50	106.57	44.52	357.21	48.27	406.83	342.71	612.68	157.94	312.00	64.19	131.33	343.80
20742	6.72	3.10	-9.50	119.12	45.26	383.27	55.43	405.14	343.22	656.46	162.57	310.31	73.29	128.83	344.43
20743	7.94	3.10	-9.50	132.20	45.76	412.27	61.21	402.52	343.89	706.79	165.38	311.31	81.26	132.33	345.14
20744	9.17	3.10	-9.50	145.59	45.90	443.45	65.36	398.72	344.50	764.80	165.55	316.95	87.66	143.61	345.70
20745	10.39	3.10	-9.50	159.26	45.62	476.06	67.59	393.43	344.76	831.95	161.94	329.58	91.99	164.55	345.78
20746	11.61	3.10	-9.50	173.49	44.92	509.32	67.71	386.19	344.30	910.28	152.99	351.46	93.64	196.65	345.02
20747	12.83	3.10	-9.50	188.91	43.99	542.36	65.56	376.24	342.72	1002.75	136.66	383.86</			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
20777	10.39	3.10	-10.50	196.81	63.25	484.62	80.41	404.35	356.09	956.50	196.68	333.36	112.91	213.09	357.10
20778	11.61	3.10	-10.50	212.50	64.08	518.41	81.57	400.58	356.98	1032.31	191.36	346.92	116.51	252.58	357.75
20779	12.83	3.10	-10.50	227.67	64.50	553.02	80.33	395.20	356.98	1118.52	179.17	369.26	116.51	306.91	357.44
20780	14.05	3.10	-10.50	242.72	64.70	587.88	76.62	387.19	355.86	1219.49	157.44	402.12	111.91	375.94	356.00
20781	15.28	3.10	-10.50	258.98	65.16	621.96	70.24	374.49	353.61	1342.34	123.02	445.30	101.31	456.14	353.57
20782	16.50	3.10	-10.50	279.85	66.68	652.58	60.43	353.29	350.39	1497.78	76.51	493.61	83.13	538.48	350.60
20783	17.72	3.10	-10.50	312.09	70.59	673.47	45.65	318.28	346.19	1700.82	72.61	531.94	56.63	607.34	347.72
20784	18.94	3.10	-10.50	365.56	79.10	672.35	24.31	264.46	340.42	1975.48	181.66	529.13	24.17	643.71	346.13
20785	20.06	2.50	-9.50	456.02	88.32	572.22	27.81	145.25	292.20	2112.32	357.62	391.52	31.94	323.12	306.94
20786	20.91	2.50	-9.50	540.36	107.05	506.78	55.02	100.53	272.85	2369.27	455.98	326.46	60.48	216.55	298.06
20787	21.75	2.50	-9.50	649.20	132.33	404.79	89.82	90.98	243.36	2685.91	543.73	546.09	97.53	105.07	278.71
20788	22.60	2.50	-9.50	785.59	170.08	246.33	136.68	132.99	192.56	3036.42	612.39	1186.91	149.47	137.97	217.89
20789	23.44	2.50	-9.50	944.62	212.50	41.25	201.39	188.51	108.23	3343.25	667.45	2009.77	222.79	323.17	133.37
20790	19.98	3.10	-9.50	451.36	87.00	571.91	24.95	148.14	290.88	2102.30	351.99	392.60	24.68	322.39	315.63
20791	20.83	3.10	-9.50	535.91	105.50	507.36	50.58	104.02	271.82	2359.05	454.11	327.78	53.43	214.72	320.65
20792	21.68	3.10	-9.50	645.78	130.20	406.31	84.34	93.58	242.76	2678.98	541.65	536.05	103.05	104.10	334.81
20793	22.52	3.10	-9.50	783.97	167.31	247.42	129.67	132.90	191.97	3044.16	598.17	1162.41	198.11	139.88	348.82
20794	23.37	3.10	-9.50	949.47	212.25	36.55	195.46	188.44	107.66	3385.96	658.00	1970.61	385.29	325.70	352.47
20795	20.06	2.50	-10.50	439.95	92.77	644.70	16.25	200.70	336.15	2307.29	326.88	472.61	28.07	640.98	344.47
20796	20.91	2.50	-10.50	520.67	109.02	584.40	47.26	143.12	328.32	2680.45	462.71	369.46	63.97	614.55	343.65
20797	21.75	2.50	-10.50	629.49	133.50	479.56	92.54	95.81	317.94	3227.81	624.95	366.14	114.37	579.10	342.87
20798	22.60	2.50	-10.50	780.91	170.77	315.07	160.60	77.67	307.50	4076.18	843.93	932.43	184.66	533.38	342.54
20799	23.44	2.50	-10.50	994.91	232.95	32.54	289.66	54.30	280.85	5327.85	1151.06	2501.96	297.80	733.46	308.09
20800	19.98	3.10	-10.50	435.55	91.72	643.73	15.89	203.22	333.56	2298.11	320.83	472.44	19.39	640.06	348.06
20801	20.83	3.10	-10.50	516.16	107.90	584.33	43.17	146.79	325.45	2670.87	462.01	372.50	48.13	613.52	355.83
20802	21.68	3.10	-10.50	624.88	132.03	480.42	86.86	101.41	314.73	3219.01	628.03	360.80	89.17	577.98	376.13
20803	22.52	3.10	-10.50	775.65	168.71	316.48	153.46	85.04	303.58	4071.26	848.19	909.02	153.45	535.12	425.72
20804	23.37	3.10	-10.50	988.83	230.79	30.82	279.78	60.77	275.26	5332.10	1145.00	2465.17	290.50	736.49	454.33
20805	-19.03	2.50	-9.50	28.68	37.19	570.75	57.64	225.30	335.10	93.20	40.74	289.46	57.94	96.87	335.20
20806	-17.80	2.50	-9.50	56.25	37.34	598.48	67.64	280.17	347.08	145.89	38.02	309.88	67.67	146.13	347.20
20807	-16.57	2.50	-9.50	83.86	38.79	600.09	74.15	318.78	355.97	192.78	36.24	323.43	74.02	187.19	356.78
20808	-15.34	2.50	-9.50	106.10	40.52	585.15	77.74	344.26	362.35	231.22	36.49	331.40	77.52	217.33	362.42
20809	-14.12	2.50	-9.50	121.63	42.05	560.61	79.01	360.82	366.54	261.82	38.97	335.83	78.75	237.56	366.58
20810	-12.89	2.50	-9.50	130.77	43.16	530.96	78.36	371.95	368.73	286.48	43.24	338.09	78.09	249.96	368.76
20811	-11.66	2.50	-9.50	134.53	43.76	498.98	75.98	379.95	369.18	307.22	48.81	338.97	75.70	256.47	369.20
20812	-10.43	2.50	-9.50	134.01	43.85	466.39	71.93	386.08	368.22	325.54	55.38	338.91	71.67	258.52	368.23
20813	-9.21	2.50	-9.50	130.18	43.53	434.32	66.30	390.98	366.24	342.48	62.75	338.15	66.08	257.05	366.25
20814	-7.98	2.50	-9.50	123.86	42.93	403.67	59.25	395.00	363.61	358.73	70.75	336.87	59.11	252.68	363.63
20815	-6.75	2.50	-9.50	115.74	42.21	375.20	51.01	398.32	360.67	374.79	79.21	335.22	51.00	245.87	360.70
20816	-5.52	2.50	-9.50	106.52	41.52	349.66	41.83	401.05	357.67	391.08	87.94	333.28	42.07	236.97	357.71
20817	-4.30	2.50	-9.50	96.93	40.97	327.83	31.95	403.30	354.79	407.98	96.80	331.13	32.72	226.32	354.86
20818	-3.07	2.50	-9.50	87.89	40.65	310.54	21.63	405.12	352.15	425.90	105.65	328.77	23.65	214.24	352.26
20819	-1.84	2.50	-9.50	80.46	40.61	298.55	11.23	406.58	349.83	445.27	114.42	326.22	16.60	201.07	349.99
20820	-0.61	2.50	-9.50	75.86	40.86	292.52	3.47	407.69	347.89	466.54	123.02	323.42	15.56	187.23	348.12
20821	-18.94	3.10	-9.50	30.40	37.51	569.94	57.45	226.71	333.26	94.41	40.83	292.53	57.91	99.02	333.40
20822	-17.72	3.10	-9.50	57.14	37.20	597.51	67.12	280.46	345.39	146.32	37.81	313.51	67.17	146.89	345.57
20823	-16.50	3.10	-9.50	84.08	38.41	599.52	73.48	318.36	354.48	192.55	36.06	327.57	73.28	187.00	354.63
20824	-15.28	3.10	-9.50	105.83	40.09	585.30	77.07	343.44	361.02	230.50	36.52	336.00	76.72	216.55	361.13
20825	-14.05	3.10	-9.50	121.02	41.65	561.58	78.43	359.83	365.28	260.75	39.17	340.79	78.02	236.48	365.35
20826	-12.83	3.10	-9.50	129.96	42.81	532.71	77.91	370.95	367.45	285.19	43.49	343.29	77.47	248.82	367.49
20827	-11.61	3.10	-9.50	133.66	43.42	501.41	75.63	379.02	367.78	305.79	49.01	344.29	75.19	255.41	367.81
20828	-10.39	3.10	-9.50	133.18	43.50	469.37	71.64	385.25	366.66	324.02	55.49	344.24	71.23	257.61	366.68
20829	-9.17	3.10	-9.50	129.46	43.15	437.74	66.05	390.24	364.51	340.89	62.77	343.42	65.69	256.32	364.52
20830	-7.94	3.10	-9.50	123.27	42.54	407.45	59.03	394.31	361.74	357.06	70.68	342.05	58.77	252.12	361.76
20831	-6.72	3.10	-9.50	115.27	41.84	379.30	50.82	397.63	358.69	372.98	79.05	340.29	50.74	245.46	358.73
20832	-5.50	3.10	-9.50	106.15	41.19	354.05	41.69	400.35	355.62	389.06	87.68	338.25	41.96	236.72	355.68
20833	-4.28	3.10	-9.50	96.63	40.70	332.50	31.91	402.56	352.70	405.67	96.40	336.00	32.92	226.22	352.80
20834	-3.06	3.10	-9.50	87.63	40.43	315.45	21.75	404.34	350.04	423.22	105.10	333.59	24.48	214.32	350.21
20835	-1.83	3.10	-9.50	80.22	40.43	303.65	11.64	405.77	347.73	442.13	113.67	331.00	18.62	201.36	347.97
20836	-0.61	3.10	-9.50	75.62	40.69	297.72	4.64	406.86	345.81	462.87	122.06	328.21	18.75	187.75	346.15
20837	-19.03	2.50	-10.50	73.44	51.41	629.25	74.04	271.93	361.88	147.21	52.88	318.71	74.33	158.41	361.94
20838	-17.80	2.50	-10.50	115.04	55.56	640.45	84.10	324.89	368.54	213.14	49.53	336.59	84.17	206.41	368.63
20839	-16.57	2.50	-10.50	147.05	58.22	628.47	89.74	357.64	372.94	267.31	46.14	345.31	89.68	240.14	373.01
20840	-15.34	2.50	-10.50	168.05	59.74	604.37	92.18	376.13	375.91	308.76	44.40	349.11	92.03	262.13	375.97
20841	-14.12	2.50	-10.50	179.18	60.43	574.51	92.36	386.17	377.66	339.62	45.10	350.61	92.17	275.66	377.70
20842	-12.89	2.50	-10.50	182.70	60.45	542.13	90.77	391.87	378.09	363.21	48.17	350.91	90.56	283.31	378.12
20843	-11.66	2.50	-10.50	180.65	59.86	508.92	87.47	395.48	377.23	382.39	53.20	350.46	87.27	286.67	377.24
20844	-10.43	2.50	-10.50	174.55	58.73	475.96	82.42	398.10	375.27	399.16	59.85	349.45	82.26	286.65	375.27
20845	-9.21	2.50	-10.50	165.54	57.21	444.05	75.68	400.22	372.55	414.87	67.84	348.04	75.59	283.86	372.55
20846	-7.98	2.50	-10.50	154.44											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
20875	-22.60	2.50	-9.50	19.81	57.99	286.21	15.18	40.43	275.48	12.14	43.65	383.91	15.60	60.39	275.19
20876	-22.52	3.10	-9.50	20.19	58.80	287.01	16.39	46.64	273.83	12.17	46.10	381.51	17.10	63.71	273.41
20877	-23.44	2.50	-9.50	7.41	66.90	238.60	8.73	28.81	255.90	6.11	42.60	515.18	7.35	37.91	255.79
20878	-23.37	3.10	-9.50	7.82	67.44	238.77	10.59	35.81	254.42	5.98	45.54	511.63	8.89	43.55	254.29
20879	-20.06	2.50	-10.50	34.57	47.19	593.16	61.55	209.01	353.52	85.86	54.46	296.60	62.12	107.24	353.50
20880	-19.98	3.10	-10.50	36.00	47.19	592.45	61.46	211.26	351.33	87.40	54.18	299.35	62.32	110.09	351.30
20881	-20.91	2.50	-10.50	13.31	44.18	532.20	48.69	146.80	343.27	40.37	54.00	281.88	49.54	64.04	343.14
20882	-20.83	3.10	-10.50	15.20	44.70	532.08	48.99	150.09	340.99	42.16	54.32	283.67	50.23	68.60	340.79
20883	-21.75	2.50	-10.50	19.26	43.75	440.39	34.15	84.24	329.04	10.33	52.08	302.99	35.23	41.22	328.76
20884	-21.68	3.10	-10.50	19.81	44.71	440.96	34.82	89.21	326.74	12.30	53.18	302.83	36.36	47.54	326.34
20885	-22.60	2.50	-10.50	18.11	47.35	334.08	20.54	43.24	311.00	10.24	49.49	398.02	21.50	47.12	310.62
20886	-22.52	3.10	-10.50	18.42	48.47	335.02	21.60	50.54	308.84	10.42	51.42	395.61	22.92	52.64	308.29
20887	-23.44	2.50	-10.50	9.54	55.68	269.21	8.48	32.61	288.49	7.62	46.93	568.75	8.69	40.21	288.17
20888	-23.37	3.10	-10.50	9.77	56.09	269.46	10.33	40.66	286.41	7.41	49.23	564.78	10.10	47.01	286.02
20889	0.61	3.95	-9.50	74.32	40.84	306.89	12.02	405.84	341.14	478.10	128.01	333.45	29.54	175.12	341.87
20890	1.82	3.95	-9.50	77.64	41.47	313.30	21.23	406.30	340.15	502.68	135.35	330.32	38.86	162.25	341.11
20891	3.03	3.95	-9.50	84.58	42.22	325.49	30.55	406.40	339.64	530.50	142.23	327.07	49.28	150.54	340.84
20892	4.24	3.95	-9.50	94.17	43.00	342.87	39.41	406.07	339.58	562.21	148.52	323.88	60.02	140.83	341.04
20893	5.45	3.95	-9.50	105.43	43.76	364.73	47.52	405.17	339.93	598.53	153.99	321.19	70.63	134.18	341.63
20894	6.67	3.95	-9.50	117.59	44.41	390.28	54.61	403.53	340.63	640.29	158.32	319.74	80.72	131.82	342.51
20895	7.88	3.96	-9.50	130.15	44.85	418.74	60.41	400.92	341.54	688.46	161.03	320.79	89.88	135.21	343.50
20896	9.09	3.96	-9.50	142.89	44.99	449.28	64.64	397.08	342.45	744.24	161.39	326.06	97.64	146.06	344.32
20897	10.30	3.96	-9.50	155.83	44.73	481.11	67.02	391.69	343.03	809.16	158.42	337.60	103.44	166.16	344.63
20898	11.51	3.96	-9.50	169.29	44.06	513.36	67.34	384.34	342.88	885.40	150.76	337.40	106.64	197.06	344.00
20899	12.73	3.96	-9.50	183.95	43.11	545.11	65.46	374.36	341.51	976.15	136.60	386.63	106.43	239.22	342.05
20900	13.94	3.96	-9.50	201.17	42.29	575.14	61.34	360.52	338.52	1085.87	113.59	424.65	101.72	290.95	338.56
20901	15.15	3.96	-9.50	223.42	42.49	601.55	54.80	340.63	333.62	1220.27	79.56	467.37	91.07	346.90	333.60
20902	16.36	3.96	-9.50	254.59	45.25	620.93	45.44	311.38	326.61	1385.31	45.27	504.74	73.09	396.26	327.71
20903	17.57	3.96	-9.50	299.72	52.75	627.21	32.59	268.95	317.15	1585.85	92.53	517.76	48.00	421.33	322.14
20904	18.78	3.96	-9.50	364.36	67.25	610.54	17.83	211.18	304.29	1825.06	212.30	477.83	22.61	397.45	320.07
20905	0.60	5.05	-9.50	73.41	40.26	320.68	13.21	402.62	336.44	465.78	124.60	346.40	34.66	176.49	337.55
20906	1.79	5.05	-9.50	76.63	40.79	326.86	21.31	403.09	335.53	488.33	131.20	343.48	44.42	164.40	336.98
20907	2.99	5.06	-9.50	83.41	41.38	338.60	30.00	403.25	335.11	513.83	137.33	340.53	55.38	153.44	336.94
20908	4.18	5.06	-9.50	92.74	41.98	355.38	38.42	403.01	335.17	542.90	142.88	337.75	66.90	144.43	337.38
20909	5.38	5.06	-9.50	103.60	42.54	376.56	46.22	402.23	335.67	576.27	147.66	335.48	78.56	138.31	338.24
20910	6.58	5.06	-9.50	115.18	43.01	401.37	53.14	400.70	336.57	614.78	151.43	334.41	90.01	136.21	339.42
20911	7.77	5.06	-9.50	126.96	43.31	429.03	58.90	398.16	337.74	659.42	153.81	335.57	100.84	139.46	340.72
20912	8.97	5.07	-9.50	138.71	43.37	458.68	63.22	394.30	339.00	711.43	154.25	340.38	110.60	149.63	341.86
20913	10.16	5.07	-9.50	150.47	43.09	489.38	65.81	388.80	340.01	772.37	151.96	350.47	118.75	168.41	342.44
20914	11.36	5.07	-9.50	162.62	42.43	520.15	66.45	381.27	340.28	844.54	145.90	367.38	124.69	197.33	341.98
20915	12.55	5.07	-9.50	175.90	41.44	549.91	65.06	371.20	339.24	931.29	134.65	391.99	127.68	237.10	340.03
20916	13.75	5.07	-9.50	191.69	40.44	577.45	61.68	357.55	336.36	1037.55	116.33	423.78	126.67	286.55	336.39
20917	14.94	5.08	-9.50	212.46	40.17	601.09	56.39	338.39	331.28	1169.82	88.57	459.52	119.97	341.13	331.29
20918	16.14	5.08	-9.50	242.10	42.03	617.87	49.06	310.62	323.81	1335.40	52.55	490.87	105.10	391.17	325.63
20919	17.33	5.08	-9.50	285.62	48.29	622.54	39.27	270.58	313.85	1540.25	63.70	501.64	79.48	420.12	321.40
20920	18.53	5.08	-9.50	348.16	62.11	606.38	27.26	216.03	300.96	1784.91	171.81	467.07	44.45	402.96	322.56
20921	0.59	6.15	-9.50	72.11	39.47	336.60	15.00	398.05	330.88	450.78	120.43	361.46	38.71	177.42	332.38
20922	1.76	6.15	-9.50	75.22	39.88	342.49	21.73	398.54	330.05	470.94	126.14	358.73	48.91	166.26	331.99
20923	2.94	6.16	-9.50	81.82	40.30	353.71	29.50	398.79	329.68	493.69	131.34	356.08	60.37	156.23	332.12
20924	4.11	6.16	-9.50	90.87	40.69	369.81	37.26	398.68	329.79	519.64	135.94	353.67	72.56	148.06	332.74
20925	5.29	6.16	-9.50	101.31	41.02	390.18	44.57	398.07	330.35	549.48	139.82	351.82	85.14	142.61	333.78
20926	6.46	6.16	-9.50	112.27	41.27	414.14	51.16	396.73	331.32	584.01	142.78	351.07	97.79	140.88	335.13
20927	7.64	6.16	-9.50	123.19	41.39	440.90	56.75	394.35	332.62	624.24	144.55	352.30	110.20	144.05	336.60
20928	8.81	6.17	-9.50	133.79	41.32	469.56	61.08	390.57	334.06	671.35	144.73	356.62	121.96	153.45	337.89
20929	9.99	6.17	-9.50	144.13	41.01	499.06	63.86	384.99	335.32	726.89	142.75	365.26	132.63	170.62	338.59
20930	11.16	6.17	-9.50	154.60	40.38	528.19	64.89	377.29	335.92	793.02	137.87	379.23	141.79	197.05	338.19
20931	12.34	6.17	-9.50	166.00	39.45	555.69	64.10	367.05	335.19	873.06	129.13	398.95	149.00	233.71	336.22
20932	13.51	6.17	-9.50	179.65	38.44	580.27	61.66	353.55	332.51	972.05	115.28	423.84	153.63	280.10	332.51
20933	14.69	6.18	-9.50	197.92	37.90	600.45	57.85	335.20	327.38	1097.09	94.57	451.32	154.38	332.82	327.47
20934	15.86	6.18	-9.50	224.67	38.84	613.88	52.91	309.27	319.63	1257.30	65.45	475.03	148.72	383.96	322.40
20935	17.04	6.18	-9.50	265.20	43.08	616.28	46.78	272.30	309.22	1462.77	43.04	482.13	131.78	419.63	319.78
20936	18.21	6.18	-9.50	325.21	53.83	600.36	39.03	221.88	296.03	1721.09	106.97	452.49	96.21	418.20	323.36
20937	0.58	7.25	-9.50	70.36	38.35	354.01	17.34	391.85	325.23	433.34	115.56	378.10	41.60	177.49	327.07
20938	1.73	7.25	-9.50	73.35	38.62	359.56	22.60	392.37	324.45	450.85	120.23	375.51	52.13	167.39	326.81
20939	2.88	7.25	-9.50	79.75	38.86	370.16	29.21	392.71	324.10	470.58	124.37	373.09	63.92	158.41	327.05
20940	4.03	7.25	-9.50	88.50	39.06	385.44	36.08	392.76	324.18	493.05	127.89	370.95	76.55	151.20	327.73
20941	5.18	7.25	-9.50	98.50	39.19	404.85	42.71	392.37	324.68	518.91	130.68	369.37	89.75	146.53	328.80
20942	6.33	7.26	-9.50	108.85	39.24	427.76	48.78	391.30	325.57	548.91	132.60	368.79	103.29	145.27	330.13
20943	7.48	7.26	-9.50	118.90	39.19	453.43	54.03	389.18	326.76	584.00	133.46	369.91	116.92	148.39	331.53
20944	8.63	7.26	-9.50	128.30	39.03	480.94	58.22	385.60	328.12	625.26	132.99	373.58	130.36	157.01	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
20973	5.38	5.06	-10.50	128.82	54.49	387.67	54.08	406.37	344.76	680.00	171.12	348.68	95.40	172.05	347.04
20974	6.58	5.06	-10.50	144.11	56.02	411.70	62.59	406.19	346.60	723.58	177.02	347.77	109.81	172.22	349.18
20975	7.77	5.06	-10.50	159.41	57.64	438.74	69.92	405.36	348.95	772.48	181.79	348.25	123.77	178.34	351.70
20976	8.97	5.07	-10.50	174.24	59.24	468.07	75.71	403.63	351.66	827.34	184.91	351.00	136.67	192.17	354.37
20977	10.16	5.07	-10.50	188.38	60.66	498.89	79.54	400.74	354.38	889.05	185.61	357.15	147.82	215.77	356.77
20978	11.36	5.07	-10.50	201.81	61.66	530.40	81.07	396.47	356.58	959.13	182.81	367.99	156.46	251.32	358.37
20979	12.55	5.07	-10.50	214.75	62.05	561.84	80.17	390.56	357.58	1040.42	175.13	384.89	161.79	300.68	358.55
20980	13.75	5.07	-10.50	227.68	61.84	592.57	76.98	382.33	356.75	1137.94	160.66	409.08	162.68	364.44	356.95
20981	14.94	5.08	-10.50	241.94	61.40	621.78	71.81	370.10	353.80	1259.84	136.65	440.80	157.18	440.32	353.76
20982	16.14	5.08	-10.50	260.85	61.61	647.48	64.64	350.49	348.88	1417.94	99.59	476.95	142.10	521.14	349.92
20983	17.33	5.08	-10.50	290.98	64.01	664.66	54.76	318.63	342.32	1627.39	58.88	506.64	113.28	593.40	347.17
20984	18.53	5.08	-10.50	341.55	71.48	663.20	40.94	269.83	334.23	1907.02	121.71	506.23	68.06	637.65	348.34
20985	0.59	6.15	-10.50	86.01	49.13	350.40	17.62	400.02	336.92	532.19	136.69	372.15	47.28	205.04	338.16
20986	1.76	6.15	-10.50	90.88	49.86	355.97	25.45	400.73	336.45	556.25	143.95	370.01	59.48	194.88	338.09
20987	2.94	6.16	-10.50	100.28	50.71	366.66	34.58	401.48	336.59	583.38	150.74	368.04	73.36	186.09	338.68
20988	4.11	6.16	-10.50	112.77	51.67	382.08	43.82	402.17	337.35	613.99	157.01	366.35	88.34	179.45	339.94
20989	5.29	6.16	-10.50	126.95	52.74	401.74	52.71	402.70	338.76	648.54	162.67	365.10	104.05	175.87	341.82
20990	6.46	6.16	-10.50	141.71	53.92	425.06	60.91	402.86	340.81	687.52	167.60	364.66	120.12	176.45	344.26
20991	7.64	6.16	-10.50	156.21	55.21	451.41	68.14	402.37	343.46	731.51	171.57	365.55	136.16	182.49	347.16
20992	8.81	6.17	-10.50	169.89	56.56	480.00	74.01	400.85	346.60	781.20	174.23	368.51	151.59	195.47	350.27
20993	9.99	6.17	-10.50	182.52	57.82	509.93	78.10	397.93	349.94	837.52	174.99	374.37	165.77	217.18	353.18
20994	11.16	6.17	-10.50	194.15	58.76	540.12	79.99	393.35	352.88	901.93	173.04	383.92	178.03	249.62	355.26
20995	12.34	6.17	-10.50	205.13	59.11	569.46	79.50	386.95	354.58	977.12	167.37	397.77	187.85	294.80	355.80
20996	13.51	6.17	-10.50	216.01	58.74	597.10	76.85	378.41	354.15	1068.06	156.67	416.41	194.55	353.88	354.33
20997	14.69	6.18	-10.50	228.01	57.93	622.36	72.59	366.46	351.04	1183.08	139.07	436.94	196.78	425.63	351.09
20998	15.86	6.18	-10.50	244.28	57.39	643.86	67.23	348.11	345.30	1334.95	111.67	469.33	191.63	500.60	347.41
20999	17.04	6.18	-10.50	271.29	58.46	657.67	60.68	318.85	337.35	1541.30	72.37	487.58	173.58	580.12	345.68
21000	18.21	6.18	-10.50	318.53	63.69	655.30	52.10	274.18	327.56	1825.72	69.82	484.94	133.90	636.75	348.79
21001	0.58	7.25	-10.50	84.49	47.80	367.14	20.93	393.85	329.47	512.31	131.44	388.18	50.51	204.42	330.98
21002	1.73	7.25	-10.50	89.23	48.37	372.42	27.04	394.63	329.04	533.07	137.56	386.13	63.22	195.26	331.04
21003	2.88	7.25	-10.50	98.48	49.01	382.60	34.82	395.54	329.20	556.46	143.16	384.34	77.65	187.48	331.76
21004	4.03	7.25	-10.50	110.76	49.70	397.34	43.05	396.51	329.98	582.83	148.19	382.90	93.32	181.80	333.11
21005	5.18	7.25	-10.50	124.62	50.46	416.22	51.16	397.41	331.37	612.62	152.58	381.97	109.93	179.03	335.07
21006	6.33	7.26	-10.50	138.88	51.29	438.73	58.79	398.04	333.39	646.32	156.24	381.83	127.23	180.13	337.57
21007	7.48	7.26	-10.50	152.62	52.23	464.29	65.66	398.06	336.03	684.55	159.03	382.97	144.88	186.18	340.51
21008	8.63	7.26	-10.50	165.17	53.27	492.12	71.42	396.98	339.23	728.01	160.74	385.99	162.42	198.36	343.68
21009	9.78	7.26	-10.50	176.18	54.32	521.22	75.68	394.26	342.74	777.62	160.97	391.52	179.30	218.02	346.69
21010	10.93	7.26	-10.50	185.76	55.18	550.19	77.98	389.47	346.01	834.57	159.13	399.94	194.99	246.86	348.91
21011	12.08	7.26	-10.50	194.33	55.59	577.47	78.10	382.50	348.15	901.03	154.50	411.15	209.34	286.86	349.59
21012	13.23	7.26	-10.50	202.54	55.35	601.78	76.27	373.40	348.11	981.27	146.43	424.72	222.41	339.74	348.27
21013	14.38	7.26	-10.50	211.41	54.60	622.47	73.17	361.52	345.13	1082.82	133.78	440.13	233.86	405.48	345.36
21014	15.53	7.26	-10.50	223.47	53.85	638.86	69.75	344.53	339.08	1217.77	114.88	456.04	242.66	480.43	342.67
21015	16.68	7.26	-10.50	244.71	53.97	648.36	66.70	318.33	330.33	1404.68	87.79	467.24	245.83	556.89	343.51
21016	17.83	7.26	-10.50	284.74	56.52	644.31	64.05	278.62	319.36	1671.88	56.45	460.20	236.00	625.04	351.86
21017	19.82	3.96	-9.50	439.78	85.59	571.09	22.34	153.10	289.56	2065.64	349.36	394.11	25.30	317.96	327.14
21018	20.67	3.96	-9.50	522.17	105.43	508.71	45.60	110.33	271.99	2293.89	480.85	330.29	63.99	195.65	349.28
21019	21.53	3.96	-9.50	630.23	129.98	410.50	80.19	100.63	245.69	2554.89	610.33	501.16	155.47	97.60	402.61
21020	22.38	3.96	-9.50	770.75	164.08	252.56	130.95	137.44	201.34	2805.16	726.88	1050.30	337.60	273.45	501.24
21021	23.24	3.96	-9.50	937.04	208.09	50.04	208.69	183.02	124.94	2922.91	807.27	1509.34	592.80	333.87	560.17
21022	19.56	5.08	-9.50	421.16	81.80	569.27	22.38	160.38	287.05	2023.85	321.88	393.84	22.68	326.23	334.05
21023	20.42	5.08	-9.50	500.73	105.23	510.45	37.08	118.23	271.61	2228.76	497.35	335.78	38.01	191.94	360.14
21024	21.29	5.08	-9.50	605.19	131.99	417.75	69.32	107.60	249.46	2421.60	698.85	470.76	97.19	125.75	413.88
21025	22.15	5.07	-9.50	747.77	159.88	264.10	117.38	139.49	209.05	2560.21	872.70	913.39	239.53	455.06	484.66
21026	23.02	5.07	-9.50	928.83	185.23	65.59	183.13	171.11	126.05	2597.24	842.85	1152.50	396.37	733.13	394.41
21027	19.24	6.18	-9.50	397.69	71.71	565.67	31.60	168.90	282.16	1991.16	235.09	390.26	46.04	362.74	335.14
21028	20.12	6.18	-9.50	478.48	97.69	510.90	30.73	125.33	267.56	2237.38	416.93	342.33	39.43	245.59	354.05
21029	20.99	6.18	-9.50	582.86	132.24	425.38	50.12	108.85	248.70	2461.97	672.88	474.34	80.31	100.42	379.87
21030	21.87	6.18	-9.50	724.85	162.68	283.87	95.21	136.80	216.20	2606.85	916.50	901.57	94.25	394.56	384.00
21031	22.75	6.17	-9.50	913.17	180.66	52.56	165.83	163.62	137.13	2685.55	880.70	1117.45	264.33	701.86	256.94
21032	18.86	7.26	-9.50	360.83	57.43	559.31	50.96	179.11	276.23	1891.27	120.94	384.30	155.72	412.85	341.04
21033	19.75	7.26	-9.50	445.34	78.51	508.53	47.63	134.28	261.18	2220.37	246.38	346.83	91.90	344.02	360.71
21034	20.64	7.26	-9.50	558.12	118.32	430.45	46.58	106.95	242.16	2599.44	478.08	483.33	56.12	207.26	380.36
21035	21.53	7.26	-9.50	708.61	174.89	305.68	71.79	128.34	215.07	2955.76	826.34	979.36	135.92	134.25	350.31
21036	22.42	7.26	-9.50	889.57	206.12	75.52	151.38	170.10	160.32	3191.32	979.68	1400.69	148.50	243.56	160.22
21037	19.82	3.96	-10.50	425.85	89.67	641.62	18.84	207.33	330.85	2268.24	310.78	471.32	16.89	634.65	353.74
21038	20.67	3.96	-10.50	506.00	106.30	584.48	37.66	152.40	322.89	2626.17	475.14	380.33	38.71	597.37	372.14
21039	21.53	3.96	-10.50	615.27	129.50	483.50	78.95	109.34	313.03	3146.40	676.78	343.66	79.06	533.27	419.18
21040	22.38	3.96	-10.50	768.66	162.35	319.56	144.61	97.33	303.04	3965.24	936.55	775.11	154.97	430.19	524.25
21041	23.24	3.96	-10.50	987.11	212.92	32.89	269.91	79.43	278.10	5264.36					



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
21071	-1.82	3.95	-9.50	79.73	40.08	312.35	12.42	404.02	344.46	436.41	112.32	339.21	21.36	201.61	344.84
21072	-0.61	3.95	-9.50	75.13	40.36	306.58	6.44	405.07	342.58	456.18	120.31	336.41	22.86	188.43	343.12
21073	-18.53	5.08	-9.50	37.59	39.03	565.67	56.95	232.77	325.72	100.03	41.45	306.86	58.14	108.12	326.07
21074	-17.33	5.08	-9.50	61.10	36.91	592.47	65.17	281.27	338.29	148.40	37.21	330.20	65.35	149.81	338.73
21075	-16.14	5.08	-9.50	85.11	36.93	596.57	70.84	315.73	348.04	191.54	35.49	346.58	70.33	185.44	348.42
21076	-14.94	5.08	-9.50	104.56	38.12	585.96	74.34	338.89	355.13	227.13	36.58	357.17	73.42	212.18	355.40
21077	-13.75	5.07	-9.50	118.15	39.59	566.27	75.95	354.52	359.58	255.74	39.80	363.63	74.81	230.79	359.75
21078	-12.55	5.07	-9.50	126.21	40.75	541.13	75.76	365.65	361.54	279.13	44.34	367.17	74.53	242.89	361.65
21079	-11.36	5.07	-9.50	129.66	41.35	512.88	73.73	374.12	361.40	299.12	49.82	368.57	72.49	249.92	361.45
21080	-10.16	5.07	-9.50	129.43	41.40	483.17	69.89	380.82	359.68	317.01	56.13	368.41	68.69	252.84	359.71
21081	-8.97	5.07	-9.50	126.24	41.06	453.31	64.40	386.15	357.00	333.59	63.17	367.16	63.29	252.29	357.02
21082	-7.77	5.06	-9.50	120.63	40.56	424.45	57.52	390.33	353.83	349.31	70.76	365.20	56.56	248.75	353.87
21083	-6.58	5.06	-9.50	113.15	40.05	397.56	49.57	393.59	350.55	364.51	78.69	362.83	48.90	242.69	350.63
21084	-5.38	5.06	-9.50	104.40	39.66	373.50	40.86	396.11	347.37	379.54	86.73	360.25	40.82	234.55	347.52
21085	-4.18	5.06	-9.50	95.12	39.43	353.07	31.71	398.08	344.44	394.74	94.74	357.58	33.02	224.73	344.69
21086	-2.99	5.06	-9.50	86.24	39.39	336.98	22.48	399.64	341.84	410.54	102.60	354.86	26.82	213.62	342.23
21087	-1.79	5.05	-9.50	78.88	39.52	325.92	13.94	400.89	339.61	427.35	110.23	352.09	24.37	201.60	340.19
21088	-0.60	5.05	-9.50	74.26	39.82	320.37	9.16	401.88	337.80	445.62	117.59	349.27	27.32	189.07	338.62
21089	-18.21	6.18	-9.50	42.28	40.21	562.45	56.81	236.81	319.39	104.20	41.97	317.33	58.53	113.97	319.87
21090	-17.04	6.18	-9.50	63.88	37.03	588.73	64.17	281.43	332.10	150.00	37.16	342.16	64.48	151.42	332.70
21091	-15.86	6.18	-9.50	85.84	36.17	594.50	69.39	313.29	342.10	190.82	35.39	360.14	68.68	183.78	342.63
21092	-14.69	6.18	-9.50	103.62	36.79	586.70	72.72	335.05	349.36	224.63	36.71	372.26	71.37	208.49	349.73
21093	-13.51	6.17	-9.50	116.04	37.94	570.07	74.30	350.19	353.82	252.01	40.18	379.91	72.60	226.19	354.06
21094	-12.34	6.17	-9.50	123.48	38.93	547.63	74.10	361.43	355.65	274.64	44.92	384.14	72.24	238.22	355.79
21095	-11.16	6.17	-9.50	126.81	39.48	521.45	72.04	370.24	355.31	294.23	50.54	385.75	70.15	245.61	355.38
21096	-9.99	6.17	-9.50	126.80	39.56	493.23	68.20	377.25	353.42	311.89	56.88	385.43	66.32	249.02	353.46
21097	-8.81	6.17	-9.50	123.99	39.35	464.48	62.77	382.72	350.65	328.23	63.83	383.82	60.95	248.90	350.68
21098	-7.64	6.16	-9.50	118.76	39.04	436.53	56.08	386.86	347.49	343.56	71.18	381.44	54.37	245.71	347.55
21099	-6.46	6.16	-9.50	111.58	38.75	410.48	48.45	389.94	344.30	358.16	78.71	378.68	47.01	239.98	344.40
21100	-5.29	6.16	-9.50	103.02	38.57	387.23	40.21	392.24	341.24	372.33	86.25	375.77	39.41	232.19	341.45
21101	-4.11	6.16	-9.50	93.86	38.52	367.57	31.69	393.98	338.45	386.45	93.66	372.84	32.43	222.81	338.80
21102	-2.94	6.16	-9.50	85.02	38.60	352.16	23.32	395.34	335.98	400.94	100.83	369.94	27.49	212.24	336.52
21103	-1.76	6.15	-9.50	77.67	38.80	341.58	15.99	396.44	333.87	416.22	107.72	367.08	26.63	200.88	334.66
21104	-0.59	6.15	-9.50	73.02	39.10	336.30	12.22	397.34	332.16	432.70	114.27	364.25	30.76	189.13	333.28
21105	-17.83	7.26	-9.50	47.25	40.96	558.32	57.03	240.66	311.83	109.04	42.06	328.52	59.34	119.51	312.41
21106	-16.68	7.26	-9.50	66.88	37.11	584.06	63.55	280.84	324.41	151.86	37.13	354.69	64.03	152.35	325.16
21107	-15.53	7.26	-9.50	86.56	35.56	591.79	68.24	309.75	334.39	189.96	35.54	374.24	67.34	181.09	335.04
21108	-14.38	7.26	-9.50	102.43	35.57	587.20	71.22	330.02	341.61	221.68	37.14	387.92	69.40	203.64	342.07
21109	-13.23	7.26	-9.50	113.53	36.28	573.97	72.51	344.77	345.99	247.63	40.90	396.82	70.15	220.49	346.28
21110	-12.08	7.26	-9.50	120.32	37.01	554.43	72.05	356.21	347.77	269.42	45.94	401.81	69.42	232.52	347.93
21111	-10.93	7.26	-9.50	123.57	37.47	530.42	69.81	365.41	347.46	288.58	51.78	403.68	67.07	240.30	347.55
21112	-9.78	7.26	-9.50	123.85	37.63	503.77	65.92	372.68	345.73	305.97	58.18	403.27	63.12	244.15	345.78
21113	-8.63	7.26	-9.50	121.43	37.59	476.24	60.62	378.16	343.19	321.97	64.96	401.40	57.78	244.37	343.24
21114	-7.48	7.26	-9.50	116.56	37.49	449.35	54.23	382.12	340.34	336.75	71.94	398.71	51.40	241.45	340.42
21115	-6.33	7.26	-9.50	109.63	37.42	424.31	47.10	384.92	337.47	350.54	78.92	395.68	44.40	235.99	337.62
21116	-5.18	7.25	-9.50	101.25	37.42	402.06	39.53	386.90	334.73	363.67	85.79	392.55	37.39	228.55	335.01
21117	-4.03	7.25	-9.50	92.19	37.50	383.32	31.85	388.36	332.21	376.53	92.44	389.48	31.26	219.64	332.66
21118	-2.88	7.25	-9.50	83.40	37.64	368.71	24.53	389.49	329.95	389.53	98.80	386.50	27.57	209.70	330.64
21119	-1.73	7.25	-9.50	76.03	37.84	358.72	18.48	390.41	328.00	403.07	104.80	383.62	28.07	199.08	329.00
21120	-0.58	7.25	-9.50	71.36	38.08	353.74	15.52	391.19	326.42	417.55	110.41	380.81	33.17	188.19	327.80
21121	-18.78	3.96	-10.50	75.18	50.48	625.77	72.77	274.48	357.82	149.48	51.31	327.77	73.50	162.10	357.95
21122	-17.57	3.96	-10.50	114.61	53.68	637.10	81.75	324.42	365.46	212.78	47.58	346.86	81.92	206.92	365.67
21123	-16.36	3.96	-10.50	145.08	56.32	626.80	87.06	355.51	370.92	264.99	45.04	357.01	86.88	238.65	371.11
21124	-15.15	3.96	-10.50	165.11	58.34	605.01	89.77	373.28	374.71	305.15	44.68	362.12	89.37	259.51	374.85
21125	-13.94	3.96	-10.50	175.80	59.64	577.55	90.56	383.21	376.80	335.31	46.39	364.59	90.05	272.61	376.88
21126	-12.73	3.96	-10.50	179.29	60.03	547.33	89.63	389.16	377.08	358.59	49.70	365.47	89.06	280.33	377.12
21127	-11.51	3.96	-10.50	177.54	59.49	515.90	86.82	393.19	375.67	377.71	54.39	365.22	86.25	284.06	375.68
21128	-10.30	3.96	-10.50	171.98	58.18	484.31	82.04	396.23	372.98	394.55	60.51	364.13	81.54	284.55	372.98
21129	-9.09	3.96	-10.50	163.60	56.41	453.47	75.38	398.63	369.52	410.28	68.03	362.44	75.02	282.24	369.51
21130	-7.88	3.96	-10.50	153.07	54.52	424.16	67.12	400.53	365.76	425.63	76.68	360.38	66.97	277.46	365.75
21131	-6.67	3.95	-10.50	141.01	52.77	397.13	57.60	402.05	362.02	441.13	86.10	358.11	57.82	270.55	362.04
21132	-5.45	3.95	-10.50	128.09	51.34	373.11	47.16	403.28	358.53	457.24	95.94	355.75	48.10	261.85	358.58
21133	-4.24	3.95	-10.50	115.13	50.31	352.78	36.15	404.30	355.41	474.42	105.92	353.37	38.52	251.68	355.51
21134	-3.03	3.95	-10.50	103.20	49.72	336.81	24.88	405.20	352.71	493.14	115.87	351.00	30.39	240.40	352.90
21135	-1.82	3.95	-10.50	93.68	49.57	325.82	13.97	406.01	350.50	513.90	125.67	348.64	26.14	228.33	350.79
21136	-0.61	3.95	-10.50	88.11	49.83	320.30	7.16	406.76	348.79	537.14	135.26	346.26	28.28	215.87	349.22
21137	-18.53	5.08	-10.50	76.75	49.96	622.41	71.59	276.74	353.88	151.65	50.16	337.75	72.76	165.48	354.08
21138	-17.33	5.08	-10.50	114.08	51.80	633.99	79.57	323.61	362.46	212.38	45.70	358.07	79.87	207.09	362.78
21139	-16.14	5.08	-10.50	143.01	54.07	625.60	84.60	352.91	368.94	262.60	43.60	369.77	84.31	236.70	369.24
21140	-14.94	5.08	-10.50	162.09	56.31	606.44	87.59	369.89	373.47	301.48	44.16	376.31	86.92	256.38	373.69

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
21169	-17.83	7.26	-10.50	80.84	48.69	612.73	69.65	282.46	337.07	157.58	47.46	362.08	71.92	173.59	337.39
21170	-16.68	7.26	-10.50	112.86	47.69	625.12	75.87	320.97	347.48	211.61	41.85	385.20	76.51	206.80	348.03
21171	-15.53	7.26	-10.50	137.80	48.59	622.35	80.42	345.28	355.69	256.62	40.22	400.83	79.83	230.68	356.21
21172	-14.38	7.26	-10.50	154.41	50.32	610.78	83.71	360.20	361.22	292.10	41.93	411.12	82.25	247.35	361.58
21173	-13.23	7.26	-10.50	163.66	51.80	593.26	85.51	370.14	363.64	319.79	45.44	417.16	83.51	259.33	363.82
21174	-12.08	7.26	-10.50	167.50	52.37	570.92	85.34	377.67	363.05	342.32	49.93	419.55	83.08	267.96	363.09
21175	-10.93	7.26	-10.50	167.45	51.96	544.85	82.86	383.55	360.17	361.75	55.37	419.00	80.53	273.37	360.12
21176	-9.78	7.26	-10.50	164.20	50.89	516.68	78.15	387.76	356.00	379.10	61.89	416.51	75.82	275.31	355.91
21177	-8.63	7.26	-10.50	157.97	49.61	488.20	71.62	390.36	351.44	394.77	69.39	413.01	69.31	273.85	351.35
21178	-7.48	7.26	-10.50	149.05	48.44	460.91	63.82	391.70	347.05	409.04	77.51	409.20	61.54	269.50	346.99
21179	-6.33	7.26	-10.50	137.96	47.57	435.90	55.25	392.24	343.06	422.36	85.87	405.44	53.15	262.90	343.08
21180	-5.18	7.25	-10.50	125.52	47.02	413.95	46.29	392.39	339.56	435.30	94.22	401.92	44.85	254.68	339.68
21181	-4.03	7.25	-10.50	112.70	46.77	395.64	37.34	392.43	336.55	448.41	102.37	398.69	37.74	245.34	336.83
21182	-2.88	7.25	-10.50	100.70	46.77	381.45	28.92	392.53	334.01	462.23	110.23	395.73	33.56	235.28	334.50
21183	-1.73	7.25	-10.50	90.98	46.97	371.78	22.07	392.79	331.97	477.22	117.73	393.01	34.31	224.86	332.73
21184	-0.58	7.25	-10.50	85.15	47.32	366.93	18.82	393.23	330.45	493.80	124.82	390.49	40.41	214.43	331.55
21185	-23.24	3.96	-9.50	8.72	68.77	239.19	13.44	45.17	253.36	6.30	49.83	504.69	11.51	51.57	253.20
21186	-22.38	3.96	-9.50	20.85	60.05	288.75	18.60	56.05	271.56	12.48	49.89	376.75	19.71	69.09	270.90
21187	-21.53	3.96	-9.50	26.94	52.26	374.26	27.37	82.40	288.84	12.96	48.94	298.76	29.45	66.49	288.31
21188	-20.67	3.96	-9.50	26.11	45.88	456.48	37.37	125.17	304.17	25.80	47.10	272.01	39.34	58.80	303.94
21189	-19.82	3.96	-9.50	23.20	41.24	520.55	47.12	174.05	317.36	53.76	44.59	278.00	48.56	68.37	317.41
21190	-23.02	5.07	-9.50	10.06	70.82	240.04	17.35	56.98	250.49	6.92	56.20	493.26	15.54	62.14	250.26
21191	-22.15	5.07	-9.50	22.09	62.55	291.60	21.90	68.58	267.92	13.44	55.46	369.36	23.64	76.95	266.88
21192	-21.29	5.08	-9.50	28.27	54.93	376.35	29.71	93.56	284.53	16.55	53.35	296.85	32.85	73.83	283.67
21193	-20.42	5.08	-9.50	28.18	48.40	456.93	38.85	134.08	299.50	30.90	50.16	275.38	41.88	67.44	299.12
21194	-19.56	5.08	-9.50	27.13	43.22	519.44	47.81	180.82	312.61	58.60	46.30	284.82	50.07	76.88	312.67
21195	-22.75	6.17	-9.50	11.85	73.03	241.30	21.59	68.72	246.38	8.16	62.70	479.40	20.19	72.93	246.07
21196	-21.87	6.18	-9.50	23.70	65.11	295.14	25.55	80.93	262.65	15.14	61.04	360.70	28.09	85.06	261.16
21197	-20.99	6.18	-9.50	29.97	57.65	378.85	32.41	105.29	278.48	20.84	57.69	295.01	36.62	81.48	277.26
21198	-20.12	6.18	-9.50	30.75	50.97	457.41	40.58	143.91	293.10	36.71	53.10	279.77	44.71	76.29	292.56
21199	-19.24	6.18	-9.50	31.47	45.26	518.01	48.68	188.43	306.20	64.33	47.92	293.11	51.81	85.73	306.26
21200	-22.42	7.26	-9.50	14.12	74.63	243.21	25.87	79.60	240.92	10.34	68.07	463.29	25.24	83.09	240.60
21201	-21.53	7.26	-9.50	25.77	66.82	299.48	29.33	92.97	255.81	17.75	65.31	350.73	32.67	93.16	253.90
21202	-20.64	7.26	-9.50	32.11	59.48	381.79	35.26	117.20	271.15	25.89	60.61	293.14	40.51	89.05	269.54
21203	-19.75	7.26	-9.50	33.82	52.62	457.79	42.51	154.20	285.57	43.28	54.77	284.83	47.77	84.88	284.83
21204	-18.86	7.26	-9.50	36.18	46.52	516.00	49.82	196.36	298.68	70.92	48.61	302.23	53.90	94.31	298.73
21205	-23.24	3.96	-10.50	10.00	59.17	270.16	13.05	51.31	285.92	7.29	54.01	556.00	13.25	56.31	285.39
21206	-22.38	3.96	-10.50	19.41	51.39	337.31	23.58	61.58	306.83	11.48	55.26	390.59	25.71	61.21	305.99
21207	-21.53	3.96	-10.50	20.73	47.35	442.31	36.39	97.73	324.44	15.80	55.87	302.51	38.86	57.06	323.79
21208	-20.67	3.96	-10.50	18.38	46.48	531.67	49.88	155.82	338.49	45.50	55.67	287.05	51.91	76.05	338.17
21209	-19.82	3.96	-10.50	38.55	47.88	590.85	61.66	215.07	348.89	90.23	54.34	304.34	63.06	114.85	348.84
21210	-23.02	5.07	-10.50	11.11	64.29	271.49	17.18	64.76	283.24	7.97	61.72	542.01	17.76	68.58	282.40
21211	-22.15	5.07	-10.50	20.68	56.88	341.10	26.88	76.12	303.23	13.27	61.69	383.08	30.01	72.77	301.88
21212	-21.29	5.08	-10.50	22.50	52.29	444.29	38.80	109.60	320.07	20.77	60.60	302.99	42.54	69.51	319.03
21213	-20.42	5.08	-10.50	22.75	49.88	531.19	51.16	164.10	333.78	50.43	58.27	293.23	54.29	86.30	333.26
21214	-19.56	5.08	-10.50	42.14	49.38	588.62	61.81	220.65	344.34	94.36	54.94	313.04	64.00	121.74	344.25
21215	-22.75	6.17	-10.50	12.70	70.11	273.26	21.85	77.88	277.74	9.43	70.68	526.10	23.29	80.68	276.46
21216	-21.87	6.18	-10.50	22.24	63.19	345.23	30.74	90.07	295.98	15.90	69.33	375.28	35.10	83.94	294.02
21217	-20.99	6.18	-10.50	24.98	58.01	446.45	41.45	121.96	311.87	26.18	66.17	304.45	46.52	81.46	310.38
21218	-20.12	6.18	-10.50	27.30	53.91	530.75	52.48	173.54	325.44	56.01	61.33	301.10	56.76	96.95	324.69
21219	-19.24	6.18	-10.50	46.11	51.26	586.04	61.90	227.39	336.39	99.26	55.72	323.72	64.95	129.60	336.24
21220	-22.42	7.26	-10.50	14.79	74.53	275.77	26.69	89.52	269.07	11.83	78.24	508.19	29.23	91.50	267.48
21221	-21.53	7.26	-10.50	24.29	67.42	350.02	34.74	103.41	285.37	19.42	75.04	366.36	40.13	94.54	282.87
21222	-20.64	7.26	-10.50	28.02	61.69	448.84	44.14	134.74	300.75	32.20	69.64	305.91	50.43	92.86	298.80
21223	-19.75	7.26	-10.50	32.14	56.16	529.81	53.95	183.94	314.51	62.48	62.55	309.38	59.43	107.73	313.50
21224	-18.86	7.26	-10.50	50.60	51.90	582.25	62.31	234.85	326.01	105.10	55.20	334.76	66.31	137.89	325.78
21225	17.50	8.10	-9.50	255.23	42.77	583.73	63.00	232.81	286.72	1433.08	42.78	421.48	271.32	438.33	328.77
21226	17.23	8.70	-9.50	224.37	43.35	576.90	67.65	235.36	284.65	1281.07	43.28	411.94	314.99	432.29	330.23
21227	16.37	8.10	-9.50	209.95	38.84	600.64	59.29	273.67	299.71	1204.43	54.58	445.07	249.40	405.99	316.63
21228	16.11	8.70	-9.50	188.52	39.56	594.59	61.22	272.81	297.17	1091.70	52.06	434.57	274.45	394.24	315.30
21229	15.24	8.10	-9.50	182.06	36.92	603.77	58.29	304.03	309.89	1038.29	72.59	447.21	228.09	359.26	314.63
21230	15.00	8.70	-9.50	166.72	37.37	599.72	58.81	301.05	306.96	951.68	67.34	439.77	243.85	346.85	312.08
21231	14.11	8.10	-9.50	164.88	36.17	597.64	58.94	326.48	317.31	913.67	88.22	438.67	209.64	308.49	317.63
21232	13.89	8.70	-9.50	153.40	36.25	596.01	58.57	322.81	314.15	844.22	81.31	435.63	220.25	297.23	314.52
21233	12.98	8.10	-9.50	153.60	36.18	584.56	59.98	343.55	322.05	817.57	99.94	426.10	192.99	261.90	321.99
21234	12.78	8.70	-9.50	144.84	35.96	585.12	58.88	339.50	318.70	761.66	91.44	427.10	199.56	254.22	318.62
21235	11.85	8.10	-9.50	145.29	36.43	565.81	60.55	356.98	324.46	741.86	108.86	413.08	177.50	223.45	325.74
21236	11.67	8.70	-9.50	138.41	35.80	568.20	58.93	352.92	321.12	695.36	100.22	417.43	181.88	218.82	322.40
21237	10.73	8.10	-9.50	138.21	36.73	542.67	60.14	367.54	325.14	680.32	115.55	401.60	163.07	194.06	328.08
21238	10.56	8.70	-9.50	132.78	35.83	546.51	58.21	363.52	322.01	640.87	106.97	408.44	166.04	192.12	324.99
21239	9.66	8.10	-9.50	131.26	3										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
21267	11.85	8.10	-10.50	185.45	52.68	583.05	76.44	378.13	342.02	835.01	141.10	420.74	220.89	278.86	343.57
21268	11.67	8.70	-10.50	179.01	50.61	586.04	74.81	374.22	338.08	784.70	130.07	426.48	225.85	271.96	339.66
21269	10.73	8.10	-10.50	178.94	52.14	557.30	75.76	385.52	339.93	776.79	145.70	411.36	203.59	243.39	343.09
21270	10.56	8.70	-10.50	174.00	49.99	561.41	73.74	381.84	336.34	732.97	135.06	418.53	207.12	239.96	339.56
21271	9.60	8.10	-10.50	171.04	51.34	529.25	73.19	390.32	336.83	726.62	147.96	403.87	185.70	217.59	341.13
21272	9.45	8.70	-10.50	167.24	49.27	534.17	71.05	386.47	333.66	688.26	137.86	412.00	188.11	216.39	338.01
21273	8.47	8.10	-10.50	161.24	50.47	500.88	68.96	392.70	333.57	683.03	148.56	398.79	167.19	199.53	338.39
21274	8.34	8.70	-10.50	158.21	48.52	506.56	66.92	388.50	330.83	649.34	139.34	407.58	168.96	199.41	335.69
21275	7.34	8.10	-10.50	149.50	49.67	473.77	63.48	393.29	330.65	644.99	147.94	395.96	148.51	187.95	335.48
21276	7.22	8.70	-10.50	146.98	47.87	480.23	61.72	388.69	328.29	615.47	139.61	405.15	149.90	188.23	333.16
21277	6.21	8.10	-10.50	136.30	48.98	448.99	57.11	392.78	328.24	611.70	146.30	394.83	130.08	181.86	332.76
21278	6.11	8.70	-10.50	134.13	47.31	456.23	55.73	387.83	326.18	585.89	138.88	404.25	131.29	182.13	330.74
21279	5.08	8.10	-10.50	122.40	48.38	427.25	50.13	391.74	326.40	582.44	143.80	394.88	112.24	180.33	330.40
21280	5.00	8.70	-10.50	120.51	46.83	435.23	49.21	386.52	324.55	559.92	137.24	404.39	113.39	180.31	328.61
21281	3.95	8.10	-10.50	108.80	47.83	409.08	42.82	390.52	325.12	556.61	140.53	395.70	95.26	182.44	328.52
21282	3.89	8.70	-10.50	107.14	46.40	417.72	42.44	385.11	323.42	536.99	134.80	405.23	96.41	181.98	326.88
21283	2.82	8.10	-10.50	96.72	47.32	394.93	35.56	389.34	324.40	533.73	136.57	397.03	79.32	187.36	327.19
21284	2.78	8.70	-10.50	95.25	45.99	404.11	35.81	383.80	322.80	516.67	131.61	406.54	80.50	186.36	325.65
21285	1.69	8.10	-10.50	87.61	46.84	385.20	28.98	388.30	324.26	513.43	131.98	398.73	64.68	194.32	326.45
21286	1.67	8.70	-10.50	86.28	45.61	394.77	29.91	382.69	322.69	498.60	127.75	408.22	65.88	192.74	324.96
21287	0.56	8.10	-10.50	82.97	46.40	380.17	24.17	387.48	324.67	495.36	126.84	400.74	51.72	202.66	326.34
21288	0.56	8.70	-10.50	81.75	45.26	389.95	25.75	381.85	323.12	482.48	123.31	410.20	52.89	200.48	324.85
21289	22.14	8.10	-9.50	921.43	256.41	125.41	135.95	176.18	148.04	3959.08	1016.33	1792.75	206.53	548.25	287.82
21290	21.91	8.70	-9.50	897.38	301.52	142.72	240.64	158.22	144.13	4003.51	1130.03	1843.74	892.15	795.40	734.89
21291	21.23	8.10	-9.50	687.19	168.48	318.31	92.06	115.12	206.36	3199.75	595.13	983.75	167.02	293.32	462.05
21292	20.99	8.70	-9.50	616.86	139.21	326.97	144.24	105.70	213.13	2965.20	431.70	881.90	531.48	417.01	564.57
21293	20.33	8.10	-9.50	517.98	91.30	432.38	80.82	109.18	238.40	2572.48	255.57	466.49	233.55	353.79	423.00
21294	20.07	8.70	-9.50	450.95	77.63	431.16	114.45	115.54	237.87	2293.05	178.16	438.04	465.20	425.85	462.65
21295	19.42	8.10	-9.50	399.55	61.53	504.36	75.40	144.03	257.28	2078.32	119.16	347.47	278.84	419.49	382.48
21296	19.16	8.70	-9.50	345.19	57.57	499.37	93.46	151.96	256.00	1833.87	92.96	345.82	411.02	449.97	400.24
21297	18.52	8.10	-9.50	317.60	49.16	552.35	68.98	187.86	272.57	1719.88	61.43	378.71	285.11	444.21	351.61
21298	18.24	8.70	-9.50	275.45	48.46	545.97	78.61	193.84	270.88	1521.81	55.32	374.09	362.34	451.14	358.70
21299	22.14	8.10	-10.50	939.11	273.88	151.17	182.47	96.94	226.88	5744.68	1294.92	2186.35	283.90	1105.88	590.35
21300	21.91	8.70	-10.50	847.93	314.05	174.99	264.40	133.65	204.67	4961.75	1256.02	2098.61	1230.81	1205.01	1022.20
21301	21.23	8.10	-10.50	653.05	158.64	381.72	106.64	134.87	252.73	3884.69	553.27	793.52	272.12	833.84	538.94
21302	20.99	8.70	-10.50	565.67	133.68	384.85	150.19	147.29	253.62	3328.65	413.48	747.00	661.08	879.54	603.76
21303	20.33	8.10	-10.50	483.48	89.65	494.06	91.70	155.24	273.01	2836.74	218.36	390.29	321.98	781.55	452.04
21304	20.07	8.70	-10.50	413.35	80.20	490.04	117.82	162.40	270.84	2434.74	165.11	390.42	543.59	774.74	508.17
21305	19.42	8.10	-10.50	373.53	65.61	568.65	83.29	193.56	288.68	2203.35	93.56	367.32	340.87	716.91	415.84
21306	19.16	8.70	-10.50	320.31	62.62	561.66	97.31	198.98	286.14	1910.86	79.42	364.40	465.98	693.08	440.98
21307	18.52	8.10	-10.50	301.14	56.79	612.04	76.97	238.19	301.56	1796.83	54.32	410.89	335.91	661.89	382.25
21308	18.24	8.70	-10.50	261.36	55.80	603.49	84.54	241.69	298.75	1578.27	53.39	401.49	409.42	633.57	392.23
21309	-17.23	8.70	-9.50	54.18	40.90	551.47	58.01	244.22	301.75	116.44	41.15	344.10	61.21	125.09	302.41
21310	-17.50	8.10	-9.50	51.27	41.06	554.55	57.50	243.20	305.83	113.21	41.64	337.53	60.33	123.27	306.46
21311	-16.11	8.70	-9.50	70.87	36.87	576.58	63.37	277.85	313.68	154.46	36.90	371.40	64.20	151.41	314.56
21312	-16.37	8.10	-9.50	69.27	37.02	579.91	63.38	279.60	318.07	153.39	37.01	364.51	64.05	152.33	318.91
21313	-15.00	8.70	-9.50	87.11	34.86	587.13	67.08	302.62	323.17	188.27	36.10	392.57	65.95	175.15	323.94
21314	-15.24	8.10	-9.50	87.02	35.14	589.29	67.56	306.10	327.81	189.12	35.81	385.12	66.53	178.14	328.54
21315	-13.89	8.70	-9.50	100.27	34.31	586.93	69.19	321.38	330.12	217.05	38.41	408.04	66.71	195.38	330.67
21316	-14.11	8.10	-9.50	101.28	34.77	587.31	70.09	325.30	334.86	219.05	37.76	399.94	67.89	199.11	335.38
21317	-12.78	8.70	-9.50	109.48	34.50	578.17	69.72	335.75	334.39	240.86	42.75	418.50	66.41	211.13	334.75
21318	-12.98	8.10	-9.50	111.30	35.15	576.76	70.96	339.84	339.18	243.81	41.84	409.78	68.06	215.38	339.50
21319	-11.67	8.70	-9.50	115.41	34.93	562.40	68.57	347.52	336.42	261.34	48.28	424.57	64.75	223.12	336.64
21320	-11.85	8.10	-9.50	117.59	35.69	559.47	70.14	351.48	341.04	264.90	47.17	415.39	66.84	227.40	341.23
21321	-10.56	8.70	-9.50	118.68	35.35	541.35	65.97	357.14	336.75	279.87	54.39	427.04	61.82	231.31	336.89
21322	-10.73	8.10	-9.50	120.82	36.10	537.19	67.68	360.96	341.01	283.69	53.19	417.56	64.16	235.46	341.12
21323	-9.45	8.70	-9.50	119.33	35.63	517.03	62.07	364.51	335.84	296.76	60.72	426.88	57.66	235.44	335.94
21324	-9.60	8.10	-9.50	121.33	36.33	511.84	63.77	368.34	339.67	300.83	59.60	417.22	60.08	239.55	339.75
21325	-8.34	8.70	-9.50	117.34	35.82	491.53	57.11	369.78	334.20	312.03	67.04	425.08	52.42	235.85	334.31
21326	-8.47	8.10	-9.50	119.19	36.43	485.40	58.63	373.75	337.59	316.46	66.16	415.30	54.79	239.94	337.67
21327	-7.22	8.70	-9.50	112.82	35.96	466.58	51.38	373.32	332.22	325.78	73.26	422.42	46.42	233.13	332.38
21328	-7.34	8.10	-9.50	114.55	36.48	459.52	52.60	377.48	335.20	330.70	72.72	412.54	48.61	237.17	335.32
21329	-6.11	8.70	-9.50	106.18	36.07	443.44	45.15	375.65	330.14	338.23	79.30	419.43	40.09	227.97	330.39
21330	-6.21	8.10	-9.50	107.80	36.53	435.48	45.96	380.00	332.75	343.75	79.18	409.45	41.98	231.88	332.96
21331	-5.00	8.70	-9.50	98.02	36.19	423.01	38.70	377.22	328.06	349.76	85.10	416.39	34.04	221.04	328.45
21332	-5.08	8.10	-9.50	99.55	36.61	414.18	39.02	381.72	330.38	355.98	85.43	406.30	35.49	224.73	330.72
21333	-3.89	8.70	-9.50	89.15	36.31	405.94	32.32	378.35	326.06	360.79	90.62	413.46	29.27	212.88	326.66
21334	-3.95	8.10	-9.50	90.57	36.73	396.32	32.09	382.96	328.15	367.78	91.42	403.23	30.11	216.23	328.69
21335	-2.78	8.70	-9.50	80.51	36.43	392.74	26.47	379.23	324.19	371.72	95.82	410.68	27.28	203.94	325.06
21336	-2.82	8.10	-9.5												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
21365	-3.89	8.70	-10.50	110.16	44.87	416.22	38.65	381.49	329.13	431.95	100.33	420.85	35.14	237.23	329.52
21366	-3.95	8.10	-10.50	111.40	45.55	407.46	38.34	386.67	331.26	439.25	101.22	411.34	36.16	241.27	331.60
21367	-2.78	8.70	-10.50	98.21	44.86	403.20	31.99	381.18	327.01	443.05	106.80	417.97	32.57	227.87	327.62
21368	-2.82	8.10	-10.50	99.39	45.59	393.87	31.03	386.52	328.92	451.48	108.28	408.36	32.81	231.60	329.49
21369	-1.67	8.70	-10.50	88.47	44.95	394.36	26.92	381.15	325.27	454.89	112.86	415.32	34.97	218.37	326.19
21370	-1.69	8.10	-10.50	89.62	45.76	384.63	25.36	386.59	327.02	464.65	114.94	405.63	34.46	221.68	327.88
21371	-0.56	8.70	-10.50	82.55	45.05	389.86	24.58	381.36	323.98	467.92	118.37	412.65	42.23	208.94	325.26
21372	-0.56	8.10	-10.50	83.72	46.03	380.00	22.72	386.90	325.60	479.18	121.15	403.07	41.24	211.87	326.82
21373	-22.14	8.10	-9.50	16.11	74.66	245.36	29.22	88.04	235.31	12.42	70.75	448.85	28.90	91.00	235.14
21374	-21.23	8.10	-9.50	27.74	67.43	303.53	32.21	102.41	250.32	20.45	67.09	342.15	36.02	99.55	248.11
21375	-20.33	8.10	-9.50	34.12	60.00	384.43	37.49	126.48	265.59	30.42	61.35	291.82	43.60	94.79	263.65
21376	-19.42	8.10	-9.50	36.55	53.02	457.98	44.14	162.23	279.82	48.91	54.83	289.29	50.34	91.25	278.89
21377	-18.52	8.10	-9.50	40.10	46.75	514.01	50.93	202.40	292.88	76.63	48.23	309.82	55.80	100.53	292.89
21378	-21.91	8.70	-9.50	18.06	74.66	247.45	31.64	95.26	231.57	14.62	72.16	437.03	31.46	97.67	231.51
21379	-20.99	8.70	-9.50	29.41	67.51	307.00	34.24	109.11	247.22	23.00	67.36	335.56	38.71	103.93	244.75
21380	-20.07	8.70	-9.50	35.80	59.94	386.55	39.19	132.97	262.04	34.10	61.20	291.14	46.06	98.57	259.86
21381	-19.16	8.70	-9.50	38.72	52.91	458.00	45.47	167.76	276.10	53.37	54.36	292.93	52.39	95.35	275.04
21382	-18.24	8.70	-9.50	43.06	46.58	512.25	51.91	206.34	289.03	81.18	47.61	315.59	57.35	104.36	289.01
21383	-22.14	8.10	-10.50	17.06	76.30	278.61	30.04	98.43	260.05	14.31	82.39	491.98	33.49	99.99	258.50
21384	-21.23	8.10	-10.50	26.22	68.79	354.79	37.77	113.81	276.82	22.94	77.01	357.99	43.91	102.64	274.00
21385	-20.33	8.10	-10.50	30.86	62.50	450.82	46.37	144.79	292.21	37.56	69.95	306.81	53.79	101.35	289.89
21386	-19.42	8.10	-10.50	36.30	56.14	528.38	55.54	192.11	306.12	68.31	61.67	315.72	62.13	115.75	304.89
21387	-18.52	8.10	-10.50	54.52	51.14	578.05	63.27	240.33	317.99	110.35	53.56	343.07	68.16	143.84	317.68
21388	-21.91	8.70	-10.50	18.61	74.76	281.65	32.62	106.28	255.08	16.52	82.17	477.79	35.87	107.29	253.71
21389	-20.99	8.70	-10.50	28.00	67.78	359.08	39.81	121.19	272.57	25.94	75.74	351.32	46.61	108.21	269.48
21390	-20.07	8.70	-10.50	33.02	61.00	452.52	48.03	152.02	287.57	41.85	68.05	307.66	56.19	107.01	285.00
21391	-19.16	8.70	-10.50	39.47	54.52	526.77	56.79	197.69	301.43	73.06	59.45	320.48	64.10	120.92	300.03
21392	-18.24	8.70	-10.50	57.60	49.49	574.12	64.15	243.64	313.32	114.66	51.29	348.97	69.62	147.31	312.95
21393	0.70	20.20	-9.50	87.41	39.24	559.78	4.54	267.23	156.95	159.73	45.03	571.63	35.53	122.30	157.43
21394	2.10	20.10	-9.50	85.17	40.58	559.04	9.45	266.19	158.99	162.10	44.21	568.25	42.76	122.99	159.61
21395	3.49	19.90	-9.50	82.10	42.65	557.57	14.55	264.12	163.45	164.69	44.07	561.73	50.53	125.25	163.98
21396	4.86	19.62	-9.50	78.41	45.16	555.44	19.37	261.25	170.31	167.95	44.64	552.20	58.85	129.42	170.58
21397	6.20	19.23	-9.50	74.24	47.92	552.65	23.65	257.61	179.27	172.42	46.02	539.71	67.74	135.59	179.28
21398	7.52	18.76	-9.50	69.75	50.70	549.16	27.28	253.17	189.91	178.70	48.26	524.28	77.31	143.77	189.92
21399	8.80	18.19	-9.50	65.19	53.25	544.93	30.17	247.88	201.78	187.55	51.32	506.03	87.89	154.05	202.34
21400	10.04	17.54	-9.50	60.98	55.25	539.92	32.30	241.74	214.35	200.00	55.10	485.24	100.05	166.73	216.34
21401	11.23	16.80	-9.50	57.76	56.30	534.16	33.81	234.85	226.90	217.60	59.53	462.51	114.71	182.44	231.59
21402	12.37	15.98	-9.50	56.23	56.07	527.91	35.19	227.62	238.56	242.57	64.56	438.97	133.53	202.33	247.70
21403	13.44	15.08	-9.50	57.09	54.64	521.77	37.29	220.75	248.33	278.53	71.54	416.33	158.13	228.43	264.29
21404	14.46	14.11	-9.50	61.38	52.88	516.80	41.10	215.12	255.83	333.57	80.36	396.43	191.35	262.77	282.57
21405	15.40	13.08	-9.50	71.71	52.08	514.41	47.69	211.51	261.41	422.20	90.69	380.67	238.31	305.70	303.77
21406	16.27	11.98	-9.50	94.06	52.98	516.25	58.40	209.18	265.22	570.73	98.79	370.01	304.47	355.21	328.66
21407	17.06	10.82	-9.50	138.04	53.14	523.44	72.42	206.32	267.69	818.93	90.75	365.44	378.57	404.25	351.53
21408	17.76	9.62	-9.50	210.25	49.63	535.55	82.56	200.33	269.25	1194.30	63.48	368.26	412.96	439.54	361.74
21409	0.74	21.03	-9.50	101.94	35.25	520.58	5.35	257.27	118.51	153.63	38.32	531.92	27.68	112.32	119.24
21410	2.22	20.93	-9.50	98.98	36.73	519.29	10.73	256.01	121.22	155.49	38.20	528.86	34.87	114.91	122.07
21411	3.69	20.72	-9.50	94.71	39.18	517.20	16.54	253.52	127.07	157.06	39.22	522.86	42.89	119.78	127.63
21412	5.14	20.41	-9.50	89.42	42.22	514.55	21.93	250.07	135.92	158.88	41.28	514.24	51.52	126.94	136.00
21413	6.57	19.99	-9.50	83.27	45.61	511.34	26.48	245.67	147.19	161.44	44.37	502.98	60.58	136.17	147.01
21414	7.96	19.48	-9.50	76.39	49.12	507.45	30.01	240.21	160.20	165.27	48.47	489.02	70.09	147.19	160.43
21415	9.32	18.87	-9.50	69.09	52.44	502.77	32.40	233.61	174.33	171.03	53.47	472.40	80.32	159.95	176.14
21416	10.62	18.17	-9.50	61.92	55.16	497.20	33.65	225.86	188.97	179.69	59.26	453.36	91.85	174.72	194.03
21417	11.88	17.37	-9.50	55.70	56.80	490.81	34.02	217.12	203.37	192.70	65.85	432.50	105.73	192.35	213.99
21418	13.07	16.49	-9.50	51.42	56.95	483.88	34.21	207.83	216.67	212.19	73.75	410.87	123.70	214.39	235.97
21419	14.20	15.53	-9.50	50.03	55.75	477.11	35.43	198.84	228.09	242.10	84.34	390.04	148.08	243.07	260.60
21420	15.26	14.48	-9.50	52.60	54.35	471.69	39.05	191.16	237.39	290.10	99.20	371.63	183.22	280.22	289.75
21421	16.24	13.37	-9.50	61.80	54.86	469.14	46.72	185.21	244.86	371.11	120.37	356.84	237.55	325.52	325.39
21422	17.14	12.19	-9.50	85.79	58.78	470.91	61.53	180.00	250.51	522.10	145.13	346.55	324.68	377.12	366.06
21423	17.95	10.95	-9.50	142.74	62.53	477.84	84.91	173.30	253.87	826.19	150.61	341.60	445.05	427.99	401.88
21424	18.68	9.66	-9.50	248.80	58.85	489.69	102.82	162.25	255.12	1360.26	109.00	342.49	502.00	455.64	413.42
21425	0.78	21.87	-9.50	117.91	27.40	469.83	6.10	246.18	79.25	152.53	28.78	481.16	19.61	100.16	80.12
21426	2.35	21.76	-9.50	114.24	28.91	467.84	12.36	244.89	83.37	153.47	29.30	478.77	27.33	105.53	83.93
21427	3.90	21.54	-9.50	108.84	31.66	464.86	19.18	242.27	91.48	153.53	31.37	473.74	36.12	114.05	90.96
21428	5.43	21.20	-9.50	102.17	35.25	461.56	25.41	238.58	103.00	153.37	34.83	466.77	45.40	125.14	101.39
21429	6.94	20.76	-9.50	94.32	39.36	457.88	30.50	233.85	116.88	153.40	39.52	457.79	54.77	138.16	114.98
21430	8.41	20.20	-9.50	85.40	43.71	453.58	34.16	227.89	132.18	154.00	45.32	446.57	64.13	152.56	131.53
21431	9.83	19.55	-9.50	75.69	47.94	448.44	36.24	220.59	148.21	155.76	52.07	433.09	73.68	168.16	151.00
21432	11.20	18.79	-9.50	65.81	51.54	442.36	36.71	211.89	164.35	159.57	59.67	417.56	83.97	185.26	173.49
21433	12.52	17.94	-9.50	56.65	53.94	435.41	35.84	201.93	179.96	166.73	68.28	400.55	96.09	204.88	199.24
21434	13.77	17.00	-9.50	49.39	54.73	427.94	34.50	191.16	194.32	179.21	78.71	383.11	111.76	228.83	228.93

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
21463	10.86	20.91	-9.50	93.73	31.11	328.04	48.52	201.57	110.15	129.85	38.93	374.94	66.35	190.02	110.59
21464	12.37	20.05	-9.50	79.24	36.22	320.41	48.51	193.87	126.08	121.27	48.70	374.12	72.39	213.08	143.13
21465	13.81	19.09	-9.50	64.77	40.01	311.80	46.12	184.53	141.13	113.60	59.47	373.48	77.90	237.83	182.74
21466	15.18	18.02	-9.50	51.55	42.20	302.72	42.07	173.76	155.02	108.25	72.22	374.15	84.14	265.98	232.09
21467	16.47	16.85	-9.50	40.83	43.22	294.02	37.69	162.20	167.80	106.67	89.23	378.06	93.37	299.03	295.16
21468	17.66	15.59	-9.50	33.64	44.66	286.49	34.61	150.68	179.98	112.17	115.25	389.55	108.22	336.81	375.62
21469	18.76	14.25	-9.50	29.47	49.37	280.14	34.97	139.27	191.78	120.27	158.63	417.60	135.66	374.10	474.47
21470	19.76	12.83	-9.50	36.99	63.32	270.93	40.96	127.07	201.60	174.19	238.57	493.15	177.60	412.97	585.69
21471	20.65	11.34	-9.50	19.32	110.18	258.25	60.90	110.55	206.08	98.24	439.57	659.46	269.48	440.65	732.46
21472	21.43	9.79	-9.50	437.54	307.23	185.68	299.79	110.97	204.87	1963.55	1214.81	1328.14	1283.50	632.51	1015.43
21473	0.70	20.20	-10.50	66.52	21.30	617.57	5.25	280.08	168.70	189.99	32.66	627.78	52.60	149.40	168.89
21474	2.10	20.10	-10.50	65.74	22.89	617.16	9.69	279.02	170.90	193.15	30.45	624.13	61.72	149.75	171.04
21475	3.49	19.90	-10.50	65.36	25.32	616.03	14.80	277.02	175.76	196.86	28.87	617.22	71.41	151.45	175.63
21476	4.86	19.62	-10.50	65.46	28.31	614.14	19.98	274.39	183.23	201.57	28.53	607.06	81.81	154.98	182.67
21477	6.20	19.23	-10.50	65.93	31.71	611.52	24.97	271.14	192.98	207.73	30.16	593.71	92.94	160.51	191.99
21478	7.52	18.76	-10.50	66.71	35.36	608.11	29.68	267.20	204.64	215.82	33.99	577.19	104.86	168.14	203.47
21479	8.80	18.19	-10.50	67.76	39.06	603.85	34.02	262.51	217.85	226.43	39.70	557.57	117.85	178.07	217.02
21480	10.04	17.54	-10.50	69.15	42.55	598.63	37.83	257.09	232.20	240.44	46.74	535.04	132.39	190.69	232.50
21481	11.23	16.80	-10.50	71.00	45.37	592.34	41.00	251.01	246.98	259.25	54.54	510.05	149.22	206.68	249.58
21482	12.37	15.98	-10.50	73.44	46.91	585.08	43.77	244.70	261.06	284.88	62.30	483.66	169.71	227.31	267.50
21483	13.44	15.08	-10.50	76.50	47.04	577.45	46.93	239.12	272.75	320.86	70.65	457.84	195.05	255.09	285.11
21484	14.46	14.11	-10.50	80.63	46.84	570.74	51.53	235.70	281.08	375.35	78.48	434.88	227.77	293.20	303.14
21485	15.40	13.08	-10.50	87.82	48.38	566.81	58.27	235.94	286.77	462.95	85.42	416.03	273.15	344.03	324.05
21486	16.27	11.98	-10.50	103.84	52.34	567.85	67.65	239.07	290.76	609.72	89.00	401.38	337.83	408.65	351.02
21487	17.06	10.82	-10.50	139.20	55.71	575.65	79.00	242.63	293.74	856.04	78.58	392.23	412.52	486.05	379.43
21488	17.76	9.62	-10.50	202.21	55.53	590.22	87.45	243.50	296.17	1237.23	55.95	392.98	452.80	572.23	395.47
21489	0.74	21.03	-10.50	79.19	23.32	585.07	3.85	272.30	125.28	176.30	28.94	595.08	41.79	141.32	125.57
21490	2.22	20.93	-10.50	77.17	25.32	583.91	9.36	270.89	127.88	179.81	28.07	591.42	50.70	143.20	128.01
21491	3.69	20.72	-10.50	74.67	28.20	582.05	15.24	268.31	134.17	183.40	28.51	584.76	60.44	147.00	133.69
21492	5.14	20.41	-10.50	71.97	31.55	579.62	20.83	264.95	143.93	187.60	30.59	575.25	71.05	153.03	142.65
21493	6.57	19.99	-10.50	69.02	35.29	576.59	25.84	260.72	156.39	192.76	34.73	562.86	82.35	161.11	154.54
21494	7.96	19.48	-10.50	65.90	39.31	572.82	30.16	255.43	170.84	199.13	40.86	547.51	94.29	171.05	169.10
21495	9.32	18.87	-10.50	62.87	43.35	568.15	33.71	249.01	186.72	207.14	48.63	529.23	107.04	182.89	186.21
21496	10.62	18.17	-10.50	60.38	47.06	562.43	36.43	241.43	203.48	217.53	57.65	508.21	121.04	196.95	205.78
21497	11.88	17.37	-10.50	58.98	49.85	555.59	38.41	232.86	220.36	231.50	67.50	484.95	137.04	214.05	227.58
21498	13.07	16.49	-10.50	59.01	51.00	547.79	40.24	223.81	236.20	251.06	77.98	460.57	156.32	235.88	251.11
21499	14.20	15.53	-10.50	60.37	50.40	539.72	43.09	215.48	249.66	280.22	89.44	436.84	180.75	265.21	276.34
21500	15.26	14.48	-10.50	63.16	49.55	532.81	48.00	209.50	260.14	327.04	102.44	415.57	214.45	305.03	305.09
21501	16.24	13.37	-10.50	69.60	51.38	528.88	55.69	208.82	268.46	406.52	118.94	397.32	266.20	357.22	341.29
21502	17.14	12.19	-10.50	87.94	57.19	529.67	68.04	206.45	275.54	554.87	137.88	381.64	350.73	423.30	386.91
21503	17.95	10.95	-10.50	136.36	63.17	536.51	87.15	206.06	280.76	855.33	140.24	369.41	468.96	509.75	433.86
21504	18.68	9.66	-10.50	231.51	62.66	549.82	103.31	203.14	283.87	1404.05	97.03	363.41	544.39	617.03	456.72
21505	0.78	21.87	-10.50	95.81	22.60	535.84	3.74	262.26	79.40	167.78	24.86	546.26	29.85	130.02	79.73
21506	2.35	21.76	-10.50	92.55	24.44	533.16	10.08	260.72	83.34	171.20	25.03	542.43	38.83	134.20	82.90
21507	3.90	21.54	-10.50	88.23	27.57	530.01	16.79	257.87	92.20	174.23	27.21	536.31	49.05	141.11	90.18
21508	5.43	21.20	-10.50	83.28	31.19	526.82	22.93	254.18	105.26	177.50	31.11	528.35	60.22	150.62	101.67
21509	6.94	20.76	-10.50	77.49	35.25	523.37	28.06	249.46	120.95	181.10	36.95	518.21	71.90	162.12	116.67
21510	8.41	20.20	-10.50	70.88	39.66	519.28	32.04	243.44	138.18	185.01	44.66	505.60	83.88	175.10	134.81
21511	9.83	19.55	-10.50	63.81	44.07	514.29	34.77	235.97	156.29	189.47	53.96	490.50	96.22	189.36	156.05
21512	11.20	18.79	-10.50	56.96	48.02	508.24	36.21	227.01	174.76	195.06	64.56	473.13	109.20	205.16	180.41
21513	12.52	17.94	-10.50	51.35	50.83	501.10	36.64	216.67	192.89	202.80	76.24	454.05	123.46	223.40	207.94
21514	13.77	17.00	-10.50	47.93	51.79	493.13	36.99	205.47	209.75	214.58	89.04	434.39	140.16	245.99	238.85
21515	14.95	15.97	-10.50	46.88	50.95	485.09	38.75	194.64	224.44	234.07	103.68	415.67	161.59	275.72	274.35
21516	16.06	14.85	-10.50	48.11	50.16	478.24	43.03	185.70	236.88	268.87	122.24	399.27	192.89	315.00	317.60
21517	17.08	13.67	-10.50	53.20	52.92	473.90	50.49	179.35	248.09	330.23	149.80	385.52	244.23	364.43	372.67
21518	18.01	12.41	-10.50	70.27	62.60	472.77	65.45	174.64	258.50	454.67	196.75	375.11	343.30	425.69	440.75
21519	18.85	11.08	-10.50	129.67	76.29	475.08	97.19	170.21	266.34	797.14	242.29	374.48	527.59	519.25	513.69
21520	19.60	9.70	-10.50	274.46	78.07	482.64	130.62	165.88	270.05	1626.04	187.43	382.57	688.62	666.50	551.27
21521	0.83	22.71	-10.50	114.82	15.76	473.42	4.72	249.89	38.66	164.87	16.49	485.14	18.42	115.32	38.71
21522	2.47	22.59	-10.50	110.39	16.86	469.41	11.82	248.77	46.93	167.54	16.84	482.31	28.38	123.00	44.08
21523	4.11	22.35	-10.50	104.55	20.00	464.52	19.51	246.08	60.27	169.27	20.05	477.66	39.66	134.01	53.63
21524	5.72	21.99	-10.50	97.97	23.93	460.43	26.41	242.56	76.94	170.92	25.24	472.88	51.71	147.80	67.74
21525	7.30	21.52	-10.50	90.17	28.46	456.49	31.96	238.02	95.00	172.15	32.41	467.07	63.90	163.40	85.58
21526	8.85	20.93	-10.50	80.99	33.42	452.04	35.91	232.11	113.61	172.61	41.48	459.66	75.87	180.00	106.97
21527	10.35	20.23	-10.50	70.77	38.38	446.68	38.07	224.67	132.40	172.42	52.17	450.54	87.52	197.26	132.10
21528	11.79	19.42	-10.50	60.16	42.74	440.25	38.33	215.56	151.01	171.99	64.22	439.96	98.89	215.33	161.29
21529	13.17	18.52	-10.50	50.33	45.79	432.78	36.99	204.78	168.96	172.16	77.49	428.55	110.35	235.14	195.07
21530	14.48	17.51	-10.50	42.77	46.97	424.61	35.12	192.75	185.59	174.49	92.12	417.34	122.87	258.58	234.59
21531	15.71	16.41	-10.50	38.45	46.62	416.50	34.53	180.53	200.53	182.31	109.22	407.73	138.61	288.16	282.32
21532	16.86	15.22	-10.50	37.16											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
21561	13.63	10.96	-9.50	115.41	39.88	587.46	53.60	291.83	300.84	619.97	44.17	429.14	233.88	275.12	303.02
21562	0.57	9.89	-9.50	64.32	35.31	405.86	21.70	369.11	317.80	382.40	101.21	428.02	46.31	172.13	319.89
21563	1.70	9.88	-9.50	67.22	35.29	410.39	24.73	369.78	317.09	394.21	103.55	425.28	57.45	164.36	319.75
21564	2.84	9.86	-9.50	73.50	35.25	419.23	29.12	370.46	316.73	407.65	105.13	422.44	69.63	157.95	319.98
21565	3.96	9.83	-9.50	81.90	35.18	432.09	34.06	371.04	316.65	423.11	105.99	419.67	82.61	153.30	320.49
21566	5.08	9.80	-9.50	91.21	35.09	448.52	39.02	371.34	316.83	441.15	106.08	417.11	96.24	150.98	321.18
21567	6.20	9.76	-9.50	100.41	34.99	467.95	43.67	371.08	317.19	462.44	105.33	415.03	110.42	151.60	321.91
21568	7.31	9.71	-9.50	108.77	34.91	489.67	47.79	369.81	317.67	487.80	103.68	413.82	125.07	155.76	322.48
21569	8.42	9.66	-9.50	115.84	34.88	512.73	51.23	366.95	318.14	518.12	101.04	413.97	140.11	164.04	322.65
21570	9.52	9.60	-9.50	121.55	34.94	535.80	53.88	361.86	318.40	554.36	97.34	415.91	155.53	177.08	322.12
21571	10.62	9.54	-9.50	126.30	35.13	557.16	55.69	354.09	318.16	597.52	92.51	419.66	171.52	195.64	320.60
21572	0.60	11.68	-9.50	59.41	33.60	453.30	20.66	350.06	314.48	343.25	91.28	473.93	50.59	165.14	316.29
21573	1.80	11.64	-9.50	62.54	33.56	456.81	23.47	350.89	313.98	352.56	92.10	470.27	62.19	158.62	316.21
21574	2.99	11.58	-9.50	69.17	33.58	464.00	27.65	351.89	313.82	363.45	92.17	465.86	74.66	153.70	316.48
21575	4.16	11.50	-9.50	77.75	33.64	474.61	32.33	352.87	313.92	376.40	91.47	460.89	87.79	150.70	316.99
21576	5.32	11.40	-9.50	86.91	33.76	488.18	36.98	353.63	314.18	392.09	89.99	455.50	101.47	150.18	317.56
21577	6.47	11.28	-9.50	95.58	33.95	504.12	41.28	353.83	314.52	411.31	87.73	449.92	115.69	152.63	318.03
21578	7.60	11.15	-9.50	103.02	34.22	521.72	45.05	352.95	314.80	435.03	84.74	444.56	130.47	158.52	318.18
21579	8.72	10.99	-9.50	108.90	34.57	539.96	48.19	350.29	314.88	464.26	81.06	439.92	145.87	168.24	317.78
21580	9.83	10.82	-9.50	113.35	35.02	557.47	50.67	345.20	314.56	500.01	76.78	436.46	162.03	182.32	316.61
21581	10.92	10.63	-9.50	117.03	35.60	572.59	52.55	337.41	313.61	543.37	71.98	434.32	179.31	201.57	314.53
21582	0.63	13.48	-9.50	54.52	32.36	508.11	15.93	330.85	305.86	301.04	80.86	527.15	54.95	157.67	307.02
21583	1.88	13.42	-9.50	57.52	32.51	510.31	19.17	331.63	305.81	307.84	80.33	522.63	66.49	152.56	307.18
21584	3.11	13.32	-9.50	62.84	32.86	515.06	23.70	332.54	306.13	316.11	78.99	516.39	78.56	148.95	307.71
21585	4.33	13.19	-9.50	71.91	33.37	522.17	28.57	333.43	306.76	326.43	76.86	508.64	91.07	147.28	308.49
21586	5.53	13.03	-9.50	80.31	34.03	531.23	33.32	334.11	307.58	339.50	73.99	499.48	104.02	148.08	309.36
21587	6.70	12.83	-9.50	88.02	34.79	541.76	37.69	334.24	308.44	356.24	70.45	489.16	117.52	151.82	310.12
21588	7.86	12.61	-9.50	94.37	35.59	553.16	41.49	333.27	309.15	377.68	66.36	478.08	131.76	158.88	310.53
21589	8.99	12.35	-9.50	99.11	36.38	564.58	44.64	330.52	309.49	404.92	61.91	466.87	146.99	169.57	310.37
21590	10.11	12.06	-9.50	102.53	37.12	574.86	47.14	325.40	309.17	439.07	57.31	456.23	163.55	184.38	309.39
21591	11.19	11.74	-9.50	105.41	37.84	582.73	49.20	317.80	307.99	481.32	52.81	446.72	181.96	204.42	307.60
21592	0.65	15.28	-9.50	51.68	32.48	559.53	9.95	313.19	288.87	257.49	70.26	576.83	57.28	150.91	289.31
21593	1.95	15.20	-9.50	53.85	32.99	560.50	13.92	313.64	289.27	262.18	68.66	571.83	68.12	146.95	289.71
21594	3.22	15.07	-9.50	58.82	33.89	562.67	18.84	314.02	290.15	268.22	66.29	564.05	79.22	144.35	290.57
21595	4.47	14.90	-9.50	65.31	35.09	565.87	23.88	314.24	291.48	276.16	63.23	553.68	90.55	143.57	291.81
21596	5.71	14.67	-9.50	72.11	36.48	569.82	28.75	314.16	293.15	286.74	59.62	540.86	102.23	145.16	293.33
21597	6.91	14.40	-9.50	78.30	37.92	574.17	33.26	313.49	295.02	300.84	55.63	525.82	114.50	149.58	294.96
21598	8.09	14.08	-9.50	83.31	39.25	578.54	37.26	311.81	296.90	319.49	51.47	508.98	127.70	157.21	296.51
21599	9.24	13.72	-9.50	86.99	40.35	582.38	40.58	308.55	298.47	343.79	47.40	491.05	142.28	168.34	297.76
21600	10.36	13.31	-9.50	89.63	41.13	585.01	43.23	303.27	299.33	374.97	43.79	473.00	158.77	183.48	298.41
21601	11.45	12.86	-9.50	92.00	41.66	585.73	45.45	295.97	299.02	414.48	41.07	455.92	177.74	203.59	298.33
21602	0.67	17.07	-9.50	55.12	34.86	592.52	5.72	296.97	259.20	215.20	60.12	607.86	54.96	143.64	259.21
21603	1.99	16.99	-9.50	55.66	35.74	592.60	10.32	296.89	259.99	218.50	57.93	602.92	64.57	140.87	259.91
21604	3.30	16.84	-9.50	57.94	37.16	592.63	15.22	296.41	261.53	222.95	55.26	594.46	74.29	139.23	261.29
21605	4.59	16.62	-9.50	61.33	38.97	592.51	20.07	295.53	263.80	229.07	52.30	582.61	84.20	139.26	263.35
21606	5.85	16.34	-9.50	65.14	40.97	592.09	24.74	294.18	266.76	237.50	49.30	567.53	94.47	141.49	266.05
21607	7.09	15.99	-9.50	68.75	42.95	591.19	29.14	292.21	270.30	249.01	46.52	549.46	105.39	146.40	269.33
21608	8.29	15.58	-9.50	71.76	44.67	589.66	33.10	289.36	274.26	264.52	44.23	528.83	117.41	154.34	273.10
21609	9.46	15.11	-9.50	74.04	45.95	587.29	36.46	285.30	278.31	285.13	42.67	506.29	131.09	165.65	277.16
21610	10.60	14.58	-9.50	75.88	46.61	583.87	39.16	279.79	281.89	312.20	42.12	482.90	147.13	180.77	281.20
21611	11.69	14.00	-9.50	77.86	46.62	579.23	41.48	272.90	284.38	347.63	42.89	460.10	166.14	200.64	284.96
21612	0.68	18.88	-9.50	69.56	38.10	589.30	4.38	280.55	209.33	178.74	51.05	602.54	46.14	133.22	209.45
21613	2.02	18.79	-9.50	68.35	39.22	588.89	9.13	279.89	210.66	181.36	49.21	598.41	54.23	132.05	210.78
21614	3.36	18.61	-9.50	67.30	40.97	587.85	13.93	278.49	213.41	184.77	47.49	590.81	62.57	131.99	213.41
21615	4.68	18.35	-9.50	66.44	43.14	586.14	18.56	276.46	217.61	189.38	46.11	579.80	71.25	133.57	217.40
21616	5.97	18.01	-9.50	65.69	45.51	583.70	22.91	273.83	223.20	195.76	45.30	565.50	80.43	137.20	222.72
21617	7.23	17.59	-9.50	64.99	47.87	580.53	26.88	270.56	230.00	204.57	45.25	548.07	90.35	143.19	229.34
21618	8.47	17.09	-9.50	64.33	49.95	576.56	30.38	266.56	237.78	216.60	46.04	527.78	101.41	151.80	237.18
21619	9.66	16.51	-9.50	63.82	51.48	571.79	33.30	261.72	246.14	232.90	47.65	505.09	114.21	163.32	246.07
21620	10.81	15.87	-9.50	63.77	52.20	566.21	35.65	256.02	254.45	254.92	50.03	480.83	129.58	178.25	255.67
21621	11.91	15.15	-9.50	64.72	51.91	559.98	37.73	249.70	261.87	285.07	53.12	456.33	148.54	197.38	265.59
21622	16.80	9.56	-9.50	182.63	44.25	566.73	69.39	236.11	282.27	1062.67	44.09	400.67	343.68	414.77	329.85
21623	16.19	10.65	-9.50	134.57	47.10	555.31	64.09	236.22	280.02	800.65	55.84	392.74	327.12	378.98	322.92
21624	15.52	11.69	-9.50	101.50	48.32	547.69	56.07	234.61	277.61	603.04	66.23	392.92	283.62	336.46	310.58
21625	15.79	9.48	-9.50	162.64	40.33	586.16	62.00	269.10	294.03	948.34	46.72	422.99	292.87	376.70	313.49
21626	15.37	10.42	-9.50	133.09	42.75	576.27	59.64	263.45	290.59	778.06	42.23	413.34	290.12	349.51	309.62
21627	14.91	11.34	-9.50	109.13	44.62	568.24	55.30	257.25	287.41	629.85	46.74	409.81	269.33	318.60	304.33
21628	14.78	9.40	-9.50	150.25	38.10	594.47	58.67	294.90	303.39	856.01	58.67	432.29	255.89	334.16	309.39
21629	14.55	10.21	-9.50	132.18	39.93	588.00	57.24	286.23	299.29	748.83	46.74	425.63	259.20	318.45	305.86
21630	14.30	11.00	-9.50	115.13	41.61	581.61	54.79	278.17	295.59	643.66	41.28	421.9			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
21659	0.60	11.68	-10.50	73.84	41.20	462.64	26.07	348.29	322.34	410.33	104.35	480.48	61.77	182.63	323.78
21660	1.80	11.64	-10.50	79.14	41.25	465.95	29.71	347.82	322.13	420.65	106.13	477.06	75.98	177.07	323.97
21661	2.99	11.58	-10.50	89.30	41.35	473.02	35.14	349.93	322.50	432.79	107.16	473.06	91.46	173.43	324.77
21662	4.16	11.50	-10.50	102.15	41.48	483.58	41.25	352.60	323.32	447.12	107.34	468.61	107.90	172.25	326.02
21663	5.32	11.40	-10.50	115.88	41.67	497.27	47.40	355.69	324.52	464.18	106.70	463.82	125.17	174.14	327.57
21664	6.47	11.28	-10.50	129.08	41.91	513.68	53.19	358.92	325.96	484.67	105.25	458.85	143.20	179.71	329.24
21665	7.60	11.15	-10.50	140.60	42.25	532.34	58.36	361.70	327.55	509.51	103.05	454.05	161.94	189.45	330.82
21666	8.72	10.99	-10.50	149.52	42.70	552.51	62.70	363.07	329.12	539.77	100.21	449.92	181.30	203.56	332.07
21667	9.83	10.82	-10.50	155.50	43.33	572.87	66.09	361.84	330.45	576.34	96.88	447.00	201.19	222.17	332.72
21668	10.92	10.63	-10.50	158.96	44.22	591.38	68.44	357.21	331.23	619.93	93.24	445.44	221.63	245.76	332.50
21669	0.63	13.48	-10.50	68.02	38.62	520.50	18.50	326.35	315.62	362.99	91.94	536.76	69.82	172.79	316.54
21670	1.88	13.42	-10.50	73.46	38.52	522.52	23.24	327.85	315.86	370.06	92.19	532.39	83.93	168.45	317.01
21671	3.11	13.32	-10.50	83.63	38.47	527.27	29.70	329.95	316.80	378.84	91.55	526.54	98.88	166.02	318.18
21672	4.33	13.19	-10.50	96.22	38.49	534.49	36.58	332.64	318.29	389.80	90.01	519.33	114.49	166.08	319.88
21673	5.53	13.03	-10.50	109.36	38.62	543.88	43.27	335.79	320.20	403.58	87.62	510.83	130.71	169.24	321.92
21674	6.70	12.83	-10.50	121.63	38.87	555.11	49.47	339.10	322.38	421.04	84.49	501.20	147.56	176.07	324.09
21675	7.86	12.61	-10.50	131.95	39.27	567.77	54.92	341.97	324.62	443.22	80.78	490.73	165.19	186.96	326.13
21676	8.99	12.35	-10.50	139.46	39.84	581.25	59.38	343.36	326.64	471.39	76.68	479.98	183.75	201.95	327.76
21677	10.11	12.06	-10.50	144.03	40.63	594.38	62.72	342.05	328.04	506.52	72.48	469.71	203.44	221.07	328.59
21678	11.19	11.74	-10.50	146.34	41.75	605.40	65.04	337.47	328.40	549.34	68.55	460.57	224.56	245.14	328.37
21679	0.65	15.28	-10.50	61.36	35.05	577.07	9.57	310.69	301.05	313.92	77.96	591.67	75.64	166.26	301.42
21680	1.95	15.20	-10.50	66.35	34.85	578.06	16.08	311.77	301.68	318.33	76.78	586.81	88.95	162.91	302.09
21681	3.22	15.07	-10.50	75.62	34.68	580.49	23.40	313.24	303.08	324.29	74.61	579.50	102.71	161.27	303.54
21682	4.47	14.90	-10.50	86.99	34.63	584.18	30.63	315.11	305.16	332.35	71.55	569.82	116.85	161.92	305.62
21683	5.71	14.67	-10.50	98.73	34.80	588.86	37.55	317.27	307.82	343.21	67.77	557.86	131.42	165.46	308.21
21684	6.91	14.40	-10.50	109.53	35.26	594.27	44.01	319.46	310.93	357.72	63.52	543.72	146.56	172.44	311.16
21685	8.09	14.08	-10.50	118.44	36.04	600.10	49.80	321.18	314.34	376.95	59.08	527.65	162.58	183.23	314.32
21686	9.24	13.72	-10.50	124.80	37.09	605.90	54.60	321.56	317.73	402.16	54.74	510.15	179.90	197.93	317.39
21687	10.36	13.31	-10.50	128.60	38.37	610.91	58.16	319.64	320.51	434.40	50.88	492.13	198.93	216.65	319.94
21688	11.45	12.86	-10.50	130.52	39.88	614.06	60.60	315.06	321.85	474.67	47.77	474.83	220.08	240.20	321.41
21689	0.67	17.07	-10.50	55.32	28.12	620.20	5.76	299.01	274.37	264.97	61.13	633.03	75.41	161.89	274.40
21690	1.99	16.99	-10.50	58.99	28.13	620.47	12.34	299.39	275.33	267.76	58.72	628.19	87.32	159.53	275.30
21691	3.30	16.84	-10.50	66.13	28.33	620.97	18.93	299.74	277.23	271.91	55.42	620.09	99.42	158.51	277.10
21692	4.59	16.62	-10.50	75.11	28.85	621.54	25.39	300.11	279.98	277.97	51.47	608.81	111.80	159.45	279.70
21693	5.85	16.34	-10.50	84.49	29.81	622.01	31.73	300.46	283.57	286.58	47.27	594.42	124.58	162.92	283.10
21694	7.09	15.99	-10.50	93.22	31.26	622.22	37.84	300.62	287.99	298.54	43.31	577.06	138.01	169.44	287.29
21695	8.29	15.58	-10.50	100.55	33.15	621.98	43.55	300.28	293.17	314.75	40.14	556.94	152.47	179.39	292.27
21696	9.46	15.11	-10.50	106.05	35.32	621.06	48.48	298.93	298.86	336.31	38.26	534.48	168.51	193.04	297.89
21697	10.60	14.58	-10.50	109.73	37.48	619.09	52.31	296.01	304.39	364.46	37.95	510.54	186.73	210.66	303.74
21698	11.69	14.00	-10.50	112.08	39.41	615.71	55.06	291.37	308.70	400.74	39.17	486.64	207.55	233.11	309.05
21699	0.68	18.88	-10.50	56.06	19.80	633.42	6.59	288.78	224.78	218.99	42.53	644.59	66.03	156.39	224.81
21700	2.02	18.79	-10.50	57.28	20.61	633.31	11.11	288.33	226.30	221.48	39.47	640.38	76.20	155.28	226.28
21701	3.36	18.61	-10.50	60.46	22.11	632.68	16.27	287.33	229.36	225.01	36.05	632.73	86.63	155.27	229.17
21702	4.68	18.35	-10.50	65.02	24.29	631.42	21.63	285.96	233.95	230.05	32.82	621.65	97.49	156.97	233.51
21703	5.97	18.01	-10.50	70.27	27.04	629.48	27.02	284.27	240.02	237.16	30.56	607.21	108.94	160.82	239.29
21704	7.23	17.59	-10.50	75.58	30.18	626.81	32.35	282.18	247.53	246.94	30.12	589.52	121.17	167.20	246.56
21705	8.47	17.09	-10.50	80.50	33.53	623.34	37.44	279.58	256.34	260.13	31.95	568.74	134.54	176.46	255.33
21706	9.66	16.51	-10.50	84.77	36.83	618.96	42.03	276.33	266.20	277.68	35.82	545.13	149.60	188.95	265.55
21707	10.81	15.87	-10.50	88.37	39.70	613.54	45.84	272.27	276.47	300.91	41.00	519.33	167.09	205.14	276.85
21708	11.91	15.15	-10.50	91.57	41.70	607.08	48.87	267.54	285.96	332.00	46.59	492.62	187.80	225.88	288.42
21709	16.80	9.56	-10.50	185.77	52.12	612.44	77.83	278.24	307.69	1109.90	53.79	419.03	385.99	525.26	357.77
21710	16.19	10.65	-10.50	145.15	51.59	599.16	73.73	272.57	305.16	845.06	50.52	414.08	366.39	457.09	348.37
21711	15.52	11.69	-10.50	119.11	49.17	591.36	67.13	265.08	303.02	647.95	57.52	418.47	322.08	392.80	333.96
21712	15.79	9.48	-10.50	178.35	50.31	622.84	73.28	307.47	318.08	1002.80	70.66	434.82	337.98	469.09	338.23
21713	15.37	10.42	-10.50	153.02	49.39	612.64	71.51	297.73	314.74	830.24	53.30	429.41	333.39	422.73	333.74
21714	14.91	11.34	-10.50	132.97	47.55	605.29	67.69	287.24	312.23	680.91	46.33	430.01	311.43	376.43	328.11
21715	14.78	9.40	-10.50	176.60	49.68	624.33	71.95	328.11	326.15	919.23	87.11	441.02	302.47	411.64	332.28
21716	14.55	10.21	-10.50	159.92	48.46	618.72	70.75	317.26	322.35	808.97	67.70	438.37	304.79	385.58	328.89
21717	14.30	11.00	-10.50	145.01	46.76	613.73	68.71	306.48	319.09	700.21	52.86	438.17	297.97	355.42	325.70
21718	12.93	14.37	-10.50	94.79	42.97	600.36	51.62	262.93	293.40	372.80	52.70	467.70	211.50	252.91	298.73
21719	12.65	13.39	-10.50	114.12	41.16	611.58	57.27	286.68	311.12	444.13	41.63	466.24	229.62	259.86	313.06
21720	12.36	12.43	-10.50	131.63	41.44	614.80	62.20	309.53	321.69	517.59	46.18	461.21	239.78	265.86	321.88
21721	13.86	13.54	-10.50	99.06	44.05	594.38	55.36	260.49	298.14	430.44	57.26	446.64	240.69	288.24	308.78
21722	13.48	12.78	-10.50	117.22	42.82	607.47	59.92	283.90	311.87	498.88	43.72	450.34	253.47	291.24	316.82
21723	13.10	12.03	-10.50	133.51	42.97	613.86	63.78	305.55	320.74	563.60	46.45	451.18	258.31	292.09	322.34
21724	14.74	12.66	-10.50	105.52	46.08	590.35	60.58	261.14	300.68	514.70	60.14	429.85	277.46	333.93	319.86
21725	14.28	12.13	-10.50	121.56	45.06	603.98	63.48	282.85	311.34	570.82	45.69	437.49	282.23	330.14	321.46
21726	13.81	11.61	-10.50	135.85	44.43	612.30	65.68	301.84	318.94	620.05	48.17	442.80	280.45	324.25	323.52
21727	-11.73	9.54	-9.50	110.79	34.02	571.21	66.75	338.07	330.29	250.81	48.65	435.69	62.37	213.39	330.59
21728	-														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
21757	-1.97	13.75	-9.50	60.95	32.56	520.60	17.47	328.83	305.13	283.56	78.32	539.19	35.22	169.25	305.86
21758	-3.25	13.76	-9.50	68.75	32.96	528.42	22.31	325.75	305.71	277.19	76.36	539.93	28.61	175.38	306.32
21759	-4.50	13.68	-9.50	77.23	33.51	536.22	28.22	325.30	307.00	271.75	74.03	536.84	25.94	181.31	307.54
21760	-5.72	13.52	-9.50	85.16	34.13	544.28	34.45	325.09	308.76	266.31	71.31	530.66	27.67	186.59	309.25
21761	-6.90	13.30	-9.50	91.65	34.72	552.69	40.58	324.68	310.70	260.19	68.16	521.95	32.37	190.72	311.18
21762	-8.05	13.02	-9.50	96.12	35.21	561.32	46.31	323.47	312.56	252.83	64.58	511.09	38.24	193.10	313.05
21763	-9.17	12.71	-9.50	98.30	35.50	569.70	51.36	320.83	314.00	243.91	60.55	498.33	44.12	193.07	314.51
21764	-10.26	12.36	-9.50	98.28	35.55	576.98	55.60	316.27	314.71	233.45	56.05	483.83	49.45	190.15	315.26
21765	-11.32	11.98	-9.50	96.55	35.37	582.06	59.02	309.88	314.47	221.81	51.20	467.71	54.08	184.54	315.09
21766	-0.67	15.37	-9.50	53.00	32.45	562.14	8.83	311.92	288.00	251.39	70.66	581.43	46.87	155.48	288.40
21767	-1.99	15.46	-9.50	57.72	32.85	566.71	11.93	310.22	287.19	245.42	70.23	583.29	37.50	159.87	287.55
21768	-3.30	15.43	-9.50	64.26	33.62	570.71	17.29	309.00	287.53	240.87	69.39	580.75	29.94	164.37	287.86
21769	-4.58	15.31	-9.50	71.28	34.67	574.23	23.44	308.02	288.86	236.92	68.14	574.19	25.60	168.54	289.19
21770	-5.83	15.10	-9.50	77.78	35.83	577.37	29.85	307.04	290.99	232.87	66.45	564.08	25.69	172.01	291.34
21771	-7.05	14.82	-9.50	83.04	36.98	580.16	36.20	305.76	293.69	228.17	64.29	550.82	29.55	174.38	294.08
21772	-8.23	14.46	-9.50	86.60	37.94	582.53	42.15	303.73	296.65	222.39	61.68	534.77	35.25	175.21	297.10
21773	-9.38	14.06	-9.50	88.26	38.60	584.22	47.40	300.49	299.47	215.29	58.60	516.32	41.25	174.03	300.00
21774	-10.49	13.59	-9.50	88.15	38.83	584.80	51.74	295.69	301.62	206.89	55.01	495.94	46.75	170.54	302.23
21775	-11.56	13.09	-9.50	86.72	38.63	583.62	55.18	289.46	302.61	197.46	50.89	474.21	51.56	164.99	303.29
21776	-0.67	17.14	-9.50	56.74	34.71	593.18	4.04	296.22	258.17	211.34	61.50	609.97	45.40	146.83	258.22
21777	-2.01	17.15	-9.50	60.28	35.24	593.79	8.09	294.80	257.38	207.65	62.30	608.10	36.52	149.76	257.42
21778	-3.33	17.07	-9.50	64.68	36.31	593.93	13.70	293.31	258.00	204.73	62.73	602.37	29.11	152.63	258.02
21779	-4.64	16.89	-9.50	69.21	37.77	593.49	19.76	291.66	259.94	202.08	62.78	592.90	24.50	155.13	259.94
21780	-5.92	16.62	-9.50	73.31	39.44	592.46	25.98	289.75	263.07	199.22	62.41	579.95	24.06	156.96	263.08
21781	-7.16	16.27	-9.50	76.52	41.12	590.82	32.17	287.39	267.23	195.80	61.59	563.77	27.51	157.84	267.28
21782	-8.37	15.85	-9.50	78.54	42.61	588.52	38.02	284.34	272.13	191.51	60.28	544.65	33.01	157.49	272.28
21783	-9.54	15.35	-9.50	79.27	43.69	585.45	43.24	280.34	277.36	186.24	58.44	522.94	38.97	155.61	277.63
21784	-10.67	14.79	-9.50	78.85	44.17	581.41	47.58	275.22	282.27	180.02	55.95	499.17	44.50	152.08	282.66
21785	-11.76	14.16	-9.50	77.64	43.89	576.20	51.03	269.13	286.15	173.05	52.71	474.17	49.32	147.10	286.64
21786	-0.68	18.90	-9.50	71.11	37.72	588.71	2.50	280.21	208.96	176.34	52.76	602.74	38.19	134.81	208.97
21787	-2.03	18.84	-9.50	72.84	38.15	587.16	7.17	279.01	209.78	174.07	54.40	598.89	30.96	136.45	209.59
21788	-3.37	18.69	-9.50	74.33	39.30	585.34	12.75	277.29	212.32	172.11	55.97	591.93	25.27	138.18	211.89
21789	-4.69	18.45	-9.50	75.46	41.00	583.12	18.55	275.14	216.55	170.14	57.36	581.89	22.46	139.77	215.90
21790	-5.99	18.11	-9.50	76.10	43.05	580.45	24.36	272.52	222.36	167.91	58.47	568.88	23.37	140.95	221.56
21791	-7.26	17.69	-9.50	76.10	45.22	577.28	30.03	269.33	229.56	165.22	59.20	553.00	27.24	141.43	228.72
21792	-8.49	17.19	-9.50	75.42	47.30	573.53	35.35	265.47	237.88	161.96	59.48	534.37	32.56	140.98	237.11
21793	-9.68	16.60	-9.50	74.10	48.98	569.10	40.10	260.85	246.89	158.13	59.16	513.19	38.13	139.36	246.27
21794	-10.83	15.94	-9.50	72.37	49.95	563.93	44.09	255.49	255.95	153.84	58.03	499.88	43.30	136.50	255.53
21795	-11.93	15.21	-9.50	70.59	49.89	557.98	47.29	249.66	264.18	149.27	55.81	465.18	47.81	132.62	263.96
21796	-16.80	9.56	-9.50	57.54	40.60	546.64	58.43	243.35	296.43	119.92	40.45	353.50	62.01	125.59	297.07
21797	-16.20	10.66	-9.50	61.75	40.85	541.61	58.46	241.49	290.34	125.32	40.27	366.43	62.59	125.12	290.88
21798	-15.53	11.72	-9.50	64.63	42.11	539.28	57.24	238.53	285.01	130.09	41.67	380.82	61.57	123.30	285.42
21799	-15.80	9.49	-9.50	71.74	36.83	571.29	62.91	272.95	307.98	153.66	36.94	379.25	63.92	147.95	308.86
21800	-15.40	10.46	-9.50	72.33	37.34	564.83	61.85	265.71	301.20	152.50	37.72	388.35	63.38	142.46	302.03
21801	-14.94	11.40	-9.50	72.30	38.68	559.93	59.98	258.49	295.30	151.32	39.57	398.21	61.82	137.02	296.03
21802	-14.79	9.43	-9.50	85.60	34.76	583.78	66.06	295.73	317.36	184.04	36.49	399.55	64.97	169.01	318.15
21803	-14.59	10.27	-9.50	83.04	35.14	578.95	64.46	286.96	310.40	177.68	37.39	405.93	63.80	160.19	311.24
21804	-14.35	11.08	-9.50	80.40	36.20	574.15	62.23	277.09	304.22	172.21	38.99	412.30	62.04	152.53	305.04
21805	-12.95	14.42	-9.50	69.10	48.54	551.89	49.94	244.13	270.95	144.83	52.57	441.03	51.77	128.37	270.93
21806	-12.71	13.52	-9.50	76.26	42.83	570.81	53.67	263.60	288.82	166.64	49.18	451.25	53.24	142.20	289.40
21807	-12.45	12.61	-9.50	84.76	38.13	581.23	57.53	283.32	302.63	188.74	47.18	455.05	55.14	159.03	303.36
21808	-13.88	13.58	-9.50	68.00	46.58	546.13	52.50	240.23	276.19	140.54	48.69	418.68	55.54	125.01	276.33
21809	-13.53	12.88	-9.50	75.04	41.57	565.60	55.89	259.71	290.63	160.91	45.69	431.21	56.57	138.64	291.25
21810	-13.17	12.17	-9.50	82.97	37.59	577.97	59.11	278.69	302.25	181.29	44.06	438.96	57.69	154.69	303.01
21811	-14.76	12.69	-9.50	66.75	44.28	541.09	55.00	238.32	280.26	135.47	44.78	398.13	59.02	123.41	280.51
21812	-14.32	12.20	-9.50	73.31	40.24	560.42	57.91	256.84	291.72	154.48	42.29	412.38	59.54	136.02	292.38
21813	-13.87	11.71	-9.50	80.60	37.29	573.86	60.59	274.30	301.76	173.33	41.30	423.18	60.05	150.41	302.54
21814	-11.69	9.52	-10.50	156.13	44.23	590.41	80.51	360.87	345.57	322.46	51.59	454.36	76.15	250.41	345.66
21815	-12.72	9.46	-10.50	151.53	43.96	604.39	81.68	352.14	345.43	301.75	45.69	449.02	78.12	241.02	345.67
21816	-13.76	9.41	-10.50	143.64	43.48	612.51	81.13	342.21	343.36	277.83	40.82	439.77	78.63	230.05	343.78
21817	-11.91	10.54	-10.50	147.32	40.58	602.35	78.26	345.25	340.19	301.90	49.78	466.13	73.57	234.23	340.45
21818	-12.81	10.39	-10.50	142.82	40.44	609.52	79.34	337.74	339.26	284.44	44.32	457.36	75.73	226.30	339.62
21819	-13.70	10.22	-10.50	136.28	40.47	612.71	79.30	330.04	337.20	265.25	39.80	446.32	76.93	218.02	337.68
21820	-12.11	11.55	-10.50	136.48	36.86	610.17	75.37	327.39	334.69	279.34	47.20	476.12	71.04	216.20	335.11
21821	-12.87	11.29	-10.50	133.11	37.11	612.19	76.50	322.07	333.82	266.12	42.69	464.66	73.22	210.78	334.28
21822	-13.62	11.02	-10.50	127.52	37.51	611.51	76.68	315.85	331.40	250.33	38.91	452.05	74.73	204.34	331.92
21823	-0.57	9.92	-10.50	79.64	43.26	415.12	27.24	367.10	323.37	441.38	111.27	437.02	43.76	201.76	324.66
21824	-1.72	9.94	-10.50	86.06	43.01	420.04	29.53	366.66	324.59	430.49	106.60	439.70	35.46	210.37	325.52
21825	-2.85	9.94	-10.50	96.41	42.89	428.92	34.23	367.10	326.21	421.15	101.70	442.23	32.01	219.49	326.86
21826	-3.98	9.91	-10.50	108.88	42.90	441.55	40.37	368.18	328.14	412.56	96.46	444.70	33.77	228.74	3



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
21855	-3.18	15.23	-10.50	77.98	34.98	584.57	20.70	310.57	303.22	305.17	75.38	593.12	43.49	181.69	303.48
21856	-4.43	15.08	-10.50	89.32	34.74	588.41	28.90	311.77	305.56	303.41	73.10	587.62	37.95	187.53	305.83
21857	-5.66	14.86	-10.50	100.64	34.41	592.70	37.22	313.40	308.58	301.24	70.16	579.30	36.92	193.20	308.86
21858	-6.87	14.59	-10.50	110.79	34.04	597.36	45.40	315.18	312.16	298.07	66.65	568.31	40.22	198.32	312.48
21859	-8.06	14.26	-10.50	118.81	33.73	602.23	53.11	316.67	316.15	293.20	62.66	554.78	46.24	202.38	316.52
21860	-9.21	13.88	-10.50	123.92	33.56	606.98	60.87	317.06	320.23	285.98	58.31	538.82	53.08	204.59	320.66
21861	-10.34	13.45	-10.50	125.88	33.53	610.93	65.22	315.46	323.80	276.15	53.66	520.63	59.40	204.09	324.27
21862	-11.43	12.98	-10.50	125.15	33.61	612.95	69.04	311.47	325.99	264.12	48.60	500.57	64.61	200.58	326.48
21863	-0.66	17.10	-10.50	56.09	28.17	620.67	2.74	298.61	274.12	262.66	62.42	635.15	63.92	165.14	274.18
21864	-1.96	17.06	-10.50	61.11	28.19	621.26	9.01	298.31	274.91	261.43	62.88	633.66	53.31	168.71	274.97
21865	-3.26	16.94	-10.50	68.99	28.26	621.86	16.28	298.15	276.74	260.68	62.68	628.85	44.09	172.44	276.80
21866	-4.56	16.74	-10.50	78.16	28.40	622.35	23.87	298.16	279.56	259.97	61.80	620.73	37.47	176.15	279.62
21867	-5.81	16.47	-10.50	87.32	28.64	622.60	31.68	298.23	283.34	258.82	60.25	609.35	34.91	179.56	283.40
21868	-7.05	16.12	-10.50	95.56	29.08	622.53	39.56	298.18	288.05	256.76	58.11	594.82	36.94	182.36	288.15
21869	-8.26	15.71	-10.50	102.17	29.82	621.98	47.17	297.72	293.66	253.32	55.54	577.20	42.33	184.24	293.82
21870	-9.43	15.23	-10.50	106.63	30.89	620.74	54.02	296.41	299.91	248.09	52.71	556.62	49.08	184.74	300.13
21871	-10.57	14.68	-10.50	108.80	32.09	618.45	59.57	293.73	306.13	240.94	49.68	533.36	55.56	183.38	306.42
21872	-11.67	14.08	-10.50	108.98	33.08	614.63	63.57	289.53	311.24	232.09	46.28	508.13	60.93	180.02	311.56
21873	-0.67	18.88	-10.50	57.10	19.59	632.87	4.98	288.51	224.64	217.13	44.89	645.14	56.04	157.95	224.63
21874	-2.01	18.81	-10.50	60.18	19.99	631.63	8.64	287.68	226.15	216.05	46.84	641.88	46.60	159.65	226.03
21875	-3.34	18.65	-10.50	64.79	21.02	630.25	14.38	286.49	229.30	215.41	48.42	635.55	38.39	161.49	229.01
21876	-4.66	18.39	-10.50	70.21	22.60	628.55	20.80	285.10	234.03	214.84	49.56	626.10	32.65	163.35	232.56
21877	-5.95	18.06	-10.50	75.73	24.65	626.47	27.60	283.45	240.28	213.96	50.19	613.58	30.75	164.99	239.67
21878	-7.22	17.64	-10.50	80.84	27.09	623.93	34.56	281.44	248.01	212.50	50.33	598.02	33.10	166.11	247.32
21879	-8.45	17.14	-10.50	85.12	29.85	620.78	41.43	278.94	257.11	210.24	50.12	579.44	38.48	166.49	256.41
21880	-9.64	16.56	-10.50	88.32	32.74	616.83	47.80	275.82	267.32	207.01	49.67	557.87	45.11	165.89	266.68
21881	-10.80	15.90	-10.50	90.39	35.37	611.86	53.19	271.97	278.01	202.78	48.89	533.49	51.58	164.10	277.49
21882	-11.90	15.18	-10.50	91.55	37.14	605.68	57.33	267.55	288.01	197.69	47.37	506.95	57.11	161.23	287.61
21883	-16.80	9.56	-10.50	86.09	43.95	594.53	71.22	280.67	319.36	165.27	41.55	386.46	74.85	174.27	319.66
21884	-16.19	10.65	-10.50	88.76	40.99	587.13	71.62	274.82	313.81	170.02	38.50	399.56	75.75	169.26	314.00
21885	-15.52	11.71	-10.50	90.53	38.49	584.05	70.08	267.16	309.27	174.67	37.06	414.82	74.35	162.18	309.33
21886	-15.79	9.49	-10.50	110.42	42.57	609.30	75.67	308.75	329.76	209.00	37.72	409.49	76.78	197.33	330.36
21887	-15.37	10.45	-10.50	108.23	39.75	602.77	75.10	298.62	323.91	206.50	36.08	418.88	76.57	188.36	324.43
21888	-14.91	11.37	-10.50	105.53	37.12	598.62	73.15	287.92	319.25	203.92	35.54	429.38	74.76	178.78	319.66
21889	-14.78	9.42	-10.50	129.83	42.73	614.41	78.98	327.87	337.84	246.25	37.68	426.75	78.04	215.11	338.42
21890	-14.55	10.24	-10.50	124.49	40.02	610.83	77.82	316.70	332.01	238.32	36.78	433.71	77.13	204.69	332.59
21891	-14.30	11.04	-10.50	120.01	37.39	607.78	76.15	305.73	326.89	232.15	36.41	440.82	75.73	194.61	327.41
21892	-12.92	14.40	-10.50	92.15	37.56	598.80	60.46	263.36	296.00	192.38	44.82	480.40	61.73	157.95	295.74
21893	-12.64	13.46	-10.50	108.20	33.66	609.89	66.26	285.45	314.46	223.62	42.84	484.44	65.06	176.35	314.81
21894	-12.35	12.52	-10.50	123.04	33.86	612.76	71.28	306.74	326.56	252.63	44.17	482.42	68.20	195.89	327.06
21895	-13.86	13.56	-10.50	92.53	37.28	591.99	63.60	261.44	301.52	187.14	41.40	455.74	66.27	156.36	301.37
21896	-13.47	12.83	-10.50	107.41	34.26	604.79	68.59	283.27	316.13	216.12	39.53	463.60	68.66	174.37	316.47
21897	-13.09	12.11	-10.50	121.26	34.49	610.85	72.79	303.50	326.34	243.16	40.60	466.94	70.80	192.81	326.84
21898	-14.74	12.68	-10.50	91.99	37.33	586.19	66.96	262.69	305.16	180.87	38.29	433.46	70.82	157.85	305.09
21899	-14.27	12.17	-10.50	105.48	35.39	599.66	70.85	282.95	316.70	207.57	36.72	444.23	72.08	174.22	317.04
21900	-13.81	11.67	-10.50	118.20	35.42	607.90	73.85	300.66	325.45	232.62	37.56	451.86	72.90	189.99	325.94
21901	-0.70	20.20	-9.50	88.65	38.95	559.84	3.29	267.10	157.35	157.29	46.54	571.79	28.93	122.82	157.44
21902	-2.10	20.10	-9.50	88.87	39.72	559.21	8.07	265.90	160.08	154.87	48.63	568.70	23.53	123.96	159.57
21903	-3.49	19.90	-9.50	88.22	41.32	557.85	13.78	263.92	165.02	152.38	51.02	562.41	20.46	125.58	163.83
21904	-4.86	19.62	-9.50	86.80	43.46	555.82	19.57	261.33	172.19	149.67	53.41	553.11	20.81	127.41	170.34
21905	-6.20	19.23	-9.50	84.63	45.98	553.15	25.16	258.06	181.33	146.58	55.65	540.93	24.09	129.07	178.99
21906	-7.52	18.76	-9.50	81.71	48.70	549.81	30.39	254.02	192.09	143.03	57.64	525.95	28.90	130.12	189.49
21907	-8.80	18.19	-9.50	78.13	51.40	545.74	35.10	249.13	204.07	139.07	59.24	508.26	34.17	130.23	201.45
21908	-10.04	17.54	-9.50	74.12	53.77	540.89	39.11	243.38	216.79	134.83	60.25	488.04	39.25	129.11	214.35
21909	-11.23	16.80	-9.50	70.07	55.36	535.24	42.33	236.90	229.54	130.52	60.33	465.68	43.78	126.63	227.44
21910	-12.37	15.98	-9.50	66.50	55.69	528.89	44.88	230.13	241.47	126.38	59.04	441.93	47.75	122.96	239.80
21911	-13.44	15.08	-9.50	63.76	54.45	522.22	47.17	223.82	251.64	122.44	56.13	418.05	51.52	118.69	250.39
21912	-14.46	14.11	-9.50	61.80	52.07	515.86	49.57	218.94	259.75	118.23	52.14	395.40	55.28	114.99	258.85
21913	-15.40	13.08	-9.50	60.00	49.18	510.61	52.09	216.33	266.40	113.07	48.07	374.81	58.82	112.98	265.79
21914	-16.27	11.98	-9.50	57.22	46.89	507.50	54.09	215.27	272.19	106.17	45.44	356.38	61.23	112.32	271.80
21915	-17.06	10.82	-9.50	52.89	45.86	507.22	54.51	214.05	277.86	97.46	45.10	339.86	61.35	111.52	277.65
21916	-17.76	9.62	-9.50	47.36	45.98	509.54	53.32	210.51	283.85	87.87	46.40	325.25	59.37	108.45	283.78
21917	-0.74	21.03	-9.50	103.20	34.98	520.59	4.56	257.12	118.73	151.08	39.52	531.39	21.63	111.75	118.82
21918	-2.22	20.93	-9.50	102.77	35.96	519.30	9.88	255.73	121.85	147.87	41.62	527.19	17.93	112.75	120.82
21919	-3.69	20.72	-9.50	101.00	38.01	517.20	16.28	253.48	128.03	144.13	44.34	519.93	18.34	114.97	125.60
21920	-5.14	20.41	-9.50	98.10	40.80	514.60	22.65	250.47	137.12	139.84	47.34	510.07	22.33	117.92	133.31
21921	-6.57	19.99	-9.50	94.12	44.14	511.51	28.56	246.57	148.56	134.88	50.46	497.75	27.82	120.99	143.66
21922	-7.96	19.48	-9.50	89.08	47.84	507.82	33.74	241.63	161.72	129.27	53.56	482.98	33.47	123.55	156.16
21923	-9.32	18.87	-9.50	83.13	51.64	503.40	38.02	235.54	176.03	123.17	56.45	465.79	38.64	125.07	170.26
21924	-10.62	18.17	-9.50	76.64	55.15	498.12	41.22	228.29	190.88	116.90					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
21953	-7.30	21.52	-9.50	117.92	30.08	398.09	38.83	224.50	93.45	127.35	31.29	384.42	39.31	113.46	75.80
21954	-8.85	20.93	-9.50	109.30	36.05	393.63	44.77	219.48	110.51	117.32	36.83	372.56	45.46	123.12	91.23
21955	-10.35	20.23	-9.50	99.20	42.37	388.39	48.95	212.97	127.78	106.32	42.56	359.84	49.83	131.16	108.31
21956	-11.79	19.42	-9.50	88.13	48.49	382.20	51.16	204.88	144.83	94.96	47.91	346.66	52.35	136.74	126.36
21957	-13.17	18.52	-9.50	76.92	53.79	375.06	51.47	195.25	161.13	84.10	52.29	333.86	53.28	139.33	144.57
21958	-14.48	17.51	-9.50	66.68	57.75	367.14	50.38	184.45	176.17	74.56	55.29	322.60	53.34	138.86	162.04
21959	-15.71	16.41	-9.50	58.31	60.35	358.78	48.84	173.34	189.75	66.58	57.14	314.04	53.43	135.99	178.16
21960	-16.86	15.22	-9.50	51.98	62.14	350.34	47.69	162.90	202.26	59.52	58.75	308.67	53.92	131.97	193.02
21961	-17.92	13.96	-9.50	46.94	63.71	341.86	46.85	153.45	214.33	52.35	60.87	306.24	54.05	127.86	207.11
21962	-18.89	12.62	-9.50	42.18	65.02	333.05	45.35	144.02	225.66	44.37	63.25	306.90	52.55	123.61	220.16
21963	-19.75	11.21	-9.50	37.30	65.92	323.57	42.36	132.93	234.98	35.85	65.34	312.51	48.82	118.10	230.94
21964	-20.51	9.75	-9.50	32.46	66.69	313.73	37.89	119.44	242.28	27.84	66.92	324.46	43.32	110.39	239.30
21965	-0.87	23.55	-9.50	152.19	4.87	357.63	5.75	221.46	15.04	161.79	5.07	366.41	5.48	66.02	12.92
21966	-2.60	23.42	-9.50	150.00	6.37	354.56	16.43	220.79	28.26	157.21	6.58	358.15	16.56	72.59	17.09
21967	-4.32	23.17	-9.50	145.37	9.62	350.03	26.86	219.64	44.21	150.42	9.74	348.46	27.23	85.27	25.05
21968	-6.01	22.78	-9.50	138.99	14.40	345.43	36.51	217.75	60.89	142.01	14.39	339.15	36.87	100.03	36.04
21969	-7.67	22.28	-9.50	130.85	20.41	340.89	44.91	214.86	77.89	131.99	20.21	330.66	45.01	114.95	49.81
21970	-9.29	21.65	-9.50	120.76	27.31	335.89	51.64	210.78	94.98	120.31	26.79	322.86	51.27	128.72	66.00
21971	-10.86	20.91	-9.50	108.86	34.64	330.05	56.27	205.28	111.94	107.24	33.61	315.91	55.35	140.20	84.12
21972	-12.37	20.05	-9.50	95.65	41.79	323.19	58.54	198.14	128.48	93.42	40.09	310.51	57.12	148.44	103.42
21973	-13.81	19.09	-9.50	81.99	48.18	315.37	58.49	189.23	144.20	79.83	45.70	307.76	56.86	152.76	122.96
21974	-15.18	18.02	-9.50	69.04	53.47	306.87	56.66	178.76	158.74	67.59	50.33	308.89	55.38	152.99	141.79
21975	-16.47	16.85	-9.50	57.89	57.91	298.11	54.08	167.38	172.18	57.44	54.51	314.62	53.74	149.74	159.36
21976	-17.66	15.59	-9.50	48.93	62.23	289.39	51.66	156.04	185.15	49.08	59.14	324.66	52.46	144.30	175.96
21977	-18.76	14.25	-9.50	41.50	66.75	280.55	49.34	145.07	198.29	41.46	64.25	338.44	50.89	137.78	192.20
21978	-19.76	12.83	-9.50	34.63	70.67	271.14	46.21	133.63	210.83	33.69	68.64	357.01	47.87	130.00	207.44
21979	-20.65	11.34	-9.50	27.88	73.22	261.32	41.66	120.33	220.91	25.80	71.43	382.70	42.94	119.72	219.60
21980	-21.43	9.79	-9.50	21.87	74.68	252.37	36.11	106.08	228.66	18.87	72.55	414.40	36.72	107.53	228.35
21981	-0.70	20.20	-10.50	67.53	21.08	617.65	3.82	279.87	168.95	187.27	35.32	628.39	43.77	149.78	168.94
21982	-2.10	20.10	-10.50	68.77	22.26	617.41	7.81	278.51	171.56	185.03	38.29	625.87	35.51	150.47	171.13
21983	-3.49	19.90	-10.50	70.30	24.32	616.43	13.48	276.53	176.69	183.18	41.25	619.95	28.98	151.55	175.67
21984	-4.86	19.62	-10.50	71.96	26.95	614.67	19.57	274.10	184.31	181.37	43.97	610.71	25.62	152.88	182.68
21985	-6.20	19.23	-10.50	73.49	30.02	612.16	25.77	271.13	194.15	179.32	46.33	598.27	26.35	154.06	192.01
21986	-7.52	18.76	-10.50	74.70	33.40	608.87	31.97	267.47	205.87	176.90	48.33	582.69	30.51	154.69	203.41
21987	-8.80	18.19	-10.50	75.51	36.98	604.70	37.98	263.07	219.17	174.09	50.03	564.01	36.55	154.44	216.59
21988	-10.04	17.54	-10.50	75.96	40.53	599.55	43.50	257.92	233.65	170.90	51.44	542.29	43.10	153.08	231.15
21989	-11.23	16.80	-10.50	76.19	43.56	593.26	48.18	252.13	248.62	167.41	52.30	517.75	49.24	150.47	246.37
21990	-12.37	15.98	-10.50	76.46	45.27	585.81	51.95	246.16	262.95	163.74	51.95	491.04	54.62	146.80	261.07
21991	-13.44	15.08	-10.50	76.82	45.00	577.62	55.29	240.98	274.99	159.84	49.63	463.63	59.65	142.92	273.51
21992	-14.46	14.11	-10.50	77.00	43.33	569.64	58.93	238.10	283.91	155.12	45.77	437.54	64.82	140.60	282.78
21993	-15.40	13.08	-10.50	76.23	41.92	563.27	63.06	238.88	290.64	148.99	42.30	414.08	70.07	141.70	289.76
21994	-16.27	11.98	-10.50	73.48	42.36	560.18	66.49	242.35	296.38	140.84	41.73	393.28	73.92	145.54	295.66
21995	-17.06	10.82	-10.50	68.52	44.58	561.75	67.48	245.75	301.92	131.10	44.41	374.79	74.55	149.38	301.34
21996	-17.76	9.62	-10.50	62.30	47.64	567.87	65.99	245.97	307.84	121.17	48.66	358.97	72.19	149.84	307.39
21997	-0.74	21.03	-10.50	80.27	23.08	585.08	2.38	271.97	125.49	172.62	31.17	595.03	33.40	140.66	125.44
21998	-2.22	20.93	-10.50	80.43	24.67	583.90	8.12	270.28	128.49	168.97	34.35	591.12	26.12	140.85	127.55
21999	-3.69	20.72	-10.50	80.09	27.22	582.03	14.65	267.89	135.07	165.43	37.74	583.96	21.99	141.98	132.84
22000	-5.14	20.41	-10.50	79.33	30.33	579.63	21.15	264.93	145.00	161.68	41.04	573.94	22.51	143.79	141.41
22001	-6.57	19.99	-10.50	77.95	33.96	576.71	27.36	261.11	157.53	157.48	44.21	561.13	26.70	145.64	152.80
22002	-7.96	19.48	-10.50	75.86	38.05	573.12	33.15	256.22	172.02	152.81	47.29	545.48	32.62	146.91	166.53
22003	-9.32	18.87	-10.50	73.18	42.42	568.66	38.36	250.17	187.96	147.79	50.29	526.96	38.95	147.10	182.14
22004	-10.62	18.17	-10.50	70.21	46.73	563.17	42.74	242.98	204.81	142.61	53.07	505.66	44.92	145.83	199.09
22005	-11.88	17.37	-10.50	67.44	50.34	556.48	46.10	234.80	221.84	137.50	55.15	481.86	50.13	142.85	216.56
22006	-13.07	16.49	-10.50	65.41	52.33	548.61	48.66	226.19	237.87	132.60	55.66	456.36	54.68	138.31	232.29
22007	-14.20	15.53	-10.50	64.21	52.08	540.01	51.23	218.37	251.61	127.60	53.97	430.62	59.23	133.23	247.81
22008	-15.26	14.48	-10.50	63.20	50.24	531.65	54.60	212.98	262.60	121.63	50.84	406.36	64.26	129.52	259.51
22009	-16.24	13.37	-10.50	61.26	48.73	524.83	58.53	210.86	271.91	113.81	48.73	384.33	69.11	128.70	269.34
22010	-17.14	12.19	-10.50	57.47	48.80	520.76	61.39	210.67	280.68	103.92	49.45	363.94	71.94	129.97	278.45
22011	-17.95	10.95	-10.50	51.69	50.29	520.44	61.61	209.39	288.53	92.55	52.53	345.19	71.35	130.35	286.58
22012	-18.68	9.66	-10.50	44.65	52.87	523.55	59.28	204.07	295.58	80.73	56.87	329.58	67.69	126.58	293.95
22013	-0.78	21.87	-10.50	96.94	22.43	535.89	3.03	261.81	79.48	163.23	26.38	545.29	22.00	128.21	79.29
22014	-2.35	21.76	-10.50	95.98	23.96	533.23	9.63	259.93	83.65	157.99	29.08	539.24	16.87	128.48	81.50
22015	-3.90	21.54	-10.50	93.96	26.90	530.04	16.92	257.48	92.77	152.47	32.54	530.47	17.91	130.69	87.76
22016	-5.43	21.20	-10.50	91.21	30.45	526.88	23.95	254.41	106.00	146.52	36.15	519.78	23.55	134.28	98.14
22017	-6.94	20.76	-10.50	87.40	34.64	523.56	30.31	250.26	121.77	139.85	39.96	507.11	30.38	138.29	111.70
22018	-8.41	20.20	-10.50	82.40	39.44	519.71	35.83	244.75	139.07	132.56	44.02	492.16	37.02	141.82	127.65
22019	-9.83	19.55	-10.50	76.41	44.58	515.01	40.29	237.76	157.31	124.91	48.23	474.86	42.91	144.12	145.40
22020	-11.20	18.79	-10.50	69.91	49.64	509.28	43.48	229.26	175.94	117.27	52.28	455.37	47.75	144.58	164.34
22021	-12.52	17.94	-10.50	63.72	53.87	502.39	45.38	219.38	194.28	110.14	55.50	434.15	51.54	142.75	183.62
22022	-13.77	17.00	-10.50	58.82	56.40	494.43	46.47	208.66	211.39	103.80	57.04	412.13	54.78	138.67	202.09
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Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
22051	-10.86	20.91	-10.50	97.01	33.55	377.89	50.68	217.81	117.02	103.60	32.99	360.96	52.70	150.43	86.21
22052	-12.37	20.05	-10.50	84.85	40.08	371.55	52.56	210.32	134.73	90.48	39.26	354.82	54.63	157.51	106.42
22053	-13.81	19.09	-10.50	72.24	45.73	364.17	52.19	200.96	151.68	77.85	44.73	350.79	54.74	160.87	127.06
22054	-15.18	18.02	-10.50	60.66	50.15	355.99	50.30	189.88	167.48	66.92	49.32	350.03	54.00	160.22	147.09
22055	-16.47	16.85	-10.50	51.53	53.88	347.41	48.39	177.92	182.17	58.35	53.90	353.30	53.71	156.25	165.95
22056	-17.66	15.59	-10.50	45.13	58.40	338.70	47.73	166.39	196.77	51.43	59.94	360.34	54.33	150.71	184.27
22057	-18.76	14.25	-10.50	40.11	64.55	329.27	47.86	156.05	212.78	44.79	67.66	370.44	54.71	145.20	203.68
22058	-19.76	12.83	-10.50	34.77	70.29	317.67	46.72	145.77	229.50	37.33	74.61	385.48	53.03	139.26	223.71
22059	-20.65	11.34	-10.50	28.48	73.36	303.50	43.06	132.87	242.75	28.92	78.95	411.55	48.45	130.19	239.77
22060	-21.43	9.79	-10.50	22.41	75.28	289.46	37.49	117.96	251.63	21.35	81.84	449.36	41.97	117.80	250.01
22061	0.61	-2.50	-9.50	75.14	41.40	292.82	11.28	408.47	346.37	490.47	131.47	320.38	21.59	173.20	346.67
22062	0.61	-3.10	-9.50	74.91	41.22	298.02	11.52	407.63	344.31	486.24	130.31	325.22	24.97	173.98	344.77
22063	1.84	-2.50	-9.50	78.49	42.15	299.47	21.38	408.89	345.27	517.07	139.50	317.02	30.65	159.56	345.67
22064	1.83	-3.10	-9.50	78.21	41.94	304.57	21.31	408.05	343.26	512.12	138.10	321.93	34.04	160.59	343.86
22065	3.07	-2.50	-9.50	85.56	43.05	312.13	31.16	408.93	344.60	547.18	147.08	313.42	40.51	147.08	345.10
22066	3.06	-3.10	-9.50	85.20	42.79	317.03	30.94	408.10	342.65	541.42	145.43	318.45	44.05	148.37	343.40
22067	4.30	-2.50	-9.50	95.42	44.02	330.14	40.32	408.52	344.33	581.45	154.04	309.79	50.32	136.72	344.94
22068	4.28	-3.10	-9.50	94.95	43.70	334.79	39.99	407.70	342.45	574.78	152.14	314.97	54.19	138.22	343.37
22069	5.52	-2.50	-9.50	107.10	44.96	352.74	48.59	407.53	344.42	620.60	160.09	306.60	59.63	129.59	345.13
22070	5.50	-3.10	-9.50	106.47	44.57	357.10	48.21	406.74	342.64	612.93	158.00	311.96	63.98	131.25	343.71
22071	6.75	-2.50	-9.50	119.87	45.74	379.10	55.75	405.83	344.77	665.43	164.83	304.76	68.08	127.02	345.55
22072	6.72	-3.10	-9.50	119.02	45.30	383.15	55.34	405.05	343.11	656.69	162.60	310.25	73.06	128.75	344.30
22073	7.98	-2.50	-9.50	133.26	46.24	408.44	61.50	403.22	345.24	716.85	167.64	305.72	75.31	130.60	346.06
22074	7.94	-3.10	-9.50	132.11	45.77	412.15	61.12	402.44	343.75	706.99	165.39	311.22	81.01	132.25	344.98
22075	9.21	-2.50	-9.50	147.00	46.36	440.01	65.59	399.47	345.63	775.95	167.62	311.58	80.90	142.13	346.41
22076	9.17	-3.10	-9.50	145.50	45.89	443.33	65.26	398.65	344.32	764.98	165.55	316.84	87.41	143.54	345.51
22077	10.43	-2.50	-9.50	161.08	46.03	473.09	67.76	394.24	345.67	844.13	163.55	324.87	84.40	163.51	346.33
22078	10.39	-3.10	-9.50	159.20	45.57	475.95	67.51	393.36	344.56	832.09	161.91	329.46	91.74	164.48	345.56
22079	11.66	-2.50	-9.50	175.71	45.29	506.96	67.79	387.06	345.01	923.31	153.76	347.97	85.33	196.24	345.48
22080	11.61	-3.10	-9.50	173.44	44.83	509.24	67.65	386.13	344.07	910.39	152.95	351.34	93.41	196.59	344.78
22081	12.89	-2.50	-9.50	191.50	44.35	540.73	65.52	377.13	343.32	1016.31	136.09	382.19	83.05	240.59	343.56
22082	12.83	-3.10	-9.50	188.88	43.87	542.30	65.53	376.19	342.49	1002.84	136.60	383.77	91.70	240.19	342.84
22083	14.12	-2.50	-9.50	209.76	43.76	573.17	60.72	363.06	340.32	1127.03	108.00	426.53	76.83	294.43	340.34
22084	14.05	-3.10	-9.50	206.84	43.17	573.92	60.99	362.21	339.48	1113.54	110.34	425.89	85.69	293.30	339.51
22085	15.34	-2.50	-9.50	232.95	44.47	602.17	53.00	342.47	335.77	1260.43	68.67	475.93	65.79	351.81	335.75
22086	15.28	-3.10	-9.50	229.78	43.70	602.04	53.71	341.86	334.80	1247.67	72.68	473.00	74.30	350.14	334.78
22087	16.57	-2.50	-9.50	264.99	48.03	623.87	41.58	311.84	329.38	1422.08	47.93	518.63	49.23	401.23	329.81
22088	16.50	-3.10	-9.50	261.61	47.00	622.96	43.07	311.71	328.18	1410.85	45.67	513.93	56.70	399.42	328.85
22089	17.80	-2.50	-9.50	311.21	56.28	631.48	25.42	267.19	320.51	1618.21	119.67	533.01	27.23	424.60	322.61
22090	17.72	-3.10	-9.50	307.55	55.04	630.14	28.17	267.82	319.09	1608.74	110.30	527.94	33.50	423.18	322.30
22091	19.03	-2.50	-9.50	377.95	70.81	614.07	8.35	206.26	307.68	1858.46	238.60	486.60	8.06	398.80	314.31
22092	18.94	-3.10	-9.50	373.74	69.52	612.99	11.80	208.02	306.21	1849.50	229.56	483.87	10.86	398.10	316.62
22093	0.61	-2.50	-10.50	88.25	51.26	306.86	12.77	409.60	352.30	577.42	148.20	331.02	26.21	201.56	352.55
22094	0.61	-3.10	-10.50	88.12	50.94	311.88	12.97	408.98	350.17	572.61	146.96	335.73	30.65	202.38	350.55
22095	1.84	-2.50	-10.50	93.35	52.35	313.10	24.30	410.17	351.52	609.45	157.92	328.38	36.45	189.07	351.86
22096	1.83	-3.10	-10.50	93.17	52.01	318.03	24.24	409.55	349.44	603.76	156.43	333.15	40.99	190.13	349.94
22097	3.07	-2.50	-10.50	103.15	53.78	325.05	35.51	410.58	351.23	645.60	167.26	325.61	47.78	177.93	351.66
22098	3.06	-3.10	-10.50	102.90	53.38	329.80	35.33	409.97	349.22	638.92	165.52	330.48	52.58	179.23	349.86
22099	4.30	-2.50	-10.50	116.33	55.44	342.17	46.11	410.77	351.40	686.29	176.09	322.83	59.25	169.11	351.93
22100	4.28	-3.10	-10.50	115.97	55.00	346.69	45.85	410.20	349.49	678.51	174.11	327.82	64.53	170.62	350.29
22101	5.52	-2.50	-10.50	131.63	57.24	363.80	55.83	410.66	352.01	731.88	184.18	320.28	70.34	163.80	352.63
22102	5.50	-3.10	-10.50	131.10	56.77	368.05	55.54	410.13	350.24	722.93	182.00	325.42	76.31	165.48	351.18
22103	6.75	-2.50	-10.50	148.08	59.07	389.21	64.41	410.16	352.98	782.72	191.15	318.46	80.67	163.50	353.69
22104	6.72	-3.10	-10.50	147.32	58.59	393.17	64.14	409.65	351.39	772.54	188.84	323.75	87.48	165.23	352.46
22105	7.98	-2.50	-10.50	165.00	60.78	417.73	71.57	409.13	354.20	839.12	196.44	318.23	89.80	170.01	354.95
22106	7.94	-3.10	-10.50	163.94	60.34	421.38	71.35	408.63	352.85	827.71	194.12	323.61	97.61	171.65	353.98
22107	9.21	-2.50	-10.50	181.94	62.25	448.74	76.98	407.43	355.49	901.45	199.22	320.87	97.29	185.46	356.23
22108	9.17	-3.10	-10.50	180.50	61.90	452.03	76.84	406.89	354.42	888.86	197.07	326.22	106.17	186.80	355.53
22109	10.43	-2.50	-10.50	198.57	63.36	481.66	80.37	404.89	356.59	970.31	198.34	328.21	102.64	212.19	357.25
22110	10.39	-3.10	-10.50	196.72	63.11	484.52	80.30	404.27	355.81	956.67	196.62	333.25	112.58	213.01	356.81
22111	11.66	-2.50	-10.50	214.69	64.07	516.02	81.51	401.23	357.19	1046.87	192.22	342.51	105.28	252.45	357.70
22112	11.61	-3.10	-10.50	212.42	63.90	518.33	81.49	400.51	356.69	1032.44	191.28	346.81	116.19	252.50	357.45
22113	12.89	-2.50	-10.50	230.27	64.43	551.34	80.26	395.94	357.02	1133.43	178.77	366.16	104.58	307.71	357.33
22114	12.83	-3.10	-10.50	227.62	64.27	552.97	80.29	395.14	356.68	1118.62	179.07	369.16	116.23	306.85	357.14
22115	14.12	-2.50	-10.50	245.65	64.72	587.05	76.50	387.95	355.91	1234.13	155.23	400.94	99.71	377.68	356.01
22116	14.05	-3.10	-10.50	242.69	64.46	587.86	76.64	387.13	355.57	1219.55	157.33	402.05	111.67	375.87	355.71
22117	15.34	-2.50	-10.50	262.16	65.40	622.06	69.90	375.13	353.91	1355.88	118.61	446.43	89.56	458.66	353.89
22118	15.28	-3.10	-10.50	258.97	64.93	621.96	70.31	374.42	353.36	1342.37	122.89	445.27	101.10	456.07	353.32
22119	16.57	-2.50	-10.50	283.20	67.20	653.60	59.52	353.61	351.18	1509.40	71.50	496.96	72.86	541.31	351.29
22120	16.50	-3.10	-10.50	279.85	66.46	652.61									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
22149	-16.57	-2.50	-9.50	83.92	38.79	600.08	74.08	318.86	356.12	192.84	36.23	323.46	73.96	187.24	356.22
22150	-16.50	-3.10	-9.50	84.16	38.41	599.50	73.40	318.46	354.66	192.62	36.06	327.62	73.20	187.08	354.81
22151	-15.34	-2.50	-9.50	106.18	40.58	585.17	77.69	344.32	362.52	231.29	36.54	331.45	77.48	217.38	362.59
22152	-15.28	-3.10	-9.50	105.93	40.16	585.32	77.01	343.52	361.23	230.59	36.58	336.07	76.68	216.62	361.34
22153	-14.12	-2.50	-9.50	121.72	42.14	560.64	78.99	360.86	366.73	261.89	39.05	335.89	78.74	237.62	366.77
22154	-14.05	-3.10	-9.50	121.13	41.77	561.62	78.41	359.89	365.51	260.85	39.27	340.87	78.01	236.56	365.58
22155	-12.89	-2.50	-9.50	130.87	43.27	531.02	78.37	372.00	368.93	286.57	43.33	338.16	78.11	250.02	368.96
22156	-12.83	-3.10	-9.50	130.09	42.94	532.79	77.92	371.01	367.69	285.30	43.59	343.39	77.51	248.90	367.73
22157	-11.66	-2.50	-9.50	134.65	43.86	499.06	76.02	380.00	369.37	307.31	48.89	339.06	75.76	256.53	369.39
22158	-11.61	-3.10	-9.50	133.80	43.54	501.51	75.67	379.08	368.01	305.91	49.09	344.41	75.26	255.49	368.04
22159	-10.43	-2.50	-9.50	134.14	43.93	466.47	71.98	386.13	368.39	325.65	55.43	339.00	71.75	258.59	368.41
22160	-10.39	-3.10	-9.50	133.34	43.59	469.48	71.71	385.31	366.87	324.17	55.54	344.37	71.33	257.70	366.88
22161	-9.21	-2.50	-9.50	130.32	43.57	434.42	66.37	391.04	366.39	342.61	62.78	338.24	66.18	257.12	366.39
22162	-9.17	-3.10	-9.50	129.64	43.21	437.87	66.13	390.31	364.68	341.07	62.80	343.55	65.81	256.41	364.70
22163	-7.98	-2.50	-9.50	124.01	42.94	403.77	59.33	395.07	363.73	358.89	70.77	336.96	59.22	252.76	363.74
22164	-7.94	-3.10	-9.50	123.46	42.56	407.58	59.11	394.39	361.88	357.26	70.71	342.17	58.90	252.22	361.90
22165	-6.75	-2.50	-9.50	115.91	42.20	375.29	51.08	398.38	360.76	374.97	79.23	335.30	51.11	245.95	360.78
22166	-6.72	-3.10	-9.50	115.49	41.83	379.42	50.89	397.72	358.80	373.21	79.08	340.40	50.87	245.56	358.83
22167	-5.52	-2.50	-9.50	106.70	41.50	349.74	41.87	401.12	357.73	391.28	87.97	333.36	42.17	237.05	357.77
22168	-5.50	-3.10	-9.50	106.37	41.16	354.16	41.74	400.43	355.69	389.31	87.72	338.35	42.08	236.81	355.75
22169	-4.30	-2.50	-9.50	97.12	40.95	327.90	31.97	403.35	354.83	408.20	96.84	331.19	32.81	226.39	354.89
22170	-4.28	-3.10	-9.50	96.86	40.67	332.59	31.93	402.63	352.74	405.95	96.46	336.09	33.03	226.31	352.83
22171	-3.07	-2.50	-9.50	88.07	40.64	310.58	21.64	405.17	352.17	426.14	105.72	328.83	23.74	214.29	352.27
22172	-3.06	-3.10	-9.50	87.85	40.41	315.51	21.74	404.40	350.06	423.52	105.18	333.66	24.58	214.39	350.21
22173	-1.84	-2.50	-9.50	80.62	40.61	298.57	11.21	406.61	349.84	445.52	114.50	326.26	16.68	201.11	349.99
22174	-1.83	-3.10	-9.50	80.42	40.42	303.68	11.60	405.80	347.73	442.45	113.78	331.06	18.70	201.41	347.97
22175	-0.61	-2.50	-9.50	75.97	40.87	292.53	3.43	407.70	347.89	466.80	123.11	323.46	15.60	187.25	348.12
22176	-0.61	-3.10	-9.50	75.76	40.70	297.73	4.60	406.87	345.80	463.19	122.18	328.25	18.79	187.78	346.14
22177	-19.03	-2.50	-10.50	73.46	51.33	629.19	73.93	272.03	361.99	147.22	52.79	318.72	74.20	158.45	362.05
22178	-18.94	-3.10	-10.50	74.09	50.85	628.06	73.35	273.07	360.09	148.06	52.09	321.96	73.77	159.89	360.18
22179	-17.80	-2.50	-10.50	115.07	55.56	640.41	83.99	324.98	368.69	213.17	49.52	336.60	84.05	206.46	368.77
22180	-17.72	-3.10	-10.50	114.95	54.84	639.31	83.04	324.94	367.19	213.08	48.79	340.29	83.14	206.75	367.32
22181	-16.57	-2.50	-10.50	147.10	58.29	628.46	89.65	357.72	373.11	267.36	46.22	345.33	89.58	240.19	373.19
22182	-16.50	-3.10	-10.50	146.43	57.66	627.92	88.59	357.09	372.04	266.57	45.91	349.52	88.49	239.78	372.16
22183	-15.34	-2.50	-10.50	168.12	59.86	604.38	92.11	376.20	376.12	308.83	44.57	349.15	91.97	262.18	376.18
22184	-15.28	-3.10	-10.50	167.10	59.49	604.64	91.17	375.31	375.36	307.58	44.86	353.80	90.96	261.37	375.45
22185	-14.12	-2.50	-10.50	179.27	60.59	574.54	92.33	386.23	377.89	339.70	45.32	350.66	92.16	275.71	377.93
22186	-14.05	-3.10	-10.50	178.09	60.49	575.62	91.64	385.29	377.27	338.20	46.04	355.66	91.36	274.74	377.33
22187	-12.89	-2.50	-10.50	182.81	60.63	542.17	90.78	391.92	378.34	363.31	48.38	350.98	90.59	283.37	378.36
22188	-12.83	-3.10	-10.50	181.62	60.70	544.02	90.35	391.07	377.68	361.70	49.19	356.19	90.05	282.42	377.71
22189	-11.66	-2.50	-10.50	180.77	60.03	508.98	87.52	395.54	377.47	382.51	53.37	350.53	87.34	286.73	377.48
22190	-11.61	-3.10	-10.50	179.68	60.12	511.47	87.30	394.82	376.62	380.87	54.00	355.84	87.01	285.90	376.63
22191	-10.43	-2.50	-10.50	174.70	58.86	476.03	82.51	398.16	375.49	399.31	59.96	349.53	82.37	286.72	375.50
22192	-10.39	-3.10	-10.50	173.80	58.86	479.04	82.40	397.59	374.38	397.68	60.33	354.83	82.18	286.08	374.38
22193	-9.21	-2.50	-10.50	165.71	57.30	444.14	75.78	400.28	372.74	415.04	67.89	348.12	75.72	283.93	372.74
22194	-9.17	-3.10	-10.50	165.03	57.17	447.55	75.72	399.82	371.35	413.43	68.03	353.34	75.61	283.47	371.34
22195	-7.98	-2.50	-10.50	154.62	55.56	413.97	67.51	402.08	369.57	430.57	76.88	346.41	67.57	278.76	369.56
22196	-7.94	-3.10	-10.50	154.16	55.31	417.71	67.45	401.67	367.92	428.92	76.84	351.52	67.53	278.45	367.92
22197	-6.75	-2.50	-10.50	142.13	53.86	386.18	57.95	403.63	366.26	446.50	86.60	344.50	58.23	271.52	366.27
22198	-6.72	-3.10	-10.50	141.85	53.53	390.22	57.89	403.23	364.42	444.72	86.42	349.50	58.27	271.34	364.43
22199	-5.52	-2.50	-10.50	128.92	52.37	361.44	47.37	404.98	363.06	463.34	96.78	342.46	48.04	262.50	363.08
22200	-5.50	-3.10	-10.50	128.76	52.01	365.74	47.34	404.55	361.08	461.32	96.47	347.35	48.28	262.44	361.10
22201	-4.30	-2.50	-10.50	115.80	51.23	340.42	36.08	406.16	360.11	481.55	107.17	340.33	37.53	251.99	360.15
22202	-4.28	-3.10	-10.50	115.71	50.88	344.98	36.10	405.67	358.03	479.19	106.73	345.13	38.15	252.06	358.09
22203	-3.07	-2.50	-10.50	103.80	50.53	323.85	24.34	407.20	357.50	501.60	117.61	338.14	27.54	240.28	357.58
22204	-3.06	-3.10	-10.50	103.74	50.20	328.63	24.47	406.66	355.36	498.78	117.00	342.88	28.95	240.50	355.48
22205	-1.84	-2.50	-10.50	94.24	50.30	312.40	12.49	408.11	355.31	523.95	127.98	335.87	20.13	227.70	355.43
22206	-1.83	-3.10	-10.50	94.18	49.99	317.34	12.87	407.53	353.15	520.57	127.19	340.57	22.97	228.09	353.33
22207	-0.61	-2.50	-10.50	88.64	50.56	306.63	3.58	408.91	353.57	549.07	138.20	333.51	19.43	214.63	353.75
22208	-0.61	-3.10	-10.50	88.56	50.25	311.66	4.70	408.30	351.41	545.03	137.20	338.20	23.58	215.23	351.68
22209	-20.06	-2.50	-9.50	19.09	39.19	521.48	46.43	167.14	322.30	48.88	42.73	271.61	47.00	58.96	322.33
22210	-20.91	-2.50	-9.50	24.27	43.30	455.89	35.89	115.90	309.05	20.40	43.69	269.09	36.68	49.12	308.96
22211	-21.75	-2.50	-9.50	25.78	49.62	372.17	25.04	70.09	293.43	9.47	43.93	300.85	25.89	58.52	293.21
22212	-22.60	-2.50	-9.50	19.82	57.80	286.04	15.14	40.51	275.54	12.15	43.46	383.75	15.53	60.40	275.25
22213	-23.44	-2.50	-9.50	7.41	66.74	238.46	8.71	28.83	255.95	6.12	42.43	514.97	7.31	37.88	255.81
22214	-19.98	-3.10	-9.50	20.64	39.89	521.15	46.59	169.72	320.41	50.62	43.36	273.89	47.47	62.55	320.45
22215	-20.83	-3.10	-9.50	24.95	44.21	456.04	36.34	119.34	307.15	22.38	44.92	270.10	37.56	52.86	307.02
22216	-21.68	-3.10	-9.50	26.20	50.54	372.78	25.81	74.77	291.61	10.73	45.80	300.09	27.12	61.56	291.27
22217	-22.52	-3.10	-9.50	20.20	58.57	286.81	16.34	46.73	273.90	12.18	45.89	381.32	17.01	63.72	273.47
22218	-23.37	-3.10	-9.50	7.82	67.25	238.60	10.56	35.84	254.48	5.98	45.35	511.37	8.84	43.52	254.31
22219	-2														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
22247	16.14	-5.08	-9.50	242.10	41.89	617.92	49.15	310.48	323.59	1335.42	52.40	490.87	104.90	391.02	325.40
22248	14.94	-5.08	-9.50	212.44	40.02	601.08	56.44	338.26	331.00	1169.89	88.45	459.43	119.75	341.00	331.01
22249	13.75	-5.07	-9.50	191.66	40.29	577.37	61.68	357.43	336.07	1037.65	116.23	423.62	126.42	286.43	336.09
22250	12.55	-5.07	-9.50	175.84	41.32	549.75	65.01	371.07	338.94	931.44	134.58	391.77	127.40	236.97	339.73
22251	11.36	-5.07	-9.50	162.53	42.35	519.94	66.36	381.13	340.00	844.73	145.86	367.13	124.38	197.19	341.69
22252	10.16	-5.07	-9.50	150.35	43.06	489.15	65.69	388.64	339.76	772.63	151.95	350.23	118.43	168.25	342.18
22253	8.97	-5.07	-9.50	138.55	43.38	458.43	63.09	394.13	338.81	711.72	154.27	340.16	110.28	149.46	341.64
22254	7.77	-5.06	-9.50	126.78	43.35	428.78	58.78	397.98	337.60	659.77	153.86	335.40	100.53	139.28	340.55
22255	6.58	-5.06	-9.50	114.99	43.07	401.14	53.04	400.52	336.47	615.16	151.51	334.29	89.72	136.03	339.30
22256	5.38	-5.06	-9.50	103.41	42.61	376.36	46.16	402.05	335.62	576.68	147.77	335.42	78.32	138.14	338.17
22257	4.18	-5.06	-9.50	92.57	42.06	355.23	38.40	402.85	335.16	543.34	143.02	337.72	66.71	144.28	337.34
22258	2.99	-5.06	-9.50	83.29	41.45	338.49	30.03	403.12	335.12	514.29	137.51	340.54	55.25	153.33	336.93
22259	1.79	-5.05	-9.50	76.60	40.86	326.79	21.38	403.00	335.55	488.82	131.41	343.51	44.35	164.33	336.98
22260	0.60	-5.05	-9.50	73.51	40.31	320.66	13.27	402.58	336.44	466.29	124.81	346.45	34.64	176.48	337.53
22261	18.21	-6.18	-9.50	325.21	53.79	600.52	39.12	221.64	295.94	1721.00	107.08	452.56	96.06	417.97	323.20
22262	17.04	-6.18	-9.50	265.21	43.02	616.40	46.87	272.09	309.06	1462.75	42.99	482.18	131.60	419.41	319.59
22263	15.86	-6.18	-9.50	224.67	38.75	613.93	52.98	309.08	319.41	1257.33	65.31	475.00	148.51	383.77	322.18
22264	14.69	-6.18	-9.50	197.90	37.80	600.41	57.87	335.03	327.13	1097.17	94.44	451.18	154.14	332.64	327.22
22265	13.51	-6.17	-9.50	179.60	38.35	580.13	61.63	353.38	332.24	972.19	115.18	423.60	153.36	279.93	332.24
22266	12.34	-6.17	-9.50	165.91	39.38	555.47	64.03	366.87	334.94	873.26	129.07	398.65	148.71	233.53	335.96
22267	11.16	-6.17	-9.50	154.48	40.34	527.91	64.77	377.08	335.69	793.29	137.85	378.90	141.47	196.84	337.95
22268	9.99	-6.17	-9.50	143.97	41.01	498.74	63.72	384.77	335.14	727.22	142.77	364.96	132.30	170.39	338.39
22269	8.81	-6.17	-9.50	133.59	41.36	469.23	60.94	390.33	333.93	671.73	144.78	356.37	121.64	153.21	337.73
22270	7.64	-6.16	-9.50	122.96	41.45	440.59	56.63	394.10	332.54	624.67	144.63	352.11	109.90	143.80	336.49
22271	6.46	-6.16	-9.50	112.02	41.34	413.86	51.07	396.48	331.30	584.48	142.90	350.95	97.52	140.65	335.08
22272	5.29	-6.16	-9.50	101.06	41.10	389.95	44.53	397.83	330.38	549.97	139.97	351.76	84.90	142.39	333.78
22273	4.11	-6.16	-9.50	90.65	40.76	369.63	37.27	398.46	329.85	520.17	136.14	353.67	72.38	147.86	332.77
22274	2.94	-6.16	-9.50	81.66	40.37	353.60	29.57	398.60	329.75	494.25	131.57	356.11	60.24	156.08	332.17
22275	1.76	-6.15	-9.50	75.18	39.94	342.43	21.85	398.41	330.10	471.52	126.40	358.78	48.84	166.17	332.02
22276	0.59	-6.15	-9.50	72.22	39.52	336.57	15.09	397.99	330.89	451.39	120.70	361.52	38.70	177.42	332.37
22277	17.83	-7.26	-9.50	290.98	45.81	592.11	52.88	227.92	290.39	1592.48	52.27	435.32	189.02	433.55	325.36
22278	16.68	-7.26	-9.50	236.93	39.45	608.29	54.49	273.24	303.65	1336.77	49.17	461.00	199.05	414.93	317.76
22279	15.53	-7.26	-9.50	202.20	36.99	608.70	56.45	306.63	314.10	1145.72	73.43	458.72	195.93	372.17	318.00
22280	14.38	-7.26	-9.50	180.16	36.43	599.12	58.80	330.58	321.79	1001.44	93.83	443.44	187.86	320.66	322.00
22281	13.23	-7.26	-9.50	165.46	36.82	582.74	60.97	348.15	326.76	890.43	108.75	424.45	177.87	270.82	326.73
22282	12.08	-7.26	-9.50	154.58	37.55	561.31	62.32	361.56	329.27	803.11	119.29	406.40	166.88	228.45	330.47
22283	10.93	-7.26	-9.50	145.46	38.23	536.16	62.39	371.96	329.90	732.68	126.49	391.41	155.28	195.60	332.61
22284	9.78	-7.26	-9.50	136.86	38.75	508.74	60.98	379.78	329.30	674.50	130.89	380.38	143.03	172.08	333.21
22285	8.63	-7.26	-9.50	128.04	39.08	480.57	58.09	385.29	328.11	625.73	133.09	373.34	130.08	156.71	332.68
22286	7.48	-7.26	-9.50	118.60	39.25	453.09	53.91	388.87	326.80	584.51	133.59	369.75	116.66	148.09	331.54
22287	6.33	-7.26	-9.50	108.54	39.31	427.47	48.70	390.99	325.66	549.46	132.76	368.71	103.06	144.97	330.19
22288	5.18	-7.25	-9.50	98.20	39.26	404.62	42.69	392.07	324.82	519.48	130.88	369.36	89.55	146.25	328.90
22289	4.03	-7.25	-9.50	88.23	39.13	385.28	36.14	392.48	324.34	493.64	128.13	371.00	76.39	150.95	327.86
22290	2.88	-7.25	-9.50	79.56	38.93	370.08	29.32	392.46	324.24	471.19	124.66	373.16	63.81	158.20	327.17
22291	1.73	-7.25	-9.50	73.29	38.69	359.52	22.74	392.19	324.54	451.49	120.54	375.59	52.07	167.27	326.90
22292	0.58	-7.25	-9.50	70.48	38.40	354.00	17.43	391.76	325.24	433.99	115.87	378.16	41.60	177.51	327.07
22293	18.78	-3.96	-10.50	357.02	76.58	668.95	31.29	266.40	338.01	1951.95	162.48	521.25	36.96	639.92	347.16
22294	17.57	-3.96	-10.50	304.61	68.22	670.08	49.53	318.33	344.59	1677.03	63.11	522.28	74.23	602.01	347.24
22295	16.36	-3.96	-10.50	272.97	64.76	650.48	62.31	352.19	349.67	1470.95	85.34	486.79	103.36	532.23	350.11
22296	15.15	-3.96	-10.50	252.64	63.71	621.61	71.02	372.82	353.53	1313.35	129.29	442.89	121.99	450.48	353.48
22297	13.94	-3.96	-10.50	236.99	63.61	589.29	76.85	385.35	356.07	1189.86	159.64	404.04	131.69	371.85	356.26
22298	12.73	-3.96	-10.50	222.63	63.59	555.95	80.31	393.41	357.13	1089.51	178.34	374.61	134.74	304.73	357.80
22299	11.51	-3.96	-10.50	208.23	63.22	522.56	81.39	398.97	356.78	1004.76	188.58	354.52	132.92	252.21	357.96
22300	10.30	-3.96	-10.50	193.35	62.34	489.68	80.07	402.92	355.40	930.93	192.77	342.16	127.43	214.19	356.96
22301	9.09	-3.96	-10.50	177.91	61.02	457.89	76.46	405.67	353.49	865.32	192.65	335.58	119.15	188.99	355.24
22302	7.88	-3.96	-10.50	162.02	59.41	427.81	70.84	407.43	351.47	806.53	189.54	332.98	108.83	174.36	353.24
22303	6.67	-3.95	-10.50	145.93	57.67	400.10	63.57	408.41	349.65	753.74	184.39	332.92	97.12	168.09	351.31
22304	5.45	-3.95	-10.50	130.09	55.93	375.44	54.98	408.81	348.21	706.46	177.88	334.32	84.60	168.19	349.69
22305	4.24	-3.95	-10.50	115.22	54.28	354.52	45.40	408.78	347.26	664.24	170.43	336.46	71.73	173.03	348.51
22306	3.03	-3.95	-10.50	102.34	52.79	338.01	35.08	408.48	346.83	626.67	162.33	338.89	58.96	181.22	347.84
22307	1.82	-3.95	-10.50	92.73	51.51	326.51	24.33	408.01	346.94	593.33	153.73	341.40	46.79	191.67	347.73
22308	0.61	-3.95	-10.50	87.78	50.52	320.52	13.74	407.43	347.59	563.80	144.74	343.87	36.03	203.48	348.18
22309	18.53	-5.08	-10.50	341.56	71.30	663.30	41.12	269.62	334.08	1906.88	121.71	506.28	67.89	637.44	348.14
22310	17.33	-5.08	-10.50	290.99	63.78	664.74	54.93	318.42	342.08	1627.32	58.65	506.67	113.04	593.20	346.91
22311	16.14	-5.08	-10.50	260.85	61.33	647.52	64.78	350.30	348.55	1417.93	99.39	476.91	141.83	520.95	349.58
22312	14.94	-5.08	-10.50	241.91	61.10	621.76	71.89	369.94	353.39	1259.89	136.48	440.68	156.87	440.15	353.35
22313	13.75	-5.07	-10.50	227.62	61.54	592.47	76.98	382.18	356.30	1138.05	160.50	408.87	162.32	364.28	356.49
22314	12.55	-5.07	-10.50	214.66	61.79	561.67	80.09	390.39	357.12	1040.59	175.00	384.64	161.40	300.51	358.08
22315	11.36	-5.07	-10.50	201.68	61.46	530.18	80.93	396.28	356.15	959.36	182.72	367.72	156.04	251.13	357.92
22316	10.16	-5.07	-10.50												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
22345	13.23	-7.26	-10.50	202.44	55.16	601.53	76.19	373.07	347.75	981.44	146.28	424.29	222.02	339.41	347.90
22346	12.08	-7.26	-10.50	194.15	55.46	577.11	77.96	382.13	347.82	901.31	154.41	410.69	208.91	286.49	349.25
22347	10.93	-7.26	-10.50	185.50	55.11	549.77	77.79	389.06	345.74	834.98	159.10	399.49	194.55	246.44	348.62
22348	9.78	-7.26	-10.50	175.84	54.31	520.78	75.47	393.83	342.54	778.14	161.01	391.13	178.87	217.58	346.46
22349	8.63	-7.26	-10.50	164.76	53.31	491.69	71.21	396.55	339.09	728.63	160.82	385.67	162.02	197.93	343.51
22350	7.48	-7.26	-10.50	152.18	52.30	463.88	65.47	397.65	335.97	685.21	159.15	382.74	144.51	185.77	340.42
22351	6.33	-7.26	-10.50	138.42	51.37	438.38	58.65	397.65	333.41	647.02	156.39	381.69	126.90	179.75	337.55
22352	5.18	-7.25	-10.50	124.17	50.54	415.95	51.09	397.04	331.46	613.34	152.77	381.91	109.65	178.67	335.13
22353	4.03	-7.25	-10.50	110.35	49.78	397.16	43.08	396.16	330.12	583.57	148.44	382.92	93.09	181.48	333.22
22354	2.88	-7.25	-10.50	98.17	49.09	382.50	34.94	395.24	329.35	557.22	143.47	384.41	77.49	187.23	331.89
22355	1.73	-7.25	-10.50	89.08	48.44	372.38	27.22	394.41	329.14	533.87	137.91	386.20	63.14	195.11	331.14
22356	0.58	-7.25	-10.50	84.56	47.86	367.13	21.07	393.74	329.48	513.14	131.81	388.24	50.50	204.42	331.00
22357	23.24	-3.96	-9.50	937.02	208.10	50.16	208.61	183.03	124.95	2922.72	807.27	1509.16	592.76	333.91	559.84
22358	22.38	-3.96	-9.50	770.73	164.10	252.65	130.87	137.43	201.34	2804.97	726.92	1050.15	337.53	273.49	500.91
22359	21.53	-3.96	-9.50	630.21	129.99	410.58	80.11	100.58	245.67	2554.72	610.38	501.05	155.37	97.58	402.35
22360	20.67	-3.96	-9.50	522.14	105.42	508.79	45.53	110.23	271.95	2293.76	480.90	330.26	63.86	195.55	349.09
22361	19.82	-3.96	-9.50	439.76	85.55	571.17	22.31	152.98	289.51	2065.52	349.41	394.13	25.18	317.85	326.99
22362	23.02	-5.07	-9.50	928.81	185.25	65.70	183.05	171.11	126.08	2597.02	842.87	1152.30	396.35	733.16	394.11
22363	22.15	-5.07	-9.50	747.74	159.89	264.22	117.29	139.48	209.06	2559.99	872.75	913.19	239.46	455.12	484.34
22364	21.29	-5.08	-9.50	605.16	131.99	417.87	69.23	107.53	249.45	2421.40	698.93	470.61	97.09	125.78	413.63
22365	20.42	-5.08	-9.50	500.70	105.21	510.57	37.00	118.09	271.59	2228.59	497.44	335.74	37.91	191.79	359.94
22366	19.56	-5.08	-9.50	421.14	81.76	569.38	22.40	160.22	286.99	2023.71	321.98	393.88	22.61	326.07	333.88
22367	22.75	-6.17	-9.50	913.14	180.67	52.77	165.76	163.63	137.19	2685.29	880.76	1117.20	264.31	701.89	256.70
22368	21.87	-6.18	-9.50	724.81	162.68	284.03	95.13	136.79	216.23	2606.59	916.59	901.32	94.17	394.65	383.74
22369	20.99	-6.18	-9.50	582.82	132.23	425.54	50.04	108.75	248.72	2461.72	673.01	474.14	80.29	100.38	379.65
22370	20.12	-6.18	-9.50	478.45	97.68	511.06	30.70	125.14	267.55	2237.17	417.08	342.27	39.46	245.39	353.87
22371	19.24	-6.18	-9.50	397.67	71.69	565.83	31.65	168.67	282.11	1991.00	235.25	390.30	45.95	362.52	334.98
22372	22.42	-7.26	-9.50	889.54	206.13	75.76	151.33	170.12	160.41	3190.99	979.78	1400.37	148.43	243.63	160.31
22373	21.53	-7.26	-9.50	708.57	174.89	305.89	71.74	128.33	215.14	2955.45	826.49	979.02	135.86	134.30	350.11
22374	20.64	-7.26	-9.50	558.08	118.32	430.66	46.55	106.81	242.21	2599.16	478.29	483.08	56.11	207.06	380.18
22375	19.75	-7.26	-9.50	445.31	78.54	508.75	47.63	134.03	261.20	2220.16	246.61	346.75	91.82	343.76	360.57
22376	18.86	-7.26	-9.50	360.82	57.47	559.53	50.99	178.82	276.21	1891.13	121.16	384.34	155.58	412.56	340.91
22377	23.24	-3.96	-10.50	987.06	213.00	33.02	269.84	79.43	278.08	5264.03	1292.45	2190.90	333.76	572.01	632.57
22378	22.38	-3.96	-10.50	768.62	162.39	319.63	144.52	97.29	303.03	3965.00	936.57	774.99	154.86	430.08	523.96
22379	21.53	-3.96	-10.50	615.24	129.50	483.56	78.86	109.23	313.00	3146.19	676.80	343.61	78.96	533.15	418.97
22380	20.67	-3.96	-10.50	505.98	106.25	584.54	37.59	152.27	322.84	2625.99	475.18	380.34	38.67	597.23	371.98
22381	19.82	-3.96	-10.50	425.84	89.57	641.69	18.94	207.19	330.78	2268.09	310.80	471.35	16.93	634.51	353.59
22382	23.02	-5.07	-10.50	977.53	193.81	43.46	254.56	95.69	277.82	5162.98	1472.91	1901.62	272.40	391.74	601.56
22383	22.15	-5.07	-10.50	753.99	156.07	328.95	128.72	108.69	300.11	3855.53	1053.67	646.56	133.24	340.09	522.10
22384	21.29	-5.08	-10.50	597.95	127.73	489.06	65.53	118.27	308.86	3069.32	725.67	336.97	84.11	501.38	422.61
22385	20.42	-5.08	-10.50	488.55	103.28	584.46	31.96	160.15	317.83	2576.87	465.61	386.48	45.98	594.30	375.86
22386	19.56	-5.08	-10.50	408.87	84.60	637.95	28.15	213.39	325.88	2225.34	271.22	464.32	25.92	637.16	356.31
22387	22.75	-6.17	-10.50	956.33	186.57	64.02	229.84	97.26	275.31	5219.66	1510.02	1884.06	252.70	459.55	473.95
22388	21.87	-6.18	-10.50	730.24	159.85	347.03	104.62	113.44	290.32	3884.38	1052.64	651.85	207.88	414.97	457.29
22389	20.99	-6.18	-10.50	574.59	125.60	494.54	50.45	127.62	297.94	3078.60	655.90	351.44	127.31	566.28	395.65
22390	20.12	-6.18	-10.50	464.36	94.65	582.38	36.87	170.31	307.89	2549.23	364.28	382.50	40.69	637.40	370.22
22391	19.24	-6.18	-10.50	384.07	74.89	631.87	42.95	221.60	317.49	2163.30	181.33	448.20	73.25	656.97	357.02
22392	22.42	-7.26	-10.50	935.57	212.65	111.77	197.17	90.74	260.16	5477.29	1401.21	2066.68	238.33	783.94	424.55
22393	21.53	-7.26	-10.50	699.17	170.12	368.54	82.31	119.89	270.45	4006.75	866.97	746.23	170.39	644.42	439.08
22394	20.64	-7.26	-10.50	536.82	111.78	496.52	58.69	141.65	282.09	3053.55	427.84	376.58	59.47	697.62	401.36
22395	19.75	-7.26	-10.50	423.91	78.39	576.39	59.17	183.17	295.82	2434.99	197.43	373.27	142.53	696.60	382.95
22396	18.86	-7.26	-10.50	344.63	63.19	622.26	61.85	231.05	307.71	2010.15	83.88	426.88	204.34	671.28	366.53
22397	-0.58	-7.25	-9.50	71.65	38.11	353.73	15.46	391.20	326.34	418.22	110.69	380.85	33.17	188.35	327.71
22398	-0.59	-6.15	-9.50	73.29	39.13	336.30	12.17	397.36	332.12	433.31	114.54	364.31	30.78	189.22	333.22
22399	-0.60	-5.05	-9.50	74.49	39.85	320.38	9.11	401.90	337.78	446.13	117.80	349.34	27.36	189.12	338.59
22400	-0.61	-3.95	-9.50	75.31	40.38	306.59	6.40	405.09	342.57	456.59	120.47	336.47	22.90	188.46	343.09
22401	-1.73	-7.25	-9.50	76.46	37.84	358.73	18.27	390.50	327.83	403.74	105.05	383.66	28.07	199.32	328.82
22402	-1.76	-6.15	-9.50	78.04	38.81	341.62	15.83	396.54	333.78	416.82	107.96	367.17	26.67	201.04	334.56
22403	-1.79	-5.05	-9.50	79.19	39.53	325.96	13.83	400.96	339.57	427.86	110.43	352.18	24.45	201.70	340.14
22404	-1.82	-3.95	-9.50	79.98	40.07	312.39	12.36	404.07	344.45	436.81	112.46	339.28	21.45	201.68	344.82
22405	-2.88	-7.25	-9.50	83.88	37.60	368.78	24.33	389.66	329.71	390.19	99.01	386.59	27.57	209.99	330.39
22406	-2.94	-6.16	-9.50	85.46	38.58	352.25	23.18	395.50	335.86	401.52	101.04	370.06	27.57	212.45	336.39
22407	-2.99	-5.06	-9.50	86.60	39.36	337.08	22.41	399.76	341.80	411.02	102.76	354.97	26.93	213.76	342.18
22408	-3.03	-3.95	-9.50	87.40	40.00	323.93	21.94	402.74	346.75	418.70	104.21	341.96	25.74	214.30	347.00
22409	-4.03	-7.25	-9.50	92.68	37.43	383.48	31.71	388.59	331.94	377.17	92.63	389.64	31.30	219.98	332.38
22410	-4.11	-6.16	-9.50	94.31	38.47	367.73	31.62	394.17	338.34	387.01	93.82	373.01	32.54	223.05	338.67
22411	-4.18	-5.06	-9.50	95.50	39.39	353.21	31.70	398.23	344.42	395.20	94.87	357.73	33.16	224.90	344.66
22412	-4.24	-3.95	-9.50	96.36	40.17	340.62	31.82	401.06	349.43	401.80	95.80	344.52	33.23	225.91	349.59
22413	-5.18	-7.25	-9.50	101.74	37.35	402.31	39.47	387.17	334.49	364.29	85.95	392.79	37.47	2	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
22443	-13.75	-5.07	-9.50	118.34	39.72	566.38	75.95	354.64	359.89	255.90	39.89	363.83	74.83	230.92	360.06
22444	-13.94	-3.96	-9.50	120.04	41.07	563.28	77.41	357.93	363.51	258.93	39.58	349.68	76.75	234.44	363.62
22445	-14.38	-7.26	-9.50	102.67	35.59	587.29	71.24	330.24	341.80	221.89	37.09	388.18	69.42	203.86	342.27
22446	-14.69	-6.18	-9.50	103.82	36.84	586.76	72.69	335.23	349.63	224.81	36.70	372.48	71.35	208.66	350.01
22447	-14.94	-5.08	-9.50	104.73	38.20	585.99	74.28	339.03	355.42	227.27	36.62	357.33	73.37	212.31	355.69
22448	-15.15	-3.96	-9.50	105.45	39.43	585.43	75.88	341.86	359.13	229.29	36.62	344.22	75.33	215.02	359.30
22449	-15.53	-7.26	-9.50	86.76	35.48	591.73	68.21	310.00	334.56	190.15	35.42	374.42	67.30	181.30	335.22
22450	-15.86	-6.18	-9.50	86.01	36.12	594.44	69.31	313.50	342.34	190.97	35.31	360.29	68.60	183.95	342.87
22451	-16.14	-5.08	-9.50	85.24	36.91	596.52	70.74	315.89	348.29	191.66	35.44	346.69	70.24	185.56	348.67
22452	-16.36	-3.96	-9.50	84.57	37.80	598.24	72.29	317.54	352.30	192.24	35.77	334.92	71.97	186.56	352.55
22453	-16.68	-7.26	-9.50	67.03	36.93	583.88	63.48	281.14	324.55	152.01	36.94	354.79	63.94	152.57	325.30
22454	-17.04	-6.18	-9.50	64.00	36.86	588.58	64.06	281.68	332.28	150.11	36.99	342.24	64.35	151.59	332.89
22455	-17.33	-5.08	-9.50	61.20	36.77	592.35	65.05	281.47	338.48	148.49	37.07	330.25	65.22	149.93	338.93
22456	-17.57	-3.96	-9.50	58.77	36.90	595.41	66.19	280.98	342.89	147.18	37.38	319.93	66.28	148.17	343.17
22457	-17.83	-7.26	-9.50	47.34	40.67	558.05	56.94	240.99	311.93	109.14	41.84	328.57	59.22	119.72	312.51
22458	-18.21	-6.18	-9.50	42.35	39.92	562.21	56.69	237.08	319.52	104.27	41.75	317.36	58.37	114.13	320.00
22459	-18.53	-5.08	-9.50	37.65	38.77	565.48	56.81	232.99	325.86	100.08	41.24	306.88	57.98	108.24	326.22
22460	-18.78	-3.96	-9.50	33.35	37.78	568.12	57.11	229.28	330.52	96.63	40.82	298.00	57.83	102.76	330.76
22461	-0.58	-7.25	-10.50	85.48	47.35	366.93	18.76	393.25	330.37	494.67	125.19	390.52	40.44	214.60	331.47
22462	-0.59	-6.15	-10.50	86.85	48.59	350.18	14.29	399.39	337.93	511.55	129.29	374.52	37.87	216.06	338.81
22463	-0.60	-5.05	-10.50	87.76	49.28	334.15	10.41	403.75	344.45	525.91	132.66	359.33	33.79	216.31	345.10
22464	-0.61	-3.95	-10.50	88.29	49.85	320.31	7.11	406.78	348.79	537.62	135.41	346.30	28.34	215.91	349.21
22465	-1.73	-7.25	-10.50	91.49	46.96	371.80	21.86	392.92	331.80	478.08	118.08	393.05	34.39	225.14	332.56
22466	-1.76	-6.15	-10.50	92.74	48.19	355.32	18.41	398.91	339.51	492.43	121.17	377.03	32.90	227.34	340.10
22467	-1.79	-5.05	-10.50	93.52	48.93	339.51	15.78	403.13	346.12	504.54	123.70	361.79	30.12	228.25	346.56
22468	-1.82	-3.95	-10.50	93.96	49.56	325.86	13.92	406.07	350.51	514.37	125.80	348.70	26.27	228.41	350.79
22469	-2.88	-7.25	-10.50	101.31	46.72	381.55	28.74	392.76	333.79	463.06	110.54	395.84	33.70	235.64	334.27
22470	-2.94	-6.16	-10.50	102.45	48.03	365.55	26.86	398.49	341.65	475.20	112.68	379.72	33.60	238.44	342.03
22471	-2.99	-5.06	-10.50	103.15	48.93	350.16	25.64	402.51	348.35	485.37	114.45	364.32	32.48	239.88	348.62
22472	-3.03	-3.95	-10.50	103.54	49.69	336.88	24.88	405.29	352.75	493.60	115.97	351.09	30.57	240.51	352.92
22473	-4.03	-7.25	-10.50	113.35	46.69	395.86	37.27	392.72	336.32	449.21	102.62	398.89	37.93	245.75	336.59
22474	-4.11	-6.16	-10.50	114.43	48.16	380.49	36.63	398.11	344.37	459.45	103.88	382.59	39.05	248.99	344.57
22475	-4.18	-5.06	-10.50	115.08	49.31	365.66	36.35	401.84	351.12	467.96	104.97	366.95	39.24	250.82	351.27
22476	-4.24	-3.95	-10.50	115.48	50.28	352.88	36.20	404.42	355.48	474.84	105.99	353.48	38.73	251.82	355.57
22477	-5.18	-7.25	-10.50	126.18	46.92	414.28	46.33	392.73	339.39	436.06	94.42	402.22	45.10	255.13	339.50
22478	-5.29	-6.16	-10.50	127.25	48.65	399.64	46.65	397.68	347.64	444.68	94.86	385.65	47.04	258.62	347.72
22479	-5.38	-5.06	-10.50	127.94	50.12	385.44	47.02	401.07	354.41	451.83	95.37	369.66	48.04	260.72	354.47
22480	-5.45	-3.95	-10.50	128.44	51.32	373.25	47.26	403.41	358.65	457.63	95.99	355.88	48.32	261.99	358.69
22481	-6.33	-7.26	-10.50	138.62	47.47	436.32	55.37	392.62	342.97	423.09	86.03	405.82	53.43	263.38	342.97
22482	-6.46	-6.16	-10.50	139.77	49.53	422.43	56.43	397.06	351.43	430.39	85.77	388.88	55.90	266.96	351.43
22483	-6.58	-5.06	-10.50	140.62	51.37	408.88	57.26	400.07	358.17	436.48	85.83	372.43	57.37	269.22	358.17
22484	-6.67	-3.95	-10.50	141.35	52.79	397.29	57.73	402.19	362.20	441.50	86.14	358.26	58.05	270.71	362.20
22485	-7.48	-7.26	-10.50	149.69	48.36	461.38	64.00	392.12	347.05	409.72	77.63	409.63	61.85	269.99	346.98
22486	-7.64	-6.16	-10.50	151.08	50.83	448.21	65.59	396.03	355.71	416.04	76.84	392.20	64.62	273.55	355.65
22487	-7.77	-5.06	-10.50	152.27	53.03	435.29	66.69	398.70	362.31	421.43	76.64	375.19	66.33	275.92	362.27
22488	-7.88	-3.96	-10.50	153.38	54.59	424.33	67.27	400.67	365.99	425.96	76.73	360.54	67.19	277.62	365.98
22489	-8.63	-7.26	-10.50	158.57	49.57	488.70	71.83	390.81	351.54	395.39	69.49	413.49	69.61	274.35	351.44
22490	-8.81	-6.17	-10.50	160.45	52.44	476.19	73.73	394.30	360.32	401.16	68.44	395.45	72.51	277.88	360.25
22491	-8.97	-5.07	-10.50	162.21	54.94	463.92	74.93	396.79	366.63	406.22	68.16	377.77	74.29	280.40	366.59
22492	-9.09	-3.96	-10.50	163.87	56.55	453.64	75.53	398.76	369.81	410.57	68.12	362.61	75.22	282.39	369.80
22493	-9.78	-7.26	-10.50	164.73	50.91	517.19	78.36	388.22	356.19	379.65	61.98	417.01	76.11	275.81	356.09
22494	-9.99	-6.17	-10.50	167.37	54.15	505.38	80.34	391.58	364.96	385.31	61.01	398.27	78.96	279.45	364.90
22495	-10.16	-5.07	-10.50	169.90	56.83	493.89	81.55	394.17	370.80	390.39	60.85	379.92	80.72	282.30	370.77
22496	-10.30	-3.96	-10.50	172.22	58.38	484.48	82.17	396.35	373.32	394.79	60.68	364.30	81.71	284.70	373.31
22497	-10.93	-7.26	-10.50	167.89	52.06	545.33	83.05	383.99	360.44	362.19	55.47	419.50	80.78	273.85	360.38
22498	-11.16	-6.17	-10.50	171.46	55.52	534.54	84.93	387.68	369.04	368.08	54.90	400.17	83.46	277.92	369.01
22499	-11.36	-5.07	-10.50	174.79	58.28	524.22	86.16	390.71	374.25	373.37	54.96	381.29	85.23	281.30	374.25
22500	-11.51	-3.96	-10.50	177.74	59.75	516.04	86.91	393.30	376.05	377.91	54.64	365.39	86.38	284.19	376.06
22501	-12.08	-7.26	-10.50	167.84	52.53	571.32	85.48	378.07	363.40	342.66	50.05	420.03	83.26	268.38	363.43
22502	-12.34	-6.17	-10.50	172.19	56.06	562.33	87.21	382.50	371.69	348.76	50.08	400.47	85.73	273.12	371.74
22503	-12.55	-5.07	-10.50	176.11	58.84	553.88	88.57	386.18	376.29	354.18	50.42	381.47	87.62	277.10	376.34
22504	-12.73	-3.96	-10.50	179.45	60.32	547.43	89.66	389.26	377.47	358.76	50.02	365.62	89.12	280.44	377.51
22505	-13.23	-7.26	-10.50	163.92	52.00	593.55	85.58	370.49	364.03	320.04	45.59	417.60	83.61	259.67	364.21
22506	-13.51	-6.17	-10.50	168.51	55.41	587.46	87.22	375.70	372.04	325.94	46.22	398.51	85.88	264.94	372.20
22507	-13.75	-5.07	-10.50	172.54	58.24	581.75	88.91	379.90	376.27	331.12	46.91	380.03	88.05	269.22	376.39
22508	-13.94	-3.96	-10.50	175.93	59.92	577.61	90.53	383.31	377.18	335.44	46.73	364.71	90.03	272.71	377.26
22509	-14.38	-7.26	-10.50	154.60	50.51	610.91	83.69	360.53	361.60	292.29	42.06	411.47	82.24	247.66	361.97
22510	-14.69	-6.18	-10.50	158.66	53.68	608.76	85.37	365.91	369.55	297.26	43.23	393.70	84.37	252.68	369.85
22511	-14.94	-5.08	-10.50	162.22	56.56	606.48	87.49	370.07	373.90	301.62	44.45	376.47	86.84	256.54	374.12
22512	-15.15	-3.96	-10.50	165.21	58.57	605.03	89.68	373.40	375.05	305.26	44.96				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
22541	-19.75	-7.26	-9.50	33.83	52.23	457.42	42.41	154.51	285.62	43.29	54.54	284.82	47.64	85.00	284.86
22542	-20.64	-7.26	-9.50	32.12	59.08	381.38	35.16	117.45	271.18	25.89	60.39	293.08	40.40	89.10	269.54
22543	-21.53	-7.26	-9.50	25.77	66.43	299.06	29.23	93.11	255.83	17.74	65.10	350.59	32.58	93.15	253.87
22544	-22.42	-7.26	-9.50	14.10	74.27	242.87	25.77	79.63	240.92	10.32	67.88	463.08	25.17	83.05	240.52
22545	-19.82	-3.96	-10.50	38.55	47.70	590.70	61.50	215.24	349.02	90.22	54.17	304.33	62.86	114.94	348.98
22546	-20.67	-3.96	-10.50	18.39	46.23	531.50	49.73	155.99	338.60	45.49	55.46	287.02	51.71	76.16	338.28
22547	-21.53	-3.96	-10.50	20.75	47.05	442.12	36.27	97.89	324.54	15.79	55.63	302.43	58.69	57.17	323.89
22548	-22.38	-3.96	-10.50	19.43	51.09	337.10	23.49	61.69	306.91	11.50	55.01	390.44	25.58	61.24	306.07
22549	-23.24	-3.96	-10.50	10.00	58.90	270.01	13.00	51.34	286.00	7.30	53.76	555.81	13.18	56.29	286.44
22550	-19.56	-5.08	-10.50	42.13	49.17	588.42	61.61	220.90	344.49	94.35	54.74	313.03	63.75	121.88	344.40
22551	-20.42	-5.08	-10.50	22.75	49.60	530.96	50.98	164.34	333.90	50.40	58.04	293.20	54.06	86.44	333.39
22552	-21.29	-5.08	-10.50	22.53	51.95	444.04	38.66	109.81	320.17	20.74	60.34	302.91	42.35	69.63	319.13
22553	-22.15	-5.07	-10.50	20.70	56.54	340.83	26.77	76.25	303.32	13.28	61.43	382.93	29.87	72.81	301.95
22554	-23.02	-5.07	-10.50	11.11	63.98	271.29	17.12	64.79	283.32	7.97	61.47	541.81	17.68	68.56	282.43
22555	-19.24	-6.18	-10.50	46.08	51.04	585.78	61.70	227.73	336.53	99.24	55.51	323.71	64.69	129.81	336.38
22556	-20.12	-6.18	-10.50	27.28	53.62	530.47	52.30	173.85	325.55	55.96	61.09	301.08	56.52	97.13	324.80
22557	-20.99	-6.18	-10.50	24.99	57.67	446.15	41.30	122.21	311.96	26.14	65.92	304.39	46.31	81.59	310.46
22558	-21.87	-6.18	-10.50	22.26	62.84	344.92	30.63	90.21	296.06	15.89	69.08	375.16	34.95	83.98	294.06
22559	-22.75	-6.17	-10.50	12.69	69.79	273.03	21.76	77.92	277.80	9.42	70.45	525.92	23.20	80.66	276.46
22560	-18.86	-7.26	-10.50	50.56	51.69	581.93	62.12	235.28	326.12	105.08	55.02	334.75	66.07	138.18	325.90
22561	-19.75	-7.26	-10.50	32.11	55.88	529.47	53.78	184.33	314.59	62.43	62.34	309.37	59.21	107.96	313.57
22562	-20.64	-7.26	-10.50	28.03	61.37	448.48	43.99	135.05	300.81	32.15	69.42	305.88	50.25	92.99	298.83
22563	-21.53	-7.26	-10.50	24.30	67.09	349.67	34.62	103.58	285.41	19.40	74.83	366.30	40.00	94.57	282.86
22564	-22.42	-7.26	-10.50	14.77	74.21	275.51	26.60	89.55	269.09	11.80	78.05	508.09	29.16	91.47	267.42
22565	0.56	-8.10	-9.50	68.86	37.36	368.51	19.31	385.84	321.73	419.12	111.71	392.10	43.25	176.85	323.76
22566	0.56	-8.10	-9.50	67.53	36.65	379.64	20.58	380.82	319.99	407.74	108.61	402.83	44.09	175.76	322.12
22567	1.69	-8.10	-9.50	71.54	37.53	373.75	23.61	386.28	321.09	434.46	115.52	389.65	53.86	167.45	323.68
22568	1.67	-8.10	-9.50	70.10	36.73	384.65	24.26	381.25	319.39	421.55	111.79	400.47	54.74	166.99	322.07
22569	2.82	-8.10	-9.50	77.61	37.65	383.77	29.26	386.61	320.79	451.69	118.74	387.37	65.71	159.22	323.99
22570	2.78	-8.10	-9.50	76.01	36.77	394.22	29.27	381.60	319.09	436.99	114.38	398.27	66.55	159.37	322.37
22571	3.95	-8.10	-9.50	86.02	37.71	398.22	35.30	386.74	320.84	471.29	121.30	385.36	78.44	152.74	324.66
22572	3.89	-8.10	-9.50	84.20	36.76	408.03	34.74	381.80	319.08	454.51	116.28	396.32	79.24	153.44	322.98
22573	5.08	-8.10	-9.50	95.63	37.71	416.65	41.21	386.51	321.21	493.83	123.11	383.83	91.83	148.67	325.61
22574	5.00	-8.10	-9.50	93.52	36.68	425.67	40.17	381.68	319.34	474.64	117.40	394.80	92.63	149.83	323.82
22575	6.21	-8.10	-9.50	105.48	37.65	438.49	46.70	385.66	321.88	520.03	124.05	383.17	105.72	147.78	326.74
22576	6.11	-8.10	-9.50	103.02	36.56	446.62	45.25	380.98	319.86	498.03	117.64	394.01	106.58	149.21	324.77
22577	7.34	-8.10	-9.50	114.88	37.52	463.06	51.52	383.80	322.80	550.71	123.99	383.93	119.93	150.88	327.87
22578	7.22	-8.10	-9.50	111.97	36.39	470.22	49.76	379.32	320.56	525.44	116.89	394.43	120.96	152.31	325.68
22579	8.47	-8.10	-9.50	123.41	37.32	489.43	55.48	380.44	323.84	586.87	122.73	386.84	134.26	158.87	328.74
22580	8.34	-8.10	-9.50	119.89	36.20	495.57	53.51	376.16	321.33	557.76	114.99	396.66	135.64	159.87	326.28
22581	9.60	-8.10	-9.50	131.00	37.07	516.38	58.35	375.06	324.77	629.68	120.04	392.54	148.59	172.75	328.97
22582	9.45	-8.10	-9.50	126.66	36.03	521.45	56.31	370.94	321.98	595.99	111.72	401.21	150.55	172.73	326.23
22583	10.73	-8.10	-9.50	138.01	36.74	542.34	60.00	367.21	325.16	680.71	115.61	401.32	162.82	193.73	328.08
22584	10.56	-8.10	-9.50	132.56	35.85	546.22	58.06	363.18	322.12	641.32	107.07	408.25	165.83	191.75	325.07
22585	11.85	-8.10	-9.50	145.15	36.43	565.54	60.43	356.68	324.44	742.15	108.85	412.78	177.25	223.17	325.71
22586	11.67	-8.10	-9.50	138.24	35.81	567.96	58.79	352.60	321.19	695.70	100.23	417.21	181.65	218.52	322.45
22587	12.98	-8.10	-9.50	153.51	36.16	584.39	59.90	343.30	321.99	817.79	99.86	425.83	192.77	261.65	321.93
22588	12.78	-8.10	-9.50	144.73	35.96	584.97	58.78	339.22	318.72	761.89	91.39	426.89	199.37	253.95	318.64
22589	14.11	-8.10	-9.50	164.83	36.16	597.60	58.89	326.25	317.24	913.81	88.07	438.48	209.43	308.26	317.56
22590	13.89	-8.10	-9.50	153.33	36.26	595.98	58.49	322.57	314.14	844.39	81.19	435.48	220.07	296.98	314.51
22591	15.24	-8.10	-9.50	182.04	36.94	603.86	58.29	303.78	309.81	1038.37	72.40	447.14	227.93	359.01	314.55
22592	15.00	-8.10	-9.50	166.68	37.42	599.84	58.78	300.80	306.94	951.80	67.14	439.71	243.69	346.60	312.06
22593	16.37	-8.10	-9.50	209.95	38.89	600.84	59.32	273.39	299.66	1204.46	54.44	445.10	249.29	405.69	316.55
22594	16.11	-8.10	-9.50	188.51	39.64	594.82	61.23	272.53	297.16	1091.74	51.92	434.61	274.38	393.93	315.28
22595	17.50	-8.10	-9.50	255.23	42.85	584.00	63.03	232.60	286.71	1433.07	42.80	421.57	271.20	438.00	328.70
22596	17.23	-8.10	-9.50	224.39	43.46	577.21	67.67	235.06	284.67	1281.09	43.32	412.04	314.95	431.94	330.22
22597	0.56	-8.10	-10.50	83.05	46.46	380.18	24.32	387.33	324.69	496.23	127.24	400.81	51.72	202.67	326.37
22598	0.56	-8.10	-10.50	81.82	45.34	389.99	25.91	381.67	323.14	483.32	123.74	410.30	52.91	200.47	324.90
22599	1.69	-8.10	-10.50	87.43	46.92	385.21	29.19	388.04	324.41	514.26	132.38	398.85	64.63	194.13	326.62
22600	1.67	-8.10	-10.50	86.10	45.70	394.84	30.13	382.39	322.89	499.42	128.18	408.39	65.87	192.51	325.17
22601	2.82	-8.10	-10.50	96.36	47.40	394.89	35.73	388.98	324.64	534.54	136.93	397.16	79.21	187.05	327.41
22602	2.78	-8.10	-10.50	94.87	46.09	404.14	35.98	383.40	323.10	517.48	132.00	406.75	80.45	186.02	325.95
22603	3.95	-8.10	-10.50	108.34	47.91	408.94	42.89	390.11	325.37	557.40	140.83	395.80	95.09	182.07	328.74
22604	3.89	-8.10	-10.50	106.66	46.49	417.66	42.52	384.66	323.75	537.80	135.13	405.42	96.31	181.58	327.20
22605	5.08	-8.10	-10.50	121.89	48.46	427.00	50.09	391.30	326.61	583.23	144.05	394.92	112.03	179.92	330.58
22606	5.00	-8.10	-10.50	119.97	46.93	435.06	49.18	386.05	324.87	560.74	137.53	404.52	113.25	179.88	328.90
22607	6.21	-8.10	-10.50	135.77	49.06	448.65	56.99	392.32	328.40	612.48	146.50	394.77	129.82	181.42	332.87
22608	6.11	-8.10	-10.50	133.57	47.41	455.96	55.61	387.35	326.44	586.72	139.12	404.30	131.11	181.66	330.97
22609	7.34	-8.10	-10.50	148.99	49.75	473.37	63.31	392.81	330.74	645.76	148.11	395.80	148.21	187.48	335.53
22610	7.22	-8.10	-10.50	146.41	47.95	479.89	61.54	388.18	328.49	616.29	139.82	405.10	149.70	187.74	3



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{YZ}$ [kPa]	$\tau_{ZX}$ [kPa]	$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{YZ}$ [kPa]	$\tau_{ZX}$ [kPa]
22639	22.14	-8.10	-10.50	939.00	273.85	151.37	182.42	96.93	226.93	5743.98	1295.01	2185.86	283.87	1105.56	590.07
22640	21.23	-8.10	-10.50	652.97	158.58	381.96	106.62	134.75	252.79	3884.20	553.52	793.17	272.09	833.50	538.69
22641	20.33	-8.10	-10.50	483.41	89.61	494.32	91.70	154.95	273.06	2836.36	218.67	390.09	321.87	781.16	451.86
22642	19.42	-8.10	-10.50	373.49	65.55	568.93	83.31	193.15	288.69	2203.05	93.82	367.30	340.68	716.47	415.69
22643	18.52	-8.10	-10.50	301.14	56.69	612.35	77.02	237.72	301.52	1796.62	54.33	410.96	335.65	661.42	382.10
22644	21.91	-8.70	-10.50	847.84	314.01	175.24	264.37	133.67	204.75	4961.16	1256.15	2098.03	1230.73	1204.63	1021.82
22645	20.99	-8.70	-10.50	565.60	133.66	385.12	150.18	147.16	253.72	3328.22	413.83	746.62	661.02	879.17	603.51
22646	20.07	-8.70	-10.50	413.30	80.18	490.35	117.81	162.09	270.91	2434.41	165.47	390.19	543.47	774.31	508.01
22647	19.16	-8.70	-10.50	320.28	62.58	562.00	97.32	198.53	286.18	1910.62	79.70	364.37	465.80	692.59	440.86
22648	18.24	-8.70	-10.50	261.37	55.70	603.87	84.58	241.17	298.75	1578.11	53.39	401.56	409.19	633.07	392.13
22649	-0.56	-8.10	-9.50	70.11	37.17	368.24	17.88	385.33	322.72	405.22	107.36	394.69	34.52	186.93	324.26
22650	-1.69	-8.10	-9.50	74.94	36.97	372.96	20.22	384.75	324.06	392.38	102.52	397.44	28.78	197.18	325.19
22651	-2.82	-8.10	-9.50	82.33	36.78	382.49	25.35	384.05	325.74	380.25	97.24	400.34	27.29	207.22	326.53
22652	-3.95	-8.10	-9.50	91.08	36.62	396.48	31.87	383.18	327.71	368.47	91.59	403.38	30.03	216.70	328.24
22653	-5.08	-8.10	-9.50	100.05	36.50	414.46	38.90	382.02	329.95	356.66	85.61	406.56	35.47	225.24	330.28
22654	-6.21	-8.10	-9.50	108.31	36.43	435.85	45.93	380.35	332.37	344.42	79.35	409.78	42.03	232.41	332.57
22655	-7.34	-8.10	-9.50	115.06	36.40	459.96	52.64	377.87	334.90	331.34	72.88	412.93	48.72	237.70	335.02
22656	-8.47	-8.10	-9.50	119.69	36.38	485.87	58.73	374.15	337.38	317.05	66.29	415.71	54.94	240.46	337.46
22657	-9.60	-8.10	-9.50	121.79	36.32	512.31	63.89	368.75	339.56	301.35	59.70	417.63	60.25	240.05	339.63
22658	-10.73	-8.10	-9.50	121.24	36.12	537.61	67.82	361.35	340.98	284.13	53.26	417.95	64.33	235.92	341.09
22659	-11.85	-8.10	-9.50	117.95	35.72	559.82	70.27	351.83	341.09	265.26	47.20	415.74	66.98	227.80	341.27
22660	-12.98	-8.10	-9.50	111.62	35.19	576.99	71.06	340.14	339.27	244.11	41.82	410.08	68.17	215.70	339.59
22661	-14.11	-8.10	-9.50	101.55	34.77	587.40	70.15	325.56	334.97	219.30	37.69	400.18	67.95	199.38	335.49
22662	-15.24	-8.10	-9.50	87.26	35.05	589.23	67.57	306.37	327.91	189.34	35.67	385.29	66.53	178.39	328.64
22663	-16.37	-8.10	-9.50	69.44	36.83	579.71	63.35	279.92	318.14	153.57	36.82	364.61	64.01	152.57	318.99
22664	-17.50	-8.10	-9.50	51.37	40.76	554.25	57.45	243.57	305.87	113.35	41.41	337.58	60.25	123.50	306.51
22665	-0.56	-8.70	-9.50	68.83	36.53	379.36	19.46	380.36	320.91	395.24	104.86	405.34	35.24	185.27	322.54
22666	-1.67	-8.70	-9.50	73.65	36.39	383.85	21.53	379.84	322.13	383.55	100.59	408.01	29.14	194.99	323.34
22667	-2.78	-8.70	-9.50	80.99	36.25	392.94	26.09	379.24	323.65	372.43	95.86	410.84	26.98	204.54	324.52
22668	-3.89	-8.70	-9.50	89.65	36.12	406.31	32.01	378.50	325.43	361.55	90.75	413.82	29.01	213.60	326.02
22669	-5.00	-8.70	-9.50	98.54	36.01	423.55	38.50	377.50	327.42	350.54	85.28	416.91	33.90	221.82	327.81
22670	-6.11	-8.70	-9.50	106.71	35.92	444.10	45.08	376.03	329.54	339.01	79.52	420.04	40.07	228.76	329.79
22671	-7.22	-8.70	-9.50	113.37	35.83	467.30	51.40	373.77	331.72	326.53	73.49	423.08	46.49	233.90	331.88
22672	-8.34	-8.70	-9.50	117.89	35.74	492.25	57.20	370.27	333.80	312.73	67.25	425.72	52.55	236.59	333.91
22673	-9.45	-8.70	-9.50	119.86	35.59	517.71	62.21	365.02	335.56	297.38	60.90	427.47	57.82	236.12	335.66
22674	-10.56	-8.70	-9.50	119.16	35.34	541.93	66.12	357.64	336.59	280.41	54.51	427.54	61.99	231.93	336.72
22675	-11.67	-8.70	-9.50	115.83	34.95	562.85	68.72	347.97	336.36	261.78	48.35	424.97	64.91	223.66	336.58
22676	-12.78	-8.70	-9.50	109.83	34.52	578.45	69.85	336.11	334.40	241.20	42.76	418.80	66.54	211.55	334.76
22677	-13.89	-8.70	-9.50	100.58	34.29	587.04	69.29	321.68	330.16	217.34	38.33	408.26	66.79	195.71	330.70
22678	-15.00	-8.70	-9.50	87.38	34.77	587.06	67.13	302.91	323.20	188.51	35.95	392.70	65.98	175.42	323.97
22679	-16.11	-8.70	-9.50	71.07	36.67	576.35	63.38	278.16	313.68	154.67	36.70	371.47	64.19	151.66	314.56
22680	-17.23	-8.70	-9.50	54.30	40.61	551.13	57.99	244.58	301.74	116.60	40.92	344.12	61.18	123.30	302.40
22681	-0.56	-8.10	-10.50	84.07	46.05	379.97	22.68	386.89	325.47	480.12	121.54	403.05	41.26	212.15	326.71
22682	-1.69	-8.10	-10.50	90.17	45.71	384.61	25.16	386.70	326.77	465.61	115.31	405.57	34.54	222.08	327.64
22683	-2.82	-8.10	-10.50	100.04	45.48	393.94	30.85	386.74	328.59	452.39	108.62	408.39	32.94	232.08	329.15
22684	-3.95	-8.10	-10.50	112.11	45.40	407.68	38.26	386.99	330.90	440.11	101.52	411.51	36.35	241.82	331.23
22685	-5.08	-8.10	-10.50	124.94	45.52	425.44	46.39	387.36	333.70	428.33	94.10	414.96	42.92	250.98	333.85
22686	-6.21	-8.10	-10.50	137.35	45.87	446.76	54.65	387.71	336.95	416.52	86.42	418.72	50.83	259.16	336.98
22687	-7.34	-8.10	-10.50	148.30	46.47	471.12	62.66	387.71	340.65	404.08	78.63	422.76	58.96	265.86	340.59
22688	-8.47	-8.10	-10.50	156.91	47.32	497.79	70.06	386.87	344.72	390.36	70.88	426.92	66.58	270.38	344.62
22689	-9.60	-8.10	-10.50	162.54	48.31	525.66	76.39	384.58	348.97	374.84	63.46	430.82	73.10	271.93	348.86
22690	-10.73	-8.10	-10.50	164.95	49.17	553.03	81.14	380.26	352.91	357.25	56.64	433.67	77.98	269.81	352.83
22691	-11.85	-8.10	-10.50	164.21	49.54	577.74	83.85	373.77	355.68	337.52	50.63	434.32	80.88	263.85	355.70
22692	-12.98	-8.10	-10.50	160.02	49.13	597.77	84.36	365.47	356.32	315.05	45.50	431.53	81.78	254.64	356.50
22693	-14.11	-8.10	-10.50	151.15	47.96	611.99	82.84	355.17	354.03	288.08	41.42	424.45	80.97	242.62	354.42
22694	-15.24	-8.10	-10.50	135.64	46.59	619.87	79.74	340.96	348.53	254.09	39.19	412.62	79.01	227.01	349.11
22695	-16.37	-8.10	-10.50	112.52	45.99	619.73	75.44	318.98	340.20	211.48	40.26	395.38	76.28	205.71	340.81
22696	-17.50	-8.10	-10.50	82.86	47.30	606.66	69.74	284.44	329.53	160.54	45.49	371.24	72.55	176.36	329.87
22697	-0.56	-8.70	-10.50	82.91	45.03	389.77	24.59	381.28	323.85	468.97	118.73	412.49	42.28	209.46	325.15
22698	-1.67	-8.70	-10.50	89.03	44.78	394.21	26.80	381.17	325.03	455.91	113.16	414.97	35.13	218.91	325.96
22699	-2.78	-8.70	-10.50	98.88	44.62	403.17	31.90	381.34	326.69	443.97	107.10	417.76	32.78	228.50	327.31
22700	-3.89	-8.70	-10.50	110.90	44.58	416.39	38.66	381.76	328.80	432.82	100.64	420.86	35.40	237.93	329.18
22701	-5.00	-8.70	-10.50	123.69	44.70	433.52	46.19	382.38	331.33	422.04	93.84	424.28	41.36	246.88	331.53
22702	-6.11	-8.70	-10.50	136.06	44.98	454.15	53.92	383.03	334.26	411.12	86.78	428.01	48.83	254.99	334.32
22703	-7.22	-8.70	-10.50	146.95	45.44	477.77	61.46	383.40	337.54	399.42	79.53	432.01	56.64	261.73	337.52
22704	-8.34	-8.70	-10.50	155.44	46.06	503.72	68.49	382.97	341.12	386.28	72.22	436.15	64.05	266.42	341.05
22705	-9.45	-8.70	-10.50	160.80	46.76	530.91	74.62	380.99	344.84	371.08	65.02	440.05	70.52	268.14	344.75
22706	-10.56	-8.70	-10.50	162.74	47.36	557.59	79.37	376.77	348.25	353.50	58.11	442.90	75.53	266.09	348.19
22707	-11.67	-8.70	-10.50	161.43	47.53	581.35	82.31	369.97	350.58	333.60	51.70	443.43	78.77	259.88	350.61
22708	-12.78	-8.70	-10.50	157.01	47.14	599.91	83.27	361.11	351.00						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
22737	12.77	-10.36	-9.50	123.03	37.06	589.33	54.50	316.54	309.31	635.47	61.63	432.92	213.65	249.73	309.02
22738	13.67	-10.20	-9.50	127.83	38.18	591.75	55.78	304.46	305.61	693.55	55.30	431.22	234.48	281.41	306.79
22739	12.05	-11.51	-9.50	107.43	38.47	587.09	50.44	309.52	306.20	520.90	49.72	440.72	198.94	224.29	305.69
22740	12.82	-11.26	-9.50	110.34	38.95	588.42	51.85	301.23	304.03	563.77	47.45	435.15	215.52	246.09	304.20
22741	13.59	-10.99	-9.50	114.67	39.98	587.61	53.31	291.76	300.90	615.41	44.08	429.60	232.79	273.34	302.97
22742	0.56	-9.90	-9.50	64.41	35.37	406.04	21.80	368.87	317.80	382.86	101.75	428.28	46.32	171.88	319.95
22743	1.69	-9.89	-9.50	67.02	35.34	410.69	24.82	369.36	317.26	394.43	103.90	425.78	57.29	164.14	319.94
22744	2.81	-9.87	-9.50	73.03	35.28	419.52	29.13	369.91	316.98	407.54	105.38	423.20	69.35	157.66	320.23
22745	3.93	-9.85	-9.50	81.25	35.20	432.25	33.97	370.42	316.94	422.68	106.17	420.58	82.23	152.95	320.75
22746	5.05	-9.82	-9.50	90.46	35.10	448.48	38.83	370.71	317.11	440.43	106.19	418.06	95.80	150.58	321.42
22747	6.17	-9.78	-9.50	99.64	35.00	467.72	43.40	370.47	317.44	461.46	105.38	415.92	109.95	151.13	322.11
22748	7.28	-9.74	-9.50	108.02	34.91	489.30	47.49	369.25	317.88	486.60	103.67	414.57	124.59	155.20	322.64
22749	8.39	-9.69	-9.50	115.15	34.88	512.28	50.92	366.45	318.30	516.75	100.98	414.53	139.66	163.39	322.78
22750	9.50	-9.63	-9.50	120.95	34.94	535.35	53.59	361.42	318.52	552.87	97.24	416.25	155.12	176.34	322.22
22751	10.60	-9.56	-9.50	125.78	35.13	556.78	55.43	353.72	318.25	595.98	92.40	419.81	171.17	194.82	320.68
22752	0.58	-11.69	-9.50	59.41	33.62	453.72	20.63	349.70	314.46	343.39	91.52	474.36	50.44	164.93	316.29
22753	1.75	-11.67	-9.50	62.14	33.56	457.58	23.34	350.25	314.06	352.04	92.21	471.37	61.77	158.49	316.29
22754	2.91	-11.62	-9.50	68.34	33.55	464.84	27.34	351.02	313.93	362.22	92.20	467.60	73.98	153.46	316.58
22755	4.07	-11.55	-9.50	76.61	33.59	475.26	31.86	351.89	314.01	374.49	91.43	463.06	86.90	150.36	317.04
22756	5.22	-11.46	-9.50	85.60	33.71	488.48	36.39	352.64	314.25	389.54	89.90	457.87	100.44	149.67	317.58
22757	6.37	-11.35	-9.50	94.24	33.90	504.07	40.65	352.91	314.56	408.17	87.61	452.27	114.57	151.91	318.01
22758	7.51	-11.21	-9.50	101.76	34.17	521.38	44.43	352.15	314.82	431.37	84.58	446.68	129.32	157.55	318.15
22759	8.64	-11.06	-9.50	107.77	34.54	539.46	47.62	349.65	314.89	460.19	80.86	441.65	144.75	167.02	317.76
22760	9.75	-10.88	-9.50	112.36	35.01	556.96	50.18	344.73	314.58	495.67	76.54	437.73	160.98	180.88	316.61
22761	10.86	-10.68	-9.50	116.16	35.62	572.18	52.14	337.08	313.64	538.93	71.70	435.12	178.37	199.96	314.57
22762	0.60	-13.49	-9.50	54.52	32.37	508.65	15.85	330.49	305.82	300.98	80.86	527.59	54.80	157.67	300.00
22763	1.81	-13.45	-9.50	57.10	32.48	511.31	18.85	330.94	305.68	307.02	80.27	523.94	65.96	152.48	307.05
22764	3.02	-13.37	-9.50	62.96	32.79	516.22	23.14	331.63	305.91	314.53	78.92	518.56	77.71	148.73	307.47
22765	4.21	-13.26	-9.50	70.67	33.28	523.18	27.83	332.44	306.45	324.12	76.81	511.43	89.95	146.90	308.15
22766	5.40	-13.10	-9.50	78.88	33.92	531.92	32.49	333.13	307.20	336.52	73.97	502.65	102.70	147.49	308.94
22767	6.58	-12.91	-9.50	86.56	34.69	542.09	36.83	333.36	308.02	352.61	70.46	492.43	116.06	150.94	309.67
22768	7.74	-12.69	-9.50	92.99	35.51	553.18	40.69	332.55	308.76	373.46	66.39	481.18	130.22	157.68	310.11
22769	8.88	-12.43	-9.50	97.89	36.34	564.40	43.93	330.00	309.16	400.19	61.92	469.56	145.43	168.04	310.02
22770	10.01	-12.13	-9.50	101.47	37.12	574.64	46.55	325.08	308.94	433.99	57.29	458.36	162.01	182.57	309.16
22771	11.11	-11.80	-9.50	104.48	37.88	582.58	48.71	317.63	307.87	476.09	52.72	448.23	180.48	202.41	307.48
22772	0.63	-15.29	-9.50	51.69	32.47	559.94	9.88	312.90	288.79	257.33	70.14	577.10	57.14	150.94	289.24
22773	1.88	-15.23	-9.50	53.58	32.96	561.26	13.59	313.07	288.96	261.40	68.53	572.80	67.61	146.88	289.40
22774	3.12	-15.12	-9.50	58.20	33.80	563.57	18.26	313.31	289.65	266.84	66.20	565.80	78.39	144.14	290.07
22775	4.36	-14.96	-9.50	64.39	34.95	566.72	23.13	313.51	290.82	274.25	63.23	556.11	89.46	143.22	291.15
22776	5.58	-14.75	-9.50	71.00	36.30	570.49	27.90	313.50	292.37	284.34	59.70	543.77	100.95	144.61	292.55
22777	6.78	-14.48	-9.50	77.14	37.74	574.64	32.40	312.96	294.18	297.96	55.78	529.00	113.07	148.76	294.12
22778	7.97	-14.16	-9.50	82.20	39.10	578.82	36.45	311.44	296.08	316.14	51.66	512.18	126.17	156.08	295.70
22779	9.13	-13.80	-9.50	85.99	40.25	582.55	39.88	308.37	297.75	340.02	47.60	494.02	140.70	166.91	297.04
22780	10.27	-13.38	-9.50	88.76	41.10	585.17	42.65	303.25	298.77	370.87	43.96	475.52	157.19	181.77	297.84
22781	11.37	-12.92	-9.50	91.23	41.69	585.94	44.96	296.05	298.66	410.23	41.18	457.88	176.17	201.69	297.93
22782	0.65	-17.08	-9.50	55.16	34.83	592.68	5.74	296.77	259.07	215.02	59.94	607.86	54.84	143.66	259.08
22783	1.94	-17.01	-9.50	56.63	35.69	592.83	10.14	296.50	259.62	217.95	57.77	603.24	64.20	140.76	259.54
22784	3.22	-16.87	-9.50	57.75	37.05	592.91	14.84	295.96	260.97	222.08	55.16	595.26	73.70	139.01	260.74
22785	4.50	-16.66	-9.50	60.99	38.79	592.79	19.53	295.12	263.08	227.94	52.27	583.92	83.41	138.95	262.64
22786	5.75	-16.39	-9.50	64.67	40.73	592.35	24.12	293.90	265.90	236.14	49.31	569.31	93.54	141.08	265.22
22787	6.99	-16.04	-9.50	68.20	42.68	591.44	28.49	292.08	269.37	247.45	46.55	551.60	104.36	145.83	268.42
22788	8.20	-15.64	-9.50	71.18	44.42	589.92	32.49	289.37	273.33	262.75	44.25	531.16	116.32	153.59	272.18
22789	9.38	-15.17	-9.50	73.48	45.75	587.59	35.91	285.45	277.44	283.13	42.67	508.62	129.97	164.69	276.29
22790	10.52	-14.63	-9.50	75.34	46.50	584.22	38.71	280.03	281.17	309.99	42.07	485.06	146.02	179.62	280.44
22791	11.63	-14.04	-9.50	77.37	46.60	579.65	41.11	273.19	283.85	345.29	42.79	461.92	165.07	199.32	284.35
22792	0.67	-18.88	-9.50	69.60	37.99	589.26	4.50	280.42	209.22	178.61	50.81	602.36	46.09	133.17	209.34
22793	2.00	-18.79	-9.50	68.35	39.12	588.74	9.15	279.65	210.44	181.10	49.00	598.21	54.14	131.88	210.56
22794	3.33	-18.62	-9.50	67.29	40.84	587.66	13.81	278.22	213.14	184.43	47.33	590.74	62.40	131.77	213.15
22795	4.64	-18.37	-9.50	66.41	42.97	585.95	18.33	276.26	217.29	189.02	45.97	579.96	71.00	133.36	217.08
22796	5.93	-18.03	-9.50	65.65	45.30	583.57	22.60	273.74	222.80	195.42	45.15	565.94	80.12	137.01	222.33
22797	7.20	-17.61	-9.50	64.93	47.62	580.47	26.54	270.59	229.53	204.27	45.07	548.76	90.00	143.01	228.89
22798	8.43	-17.11	-9.50	64.23	49.70	576.61	30.04	266.70	237.27	216.33	45.83	528.67	101.06	151.60	236.68
22799	9.63	-16.54	-9.50	63.68	51.27	571.94	32.98	261.93	245.62	232.65	47.41	506.11	113.88	163.10	245.54
22800	10.78	-15.88	-9.50	63.60	52.04	566.46	35.38	256.28	253.97	254.65	49.78	481.89	129.29	177.98	255.15
22801	11.89	-15.16	-9.50	64.51	51.83	560.30	37.51	249.97	261.45	284.72	52.89	457.34	148.33	197.02	265.11
22802	16.80	-9.56	-9.50	182.46	44.40	567.10	69.38	235.90	282.35	1061.79	44.25	400.81	343.62	414.21	329.83
22803	16.19	-10.65	-9.50	134.33	47.27	555.74	64.03	236.09	280.11	799.43	56.10	392.96	327.03	378.36	322.93
22804	15.51	-11.70	-9.50	101.30	48.49	548.15	55.95	234.58	277.63	602.20	66.40	393.31	283.43	335.96	310.56
22805	15.78	-9.48	-9.50	162.39	40.45	586.42	61.96	268.90	294.08	947.09	46.60	423.04	292.72	376.11	313.47
22806	15.36	-10.44	-9.50	132.57	42.89	576.59	59.50	263.37	290.69	775.20	42.32	413.5			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
22835	7.28	-9.74	-10.50	143.65	45.30	498.58	59.90	377.94	327.41	570.47	124.67	423.89	153.94	188.67	331.92
22836	8.39	-9.69	-10.50	154.12	45.79	522.96	64.63	378.55	329.39	601.87	123.24	424.24	173.32	200.75	333.79
22837	9.50	-9.63	-10.50	162.05	46.40	548.32	68.44	377.04	331.52	638.66	120.88	426.24	192.93	217.97	335.34
22838	10.60	-9.56	-10.50	167.47	47.14	572.76	71.07	372.55	333.44	681.48	117.55	429.96	212.57	240.88	336.16
22839	0.58	-11.69	-10.50	73.76	41.23	463.07	26.05	346.01	322.32	410.63	104.53	480.91	61.62	182.47	323.79
22840	1.75	-11.67	-10.50	78.54	41.27	466.86	29.53	347.04	322.29	420.11	106.21	478.26	75.51	176.76	324.15
22841	2.91	-11.62	-10.50	88.12	41.35	474.02	34.69	348.86	322.71	431.42	107.12	474.93	90.68	172.95	324.98
22842	4.07	-11.55	-10.50	100.54	41.47	484.37	40.57	351.38	323.52	445.02	107.23	470.93	106.88	171.60	326.18
22843	5.22	-11.46	-10.50	114.02	41.64	497.69	46.57	354.41	324.65	461.43	106.51	466.33	123.97	173.26	327.65
22844	6.37	-11.35	-10.50	127.15	41.86	513.71	52.30	357.63	326.03	481.35	105.00	461.33	141.89	178.53	329.24
22845	7.51	-11.21	-10.50	138.78	42.18	532.03	57.50	360.47	327.56	505.68	102.74	456.30	160.59	187.93	330.77
22846	8.64	-11.06	-10.50	147.94	42.61	551.98	61.93	361.97	329.09	535.53	99.83	451.78	179.98	201.74	332.01
22847	9.75	-10.88	-10.50	154.20	43.22	572.29	65.44	360.92	330.41	571.87	96.44	448.39	199.96	220.10	332.67
22848	10.86	-10.68	-10.50	157.92	44.09	590.89	67.92	356.47	331.20	615.41	92.73	446.37	220.56	243.54	332.47
22849	0.60	-13.49	-10.50	67.92	38.60	521.03	18.36	326.08	315.56	362.96	91.83	537.15	69.67	172.78	316.50
22850	1.81	-13.45	-10.50	72.80	38.51	523.69	22.78	327.07	315.81	369.11	92.03	533.79	83.35	168.22	316.96
22851	3.02	-13.37	-10.50	82.32	38.45	528.62	28.89	328.90	316.65	377.03	91.37	528.85	97.92	165.61	318.02
22852	4.21	-13.26	-10.50	94.39	38.45	535.70	35.50	331.47	318.01	387.25	89.83	522.31	113.22	165.47	319.57
22853	5.40	-13.10	-10.50	107.22	38.55	544.76	42.06	334.58	319.79	400.38	87.47	514.21	129.20	168.34	321.47
22854	6.58	-12.91	-10.50	119.42	38.77	555.60	48.23	337.89	321.87	417.22	84.35	504.69	145.89	174.77	323.54
22855	7.74	-12.69	-10.50	129.88	39.14	567.89	53.77	340.83	324.07	438.83	80.62	494.07	163.43	185.21	325.56
22856	8.88	-12.43	-10.50	137.69	39.70	581.11	58.39	342.37	326.13	466.50	76.49	482.93	181.99	199.80	327.23
22857	10.01	-12.13	-10.50	142.61	40.48	594.13	61.91	341.28	327.64	501.30	72.23	472.09	201.73	218.62	328.18
22858	11.11	-11.80	-10.50	145.22	41.59	605.22	64.41	336.89	328.14	544.02	68.21	462.32	222.92	242.51	328.11
22859	0.63	-15.29	-10.50	61.27	35.02	577.50	9.45	310.48	300.96	313.71	77.72	591.90	75.50	166.29	301.33
22860	1.88	-15.23	-10.50	65.81	34.82	578.94	15.63	311.18	301.46	317.37	76.53	587.85	88.38	162.76	301.88
22861	3.12	-15.12	-10.50	74.52	34.64	581.54	22.60	312.49	302.68	322.69	74.42	581.36	101.76	160.99	303.13
22862	4.36	-14.96	-10.50	85.43	34.57	585.17	29.57	314.33	304.55	330.23	71.45	572.39	115.59	161.50	305.00
22863	5.58	-14.75	-10.50	96.85	34.70	589.68	36.34	316.52	307.00	340.65	67.76	560.94	129.92	164.80	307.39
22864	6.78	-14.48	-10.50	107.56	35.10	594.86	42.77	318.75	309.96	354.74	63.57	547.09	144.91	171.41	310.20
22865	7.95	-14.16	-10.50	116.58	35.83	600.48	48.63	320.54	313.31	373.53	59.15	531.07	160.85	181.78	313.29
22866	9.13	-13.80	-10.50	123.20	36.88	606.13	53.58	321.05	316.75	398.32	54.79	513.37	178.15	196.08	316.41
22867	10.27	-13.38	-10.50	127.31	38.17	611.08	57.34	319.29	319.68	430.26	50.89	494.93	197.23	214.49	319.10
22868	11.37	-12.92	-10.50	129.51	39.71	614.28	59.96	314.82	321.25	470.41	47.71	477.07	218.45	237.83	320.77
22869	0.65	-17.08	-10.50	55.27	28.08	620.41	5.87	298.86	274.25	264.68	60.87	633.05	75.28	161.91	274.28
22870	1.94	-17.01	-10.50	58.71	28.06	620.77	12.20	299.01	275.06	267.02	58.47	628.54	86.89	159.40	275.04
22871	3.22	-16.87	-10.50	65.52	28.24	621.31	18.49	299.31	276.77	270.85	55.25	620.94	98.72	158.31	276.65
22872	4.50	-16.66	-10.50	74.17	28.72	621.87	24.70	299.76	279.33	276.68	51.41	610.19	110.85	159.20	279.07
22873	5.75	-16.39	-10.50	83.31	29.62	622.32	30.87	300.22	282.73	285.16	47.29	596.29	123.46	162.56	282.28
22874	6.99	-16.04	-10.50	91.91	30.99	622.51	36.92	300.48	287.00	296.97	43.36	579.30	136.78	168.87	286.32
22875	8.20	-15.64	-10.50	99.26	32.83	622.27	42.65	300.22	292.09	313.00	40.16	559.39	151.20	178.57	291.20
22876	9.38	-15.17	-10.50	104.87	34.99	621.37	47.68	298.95	297.78	334.37	38.19	536.97	167.26	191.95	296.82
22877	10.52	-14.63	-10.50	108.73	37.20	619.45	51.65	296.11	303.42	362.33	37.79	512.88	185.55	209.31	302.73
22878	11.63	-14.04	-10.50	111.27	39.20	616.15	54.54	291.48	307.91	398.49	38.98	488.67	206.47	231.56	308.19
22879	0.67	-18.88	-10.50	56.07	19.76	633.42	6.78	288.66	224.68	218.72	42.29	644.43	65.97	156.32	224.71
22880	2.00	-18.79	-10.50	57.23	20.54	633.13	11.25	288.09	226.16	221.06	39.24	640.15	76.08	155.11	226.13
22881	3.33	-18.62	-10.50	60.32	22.02	632.44	16.22	287.10	229.20	224.54	35.88	632.62	86.41	155.10	229.02
22882	4.64	-18.37	-10.50	64.78	24.15	631.18	21.38	285.83	233.72	229.62	32.68	621.78	97.17	156.84	233.29
22883	5.93	-18.03	-10.50	69.91	26.82	629.29	26.63	284.27	239.69	236.82	30.43	607.62	108.53	160.74	238.97
22884	7.20	-17.61	-10.50	75.11	29.89	626.71	31.88	282.30	247.09	246.71	29.92	590.20	120.72	167.13	246.13
22885	8.43	-17.11	-10.50	79.94	33.19	623.34	36.95	279.79	255.81	259.98	31.64	569.63	134.11	176.35	254.80
22886	9.63	-16.54	-10.50	84.16	36.48	619.07	41.57	276.58	265.62	277.58	35.42	546.17	149.23	188.77	264.95
22887	10.78	-15.88	-10.50	87.75	39.39	613.77	45.43	272.53	275.88	300.80	40.58	520.43	166.80	204.88	276.21
22888	11.89	-15.16	-10.50	90.99	41.47	607.41	48.53	267.77	285.38	331.81	46.20	493.70	187.63	225.48	287.79
22889	16.80	-9.56	-10.50	185.62	52.01	612.90	77.85	277.82	307.70	1108.93	53.61	419.14	385.87	524.44	357.69
22890	16.19	-10.65	-10.50	144.93	51.52	599.70	73.67	272.23	305.20	843.82	50.61	414.33	366.30	456.15	348.33
22891	15.51	-11.70	-10.50	118.85	49.17	591.96	66.99	264.89	302.95	647.15	57.63	418.96	321.95	392.06	333.86
22892	15.78	-9.48	-10.50	178.14	50.16	623.16	73.25	307.06	318.05	1001.50	70.27	434.84	337.77	468.16	338.13
22893	15.36	-10.44	-10.50	152.60	49.26	613.02	71.37	297.39	314.77	827.39	53.05	429.66	332.83	421.19	333.61
22894	14.89	-11.36	-10.50	132.52	47.47	605.79	67.47	287.02	312.19	678.04	46.30	430.61	310.74	374.73	327.89
22895	14.77	-9.41	-10.50	176.37	49.52	624.45	71.88	327.70	326.09	918.02	86.70	440.93	302.22	410.76	332.18
22896	14.53	-10.23	-10.50	159.44	48.30	618.89	70.58	316.87	322.36	805.64	67.25	438.54	304.20	383.80	328.78
22897	14.27	-11.03	-10.50	144.40	46.62	614.04	68.45	306.18	319.07	696.11	52.58	438.73	297.07	353.13	325.53
22898	12.91	-14.38	-10.50	94.28	42.83	600.78	51.33	263.07	292.86	372.56	52.41	468.72	211.33	252.50	298.14
22899	12.60	-13.43	-10.50	113.46	41.03	612.09	56.83	286.73	310.54	441.80	41.46	467.91	228.58	258.20	312.36
22900	12.30	-12.48	-10.50	130.80	41.30	615.11	61.68	309.32	321.29	513.32	46.05	462.94	238.25	263.37	321.41
22901	13.85	-13.56	-10.50	98.62	44.01	594.89	55.13	260.57	297.70	430.10	57.08	447.56	240.59	287.71	308.28
22902	13.44	-12.81	-10.50	116.66	42.73	608.02	59.55	283.85	311.48	496.41	43.61	451.66	252.49	289.50	316.28
22903	13.05	-12.07	-10.50	132.79	42.84	614.22	63.34	305.31	320.50	559.40	46.30	452.49	256.91	289.60	321.99
22904	14														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
22933	14.20	-15.53	-9.50	50.09	55.76	477.41	35.39	199.01	227.78	242.55	84.32	390.43	148.24	243.27	260.40
22934	15.26	-14.48	-9.50	52.65	54.49	472.09	39.02	191.31	237.17	290.58	99.26	372.00	183.44	280.37	289.69
22935	16.24	-13.37	-9.50	61.84	55.07	469.61	46.69	185.29	244.77	371.52	120.53	357.12	237.82	325.89	325.49
22936	17.14	-12.19	-9.50	85.83	59.01	471.42	61.53	179.95	250.55	522.35	145.44	346.68	324.93	376.97	366.23
22937	17.95	-10.95	-9.50	142.76	62.75	478.31	84.92	173.10	253.99	826.26	151.05	341.60	442.17	427.70	402.00
22938	18.68	-9.66	-9.50	248.80	59.03	490.07	102.81	161.97	255.23	1360.21	109.41	342.42	504.96	455.30	413.42
22939	0.78	-21.87	-9.50	117.83	27.38	469.72	6.17	246.15	79.33	152.53	28.77	480.98	19.67	100.10	80.21
22940	2.35	-21.76	-9.50	114.02	28.90	467.59	12.41	244.79	83.56	153.34	29.28	478.46	27.44	105.44	84.11
22941	3.90	-21.54	-9.50	108.55	31.63	464.54	19.15	242.13	91.67	153.32	31.33	473.38	36.21	113.92	91.15
22942	5.43	-21.20	-9.50	101.89	35.17	461.21	25.30	238.45	103.12	153.15	34.75	466.45	45.42	124.99	101.51
22943	6.94	-20.76	-9.50	94.12	39.23	457.56	30.35	233.74	116.89	153.25	39.39	457.56	54.74	138.00	114.99
22944	8.41	-20.20	-9.50	85.30	43.54	453.33	34.01	227.83	132.08	153.96	45.16	446.47	64.07	152.43	131.43
22945	9.83	-19.55	-9.50	75.70	47.76	448.28	36.11	220.57	148.02	155.84	51.90	433.11	73.63	168.08	150.81
22946	11.20	-18.79	-9.50	65.90	51.37	442.32	36.62	211.93	164.10	159.77	59.51	417.70	83.98	185.27	173.25
22947	12.52	-17.94	-9.50	56.80	53.82	435.48	35.82	202.01	179.67	167.02	68.16	400.79	96.16	204.98	199.00
22948	13.77	-17.00	-9.50	49.58	54.69	428.13	34.52	191.29	194.03	179.57	78.67	383.41	111.89	229.01	228.73
22949	14.95	-15.97	-9.50	45.35	54.21	421.01	34.19	180.63	206.67	200.80	92.89	366.98	133.98	259.62	264.16
22950	16.06	-14.85	-9.50	45.34	53.77	415.27	36.62	170.97	217.62	237.65	113.99	353.19	167.60	298.21	308.02
22951	17.08	-13.67	-9.50	51.52	56.13	412.23	43.97	162.55	227.14	301.03	147.08	343.79	222.37	344.06	362.19
22952	18.01	-12.41	-9.50	72.02	65.33	412.70	62.23	154.22	234.68	428.86	200.98	342.22	325.29	394.15	423.21
22953	18.85	-11.08	-9.50	140.08	78.29	416.68	100.13	143.61	238.83	779.35	247.41	355.98	508.46	445.48	478.01
22954	19.60	-9.70	-9.50	300.92	76.72	425.00	135.46	127.78	239.07	1570.44	195.84	393.33	643.26	460.67	495.52
22955	0.83	-22.71	-9.50	134.44	16.43	412.36	6.30	234.11	43.31	156.09	16.88	424.33	12.35	85.92	43.93
22956	2.47	-22.59	-9.50	129.96	18.08	409.47	14.20	232.94	50.32	155.58	18.08	423.18	21.56	95.04	48.90
22957	4.11	-22.35	-9.50	123.45	21.00	405.46	22.28	230.51	62.08	153.63	20.95	420.04	31.62	108.24	57.59
22958	5.72	-21.99	-9.50	115.59	25.06	401.39	29.53	227.03	76.60	151.04	25.52	416.03	41.67	123.94	69.94
22959	7.30	-21.52	-9.50	106.39	29.84	397.19	35.40	222.52	92.62	148.06	31.48	410.97	51.28	141.20	85.90
22960	8.85	-20.93	-9.50	95.84	35.02	392.44	39.54	216.79	109.29	144.87	38.64	404.47	60.30	159.36	105.44
22961	10.35	-20.23	-9.50	84.19	40.15	386.83	41.69	209.66	126.12	141.92	46.79	396.37	68.83	178.21	128.77
22962	11.79	-19.42	-9.50	72.01	44.65	380.22	41.75	201.01	142.69	140.03	55.84	386.88	77.30	198.09	156.29
22963	13.17	-18.52	-9.50	60.23	47.91	372.70	39.97	190.89	158.48	140.34	66.02	376.60	86.62	220.08	188.81
22964	14.48	-17.51	-9.50	50.06	49.55	364.68	37.13	179.68	173.03	144.48	78.34	366.54	98.46	246.05	227.91
22965	15.71	-16.41	-9.50	42.75	49.91	356.95	34.71	168.18	186.16	155.28	95.10	358.28	115.48	278.04	276.42
22966	16.86	-15.22	-9.50	39.17	50.54	350.53	34.74	157.27	198.12	175.96	120.64	354.22	142.70	316.77	337.69
22967	17.92	-13.96	-9.50	41.77	54.58	346.03	39.74	147.11	209.13	220.10	162.89	359.46	189.08	359.98	413.15
22968	18.89	-12.62	-9.50	50.01	68.49	343.59	54.60	136.56	218.11	281.78	242.80	383.20	274.73	406.07	498.61
22969	19.75	-11.21	-9.50	114.19	104.11	340.00	109.69	123.22	222.59	606.10	393.87	461.34	532.36	453.95	583.98
22970	20.51	-9.75	-9.50	369.61	121.84	335.21	189.44	106.05	220.69	1817.53	405.82	663.24	861.93	470.82	647.29
22971	0.87	-23.55	-9.50	150.76	4.90	357.38	5.83	221.59	15.17	163.13	4.95	371.04	7.33	70.24	13.98
22972	2.60	-23.42	-9.50	145.74	6.42	353.98	16.10	220.84	28.38	161.15	6.45	372.55	18.81	84.17	19.99
22973	4.32	-23.17	-9.50	138.43	9.57	349.26	25.70	219.02	44.13	157.14	9.96	373.07	30.08	102.84	29.91
22974	6.01	-22.78	-9.50	129.55	14.00	344.47	34.15	216.20	60.47	151.90	15.21	373.88	40.74	123.49	43.63
22975	7.67	-22.28	-9.50	119.14	19.35	339.64	41.00	212.41	77.04	145.55	21.94	374.79	50.46	145.15	61.39
22976	9.29	-21.65	-9.50	107.10	25.21	334.24	45.88	207.54	93.62	138.06	29.91	375.23	59.01	167.31	83.51
22977	10.86	-20.91	-9.50	93.63	31.04	327.85	48.44	201.37	110.00	129.74	38.86	374.98	66.26	189.79	110.44
22978	12.37	-20.05	-9.50	79.29	36.19	320.35	48.50	193.69	125.89	121.30	48.66	374.24	72.38	212.96	143.00
22979	13.81	-19.09	-9.50	64.95	40.05	311.87	46.22	184.39	140.94	113.75	59.49	373.64	77.98	237.85	182.68
22980	15.18	-18.02	-9.50	51.82	42.34	302.91	42.27	173.68	154.85	108.51	72.33	374.27	84.32	266.14	232.15
22981	16.47	-16.85	-9.50	41.15	43.49	294.33	37.98	162.22	167.69	106.99	89.47	378.07	93.65	299.29	295.36
22982	17.66	-15.59	-9.50	33.95	45.04	286.88	34.93	150.78	179.99	112.53	115.63	389.37	108.60	337.07	375.91
22983	18.76	-14.25	-9.50	29.72	49.79	280.57	35.25	139.42	191.91	120.60	159.15	417.21	136.08	374.25	474.74
22984	19.76	-12.83	-9.50	37.12	63.66	271.34	41.14	127.23	201.83	174.42	239.15	492.58	177.98	412.96	585.81
22985	20.65	-11.34	-9.50	19.44	110.36	258.59	60.99	110.67	206.35	98.39	440.11	658.82	269.75	440.51	732.36
22986	21.43	-9.79	-9.50	437.53	307.27	185.99	299.79	111.06	205.12	1963.46	1215.16	1327.53	1283.58	632.24	1015.08
22987	0.70	-20.20	-10.50	66.48	21.28	617.46	5.46	280.05	168.91	189.97	32.64	627.55	52.68	149.35	169.11
22988	2.10	-20.10	-10.50	65.63	22.87	616.84	9.90	278.90	171.27	193.04	30.41	623.71	61.92	149.64	171.42
22989	3.49	-19.90	-10.50	65.24	25.27	615.61	14.87	276.89	176.16	196.73	28.77	616.74	71.60	151.32	176.02
22990	4.86	-19.62	-10.50	65.35	28.19	613.71	19.91	274.31	183.54	201.48	28.37	606.65	81.95	154.89	182.98
22991	6.20	-19.23	-10.50	65.83	31.50	611.13	24.81	271.15	193.14	207.77	29.94	593.42	93.01	160.49	192.16
22992	7.52	-18.76	-10.50	66.56	35.08	607.82	29.47	267.29	204.63	216.01	33.71	577.06	104.89	168.20	203.47
22993	8.80	-18.19	-10.50	67.54	38.72	603.67	33.79	262.67	217.70	226.77	39.37	557.60	117.88	178.20	216.86
22994	10.04	-17.54	-10.50	68.84	42.19	598.56	37.59	257.28	231.92	240.91	46.40	535.21	132.46	190.87	232.22
22995	11.23	-16.80	-10.50	70.63	45.04	592.39	40.76	251.21	246.60	259.79	54.22	510.35	149.34	206.88	249.21
22996	12.37	-15.98	-10.50	73.05	46.64	585.25	43.54	244.88	260.61	285.47	62.04	484.07	169.88	227.49	267.06
22997	13.44	-15.08	-10.50	76.12	46.88	577.74	46.72	239.26	272.26	321.48	70.46	458.35	195.24	255.26	284.66
22998	14.46	-14.11	-10.50	80.30	46.82	571.17	51.37	235.80	280.64	376.00	78.39	435.43	228.02	293.30	302.80
22999	15.40	-13.08	-10.50	87.58	48.45	567.38	58.15	235.92	286.49	463.48	85.47	416.51	273.45	343.97	323.93
23000	16.27	-11.98	-10.50	103.72	52.39	568.49	67.58	238.86	290.69	610.02	89.18	401.71	338.11	408.37	351.11
23001	17.06	-10.82	-10.50	139.17	55.70	576.25	78.99	242.22	293.78	856.07	78.94	392.39	412.65	485.56	379.51
23002	17.76	-9.62	-10.50	202.22	55.47	590.70	87.46	242.97	296.2						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
23031	17.08	-13.67	-10.50	53.15	53.11	474.44	50.40	179.43	247.96	330.66	150.05	385.66	244.60	364.40	372.82
23032	18.01	-12.41	-10.50	70.27	62.75	473.34	65.40	174.55	258.54	454.89	197.20	375.07	343.61	425.43	440.95
23033	18.85	-11.08	-10.50	129.68	76.36	475.59	97.18	169.97	266.46	797.13	242.83	374.27	527.72	518.83	513.78
23034	19.60	-9.70	-10.50	274.43	78.07	483.03	130.62	165.57	270.16	1625.84	187.90	382.31	688.56	666.03	551.19
23035	0.83	-22.71	-10.50	114.70	15.76	473.29	4.84	249.86	38.77	164.85	16.50	484.95	18.49	115.28	38.81
23036	2.47	-22.59	-10.50	110.05	16.88	469.14	11.88	248.68	47.14	167.35	16.86	481.98	28.49	122.94	44.28
23037	4.11	-22.35	-10.50	104.11	20.00	464.16	19.46	245.95	60.44	168.97	20.05	477.29	39.72	133.90	53.82
23038	5.72	-21.99	-10.50	97.54	23.88	460.04	26.27	242.43	77.02	170.62	25.20	472.54	51.69	147.64	67.85
23039	7.30	-21.52	-10.50	89.85	28.34	456.14	31.76	237.89	94.98	171.93	32.33	466.83	63.81	163.22	85.58
23040	8.85	-20.93	-10.50	80.80	33.26	451.76	35.71	232.01	113.51	172.51	41.35	459.53	75.77	179.84	106.88
23041	10.35	-20.23	-10.50	70.70	38.19	446.50	37.91	224.60	132.23	172.46	52.02	450.53	87.44	197.15	131.94
23042	11.79	-19.42	-10.50	60.20	42.57	440.18	38.23	215.52	150.79	172.17	64.09	440.06	98.88	215.31	161.09
23043	13.17	-18.52	-10.50	50.44	45.67	432.83	36.96	204.79	168.70	172.45	77.40	428.72	110.43	235.21	194.88
23044	14.48	-17.51	-10.50	42.89	46.93	424.79	35.15	192.82	185.32	174.87	92.10	417.56	123.04	258.76	234.46
23045	15.71	-16.41	-10.50	38.55	46.71	416.81	34.58	180.66	200.28	182.77	109.31	407.92	138.88	288.39	282.31
23046	16.86	-15.22	-10.50	37.23	47.06	409.82	36.70	169.66	214.02	199.95	132.38	401.06	163.16	325.35	342.34
23047	17.92	-13.96	-10.50	40.40	51.42	404.04	42.40	160.44	227.67	241.47	169.44	399.63	205.88	368.67	417.26
23048	18.89	-12.62	-10.50	48.15	64.73	398.95	55.06	151.90	240.97	299.38	241.62	400.89	286.31	415.38	506.91
23049	19.75	-11.21	-10.50	103.32	98.10	391.18	102.07	144.22	251.41	602.28	396.37	465.38	543.29	505.63	612.21
23050	20.51	-9.75	-10.50	332.68	118.51	386.02	177.65	144.13	256.17	1922.96	401.41	604.30	925.24	727.31	698.49
23051	0.87	-23.55	-10.50	134.76	5.79	407.34	5.13	235.70	12.26	167.76	5.87	421.55	9.12	97.60	10.13
23052	2.60	-23.42	-10.50	129.39	7.63	402.24	14.12	235.01	27.98	168.74	7.67	421.53	20.74	109.48	18.02
23053	4.32	-23.17	-10.50	122.33	10.38	396.06	22.81	233.07	45.15	168.65	11.15	421.06	33.32	125.48	29.54
23054	6.01	-22.78	-10.50	114.52	14.52	391.07	30.42	230.09	62.67	168.01	17.04	422.21	45.94	143.79	44.62
23055	7.67	-22.28	-10.50	105.45	19.38	386.68	36.61	226.25	80.42	166.30	24.93	424.02	58.36	163.68	63.73
23056	9.29	-21.65	-10.50	94.62	24.74	381.86	40.96	221.26	98.13	162.70	34.74	425.40	70.07	184.26	87.08
23057	10.86	-20.91	-10.50	82.29	30.03	376.09	43.11	214.91	115.70	157.17	46.22	426.14	80.69	205.11	115.15
23058	12.37	-20.05	-10.50	68.98	34.59	369.20	42.82	206.96	132.88	149.97	59.08	426.39	89.92	226.29	148.61
23059	13.81	-19.09	-10.50	55.70	37.74	361.26	40.27	197.26	149.30	141.71	73.03	426.67	97.68	248.56	188.63
23060	15.18	-18.02	-10.50	43.99	39.16	352.68	36.37	185.97	164.57	133.69	88.19	427.88	104.45	273.52	237.46
23061	16.47	-16.85	-10.50	35.37	39.60	344.20	32.91	173.90	178.76	127.81	105.67	431.21	112.06	302.90	298.73
23062	17.66	-15.59	-10.50	30.51	41.12	336.32	31.56	162.27	192.77	128.66	129.52	438.96	123.49	336.59	376.24
23063	18.76	-14.25	-10.50	27.95	46.31	328.44	33.26	151.68	207.83	131.57	168.87	456.66	146.81	370.24	470.40
23064	19.76	-12.83	-10.50	35.31	59.17	315.95	39.21	141.40	222.94	189.41	242.44	510.83	188.01	400.26	576.29
23065	20.65	-11.34	-10.50	17.05	101.23	298.87	55.70	126.48	234.19	64.17	440.08	652.34	255.30	416.49	688.59
23066	21.43	-9.79	-10.50	391.00	283.84	228.28	271.93	136.15	242.84	2132.30	1231.69	1441.78	1325.22	819.75	1033.94
23067	-11.69	-9.49	-9.50	111.66	34.16	570.09	67.01	339.41	330.67	252.37	48.76	435.08	62.61	214.76	330.95
23068	-12.72	-9.44	-9.50	106.05	33.89	581.49	68.23	328.03	328.48	233.54	43.36	427.14	64.54	203.08	328.90
23069	-13.76	-9.39	-9.50	98.01	33.93	586.61	68.04	314.80	324.65	212.19	38.96	415.42	65.33	188.81	325.24
23070	-11.91	-10.47	-9.50	104.55	33.91	579.45	64.79	324.53	323.42	235.01	47.89	445.11	60.17	199.51	323.85
23071	-12.81	-10.33	-9.50	99.73	33.78	584.57	65.90	314.70	321.05	219.42	43.20	434.39	62.26	189.40	321.61
23072	-13.70	-10.18	-9.50	93.42	33.98	585.25	66.13	304.07	317.64	202.48	39.35	421.25	63.64	178.16	318.34
23073	-12.11	-11.46	-9.50	96.45	34.81	584.07	62.04	307.63	315.61	216.23	47.21	452.63	57.84	182.41	316.22
23074	-12.88	-11.21	-9.50	92.93	34.70	584.44	63.13	300.18	313.78	204.42	43.45	439.93	59.90	174.93	314.45
23075	-13.63	-10.96	-9.50	88.64	34.70	582.30	63.70	291.87	310.95	191.53	40.13	426.17	61.74	166.48	311.72
23076	-0.57	-9.89	-9.50	65.81	35.37	405.66	21.05	368.50	318.61	372.45	99.01	430.60	36.85	180.49	320.28
23077	-1.70	-9.88	-9.50	70.97	35.37	409.67	23.03	368.25	319.72	362.88	95.75	432.78	29.84	189.56	320.98
23078	-2.84	-9.86	-9.50	78.67	35.35	418.05	27.21	368.01	321.08	353.74	91.99	434.91	26.62	198.60	322.00
23079	-3.96	-9.83	-9.50	87.60	35.32	430.45	32.66	367.70	322.64	344.66	87.78	436.98	27.75	207.24	323.31
23080	-5.08	-9.80	-9.50	96.58	35.28	446.44	38.66	367.20	324.35	335.25	83.14	438.95	32.07	215.09	324.82
23081	-6.20	-9.76	-9.50	104.64	35.23	465.47	44.76	366.25	326.13	325.10	78.12	440.72	37.92	221.72	326.46
23082	-7.31	-9.71	-9.50	110.97	35.14	486.81	50.63	364.46	327.87	313.76	72.73	442.13	44.14	226.52	328.12
23083	-8.42	-9.66	-9.50	114.98	34.99	509.53	56.05	361.32	329.44	300.88	67.00	442.87	50.06	228.79	329.64
23084	-9.52	-9.60	-9.50	116.37	34.78	532.25	60.75	356.24	330.63	286.28	60.97	442.42	55.29	227.81	330.82
23085	-10.62	-9.54	-9.50	115.18	34.49	553.18	64.51	348.88	331.14	270.01	54.78	439.99	59.56	223.08	331.37
23086	-0.60	-11.68	-9.50	60.98	33.73	453.15	20.19	349.49	315.17	335.89	90.17	476.32	40.17	172.49	316.64
23087	-1.80	-11.64	-9.50	66.59	33.88	456.15	22.47	349.59	316.24	329.13	88.20	477.31	31.87	180.72	317.38
23088	-2.99	-11.58	-9.50	74.78	34.06	462.92	26.80	349.80	317.54	322.60	85.61	477.66	27.03	189.02	318.43
23089	-4.16	-11.50	-9.50	84.01	34.24	473.14	32.26	350.04	319.02	315.90	82.46	477.34	26.65	196.98	319.71
23090	-5.32	-11.40	-9.50	93.00	34.41	486.35	38.16	350.14	320.57	308.62	78.79	476.32	30.08	204.19	321.11
23091	-6.47	-11.28	-9.50	100.74	34.54	501.98	44.05	349.80	322.08	300.30	74.63	474.52	35.54	210.15	322.51
23092	-7.60	-11.15	-9.50	106.42	34.60	519.31	49.64	348.53	323.41	290.50	69.99	471.79	41.59	214.19	323.78
23093	-8.72	-10.99	-9.50	109.54	34.57	537.32	54.71	345.70	324.39	278.89	64.87	467.86	47.44	215.53	324.73
23094	-9.83	-10.82	-9.50	110.01	34.40	554.57	59.08	340.72	324.85	265.47	59.31	462.26	52.66	213.49	325.19
23095	-10.92	-10.63	-9.50	108.16	34.13	569.30	62.56	333.39	324.56	250.50	53.42	454.43	57.05	207.85	324.95
23096	-0.63	-13.48	-9.50	56.12	32.42	508.02	15.45	330.39	306.47	296.07	80.75	529.18	44.25	164.01	307.47
23097	-1.88	-13.42	-9.50	61.67	32.67	509.74	18.26	330.60	307.64	291.80	79.96	528.79	35.03	171.03	308.47
23098	-3.11	-13.32	-9.50	69.65	33.04	514.15	23.20	330.92	309.15	287.59	78.44	526.81	28.54	178.11	309.85
23099	-4.33	-13.19	-9.50	78.50	33.50	520.94	29.11	331.25	310.89	283.06	76.28	523.25	26.14	184.85	311.49
23100	-5.53	-13.03	-9.50	86.96	34.00	529.74	35.33	331.44	312.74	2					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
23129	-4.68	-18.35	-9.50	74.80	41.07	585.90	18.51	278.26	219.14	172.00	57.77	584.69	22.35	141.00	218.55
23130	-5.97	-18.01	-9.50	75.63	43.11	583.46	24.39	273.74	225.14	170.04	58.88	571.81	23.25	142.19	224.42
23131	-7.23	-17.59	-9.50	75.92	45.27	580.31	30.13	270.61	232.35	167.54	59.57	555.81	27.18	142.63	231.60
23132	-8.47	-17.09	-9.50	75.54	47.31	576.42	35.53	266.78	240.51	164.37	59.78	536.88	32.58	142.08	239.83
23133	-9.66	-16.51	-9.50	74.50	48.95	571.73	40.35	262.17	249.25	160.50	59.37	515.29	38.24	140.35	248.71
23134	-10.81	-15.87	-9.50	72.96	49.86	566.20	44.39	256.77	257.96	156.05	58.13	491.49	43.48	137.35	257.61
23135	-11.91	-15.15	-9.50	71.27	49.74	559.83	47.62	250.84	265.80	151.20	55.82	466.30	48.04	133.31	265.64
23136	-16.80	-9.56	-9.50	57.74	40.27	546.57	58.51	243.85	296.42	120.19	40.18	353.59	62.06	125.91	297.06
23137	-16.19	-10.65	-9.50	62.09	40.43	541.93	58.62	242.16	290.48	125.92	39.90	366.63	62.70	125.49	291.03
23138	-15.52	-11.69	-9.50	65.07	41.68	539.75	57.45	239.22	285.33	130.88	41.27	380.98	61.71	123.61	285.75
23139	-15.79	-9.48	-9.50	72.16	36.56	571.43	63.04	273.70	308.15	154.35	36.67	379.47	63.99	148.55	309.03
23140	-15.37	-10.42	-9.50	73.11	36.91	565.64	62.15	267.18	301.78	154.06	37.33	388.87	63.53	143.60	302.62
23141	-14.91	-11.34	-9.50	73.26	38.12	561.14	60.39	260.30	296.21	153.33	39.11	398.83	62.02	138.32	296.95
23142	-14.78	-9.40	-9.50	86.18	34.61	583.88	66.23	296.56	317.63	184.98	36.32	399.75	65.07	169.78	318.42
23143	-14.55	-10.21	-9.50	84.13	34.84	579.64	64.82	287.79	311.19	179.80	37.17	406.41	63.98	161.87	312.02
23144	-14.30	-11.00	-9.50	81.79	35.71	575.28	62.75	279.57	305.40	175.06	38.65	412.94	62.29	154.71	306.22
23145	-12.93	-14.37	-9.50	69.76	48.33	553.36	50.26	245.19	272.20	146.42	52.46	441.77	52.01	128.92	272.22
23146	-12.65	-13.39	-9.50	77.96	41.96	573.02	54.46	266.88	291.47	170.76	48.79	452.34	53.67	144.72	292.09
23147	-12.36	-12.43	-9.50	87.18	37.29	582.54	58.48	287.84	305.31	194.25	47.09	455.57	55.63	163.14	306.03
23148	-13.86	-13.54	-9.50	68.60	46.27	547.24	52.80	241.17	277.08	141.85	48.44	419.11	55.77	125.46	277.25
23149	-13.48	-12.78	-9.50	76.51	40.79	567.60	56.57	262.49	292.61	164.28	45.23	432.16	56.91	140.71	293.26
23150	-13.10	-12.03	-9.50	85.01	36.84	579.55	59.93	282.49	304.41	185.81	43.83	439.71	58.10	158.06	305.17
23151	-14.74	-12.66	-9.50	67.26	43.90	541.80	55.27	239.11	280.82	136.51	44.43	398.33	59.23	123.74	281.09
23152	-14.28	-12.13	-9.50	74.48	39.57	562.06	58.45	259.07	293.09	157.08	41.79	413.16	59.81	137.62	293.76
23153	-13.81	-11.61	-9.50	82.25	36.65	575.41	61.24	277.35	303.41	176.88	40.99	423.96	60.35	153.03	304.19
23154	-11.69	-9.49	-10.50	156.77	44.61	589.90	80.81	361.76	345.72	323.19	51.69	453.83	76.51	251.30	345.81
23155	-12.72	-9.44	-10.50	152.02	44.30	604.16	81.92	352.90	345.60	302.30	45.77	448.78	78.38	241.78	345.84
23156	-13.76	-9.39	-10.50	144.02	43.76	612.40	81.31	342.85	343.55	278.24	40.89	439.70	78.79	230.68	343.96
23157	-11.91	-10.47	-10.50	148.44	40.96	601.73	78.74	346.87	340.55	303.49	49.94	465.05	74.05	235.94	340.79
23158	-12.81	-10.33	-10.50	143.71	40.79	609.29	79.73	339.11	339.61	285.68	44.43	456.72	76.10	227.71	339.96
23159	-13.70	-10.18	-10.50	136.95	40.77	612.60	79.59	331.15	337.50	266.16	39.87	445.91	77.20	219.11	337.98
23160	-12.11	-11.46	-10.50	137.90	37.20	609.50	76.01	329.29	335.37	281.41	47.37	474.51	71.62	218.07	335.78
23161	-12.88	-11.21	-10.50	134.26	37.40	611.78	77.04	323.69	334.38	267.74	42.79	463.47	73.70	212.33	334.83
23162	-13.63	-10.96	-10.50	128.38	37.77	611.43	77.09	317.23	331.87	251.54	38.92	451.31	75.08	205.65	332.38
23163	-0.57	-9.89	-10.50	79.98	43.44	414.63	27.30	367.57	323.33	443.49	112.22	436.44	43.79	201.92	324.66
23164	-1.70	-9.88	-10.50	86.61	43.32	418.61	29.46	367.82	324.40	433.16	107.75	438.49	35.63	210.91	325.36
23165	-2.84	-9.86	-10.50	97.09	43.26	426.93	34.15	368.51	325.90	423.78	102.77	440.66	32.26	220.23	326.56
23166	-3.96	-9.83	-10.50	109.66	43.27	439.30	40.39	369.61	327.81	414.97	97.32	442.94	34.12	229.53	328.24
23167	-5.08	-9.80	-10.50	122.80	43.37	455.37	47.36	371.05	330.06	406.28	91.49	445.34	39.66	238.50	330.32
23168	-6.20	-9.76	-10.50	135.27	43.55	474.70	54.52	372.62	332.62	397.13	85.31	447.85	46.89	246.74	332.76
23169	-7.31	-9.71	-10.50	145.94	43.81	496.81	61.49	373.93	335.42	386.85	78.85	450.43	54.50	253.68	335.47
23170	-8.42	-9.66	-10.50	153.83	44.10	520.98	67.96	374.30	338.38	374.66	72.15	452.94	61.73	258.48	338.39
23171	-9.52	-9.60	-10.50	158.25	44.40	546.00	73.60	372.82	341.35	360.00	65.26	454.95	68.08	260.11	341.34
23172	-10.62	-9.54	-10.50	159.08	44.62	569.91	78.03	368.65	343.97	342.67	58.35	455.58	73.13	257.71	343.99
23173	-0.60	-11.68	-10.50	75.09	41.24	462.51	25.43	345.87	322.84	402.70	102.14	482.66	49.24	189.76	323.98
23174	-1.80	-11.64	-10.50	82.41	41.28	465.48	28.20	346.58	323.91	395.98	99.07	483.59	39.51	198.15	324.77
23175	-2.99	-11.58	-10.50	93.73	41.34	472.23	33.51	347.94	325.46	389.97	95.36	484.05	34.19	207.04	326.08
23176	-4.16	-11.50	-10.50	106.96	41.41	482.49	40.19	349.92	327.39	384.24	91.10	484.03	34.24	216.08	327.85
23177	-5.32	-11.40	-10.50	120.43	41.48	495.91	47.38	352.41	329.61	378.28	86.34	483.57	38.64	224.93	329.95
23178	-6.47	-11.28	-10.50	132.78	41.53	512.07	54.55	355.15	332.00	371.43	81.15	482.65	45.30	233.15	332.25
23179	-7.60	-11.15	-10.50	142.81	41.53	530.51	61.33	357.60	334.43	362.92	75.56	481.27	52.62	240.06	334.63
23180	-8.72	-10.99	-10.50	149.52	41.46	550.45	67.41	358.85	336.75	351.91	69.56	479.31	59.64	244.63	336.92
23181	-9.83	-10.82	-10.50	152.39	41.31	570.53	72.52	357.75	338.75	337.96	63.15	476.33	65.78	245.68	338.91
23182	-10.92	-10.63	-10.50	151.70	41.13	588.59	76.41	353.55	340.11	321.28	56.38	471.54	70.72	242.52	340.31
23183	-0.63	-13.48	-10.50	69.21	38.73	520.40	17.68	326.02	316.04	358.32	90.84	538.62	56.91	178.93	316.80
23184	-1.88	-13.42	-10.50	76.57	38.84	522.12	21.61	326.84	317.29	354.74	89.07	538.28	46.00	186.23	317.90
23185	-3.11	-13.32	-10.50	87.88	38.90	526.60	28.30	328.34	319.16	351.62	86.52	536.57	38.55	194.03	319.65
23186	-4.33	-13.19	-10.50	100.91	38.88	533.59	36.06	330.48	321.53	348.51	83.28	533.50	35.85	202.02	321.94
23187	-5.53	-13.03	-10.50	113.94	38.77	542.78	44.08	333.17	324.26	344.88	79.44	529.09	38.02	209.86	324.62
23188	-6.70	-12.83	-10.50	125.61	38.57	553.84	51.88	336.11	327.17	340.06	75.06	523.37	43.50	217.13	327.52
23189	-7.86	-12.61	-10.50	134.76	38.28	566.36	59.08	338.76	330.08	333.27	70.20	516.35	50.39	223.16	330.42
23190	-8.99	-12.35	-10.50	140.42	37.93	579.69	65.32	340.11	332.71	323.71	64.90	507.97	57.29	226.90	333.06
23191	-10.11	-12.06	-10.50	142.30	37.56	592.60	70.30	338.97	334.66	311.13	59.13	498.03	63.38	227.19	335.03
23192	-11.19	-11.74	-10.50	140.92	37.26	603.22	73.93	334.82	335.54	296.01	52.95	486.18	68.32	223.57	335.94
23193	-0.65	-15.28	-10.50	62.41	35.20	577.01	7.94	310.45	301.39	311.47	78.05	593.26	63.06	171.16	301.72
23194	-1.95	-15.20	-10.50	69.14	35.32	577.75	13.68	311.02	302.75	310.14	77.53	591.94	51.72	176.92	303.06
23195	-3.22	-15.07	-10.50	79.48	35.28	579.98	21.65	312.05	304.86	309.08	76.11	588.27	42.81	183.02	305.15
23196	-4.47	-14.90	-10.50	91.34	35.10	583.50	30.10	313.52	307.60	307.86	73.88	582.25	37.64	189.17	307.89
23197	-5.71	-14.67	-10.50	103.11	34.80	588.06	38.58	315.36	310.87	305.97	70.93	573.89	37.22	195.08	311.18
23198	-6.91	-14.40	-10.50	113.52	34.45	593.37	46.83	317.31	314.55	302					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
23227	-15.37	-10.42	-10.50	108.64	39.85	602.68	75.26	299.39	324.07	207.03	36.03	418.66	76.71	189.01	324.59
23228	-14.91	-11.34	-10.50	106.10	37.14	598.53	73.42	288.72	319.57	204.66	35.42	428.90	74.99	179.40	319.97
23229	-14.78	-9.40	-10.50	130.15	42.94	614.26	79.07	328.47	338.00	246.62	37.71	426.73	78.11	215.66	338.58
23230	-14.55	-10.21	-10.50	125.05	40.24	610.76	78.03	317.65	332.25	239.05	36.79	433.43	77.31	205.57	332.82
23231	-14.30	-11.00	-10.50	120.79	37.56	607.66	76.50	306.84	327.23	233.20	36.36	440.22	76.03	195.59	327.75
23232	-12.93	-14.37	-10.50	92.89	37.76	599.50	60.79	263.68	296.83	193.39	45.02	480.37	62.02	158.12	296.59
23233	-12.65	-13.39	-10.50	109.41	33.68	610.08	66.90	286.54	315.68	225.31	42.86	483.41	65.61	177.22	316.04
23234	-12.36	-12.43	-10.50	124.52	34.03	612.68	72.02	308.45	327.63	254.74	44.23	480.99	68.83	197.46	328.13
23235	-13.86	-13.54	-10.50	93.18	37.31	592.36	63.87	261.78	302.16	188.01	41.43	455.48	66.53	156.52	302.02
23236	-13.48	-12.78	-10.50	108.41	34.23	604.92	69.10	284.28	317.01	217.50	39.46	462.74	69.10	175.17	317.36
23237	-13.10	-12.03	-10.50	122.46	34.63	610.86	73.39	305.01	327.15	244.85	40.59	465.85	71.32	194.19	327.65
23238	-14.74	-12.66	-10.50	92.52	37.23	586.24	67.20	263.04	305.56	181.58	38.17	433.08	71.05	158.00	305.50
23239	-14.28	-12.13	-10.50	106.26	35.35	599.69	71.24	283.83	317.27	208.62	36.59	443.56	72.41	174.90	317.61
23240	-13.81	-11.61	-10.50	119.11	35.54	607.91	74.29	301.93	326.02	233.88	37.53	451.06	73.26	191.12	326.51
23241	-17.76	-9.62	-9.50	47.45	45.60	509.05	53.33	210.83	283.78	88.02	46.14	325.19	59.35	108.57	283.71
23242	-17.06	-10.82	-9.50	53.02	45.47	506.63	54.57	214.22	277.74	97.63	44.80	339.66	61.41	111.52	277.52
23243	-16.27	-11.98	-9.50	57.37	46.55	506.89	54.18	215.29	272.12	106.37	45.13	356.00	61.34	112.17	271.73
23244	-15.40	-13.08	-9.50	60.13	48.97	510.01	52.18	216.21	266.48	113.29	47.86	374.28	58.96	112.75	265.87
23245	-14.46	-14.11	-9.50	61.90	52.03	515.29	49.68	218.74	259.95	118.42	52.09	394.78	55.44	114.76	259.05
23246	-13.44	-15.08	-9.50	63.85	54.55	521.69	47.32	223.59	251.89	122.61	56.22	417.41	51.72	118.50	250.64
23247	-12.37	-15.98	-9.50	66.59	55.89	528.36	45.07	229.91	241.71	126.53	59.24	441.29	47.98	122.84	240.03
23248	-11.23	-16.80	-9.50	70.17	55.59	534.71	42.56	236.71	229.67	130.64	60.54	465.05	44.06	126.57	227.56
23249	-10.04	-17.54	-9.50	74.24	53.98	540.36	39.37	243.24	216.77	134.91	60.43	487.44	39.55	129.11	214.31
23250	-8.80	-18.19	-9.50	78.27	51.56	545.23	35.35	249.05	203.87	139.13	59.36	507.71	34.48	130.28	201.20
23251	-7.52	-18.76	-9.50	81.88	48.79	549.33	30.62	254.03	191.67	143.09	57.68	525.48	29.16	130.23	189.02
23252	-6.20	-19.23	-9.50	84.84	45.99	552.73	25.34	258.17	180.70	146.66	55.62	540.54	24.21	129.20	178.31
23253	-4.86	-19.62	-9.50	87.04	43.41	555.48	19.66	261.50	171.41	149.79	53.34	552.81	20.73	127.55	169.52
23254	-3.49	-19.90	-9.50	88.44	41.24	557.61	13.78	264.12	164.22	152.55	50.93	562.20	20.21	125.69	163.00
23255	-2.10	-20.10	-9.50	89.04	39.65	559.07	7.99	266.05	159.44	155.06	48.57	568.55	23.29	123.98	158.93
23256	-0.70	-20.20	-9.50	88.72	38.89	559.79	3.22	267.15	157.14	157.45	46.49	571.67	28.86	122.72	157.24
23257	-18.68	-9.66	-9.50	42.14	51.80	457.31	47.51	175.23	270.72	60.47	52.87	299.95	55.32	100.52	269.45
23258	-17.95	-10.95	-9.50	47.04	51.60	457.59	49.68	182.85	264.04	70.99	51.18	311.85	58.62	105.29	262.44
23259	-17.14	-12.19	-9.50	51.30	52.45	459.69	50.22	187.50	257.05	80.76	50.67	326.26	59.78	107.58	255.10
23260	-16.24	-13.37	-9.50	54.55	54.35	464.05	49.12	191.17	249.44	88.90	52.04	342.51	58.49	109.27	247.07
23261	-15.26	-14.48	-9.50	57.18	56.75	470.22	47.37	195.96	241.04	95.24	54.97	360.67	55.69	111.96	238.12
23262	-14.20	-15.53	-9.50	60.24	58.66	477.40	45.87	202.78	231.25	100.47	58.10	380.92	52.58	115.92	227.65
23263	-13.07	-16.49	-9.50	64.55	59.22	484.81	44.75	211.15	219.48	105.51	60.13	402.76	49.68	120.18	215.13
23264	-11.88	-17.37	-9.50	70.19	58.05	491.83	43.46	219.92	205.83	111.00	60.39	424.94	46.73	123.52	200.77
23265	-10.62	-18.17	-9.50	76.66	55.40	498.07	41.38	228.21	191.09	117.03	59.05	446.23	43.22	125.23	185.51
23266	-9.32	-18.87	-9.50	83.19	51.88	503.42	38.20	235.52	176.13	123.29	56.67	465.74	38.84	125.23	170.34
23267	-7.96	-19.48	-9.50	89.20	48.04	507.91	33.93	241.68	161.68	129.39	53.73	483.04	33.66	123.74	156.09
23268	-6.57	-19.99	-9.50	94.32	44.28	511.66	28.71	246.69	148.37	135.02	50.57	497.90	27.97	121.18	143.44
23269	-5.14	-20.41	-9.50	98.34	40.88	514.79	22.75	250.62	136.80	140.00	47.40	510.27	22.38	118.09	132.96
23270	-3.69	-20.72	-9.50	101.24	38.05	517.39	16.31	253.64	127.65	144.32	44.35	520.13	18.24	115.08	125.21
23271	-2.22	-20.93	-9.50	102.96	35.97	519.44	9.83	255.85	121.53	148.05	41.61	527.31	17.77	112.78	120.51
23272	-0.74	-21.03	-9.50	103.28	34.97	520.63	4.51	257.16	118.61	151.20	39.50	531.37	21.56	111.70	118.71
23273	-19.60	-9.70	-9.50	38.64	58.76	389.57	41.94	142.62	256.67	40.32	60.00	291.51	49.84	103.83	254.07
23274	-18.85	-11.08	-9.50	42.94	58.34	394.53	45.16	153.96	249.55	50.12	58.20	295.55	54.36	109.49	246.27
23275	-18.01	-12.41	-9.50	47.02	58.56	400.04	46.82	162.24	241.28	59.76	56.85	303.76	56.83	112.97	237.25
23276	-17.08	-13.67	-9.50	50.65	59.25	406.42	46.88	169.01	231.72	68.17	56.46	314.59	56.84	115.66	226.82
23277	-16.06	-14.85	-9.50	54.17	60.13	413.70	46.28	176.32	221.39	75.15	57.21	327.39	55.18	118.90	215.41
23278	-14.95	-15.97	-9.50	58.59	60.62	421.55	46.04	185.22	210.06	81.29	58.42	342.47	53.15	122.80	202.78
23279	-13.77	-17.00	-9.50	64.74	59.88	429.49	46.28	195.34	197.09	87.62	58.84	359.73	51.47	126.36	188.41
23280	-12.52	-17.94	-9.50	72.61	57.45	437.00	46.30	205.60	182.35	94.90	57.64	378.22	49.86	128.37	172.37
23281	-11.20	-18.79	-9.50	81.49	53.54	443.72	45.29	215.06	166.35	103.16	54.84	396.70	47.61	128.14	155.44
23282	-9.83	-19.55	-9.50	90.42	48.73	449.50	42.79	223.24	149.83	111.90	50.98	414.17	44.16	125.64	138.56
23283	-8.41	-20.20	-9.50	98.63	43.64	454.37	38.75	229.99	133.46	120.48	46.64	430.03	39.38	121.28	122.56
23284	-6.94	-20.76	-9.50	105.67	38.77	458.47	33.34	235.35	117.84	128.41	42.28	444.00	33.35	115.67	108.17
23285	-5.43	-21.20	-9.50	111.30	34.45	462.02	26.79	239.45	103.66	135.39	38.19	456.05	26.41	109.62	96.06
23286	-3.90	-21.54	-9.50	115.53	30.89	465.24	19.47	242.50	91.85	141.35	34.54	466.26	19.26	104.04	86.95
23287	-2.35	-21.76	-9.50	118.33	28.36	468.12	11.96	244.71	83.51	146.35	31.57	474.45	13.96	99.95	81.40
23288	-0.78	-21.87	-9.50	119.29	27.19	469.93	5.59	246.04	79.27	150.22	29.60	479.71	14.17	98.34	79.26
23289	-20.51	-9.75	-9.50	32.42	66.24	313.26	37.80	119.52	242.13	27.84	66.75	324.56	43.32	110.29	239.10
23290	-19.75	-11.21	-9.50	37.25	65.44	323.08	42.25	132.93	234.77	35.89	65.13	312.69	48.86	117.92	230.70
23291	-18.89	-12.62	-9.50	42.09	64.54	332.56	45.21	143.92	225.47	44.44	62.97	307.03	52.61	123.39	219.99
23292	-17.92	-13.96	-9.50	46.78	63.28	341.39	46.67	153.27	214.25	52.43	60.57	306.23	54.08	127.67	207.08
23293	-16.86	-15.22	-9.50	51.77	61.83	349.95	47.49	162.71	202.32	59.58	58.50	308.52	53.90	131.89	193.16
23294	-15.71	-16.41	-9.50	58.08	60.19	358.50	48.67	173.21	189.92	66.59	57.00	313.81	53.40	136.07	178.43
23295	-14.48	-17.51	-9.50	66.47	57.73	366.97	50.28	184.40	176.40	74.55	55.27	322.38	53.32	139.07	162.36
23296	-13.17	-18.52	-9.50	76.78	53.85	375.01	51.45	195.27	161.37	84.10	52.36	333.71	53.31	139.64	144.89</

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
23325	-14.46	-14.11	-10.50	77.40	43.33	569.02	59.13	237.98	284.35	155.71	45.77	436.83	65.03	140.32	283.22
23326	-13.44	-15.08	-10.50	77.24	45.16	577.07	55.56	240.82	275.49	160.44	49.79	462.96	59.92	142.62	274.02
23327	-12.37	-15.98	-10.50	76.88	45.52	585.26	52.28	245.97	263.45	164.35	52.20	490.38	54.95	146.49	261.58
23328	-11.23	-16.80	-10.50	76.57	43.82	592.68	48.55	251.94	249.07	167.98	52.55	517.09	49.61	150.15	246.83
23329	-10.04	-17.54	-10.50	76.27	40.74	598.93	43.90	257.74	234.04	171.38	51.63	541.62	43.50	152.77	231.54
23330	-8.80	-18.19	-10.50	75.76	37.10	604.07	38.40	262.93	219.46	174.46	50.13	563.35	36.98	154.17	216.87
23331	-7.52	-18.76	-10.50	74.89	33.40	608.24	32.37	267.42	206.02	177.15	48.32	582.07	30.92	154.47	203.54
23332	-6.20	-19.23	-10.50	73.66	29.89	611.58	26.10	271.17	194.12	179.46	46.23	597.72	26.63	153.92	191.97
23333	-4.86	-19.62	-10.50	72.14	26.74	614.18	19.76	274.24	184.12	181.44	43.81	610.25	25.67	152.81	182.49
23334	-3.49	-19.90	-10.50	70.49	24.08	616.06	13.46	276.71	176.38	183.21	41.10	619.60	28.83	151.53	175.37
23335	-2.10	-20.10	-10.50	68.93	22.08	617.20	7.57	278.67	171.26	185.05	38.17	625.64	35.34	150.46	170.84
23336	-0.70	-20.20	-10.50	67.60	21.01	617.60	3.60	279.91	168.86	187.26	35.27	628.25	43.69	149.70	168.87
23337	-18.68	-9.66	-10.50	44.67	52.65	523.02	59.23	204.55	295.53	80.76	56.74	329.53	67.63	126.83	293.89
23338	-17.95	-10.95	-10.50	51.79	50.03	519.80	61.65	209.76	288.45	92.71	52.35	345.01	71.40	130.48	286.50
23339	-17.14	-12.19	-10.50	57.66	48.50	520.08	61.49	210.83	280.69	104.23	49.17	363.59	72.09	129.90	278.46
23340	-16.24	-13.37	-10.50	61.50	48.50	524.21	58.64	210.81	272.10	114.24	48.50	383.84	69.28	128.47	269.55
23341	-15.26	-14.48	-10.50	63.45	50.20	531.15	54.73	212.81	262.96	122.10	50.80	405.83	64.44	129.26	259.89
23342	-14.20	-15.53	-10.50	64.46	52.22	539.64	51.39	218.17	252.03	128.07	54.11	430.14	59.43	133.01	248.25
23343	-13.07	-16.49	-10.50	65.65	52.58	548.35	48.87	226.01	238.27	133.06	55.91	455.98	54.90	138.16	233.70
23344	-11.88	-17.37	-10.50	67.65	50.65	556.30	46.34	234.64	222.16	137.92	55.45	481.58	50.37	142.75	216.90
23345	-10.62	-18.17	-10.50	70.39	47.04	563.07	43.00	242.85	205.05	142.97	53.36	505.48	45.19	145.78	199.32
23346	-9.32	-18.87	-10.50	73.34	42.69	568.65	38.64	250.09	188.07	148.08	50.53	526.89	39.24	147.09	182.24
23347	-7.96	-19.48	-10.50	76.02	38.24	573.18	33.43	256.20	171.99	153.02	47.45	545.51	32.90	146.94	166.47
23348	-6.57	-19.99	-10.50	78.14	34.06	576.84	27.60	261.16	157.33	157.62	44.27	561.25	26.93	145.71	152.56
23349	-5.14	-20.41	-10.50	79.57	30.34	579.81	21.29	265.04	144.64	161.79	41.02	574.13	22.58	143.87	141.02
23350	-3.69	-20.72	-10.50	80.34	27.17	582.22	14.64	268.03	134.64	165.51	37.68	584.16	21.86	142.05	132.40
23351	-2.22	-20.93	-10.50	80.64	24.61	584.05	7.95	270.40	128.11	169.04	34.30	591.25	25.94	140.87	127.19
23352	-0.74	-21.03	-10.50	80.36	23.05	585.12	2.09	272.02	125.35	172.66	31.15	595.02	33.33	140.62	125.32
23353	-19.60	-9.70	-10.50	36.91	59.37	454.73	51.19	162.42	281.56	49.36	65.78	311.41	60.66	114.46	278.53
23354	-18.85	-11.08	-10.50	42.60	57.22	458.34	54.60	173.23	273.63	61.31	61.59	321.54	65.73	121.28	269.89
23355	-18.01	-12.41	-10.50	47.65	55.97	462.98	55.42	179.54	263.45	72.97	58.06	336.47	67.83	123.98	259.00
23356	-17.08	-13.67	-10.50	51.27	55.30	469.28	53.50	184.04	251.59	83.18	55.58	353.16	66.39	125.37	246.32
23357	-16.06	-14.85	-10.50	53.62	55.80	476.94	50.39	189.78	239.59	91.52	55.32	370.81	62.65	128.24	233.25
23358	-14.95	-15.97	-10.50	55.71	56.85	485.51	47.90	198.15	226.73	98.18	56.67	390.37	58.48	133.16	219.00
23359	-13.77	-17.00	-10.50	58.86	56.58	494.24	46.57	208.51	211.73	104.12	57.22	411.85	54.93	138.65	202.48
23360	-12.52	-17.94	-10.50	63.75	54.12	502.31	45.52	219.28	194.58	110.43	55.74	433.97	51.71	142.82	183.95
23361	-11.20	-18.79	-10.50	69.96	49.91	509.30	43.67	229.21	176.17	117.52	52.54	455.31	47.95	144.71	164.58
23362	-9.83	-19.55	-10.50	76.51	44.84	515.13	40.52	237.75	157.45	125.12	48.48	474.92	43.13	144.28	145.53
23363	-8.41	-20.20	-10.50	82.57	39.64	519.92	36.07	244.79	139.10	132.75	44.21	492.33	37.26	141.99	127.64
23364	-6.94	-20.76	-10.50	87.66	34.77	523.84	30.53	250.35	121.66	140.03	40.06	507.37	30.60	138.46	111.54
23365	-5.43	-21.20	-10.50	91.54	30.50	527.20	24.09	254.54	105.75	146.70	36.18	520.10	23.68	134.42	97.85
23366	-3.90	-21.54	-10.50	94.30	26.88	530.34	16.95	257.61	92.43	152.66	32.51	530.76	17.87	130.77	87.40
23367	-2.35	-21.76	-10.50	96.26	23.93	533.44	9.53	260.03	83.33	158.16	29.05	539.43	16.71	128.49	81.20
23368	-0.78	-21.87	-10.50	97.06	22.41	535.94	2.85	261.85	79.36	163.32	26.37	545.30	21.93	128.17	79.18
23369	-20.51	-9.75	-10.50	31.73	66.54	367.37	43.51	132.62	266.64	31.72	74.25	340.82	51.73	116.11	262.99
23370	-19.75	-11.21	-10.50	36.93	64.69	379.78	47.91	146.63	258.26	41.34	70.53	332.39	57.67	124.77	253.42
23371	-18.89	-12.62	-10.50	41.56	62.89	390.79	49.92	156.88	246.24	51.34	66.47	333.23	61.10	129.79	239.79
23372	-17.92	-13.96	-10.50	45.19	60.19	400.32	49.27	165.01	231.60	60.18	61.61	338.94	61.22	133.24	223.35
23373	-16.86	-15.22	-10.50	48.15	57.92	409.14	47.48	173.83	217.27	67.71	57.62	346.47	59.05	137.45	206.94
23374	-15.71	-16.41	-10.50	51.76	56.67	417.88	46.50	184.50	203.15	74.34	55.56	356.22	56.45	142.78	190.36
23375	-14.48	-17.51	-10.50	57.44	54.92	426.55	46.85	196.39	187.84	81.17	53.84	368.76	54.63	147.65	172.32
23376	-13.17	-18.52	-10.50	65.56	51.51	434.68	47.48	208.07	170.82	89.33	50.88	383.46	53.30	150.27	152.71
23377	-11.79	-19.42	-10.50	75.14	46.49	441.87	47.04	218.44	152.49	98.96	46.44	399.03	51.40	149.76	132.37
23378	-10.35	-20.23	-10.50	84.83	40.57	447.96	44.82	227.09	133.51	109.38	41.10	414.31	48.09	146.23	112.34
23379	-8.85	-20.93	-10.50	93.63	34.47	453.01	40.79	234.01	114.39	119.79	35.59	428.59	43.15	140.36	93.42
23380	-7.30	-21.52	-10.50	100.99	28.75	457.22	35.15	239.34	95.50	129.63	30.41	441.52	36.66	133.03	76.18
23381	-5.72	-21.99	-10.50	106.68	23.80	461.00	28.20	243.19	77.17	138.56	25.88	453.18	28.83	125.31	61.13
23382	-4.11	-22.35	-10.50	110.93	19.70	465.01	20.23	245.85	60.20	146.50	22.02	464.08	20.06	118.45	49.05
23383	-2.47	-22.59	-10.50	114.29	16.58	469.84	11.83	247.91	46.57	153.79	18.88	474.65	12.14	113.77	41.31
23384	-0.83	-22.71	-10.50	116.14	15.65	473.58	4.43	249.39	38.44	160.42	17.33	482.67	11.26	112.21	37.77
23385	-21.43	-9.79	-10.50	22.35	74.95	289.14	37.38	117.92	251.46	21.32	81.76	449.55	41.95	117.67	249.76
23386	-20.65	-11.34	-10.50	28.39	72.98	303.12	42.92	132.76	242.51	28.91	78.87	411.87	48.48	129.99	239.47
23387	-19.76	-12.83	-10.50	34.63	69.83	317.24	46.52	145.60	229.26	37.34	74.46	385.81	53.06	139.03	223.48
23388	-18.76	-14.25	-10.50	39.90	64.08	328.83	47.60	155.86	212.63	44.80	67.44	370.65	54.71	145.03	203.61
23389	-17.66	-15.59	-10.50	44.85	58.01	338.32	47.44	166.26	196.77	51.41	59.72	360.38	54.28	150.69	184.40
23390	-16.47	-16.85	-10.50	51.24	53.63	347.13	48.14	177.89	182.29	58.29	53.74	353.21	53.64	156.43	166.23
23391	-15.18	-18.02	-10.50	60.42	50.05	355.83	50.14	189.96	167.65	66.87	49.26	349.89	53.95	160.56	147.44
23392	-13.81	-19.09	-10.50	72.11	45.74	364.15	52.15	201.11	151.87	77.83	44.75	350.68	54.75	161.31	127.41
23393	-12.37	-20.05	-10.50	84.86	40.16	371.64	52.62	210.51	134.90	90.55	39.34	354.80	54.70	157.99	106.72
23394	-10.86	-20.91	-10.50	97.18	33.66	378.09	50.83	218.01	117.17	103.77	33.10	361.06	52.84		



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
23423	8.04	-0.55	-11.67	207.72	79.96	419.84	83.84	408.24	370.55	1005.72	233.10	323.12	85.32	211.95	370.58
23424	9.27	-0.55	-11.67	230.58	83.06	450.18	90.90	408.51	371.82	1073.82	239.36	323.08	92.54	229.12	371.84
23425	10.51	-0.55	-11.67	253.01	85.97	482.78	96.00	408.67	373.03	1143.78	242.36	325.25	97.79	258.23	373.06
23426	11.75	-0.55	-11.67	274.41	88.73	517.36	99.00	408.71	374.05	1214.43	240.66	331.13	100.91	302.27	374.08
23427	12.98	-0.55	-11.67	294.07	91.46	553.77	99.83	408.50	374.84	1285.16	232.31	342.89	101.79	364.21	374.85
23428	14.22	-0.55	-11.67	311.09	94.38	591.96	98.48	407.67	375.54	1356.96	214.80	363.31	100.37	446.41	375.55
23429	15.46	-0.55	-11.67	324.34	97.74	631.82	94.73	405.17	376.71	1434.02	184.93	395.16	96.37	549.46	376.72
23430	16.69	-0.55	-11.67	332.73	101.55	672.37	87.75	398.38	379.50	1526.31	139.55	438.79	88.94	670.06	379.50
23431	17.93	-0.55	-11.67	336.79	105.37	708.58	74.93	381.38	385.18	1651.72	84.47	484.74	75.55	798.27	385.18
23432	19.17	-0.55	-11.67	343.06	108.65	726.19	52.18	346.55	394.12	1832.87	107.39	499.43	52.25	921.01	394.12
23433	0.62	0.55	-11.67	103.67	64.22	313.18	14.51	405.00	368.32	686.56	169.06	334.67	16.24	234.90	368.33
23434	1.85	0.55	-11.67	111.18	65.80	319.09	28.01	405.62	367.74	727.00	180.97	332.66	29.27	223.93	367.76
23435	3.09	0.55	-11.67	124.72	67.96	330.48	41.04	406.24	367.59	772.65	192.65	330.55	42.20	214.28	367.60
23436	4.33	0.55	-11.67	142.51	70.60	346.87	53.39	406.85	367.84	823.60	203.99	328.39	54.57	206.89	367.86
23437	5.56	0.55	-11.67	162.99	73.57	367.64	64.83	407.40	368.47	879.73	214.76	326.27	66.09	202.95	368.49
23438	6.80	0.55	-11.67	185.00	76.74	392.17	75.08	407.87	369.41	940.66	224.64	324.40	76.47	204.01	369.44
23439	8.04	0.55	-11.67	207.75	79.95	419.85	83.88	408.25	370.59	1005.67	233.10	323.13	85.42	211.96	370.62
23440	9.27	0.55	-11.67	230.61	83.06	450.20	90.94	408.52	371.86	1073.77	239.37	323.09	92.64	229.14	371.89
23441	10.51	0.55	-11.67	253.03	85.99	482.79	96.03	408.68	373.08	1143.74	242.37	325.26	97.89	258.24	373.11
23442	11.75	0.55	-11.67	274.42	88.75	517.37	99.02	408.72	374.11	1214.40	240.67	331.15	101.00	302.28	374.13
23443	12.98	0.55	-11.67	294.08	91.48	553.77	99.84	408.51	374.89	1285.15	232.32	342.90	101.88	364.22	374.91
23444	14.22	0.55	-11.67	311.10	94.41	591.97	98.48	407.68	375.59	1356.95	214.81	363.31	100.44	446.42	375.61
23445	15.46	0.55	-11.67	324.34	97.77	631.82	94.72	405.18	376.76	1434.02	184.94	395.16	96.42	549.47	376.76
23446	16.69	0.55	-11.67	332.73	101.57	672.37	87.73	398.39	379.54	1526.31	139.56	438.80	88.98	670.08	379.54
23447	17.93	0.55	-11.67	336.79	105.39	708.58	74.91	381.40	385.21	1651.73	84.50	484.74	75.57	798.28	385.21
23448	19.17	0.55	-11.67	343.06	108.66	726.18	52.16	346.56	394.13	1832.88	107.40	499.43	52.24	921.03	394.14
23449	0.62	1.65	-11.67	103.76	64.12	318.13	14.43	406.10	360.87	682.51	168.21	339.31	25.21	236.88	360.95
23450	1.85	1.65	-11.67	111.24	65.66	323.94	27.91	406.73	360.35	722.17	179.96	337.34	36.90	226.06	360.46
23451	3.08	1.65	-11.67	124.73	67.78	335.15	40.95	407.37	360.27	766.95	191.47	335.29	49.63	216.57	360.41
23452	4.31	1.65	-11.67	142.44	70.35	351.29	53.33	408.00	360.62	816.95	202.64	333.21	62.38	209.31	360.80
23453	5.55	1.65	-11.67	162.78	73.28	371.79	64.81	408.57	361.39	872.09	213.28	331.19	74.64	205.46	361.60
23454	6.78	1.65	-11.67	184.62	76.43	396.01	75.14	409.06	362.52	932.01	223.09	329.41	86.04	206.55	362.76
23455	8.01	1.65	-11.67	207.12	79.67	423.38	84.02	409.43	363.92	996.07	231.58	328.23	96.18	214.42	364.19
23456	9.25	1.65	-11.67	229.68	82.85	453.38	91.15	409.66	365.46	1063.34	238.00	328.24	104.67	231.38	365.73
23457	10.48	1.65	-11.67	251.78	85.86	485.60	96.27	409.75	366.94	1132.71	241.34	330.36	111.12	260.12	367.20
23458	11.71	1.65	-11.67	272.86	88.66	519.74	99.22	409.70	368.19	1203.11	240.20	336.01	115.17	303.64	368.41
23459	12.94	1.65	-11.67	292.25	91.36	555.66	99.95	409.40	369.10	1274.10	232.72	347.25	116.47	364.94	369.26
23460	14.18	1.65	-11.67	309.07	94.13	593.31	98.50	408.51	369.75	1346.81	216.38	366.79	114.63	446.45	369.85
23461	15.41	1.65	-11.67	322.24	97.23	632.59	94.72	406.03	370.64	1425.53	187.90	397.42	109.05	548.91	370.68
23462	16.64	1.65	-11.67	330.69	100.72	672.63	87.87	399.40	372.83	1520.20	143.69	439.72	98.76	669.26	372.83
23463	17.87	1.65	-11.67	334.89	104.22	708.53	75.43	382.72	377.45	1648.72	87.72	484.62	81.57	797.98	377.46
23464	19.11	1.65	-11.67	341.29	107.33	726.17	53.55	348.46	384.72	1834.04	101.87	498.90	54.87	923.36	384.88
23465	0.62	-1.65	-13.00	121.72	79.61	339.40	18.66	397.55	366.04	793.79	188.56	357.59	36.29	285.71	366.08
23466	1.85	-1.65	-13.00	131.91	81.70	344.59	33.08	398.07	365.75	841.77	201.94	356.20	48.31	277.97	365.80
23467	3.08	-1.65	-13.00	149.75	84.59	354.70	47.62	398.70	365.78	896.29	215.23	354.82	62.10	271.17	365.84
23468	4.31	-1.65	-13.00	172.89	88.20	369.35	61.71	399.43	366.14	957.20	228.42	353.42	76.43	266.01	366.22
23469	5.55	-1.65	-13.00	199.43	92.41	388.07	75.05	400.26	366.82	1023.92	241.45	352.04	90.66	263.37	366.92
23470	6.78	-1.65	-13.00	228.01	97.12	410.33	87.36	401.20	367.80	1095.40	254.17	350.70	104.32	264.41	367.92
23471	8.01	-1.65	-13.00	257.73	102.20	435.64	98.35	402.29	369.04	1169.93	266.28	349.45	117.01	270.64	369.17
23472	9.25	-1.65	-13.00	287.96	107.53	463.53	107.74	403.57	370.44	1244.98	277.33	348.40	128.33	283.95	370.58
23473	10.48	-1.65	-13.00	318.20	113.04	493.66	115.29	405.16	371.91	1317.06	286.64	347.74	137.87	306.74	372.05
23474	11.71	-1.65	-13.00	347.93	118.73	525.77	120.93	407.26	373.33	1381.76	293.27	347.80	145.31	341.99	373.47
23475	12.94	-1.65	-13.00	376.53	124.73	559.77	124.78	410.14	374.69	1433.72	296.04	349.16	150.44	393.40	374.81
23476	14.18	-1.65	-13.00	403.10	131.37	595.75	127.18	414.21	376.20	1467.13	293.34	352.86	153.11	465.46	376.30
23477	15.41	-1.65	-13.00	426.17	139.03	634.11	128.59	420.05	378.51	1476.70	283.01	360.64	153.29	563.39	378.61
23478	16.64	-1.65	-13.00	442.95	147.92	675.61	129.41	428.25	383.27	1460.00	261.94	374.84	151.10	692.40	383.36
23479	17.87	-1.65	-13.00	446.92	157.51	720.90	129.51	437.45	395.15	1421.84	225.55	395.91	146.57	853.94	395.25
23480	19.11	-1.65	-13.00	423.41	164.46	760.06	120.59	436.56	417.57	1378.41	166.52	406.37	132.84	1032.82	417.63
23481	0.62	-0.55	-13.00	121.25	79.84	332.52	18.08	387.45	376.95	798.13	189.27	351.06	22.28	275.02	376.96
23482	1.85	-0.55	-13.00	131.53	81.94	337.84	32.76	387.97	376.63	847.06	202.78	349.65	35.81	267.18	376.64
23483	3.09	-0.55	-13.00	149.48	84.87	348.19	47.37	388.59	376.62	902.65	216.23	348.22	50.02	260.29	376.63
23484	4.33	-0.55	-13.00	172.75	88.50	363.16	61.44	389.31	376.91	964.71	229.56	346.78	63.99	255.03	376.92
23485	5.56	-0.55	-13.00	199.43	92.73	382.26	74.72	390.14	377.49	1032.65	242.71	345.34	77.31	252.33	377.50
23486	6.80	-0.55	-13.00	228.20	97.40	404.92	86.93	391.08	378.34	1105.37	255.47	343.93	89.66	253.36	378.35
23487	8.04	-0.55	-13.00	258.17	102.40	430.64	97.81	392.17	379.40	1181.05	267.53	342.61	100.74	259.65	379.41
23488	9.27	-0.55	-13.00	288.71	107.59	458.97	107.10	393.48	380.60	1257.06	278.40	341.50	110.27	273.12	380.61
23489	10.51	-0.55	-13.00	319.29	112.95	489.54	114.62	395.14	381.85	1329.80	287.34	340.79	118.04	296.18	381.86
23490	11.75	-0.55	-13.00	349.38	118.54	522.11	120.32	397.32	383.09	1394.67	293.41	340.85	123.96	331.84	383.10
23491	12.98	-0.55	-13.00	378.31	124.55	556.58	124.31	400.29							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
23521	10.48	1.65	-13.00	318.29	113.21	493.68	115.44	405.19	372.04	1316.94	286.72	347.76	138.23	306.76	372.19
23522	11.71	1.65	-13.00	348.00	118.92	525.78	121.04	407.28	373.47	1381.67	293.36	347.81	145.66	342.01	373.61
23523	12.94	1.65	-13.00	376.58	124.95	559.78	124.86	410.16	374.83	1433.66	296.13	349.17	150.76	393.42	374.95
23524	14.18	1.65	-13.00	403.13	131.58	595.75	127.22	414.23	376.32	1467.10	293.43	352.88	153.40	465.48	376.43
23525	15.41	1.65	-13.00	426.18	139.22	634.11	128.59	420.08	378.62	1476.69	283.10	360.66	153.54	563.42	378.71
23526	16.64	1.65	-13.00	442.94	148.09	675.61	129.39	428.29	383.36	1460.01	262.03	374.85	151.30	692.43	383.44
23527	17.87	1.65	-13.00	446.89	157.66	720.89	129.48	437.48	395.22	1421.88	225.65	395.91	146.72	853.98	395.31
23528	19.11	1.65	-13.00	423.37	164.58	760.06	120.55	436.59	417.61	1378.46	166.64	406.37	132.95	1032.86	417.67
23529	0.62	-1.65	-14.33	141.21	129.32	357.80	61.53	377.69	368.97	897.64	223.83	374.12	86.91	336.79	368.97
23530	1.85	-1.65	-14.33	154.09	131.36	362.55	68.82	377.91	368.86	954.99	237.10	373.04	96.29	333.67	368.86
23531	3.08	-1.65	-14.33	176.31	134.50	371.88	78.90	378.19	368.86	1021.01	250.67	371.98	108.15	330.87	368.87
23532	4.31	-1.65	-14.33	205.06	138.70	385.45	90.53	378.55	369.00	1095.46	264.60	370.95	121.65	328.67	369.01
23533	5.55	-1.65	-14.33	238.10	143.90	402.84	102.76	378.98	369.26	1177.53	278.94	369.94	136.08	327.41	369.27
23534	6.78	-1.65	-14.33	273.97	150.02	423.60	114.95	379.51	369.64	1265.72	293.68	368.96	150.86	327.56	369.66
23535	8.01	-1.65	-14.33	311.71	156.95	447.25	126.58	380.15	370.13	1357.46	308.77	368.00	165.46	329.73	370.15
23536	9.25	-1.65	-14.33	350.74	164.58	473.39	137.26	380.96	370.71	1448.85	324.04	367.07	179.40	334.73	370.73
23537	10.48	-1.65	-14.33	390.69	172.78	501.65	146.72	382.01	371.33	1534.21	339.18	366.18	192.19	343.62	371.35
23538	11.71	-1.65	-14.33	431.37	181.50	531.74	154.91	383.41	371.97	1605.54	353.80	365.33	203.45	357.78	371.99
23539	12.94	-1.65	-14.33	472.71	190.85	563.43	162.03	385.39	372.63	1651.91	367.42	364.55	212.88	379.12	372.65
23540	14.18	-1.65	-14.33	514.92	201.25	596.63	168.59	388.29	373.44	1658.50	379.64	363.89	220.43	410.32	373.46
23541	15.41	-1.65	-14.33	558.81	213.46	631.38	175.52	392.79	374.71	1605.52	390.28	363.41	226.49	455.26	374.74
23542	16.64	-1.65	-14.33	606.65	228.47	668.15	184.45	400.51	377.34	1466.86	399.73	363.20	232.54	519.70	377.38
23543	17.87	-1.65	-14.33	663.68	248.32	708.42	199.72	415.49	383.50	1209.65	410.00	363.24	243.41	611.63	383.59
23544	19.11	-1.65	-14.33	736.93	278.08	752.92	234.10	445.57	419.21	800.78	425.34	363.03	272.17	737.18	419.35
23545	0.62	-0.55	-14.33	138.51	100.68	351.35	24.85	339.71	350.17	902.04	209.04	367.95	31.11	298.59	350.18
23546	1.85	-0.55	-14.33	151.65	103.23	356.23	39.36	339.92	350.06	960.49	223.31	366.84	44.43	295.42	350.06
23547	3.09	-0.55	-14.33	174.22	106.81	365.77	54.78	340.20	350.06	1027.78	237.66	365.76	59.30	292.58	350.06
23548	4.33	-0.55	-14.33	203.32	111.33	379.63	70.09	340.55	350.17	1103.61	252.15	364.71	74.43	290.34	350.18
23549	5.56	-0.55	-14.33	236.69	116.67	397.38	84.85	340.98	350.40	1187.18	266.82	363.67	89.22	289.05	350.40
23550	6.80	-0.55	-14.33	272.89	122.74	418.52	98.78	341.50	350.73	1276.87	281.69	362.66	103.33	289.18	350.73
23551	8.04	-0.55	-14.33	310.99	129.44	442.58	111.62	342.15	351.15	1370.05	296.67	361.68	116.44	291.37	351.16
23552	9.27	-0.55	-14.33	350.42	136.71	469.13	123.17	342.96	351.64	1462.64	311.59	360.72	128.33	296.43	351.65
23553	10.51	-0.55	-14.33	390.82	144.57	497.80	133.29	344.03	352.18	1548.77	326.17	359.80	138.83	305.41	352.18
23554	11.75	-0.55	-14.33	431.97	153.15	528.29	142.03	345.47	352.74	1620.23	339.98	358.93	147.91	319.73	352.74
23555	12.98	-0.55	-14.33	473.78	162.79	560.38	149.62	347.48	353.37	1665.78	352.53	358.13	155.73	341.28	353.37
23556	14.22	-0.55	-14.33	516.43	173.99	593.97	156.57	350.42	354.19	1670.35	363.38	357.47	162.73	372.72	354.20
23557	15.46	-0.55	-14.33	560.63	187.54	629.12	163.83	354.98	355.58	1613.98	372.44	357.00	169.79	417.93	355.58
23558	16.69	-0.55	-14.33	608.22	204.60	666.28	173.24	362.65	358.54	1470.96	380.65	356.80	178.77	482.50	358.54
23559	17.93	-0.55	-14.33	662.47	227.00	706.58	188.68	376.60	365.64	1210.56	390.60	356.82	193.64	573.54	365.66
23560	19.17	-0.55	-14.33	727.57	255.25	750.18	219.86	402.82	400.09	802.93	404.12	356.17	224.09	695.17	400.11
23561	0.62	0.55	-14.33	138.51	100.71	351.35	24.89	339.71	350.18	901.95	209.05	367.95	31.15	298.59	350.18
23562	1.85	0.55	-14.33	151.67	103.30	356.23	39.44	339.92	350.06	960.41	223.34	366.84	44.52	295.42	350.07
23563	3.09	0.55	-14.33	174.26	106.93	365.77	54.88	340.20	350.06	1027.69	237.71	365.76	59.43	292.58	350.07
23564	4.33	0.55	-14.33	203.36	111.49	379.64	70.20	340.55	350.18	1103.53	252.22	364.71	74.58	290.34	350.18
23565	5.56	0.55	-14.33	236.75	116.88	397.38	84.97	340.98	350.41	1187.10	266.91	363.67	89.40	289.05	350.41
23566	6.80	0.55	-14.33	272.94	122.99	418.52	98.90	341.50	350.74	1276.81	281.80	362.66	103.52	289.19	350.75
23567	8.04	0.55	-14.33	311.04	129.73	442.58	111.74	342.15	351.17	1369.98	296.80	361.68	116.65	291.38	351.17
23568	9.27	0.55	-14.33	350.47	137.03	469.13	123.28	342.97	351.66	1462.58	311.74	360.72	128.54	296.43	351.66
23569	10.51	0.55	-14.33	390.86	144.91	497.80	133.40	344.03	352.19	1548.72	326.33	359.80	139.04	305.42	352.20
23570	11.75	0.55	-14.33	432.00	153.51	528.29	142.13	345.47	352.76	1620.19	340.14	358.93	148.12	319.73	352.76
23571	12.98	0.55	-14.33	473.80	163.14	560.38	149.71	347.48	353.38	1665.76	352.70	358.13	155.93	341.28	353.39
23572	14.22	0.55	-14.33	516.44	174.33	593.97	156.65	350.42	354.21	1670.34	363.54	357.47	162.92	372.72	354.21
23573	15.46	0.55	-14.33	560.63	187.84	629.12	163.89	354.98	355.59	1613.98	372.59	357.00	169.96	417.93	355.59
23574	16.69	0.55	-14.33	608.22	204.86	666.28	173.29	362.65	358.55	1470.97	380.79	356.80	178.91	482.50	358.55
23575	17.93	0.55	-14.33	662.45	227.23	706.58	188.72	376.60	365.65	1210.57	390.73	356.82	193.76	573.55	365.66
23576	19.17	0.55	-14.33	727.55	255.45	750.18	219.88	402.82	400.10	802.94	404.26	356.17	224.17	695.17	400.12
23577	0.62	1.65	-14.33	141.20	129.39	357.80	61.59	377.69	368.97	897.37	223.85	374.12	86.96	336.79	368.98
23578	1.85	1.65	-14.33	154.16	131.54	362.55	68.98	377.91	368.87	954.73	237.18	373.04	96.45	333.67	368.87
23579	3.08	1.65	-14.33	176.43	134.79	371.88	79.15	378.20	368.88	1020.75	250.82	371.98	108.40	330.88	368.89
23580	4.31	1.65	-14.33	205.21	139.11	385.45	90.83	378.56	369.02	1095.20	264.82	370.95	121.98	328.68	369.03
23581	5.55	1.65	-14.33	238.27	144.43	402.85	103.10	378.99	369.29	1177.29	279.22	369.94	136.47	327.42	369.30
23582	6.78	1.65	-14.33	274.13	150.67	423.60	115.32	379.52	369.68	1265.49	294.02	368.96	151.30	327.57	369.69
23583	8.01	1.65	-14.33	311.87	157.71	447.26	126.96	380.16	370.18	1357.26	309.17	368.00	165.95	329.74	370.19
23584	9.25	1.65	-14.33	350.88	165.44	473.40	137.63	380.97	370.75	1448.67	324.49	367.07	179.91	334.75	370.77
23585	10.48	1.65	-14.33	390.81	173.71	501.66	147.08	382.01	371.38	1534.06	339.67	366.18	192.71	343.62	371.40
23586	11.71	1.65	-14.33	431.45	182.47	531.74	155.24	383.42	372.02	1605.43	354.31	365.33	203.96	357.79	372.04
23587	12.94	1.65	-14.33	472.76	191.82	563.43	162.32	385.40	372.69	1651.83	367.93	364.55	213.38	379.13	372.71
23588	14.18	1.65	-14.33	514.95	202.17	596.63	168.85	388.30	373.49	1658.46	380.13	363.89	220.90		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
23619	22.73	0.55	-13.00	92.65	121.01	507.90	24.86	189.45	536.99	737.01	331.79	1140.16	28.21	1079.76	537.25
23620	22.67	1.65	-13.00	93.67	128.20	509.35	28.67	202.23	516.35	746.97	314.87	1162.47	46.99	1110.26	520.17
23621	21.83	-1.65	-13.00	220.49	151.83	674.12	52.58	326.59	489.28	1135.92	183.93	509.49	62.54	1302.65	489.76
23622	21.89	-0.55	-13.00	216.71	152.14	669.44	50.07	310.86	509.30	1130.62	190.97	498.89	51.33	1275.02	509.31
23623	21.89	0.55	-13.00	216.70	152.17	669.44	50.09	310.87	509.31	1130.64	190.99	498.90	51.37	1275.03	509.32
23624	21.83	1.65	-13.00	220.46	151.86	674.11	52.57	326.63	489.29	1135.98	183.94	509.51	62.62	1302.70	489.78
23625	20.99	-1.65	-13.00	315.96	162.69	747.26	79.32	386.88	464.11	1281.03	95.71	323.90	87.29	1271.80	464.13
23626	21.05	-0.55	-13.00	312.42	165.73	743.50	78.24	372.74	482.66	1277.57	96.66	315.86	79.35	1251.60	482.66
23627	21.05	0.55	-13.00	312.41	165.77	743.50	78.25	372.75	482.66	1277.59	96.72	315.86	79.38	1251.61	482.66
23628	20.99	1.65	-13.00	315.91	162.75	747.26	79.30	386.92	464.12	1281.09	95.79	323.91	87.35	1271.85	464.15
23629	20.14	-1.65	-13.00	376.05	165.83	772.01	100.80	418.24	441.63	1342.03	104.72	376.28	109.80	1178.57	441.63
23630	20.20	-0.55	-13.00	374.44	169.21	768.73	100.86	405.73	458.23	1338.96	102.32	370.15	102.19	1164.32	458.24
23631	20.20	0.55	-13.00	374.42	169.26	768.73	100.87	405.74	458.24	1338.98	102.39	370.15	102.23	1164.33	458.25
23632	20.14	1.65	-13.00	376.01	165.91	772.00	100.77	418.28	441.66	1342.08	104.84	376.29	109.87	1178.61	441.66
23633	23.52	-1.65	-14.33	343.71	292.60	592.86	194.17	268.30	651.23	321.83	227.93	529.54	207.82	225.31	659.30
23634	23.57	-0.55	-14.33	303.58	185.94	609.09	159.03	222.93	608.68	284.63	115.73	509.57	159.92	177.27	609.69
23635	23.57	0.55	-14.33	303.58	186.12	609.09	159.02	222.93	608.69	284.62	116.03	509.57	159.91	177.27	609.70
23636	23.52	1.65	-14.33	343.71	293.00	592.86	194.16	268.31	651.25	321.82	228.45	529.54	207.82	225.32	659.32
23637	22.67	-1.65	-14.33	555.24	317.40	761.91	201.41	444.17	551.23	535.54	324.22	443.02	241.63	527.50	552.48
23638	22.73	-0.55	-14.33	508.06	277.28	758.48	160.02	381.17	526.80	494.50	291.17	437.21	165.46	462.47	526.98
23639	22.73	0.55	-14.33	508.05	277.42	758.48	160.04	381.18	526.80	494.49	291.31	437.21	165.51	462.48	526.98
23640	22.67	1.65	-14.33	555.22	317.76	761.91	201.48	444.18	551.23	535.51	324.57	443.03	241.74	527.51	552.49
23641	21.83	-1.65	-14.33	651.98	309.50	785.76	195.22	495.46	530.77	318.15	376.04	392.44	243.67	812.62	530.84
23642	21.89	-0.55	-14.33	623.47	288.64	782.62	165.66	436.29	507.48	298.38	360.45	385.10	172.11	751.15	507.48
23643	21.89	0.55	-14.33	623.46	288.78	782.62	165.69	436.29	507.48	298.36	360.56	385.10	172.19	751.16	507.48
23644	21.83	1.65	-14.33	651.95	309.90	785.76	195.33	495.47	530.77	318.11	376.37	392.44	243.84	812.64	530.84
23645	20.99	-1.65	-14.33	708.99	304.48	789.07	205.03	499.98	515.21	67.16	412.79	354.84	251.08	893.40	515.22
23646	21.05	-0.55	-14.33	692.83	281.56	786.51	182.75	446.58	490.68	52.63	394.21	347.07	188.28	838.89	490.68
23647	21.05	0.55	-14.33	692.81	281.72	786.51	182.79	446.59	490.68	52.62	394.33	347.07	188.36	838.90	490.69
23648	20.99	1.65	-14.33	708.95	304.95	789.06	205.15	500.00	515.22	67.14	413.15	354.85	251.29	893.41	515.23
23649	20.14	-1.65	-14.33	760.87	300.16	782.51	238.08	480.07	478.60	381.67	431.14	358.82	276.92	847.85	478.69
23650	20.20	-0.55	-14.33	746.68	274.74	779.44	219.63	431.73	455.53	382.49	409.08	351.36	223.95	799.52	455.55
23651	20.20	0.55	-14.33	746.67	274.92	779.44	219.66	431.73	455.54	382.50	409.21	351.36	224.03	799.53	455.55
23652	20.14	1.65	-14.33	760.82	300.68	782.50	238.18	480.09	478.61	381.70	431.51	358.82	277.13	847.87	478.70
23653	-0.62	-1.65	-11.67	103.62	63.21	317.97	0.96	405.51	361.84	647.95	156.33	341.23	17.74	248.31	361.90
23654	-0.62	-0.55	-11.67	103.46	63.30	313.03	0.81	404.40	369.30	651.16	156.99	336.61	6.37	246.48	369.31
23655	-0.62	0.55	-11.67	103.43	63.31	313.03	0.80	404.40	369.30	651.09	156.98	336.60	6.32	246.47	369.31
23656	-0.62	1.65	-11.67	103.53	63.21	317.97	0.99	405.50	361.84	647.72	156.29	341.22	17.68	248.30	361.90
23657	-1.85	-1.65	-11.67	110.51	62.98	323.48	13.29	404.97	363.25	617.67	144.25	343.09	20.19	259.82	363.29
23658	-1.85	-0.55	-11.67	110.32	63.11	318.63	13.19	403.85	370.69	620.29	144.79	338.48	14.29	258.11	370.70
23659	-1.85	0.55	-11.67	110.28	63.12	318.62	13.17	403.84	370.69	620.22	144.78	338.47	14.22	258.10	370.69
23660	-1.85	1.65	-11.67	110.38	62.99	323.47	13.25	404.96	363.23	617.44	144.22	343.08	20.05	259.80	363.27
23661	-3.08	-1.65	-11.67	122.91	63.48	334.35	27.09	404.50	365.08	591.45	132.07	344.93	30.07	270.99	365.10
23662	-3.09	-0.55	-11.67	122.73	63.66	329.68	26.99	403.35	372.48	593.60	132.52	340.31	27.41	269.38	372.48
23663	-3.09	0.55	-11.67	122.67	63.68	329.67	26.97	403.34	372.47	593.53	132.52	340.30	27.36	269.37	372.47
23664	-3.08	1.65	-11.67	122.76	63.50	334.33	27.03	404.48	365.04	591.23	132.06	344.91	29.92	270.95	365.07
23665	-4.31	-1.65	-11.67	138.90	64.69	350.12	40.62	404.11	367.29	568.83	119.88	346.76	42.14	281.49	367.30
23666	-4.33	-0.55	-11.67	138.74	64.93	345.68	40.51	402.92	374.62	570.58	120.27	342.12	40.73	279.97	374.62
23667	-4.33	0.55	-11.67	138.69	64.94	345.67	40.48	402.91	374.60	570.52	120.27	342.11	40.67	279.96	374.60
23668	-4.31	1.65	-11.67	138.73	64.71	350.10	40.54	404.08	367.24	568.63	119.88	346.74	41.99	281.45	367.25
23669	-5.55	-1.65	-11.67	156.86	66.56	370.19	53.66	403.81	369.86	549.29	107.81	348.59	54.52	291.07	369.86
23670	-5.56	-0.55	-11.67	156.77	66.84	366.02	53.52	402.59	377.07	550.75	108.15	343.91	53.65	289.64	377.07
23671	-5.56	0.55	-11.67	156.72	66.85	366.01	53.49	402.58	377.04	550.69	108.16	343.90	53.60	289.62	377.04
23672	-5.55	1.65	-11.67	156.69	66.57	370.16	53.56	403.77	369.78	549.10	107.82	348.56	54.37	291.02	369.79
23673	-6.78	-1.65	-11.67	175.63	69.00	393.94	65.95	403.64	372.69	532.31	96.08	350.41	66.47	299.50	372.69
23674	-6.80	-0.55	-11.67	175.66	69.26	390.07	65.78	402.41	379.75	533.58	96.38	345.68	65.86	298.15	379.75
23675	-6.80	0.55	-11.67	175.61	69.27	390.06	65.75	402.39	379.71	533.52	96.39	345.67	65.81	298.14	379.71
23676	-6.78	1.65	-11.67	175.47	68.99	393.91	65.85	403.60	372.59	532.13	96.09	350.38	66.32	299.45	372.59
23677	-8.01	-1.65	-11.67	194.39	71.86	420.77	77.24	403.63	375.68	517.33	84.99	352.21	77.55	306.59	375.68
23678	-8.04	-0.55	-11.67	194.60	72.06	417.21	77.03	402.42	382.53	518.52	85.22	347.43	77.08	303.33	382.53
23679	-8.04	0.55	-11.67	194.55	72.06	417.20	76.99	402.41	382.49	518.47	85.23	347.42	77.03	303.32	382.49
23680	-8.01	1.65	-11.67	194.25	71.82	420.74	77.13	403.60	375.56	517.18	84.98	352.17	77.41	306.54	375.56
23681	-9.25	-1.65	-11.67	212.53	74.97	450.14	87.24	403.86	378.66	503.80	74.96	353.95	87.43	312.17	378.66
23682	-9.27	-0.55	-11.67	212.96	75.06	446.90	87.03	402.70	385.27	504.98	75.04	349.13	87.06	311.02	385.27
23683	-9.27	0.55	-11.67	212.92	75.05	446.89	87.00	402.69	385.23	504.94	75.04	349.12	87.02	311.01	385.23
23684	-9.25	1.65	-11.67	212.41	74.89	450.10	87.14	403.83	378.52	503.66	74.91	353.91	87.30	312.12	378.51
23685	-10.48	-1.65	-11.67	229.49	78.15	481.52	95.76	404.38	381.42	491.02	66.47	355.61	95.86	316.08	381.41
23686	-10.51	-0.55	-11.67	230.16	78.12	478.65	95.62	403.31	387.77	492.28	66.31	350.77	95.64	315.06	387.77
23687	-10.51	0.55	-11.67	230.13	78.10	478.64	95.59	403.30	387.72	492.24	66.30				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
23717	-0.62	-1.65	-13.00	120.96	78.42	339.34	8.29	397.16	366.65	752.24	175.09	358.97	28.81	293.90	366.67
23718	-0.62	-0.55	-13.00	120.43	78.64	332.46	6.67	387.05	377.57	755.76	175.68	352.47	13.50	283.31	377.57
23719	-0.62	0.55	-13.00	120.40	78.64	332.46	6.62	387.05	377.57	755.68	175.67	352.47	13.44	283.31	377.57
23720	-0.62	1.65	-13.00	120.88	78.42	339.34	8.24	397.15	366.65	751.98	175.06	358.97	28.74	293.89	366.67
23721	-1.85	-1.65	-13.00	129.54	78.17	344.40	16.62	396.89	367.56	716.82	161.52	360.37	29.65	302.16	367.58
23722	-1.85	-0.55	-13.00	128.99	78.42	337.64	15.70	386.77	378.47	719.64	162.01	353.89	18.96	291.65	378.47
23723	-1.85	0.55	-13.00	128.94	78.42	337.64	15.62	386.77	378.47	719.56	162.00	353.89	18.83	291.65	378.47
23724	-1.85	1.65	-13.00	129.40	78.18	344.40	16.48	396.88	367.55	716.56	161.50	360.36	29.47	302.14	367.57
23725	-3.08	-1.65	-13.00	145.48	78.92	354.37	31.18	396.77	368.79	687.10	147.88	361.79	38.13	310.21	368.80
23726	-3.09	-0.55	-13.00	144.95	79.20	347.84	30.55	386.63	379.66	689.33	148.31	355.33	32.04	299.78	379.66
23727	-3.09	0.55	-13.00	144.89	79.19	347.84	30.48	386.62	379.65	689.25	148.30	355.33	31.92	299.77	379.65
23728	-3.08	1.65	-13.00	145.30	78.93	354.36	31.03	396.75	368.76	686.85	147.87	361.78	37.91	310.19	368.77
23729	-4.31	-1.65	-13.00	166.34	80.67	368.86	46.21	396.81	370.32	662.54	134.27	363.25	50.24	317.83	370.33
23730	-4.33	-0.55	-13.00	165.85	80.97	362.65	45.65	386.65	381.13	664.30	134.64	356.79	46.49	307.47	381.13
23731	-4.33	0.55	-13.00	165.78	80.94	362.65	45.57	386.65	381.12	664.22	134.63	356.79	46.38	307.46	381.12
23732	-4.31	1.65	-13.00	166.14	80.67	368.85	46.06	396.78	370.28	662.30	134.26	363.24	50.01	317.81	370.28
23733	-5.55	-1.65	-13.00	190.16	83.39	387.39	61.01	397.05	372.14	642.57	120.85	364.74	63.54	324.87	372.14
23734	-5.56	-0.55	-13.00	189.74	83.66	381.55	60.43	386.88	382.86	643.97	121.18	358.28	60.95	314.57	382.86
23735	-5.56	0.55	-13.00	189.68	83.62	381.55	60.35	386.87	382.84	643.90	121.16	358.28	60.85	314.56	382.84
23736	-5.55	1.65	-13.00	189.96	83.37	387.38	60.84	397.03	372.08	642.34	120.84	364.73	63.30	324.84	372.08
23737	-6.78	-1.65	-13.00	215.63	87.01	409.44	75.21	397.55	374.21	626.56	107.92	366.27	76.89	331.20	374.21
23738	-6.80	-0.55	-13.00	215.35	87.18	403.99	74.58	387.38	384.79	627.73	108.19	359.80	74.93	320.95	384.79
23739	-6.80	0.55	-13.00	215.29	87.13	403.99	74.50	387.37	384.77	627.66	108.15	359.80	74.83	320.94	384.77
23740	-6.78	1.65	-13.00	215.44	86.95	409.42	75.03	397.52	374.12	626.34	107.89	366.26	76.65	331.16	374.12
23741	-8.01	-1.65	-13.00	241.99	91.41	434.48	88.53	398.39	376.45	613.89	95.93	367.83	89.68	336.70	376.45
23742	-8.04	-0.55	-13.00	241.90	91.41	429.45	87.85	388.23	386.87	614.97	96.06	361.35	88.09	326.52	386.87
23743	-8.04	0.55	-13.00	241.85	91.34	429.45	87.77	388.22	386.84	614.91	96.00	361.34	88.00	326.51	386.84
23744	-8.01	1.65	-13.00	241.81	91.30	434.46	88.35	398.36	376.35	613.70	95.86	367.81	89.46	336.66	376.35
23745	-9.25	-1.65	-13.00	268.77	96.45	462.06	100.71	399.67	378.79	603.96	85.51	369.41	101.51	341.30	378.78
23746	-9.27	-0.55	-13.00	268.96	96.21	457.45	100.02	389.55	389.00	605.07	85.35	362.92	100.20	331.21	389.00
23747	-9.27	0.55	-13.00	268.91	96.12	457.45	99.95	389.55	388.96	605.02	85.26	362.92	100.11	331.20	388.96
23748	-9.25	1.65	-13.00	268.62	96.29	462.04	100.54	399.64	378.67	603.80	85.37	369.39	101.31	341.27	378.66
23749	-10.48	-1.65	-13.00	295.74	101.99	491.75	111.57	401.54	381.07	596.14	77.42	371.01	112.12	345.01	381.07
23750	-10.51	-0.55	-13.00	296.26	101.52	487.58	110.98	391.50	391.06	597.37	76.81	364.52	111.10	335.02	391.06
23751	-10.51	0.55	-13.00	296.22	101.41	487.58	110.91	391.49	391.02	597.32	76.68	364.51	111.02	335.01	391.02
23752	-10.48	1.65	-13.00	295.61	101.79	491.73	111.43	401.51	380.94	595.99	77.19	370.99	111.95	344.97	380.93
23753	-11.71	-1.65	-13.00	322.69	107.96	523.21	121.10	404.17	383.17	589.70	72.45	372.62	121.48	347.90	383.17
23754	-11.75	-0.55	-13.00	323.58	107.35	519.49	120.74	394.24	392.97	591.12	71.36	366.15	120.82	338.02	392.97
23755	-11.75	0.55	-13.00	323.55	107.24	519.48	120.69	394.23	392.93	591.08	71.19	366.15	120.76	338.01	392.93
23756	-11.71	1.65	-13.00	322.59	107.73	523.20	121.00	404.15	383.03	589.59	72.13	372.60	121.35	347.88	383.03
23757	-12.94	-1.65	-13.00	349.32	114.45	556.16	129.55	407.74	385.03	583.80	71.32	374.30	129.79	350.26	385.03
23758	-12.98	-0.55	-13.00	350.59	113.90	552.90	129.56	397.91	394.71	585.43	69.99	367.87	129.61	340.46	394.71
23759	-12.98	0.55	-13.00	350.56	113.78	552.90	129.52	397.90	394.66	585.40	69.81	367.87	129.57	340.45	394.66
23760	-12.94	1.65	-13.00	349.25	114.22	556.15	129.49	407.71	384.89	583.71	70.95	374.28	129.71	350.23	384.89
23761	-14.18	-1.65	-13.00	375.03	121.73	590.47	137.42	412.36	386.77	577.29	74.59	376.16	137.55	352.56	386.77
23762	-14.22	-0.55	-13.00	376.63	121.48	587.68	137.88	402.64	396.45	579.09	73.51	369.81	137.92	342.83	396.45
23763	-14.22	0.55	-13.00	376.62	121.37	587.68	137.86	402.63	396.41	579.06	73.34	369.81	137.89	342.82	396.41
23764	-14.18	1.65	-13.00	374.98	121.52	590.46	137.39	412.34	386.64	577.22	74.24	376.15	137.51	352.54	386.64
23765	-15.41	-1.65	-13.00	398.49	130.19	626.29	145.35	418.11	388.93	568.48	82.54	378.51	145.40	355.67	388.94
23766	-15.46	-0.55	-13.00	400.30	130.49	623.97	146.34	408.44	398.78	570.31	82.22	372.26	146.35	345.93	398.78
23767	-15.46	0.55	-13.00	400.29	130.40	623.97	146.33	408.43	398.75	570.30	82.08	372.26	146.34	345.93	398.75
23768	-15.41	1.65	-13.00	398.46	130.01	626.28	145.36	418.08	388.82	568.43	82.26	378.50	145.40	355.65	388.82
23769	-16.64	-1.65	-13.00	416.76	140.06	664.38	153.97	424.75	392.83	554.39	95.02	382.02	153.95	360.58	392.83
23770	-16.69	-0.55	-13.00	418.37	141.18	662.44	155.56	414.88	403.15	555.83	95.82	375.86	155.55	350.60	403.15
23771	-16.69	0.55	-13.00	418.36	141.10	662.44	155.56	414.87	403.12	555.82	95.73	375.85	155.55	350.60	403.12
23772	-16.64	1.65	-13.00	416.75	139.93	664.38	154.01	424.71	392.73	554.36	94.84	382.01	153.98	360.57	392.73
23773	-17.87	-1.65	-13.00	422.61	150.71	706.18	163.27	429.86	402.47	528.22	110.93	387.88	163.19	366.54	402.47
23774	-17.93	-0.55	-13.00	423.34	152.93	704.04	165.45	419.14	413.73	528.60	113.08	381.50	165.44	355.69	413.73
23775	-17.93	0.55	-13.00	423.34	152.87	704.04	165.46	419.13	413.71	528.60	113.02	381.49	165.44	355.69	413.71
23776	-17.87	1.65	-13.00	422.62	150.61	706.18	163.32	429.82	402.40	528.21	110.82	387.88	163.24	366.52	402.40
23777	-19.11	-1.65	-13.00	399.51	158.49	744.38	164.71	421.37	419.85	474.45	126.18	392.40	164.60	363.20	419.85
23778	-19.17	-0.55	-13.00	399.11	162.04	741.46	167.56	409.42	432.91	473.56	129.84	385.36	167.54	351.18	432.91
23779	-19.17	0.55	-13.00	399.12	161.99	741.47	167.57	409.40	432.89	473.56	129.80	385.36	167.54	351.18	432.89
23780	-19.11	1.65	-13.00	399.53	158.42	744.39	164.77	421.33	419.79	474.46	126.14	392.40	164.65	363.20	419.79
23781	-0.62	-1.65	-14.33	139.94	128.40	357.78	58.42	377.54	369.18	848.86	210.83	375.22	80.95	340.06	369.18
23782	-0.62	-0.55	-14.33	137.17	99.23	351.34	15.68	339.55	350.39	852.29	194.78	369.08	23.17	301.90	350.39
23783	-0.62	0.55	-14.33	137.14	99.22	351.34	15.62	339.55	350.39	852.20	194.77	369.08	23.10	301.89	350.39
23784	-0.62	1.65	-14.33	139.85	128.37	357.78	58.36	377.54	369.18	848.58	210.80	375.22	80.87	340.06	369.18
23785	-1.85	-1.65	-14.33	150.23	128.65	362.51	60.34	377.46	369.49	808.27	198.13	376.36			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
23815	-10.51	0.55	-14.33	363.34	129.04	497.36	125.88	342.60	355.40	701.27	95.18	379.23	126.12	322.91	355.40
23816	-10.48	1.65	-14.33	363.65	161.69	501.22	139.41	380.58	374.50	700.42	136.23	385.23	141.83	360.86	374.50
23817	-11.71	-1.65	-14.33	402.95	171.18	531.15	151.48	382.19	375.43	702.30	137.07	386.63	153.20	362.36	375.43
23818	-11.75	-0.55	-14.33	403.06	138.15	527.69	138.79	344.25	356.22	703.32	92.41	380.65	138.97	324.45	356.22
23819	-11.75	0.55	-14.33	403.03	137.76	527.69	138.70	344.24	356.20	703.27	91.84	380.65	138.85	324.44	356.20
23820	-11.71	1.65	-14.33	402.83	170.17	531.15	151.14	382.18	375.38	702.15	135.81	386.63	152.80	362.35	375.37
23821	-12.94	-1.65	-14.33	444.79	180.50	562.59	162.86	384.41	376.27	706.74	139.51	388.08	163.93	363.85	376.27
23822	-12.98	-0.55	-14.33	445.49	148.42	559.52	151.23	346.52	357.01	708.11	94.07	382.13	151.34	325.97	357.01
23823	-12.98	0.55	-14.33	445.46	148.05	559.52	151.15	346.51	357.00	708.07	93.48	382.13	151.24	325.96	357.00
23824	-12.94	1.65	-14.33	444.71	179.50	562.59	162.57	384.40	376.22	706.63	138.21	388.07	163.58	363.84	376.22
23825	-14.18	-1.65	-14.33	490.22	191.09	595.36	174.56	387.51	377.16	713.99	144.98	389.61	175.07	365.73	377.16
23826	-14.22	-0.55	-14.33	491.53	160.84	592.69	163.96	349.66	357.90	715.72	101.39	383.71	164.01	327.87	357.90
23827	-14.22	0.55	-14.33	491.51	160.50	592.69	163.89	349.66	357.88	715.69	100.85	383.71	163.93	327.87	357.88
23828	-14.18	1.65	-14.33	490.18	190.14	595.36	174.32	387.50	377.11	713.92	143.74	389.61	174.77	365.72	377.11
23829	-15.41	-1.65	-14.33	540.55	203.82	629.46	187.63	391.96	378.36	724.87	154.25	391.36	187.65	368.81	378.35
23830	-15.46	-0.55	-14.33	542.37	176.28	627.17	178.05	354.15	359.17	726.85	114.88	385.50	178.05	330.97	359.17
23831	-15.46	0.55	-14.33	542.37	175.98	627.17	178.00	354.15	359.15	726.83	114.42	385.50	177.99	330.96	359.15
23832	-15.41	1.65	-14.33	540.53	202.98	629.46	187.44	391.95	378.31	724.82	153.15	391.36	187.41	368.80	378.31
23833	-16.64	-1.65	-14.33	597.87	219.89	665.36	203.73	398.99	380.60	741.71	168.56	393.65	203.35	374.89	380.60
23834	-16.69	-0.55	-14.33	599.63	195.99	663.44	195.34	361.08	361.67	743.33	135.16	387.85	195.31	336.93	361.67
23835	-16.69	0.55	-14.33	599.63	195.74	663.44	195.30	361.08	361.66	743.32	134.81	387.85	195.25	336.92	361.66
23836	-16.64	1.65	-14.33	597.88	219.17	665.36	203.59	398.98	380.56	741.69	167.65	393.65	203.16	374.88	380.56
23837	-17.87	-1.65	-14.33	665.89	241.44	704.80	226.88	412.20	385.76	769.45	190.33	397.55	226.21	388.33	385.76
23838	-17.93	-0.55	-14.33	664.93	221.78	702.90	219.30	373.18	367.65	768.06	163.66	391.61	219.24	349.24	367.65
23839	-17.93	0.55	-14.33	664.94	221.57	702.90	219.28	373.17	367.64	768.06	163.40	391.61	219.20	349.24	367.64
23840	-17.87	1.65	-14.33	665.92	240.85	704.80	226.78	412.19	385.73	769.46	189.62	397.55	226.06	388.33	385.72
23841	-19.11	-1.65	-14.33	748.00	273.24	749.31	268.83	439.35	419.24	813.85	225.59	404.20	268.02	417.68	419.24
23842	-19.17	-0.55	-14.33	738.83	253.74	746.50	258.38	396.32	399.69	804.03	200.54	397.44	258.30	374.62	399.69
23843	-19.17	0.55	-14.33	738.84	253.56	746.50	258.36	396.31	399.68	804.03	200.33	397.44	258.27	374.62	399.68
23844	-19.11	1.65	-14.33	748.02	272.72	749.31	268.77	439.33	419.22	813.88	225.03	404.20	267.90	417.68	419.21
23845	-23.52	-1.65	-11.67	3.73	46.24	301.61	13.42	26.26	341.96	2.52	51.90	601.88	13.85	31.99	341.61
23846	-22.67	-1.65	-11.67	13.03	50.80	410.10	32.08	46.14	366.24	5.81	61.76	387.31	32.57	27.46	366.00
23847	-21.83	-1.65	-11.67	22.60	63.91	549.14	57.12	131.24	383.65	43.29	72.64	303.38	57.41	82.00	383.54
23848	-20.99	-1.65	-11.67	74.83	76.77	636.52	77.83	216.25	391.82	111.36	79.67	312.03	78.00	149.78	391.78
23849	-20.14	-1.65	-11.67	128.63	85.78	679.81	94.08	282.73	394.73	182.47	81.95	335.79	94.17	203.38	394.72
23850	-23.57	-0.55	-11.67	3.56	42.57	302.69	11.89	12.16	353.50	1.90	43.26	596.80	11.95	21.33	353.45
23851	-22.73	-0.55	-11.67	10.94	45.10	411.53	31.76	40.07	378.13	3.01	55.46	385.70	31.82	15.34	378.10
23852	-21.89	-0.55	-11.67	22.26	61.48	548.22	57.38	127.66	394.87	42.84	70.46	301.44	57.41	77.84	394.86
23853	-21.05	-0.55	-11.67	74.10	76.72	635.31	78.67	212.83	402.36	110.24	79.86	308.58	78.68	146.27	402.36
23854	-20.20	-0.55	-11.67	127.96	86.83	679.02	95.32	279.86	404.43	181.38	83.19	331.87	95.33	200.46	404.43
23855	-23.57	0.55	-11.67	3.56	42.68	302.71	11.90	12.15	353.49	1.90	43.37	596.82	11.97	21.34	353.43
23856	-22.73	0.55	-11.67	10.94	45.21	411.54	31.78	40.05	378.11	3.00	55.55	385.71	31.84	15.32	378.08
23857	-21.89	0.55	-11.67	22.26	61.54	548.23	57.40	127.64	394.86	42.85	70.52	301.44	57.43	77.82	394.84
23858	-21.05	0.55	-11.67	74.11	76.77	635.32	78.69	212.81	402.34	110.25	79.91	308.58	78.71	146.27	402.34
23859	-20.20	0.55	-11.67	127.97	86.86	679.03	95.34	279.84	404.41	181.39	83.23	331.87	95.35	200.46	404.41
23860	-23.52	1.65	-11.67	3.73	46.47	301.65	13.46	26.25	341.92	2.51	52.12	601.93	13.90	32.00	341.55
23861	-22.67	1.65	-11.67	13.01	51.00	410.16	32.13	46.09	366.19	5.79	61.95	387.35	32.64	27.41	366.95
23862	-21.83	1.65	-11.67	22.61	64.04	549.18	57.19	131.19	383.60	43.30	72.79	303.39	57.49	81.97	383.49
23863	-20.99	1.65	-11.67	74.84	76.85	636.56	77.91	216.20	391.77	111.37	79.78	312.03	78.09	149.76	391.72
23864	-20.14	1.65	-11.67	128.64	85.83	679.84	94.15	282.68	394.67	182.48	82.02	335.79	94.26	203.36	394.66
23865	-23.52	-1.65	-13.00	28.32	72.12	346.11	11.96	28.10	427.00	26.48	77.79	588.10	12.81	28.93	426.39
23866	-22.67	-1.65	-13.00	68.81	114.82	577.18	77.13	160.91	455.80	77.71	113.96	341.12	77.11	146.48	455.64
23867	-21.83	-1.65	-13.00	192.27	142.96	702.12	112.44	284.69	454.04	212.19	133.58	342.57	112.27	257.32	454.01
23868	-20.99	-1.65	-13.00	289.32	156.09	749.52	138.13	353.34	447.00	323.54	138.73	370.36	137.96	313.82	446.99
23869	-20.14	-1.65	-13.00	350.38	160.04	760.87	153.87	393.60	436.04	401.62	135.46	387.47	153.73	343.99	436.04
23870	-23.57	-0.55	-13.00	24.51	47.82	354.96	11.64	10.30	445.57	22.72	51.49	563.79	11.55	12.10	445.49
23871	-22.73	-0.55	-13.00	67.24	106.38	576.56	77.40	146.16	474.07	75.87	105.47	336.45	77.35	131.89	474.05
23872	-21.89	-0.55	-13.00	186.54	144.04	697.93	113.44	267.25	471.86	206.03	134.77	335.69	113.38	240.06	471.85
23873	-21.05	-0.55	-13.00	284.38	160.06	745.83	140.01	338.03	463.73	318.11	142.86	362.88	139.96	298.62	463.73
23874	-20.20	-0.55	-13.00	348.04	164.30	757.42	156.63	380.32	451.25	398.75	139.90	379.97	156.60	330.75	451.25
23875	-23.57	0.55	-13.00	24.51	47.86	354.97	11.65	10.29	445.55	22.72	51.54	563.80	11.55	12.10	445.46
23876	-22.73	0.55	-13.00	67.25	106.38	576.56	77.41	146.15	474.06	75.87	105.49	336.45	77.36	131.89	474.04
23877	-21.89	0.55	-13.00	186.54	144.02	697.94	113.44	267.24	471.84	206.04	134.78	335.69	113.38	240.06	471.84
23878	-21.05	0.55	-13.00	284.39	160.04	745.84	140.02	338.02	463.72	318.12	142.85	362.88	139.96	298.62	463.72
23879	-20.20	0.55	-13.00	348.05	164.27	757.42	156.64	380.31	451.24	398.76	139.88	379.97	156.60	330.74	451.24
23880	-23.52	1.65	-13.00	28.31	72.33	346.13	12.02	28.10	426.95	26.48	78.03	588.12	12.88	28.93	426.32
23881	-22.67	1.65	-13.00	68.83	114.87	577.20	77.18	160.89	455.77	77.73	114.07	341.13	77.16	146.46	455.60
23882	-21.83	1.65	-13.00	192.29	142.97	702.14	112.48	284.66	454.01	212.21	133.65	342.57	112.31	257.31	453.97
23883	-20.99	1.65	-13.00	289.35	156.07	749.54	138.18	353.31	446.96	323.57	138.77	370.36	138.01	313.81</	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
23913	20.06	2.50	-11.67	354.66	109.34	712.14	30.02	308.98	384.85	2058.16	206.31	450.84	29.59	1034.69	386.79
23914	19.98	3.10	-11.67	351.74	108.77	710.41	34.99	307.97	381.25	2053.13	200.90	450.43	34.31	1032.38	385.03
23915	23.44	2.50	-13.00	47.60	101.11	337.40	23.32	57.23	456.71	137.89	285.91	1259.31	59.30	100.28	519.72
23916	23.37	3.10	-13.00	45.68	106.14	339.69	18.68	71.32	451.03	130.23	301.38	1249.46	95.42	122.21	536.76
23917	22.60	2.50	-13.00	95.28	134.17	511.18	35.66	209.74	488.30	759.55	307.27	1170.59	63.66	1132.06	501.44
23918	22.52	3.10	-13.00	97.16	136.58	512.19	39.65	213.41	483.09	765.69	317.11	1158.67	92.17	1139.13	506.96
23919	21.75	2.50	-13.00	224.05	150.17	675.88	54.33	334.56	461.90	1141.60	184.08	513.38	70.18	1318.84	464.71
23920	21.68	3.10	-13.00	224.74	152.73	673.97	57.51	335.37	456.81	1146.36	191.52	509.04	86.25	1319.76	462.98
23921	20.91	2.50	-13.00	318.21	159.55	748.03	79.92	392.50	438.38	1285.89	96.25	327.45	91.97	1280.69	438.83
23922	20.83	3.10	-13.00	317.17	163.19	744.96	82.09	392.31	434.10	1290.93	103.51	326.71	104.66	1278.59	435.41
23923	20.06	2.50	-13.00	375.13	162.53	772.46	100.02	422.83	418.59	1347.69	106.95	378.84	114.39	1182.66	418.58
23924	19.98	3.10	-13.00	373.12	166.48	768.84	101.56	422.36	415.21	1351.84	117.14	377.21	127.18	1178.71	415.32
23925	23.44	2.50	-14.33	427.10	349.61	580.37	221.04	351.06	690.54	399.62	250.46	541.37	239.60	312.47	702.11
23926	23.37	3.10	-14.33	435.06	320.39	578.94	231.91	351.50	685.49	402.01	185.07	534.80	216.27	318.77	694.46
23927	22.60	2.50	-14.33	602.89	292.70	763.88	187.08	538.50	571.58	573.23	296.73	444.33	245.63	625.21	574.41
23928	22.52	3.10	-14.33	603.94	263.15	761.11	175.50	537.74	566.62	562.35	257.65	440.62	168.74	628.25	572.16
23929	21.75	2.50	-14.33	672.16	291.65	786.80	181.93	580.21	553.69	325.17	363.28	396.37	255.02	899.62	554.12
23930	21.68	3.10	-14.33	667.15	266.71	783.29	172.63	576.95	549.78	304.10	339.85	393.38	184.02	897.29	550.70
23931	20.91	2.50	-14.33	719.10	289.87	789.80	196.55	579.69	539.60	75.92	408.61	359.85	269.08	973.57	539.60
23932	20.83	3.10	-14.33	712.13	262.73	785.92	187.77	576.45	535.77	79.12	392.37	357.12	207.47	969.34	535.78
23933	20.06	2.50	-14.33	775.79	289.61	784.46	235.91	552.94	501.34	380.80	433.49	364.13	298.58	919.96	501.41
23934	19.98	3.10	-14.33	766.91	257.43	780.39	227.25	550.34	497.95	399.62	419.35	361.79	250.84	915.39	497.95
23935	19.03	2.50	-11.67	338.69	106.49	725.02	55.82	350.47	378.30	1832.31	96.63	497.20	60.95	923.93	378.94
23936	18.94	3.10	-11.67	335.74	105.89	722.89	58.55	350.72	375.76	1826.76	92.03	494.54	67.67	920.57	377.01
23937	17.80	2.50	-11.67	332.05	103.57	707.58	76.35	383.99	372.65	1643.15	93.50	483.29	91.60	796.42	372.73
23938	17.72	3.10	-11.67	328.91	103.00	705.74	77.54	383.62	371.29	1635.32	99.39	480.67	101.37	792.43	371.48
23939	16.57	2.50	-11.67	327.72	100.48	672.31	88.15	400.36	369.25	1510.85	150.12	439.98	112.98	667.43	369.23
23940	16.50	3.10	-11.67	324.46	100.13	671.25	88.54	399.75	368.83	1499.85	156.04	439.12	125.48	663.58	368.80
23941	15.34	2.50	-11.67	319.24	97.41	633.02	94.74	406.86	367.78	1413.12	192.42	399.55	126.12	547.61	367.84
23942	15.28	3.10	-11.67	316.06	97.40	632.83	94.81	406.23	367.98	1399.36	196.17	400.68	140.12	544.52	368.04
23943	14.12	2.50	-11.67	306.24	94.64	594.53	98.53	409.37	367.24	1332.32	218.87	370.54	132.92	446.06	367.44
23944	14.05	3.10	-11.67	303.28	94.94	595.14	98.60	408.80	367.73	1316.76	220.56	373.28	147.23	444.01	368.00
23945	12.89	2.50	-11.67	289.72	92.01	557.60	100.12	410.35	366.61	1258.55	233.54	352.13	134.74	365.54	366.96
23946	12.83	3.10	-11.67	287.10	92.44	558.92	100.31	409.89	367.10	1242.23	233.67	355.95	148.54	364.58	367.60
23947	11.66	2.50	-11.67	270.72	89.26	522.31	99.51	410.77	365.50	1187.36	239.82	341.53	132.59	305.15	365.98
23948	11.61	3.10	-11.67	268.53	89.63	524.22	99.80	410.46	365.74	1171.10	238.88	345.94	145.39	305.19	366.45
23949	10.43	2.50	-11.67	250.09	86.23	488.70	96.61	410.95	363.89	1117.43	240.14	336.15	127.19	262.38	364.46
23950	10.39	3.10	-11.67	248.37	86.40	491.07	96.91	410.77	363.76	1101.78	238.50	340.80	138.71	263.20	364.62
23951	9.21	2.50	-11.67	228.45	82.94	456.92	91.43	410.95	362.00	1048.97	236.29	334.07	119.13	234.15	362.61
23952	9.17	3.10	-11.67	227.18	82.87	459.68	91.65	410.86	361.47	1034.33	234.25	338.75	129.24	235.52	362.38
23953	7.98	2.50	-11.67	206.29	79.50	427.32	84.19	410.76	360.09	982.88	229.60	333.99	108.97	217.49	360.68
23954	7.94	3.10	-11.67	205.42	79.23	430.39	84.30	410.71	359.18	969.50	227.37	338.58	117.65	219.15	360.08
23955	6.75	2.50	-11.67	184.11	76.07	400.30	75.18	410.40	358.36	920.16	221.04	335.05	97.27	209.71	358.90
23956	6.72	3.10	-11.67	183.54	75.68	403.66	75.19	410.33	357.14	908.17	218.79	339.52	104.60	211.47	357.97
23957	5.52	2.50	-11.67	162.51	72.81	376.41	64.75	409.89	356.96	861.63	211.28	336.69	84.51	208.59	357.44
23958	5.50	3.10	-11.67	162.15	72.37	380.03	64.71	409.77	355.51	851.08	209.16	341.05	90.66	210.29	356.22
23959	4.30	2.50	-11.67	142.33	69.83	356.22	53.21	409.28	355.99	807.88	200.78	338.61	71.16	212.30	356.39
23960	4.28	3.10	-11.67	142.11	69.40	360.08	53.16	409.11	354.35	798.72	198.85	342.85	76.31	213.85	354.95
23961	3.07	2.50	-11.67	124.74	67.26	340.34	40.81	408.61	355.49	759.17	189.81	340.59	57.66	219.37	355.80
23962	3.06	3.10	-11.67	124.61	66.86	344.40	40.84	408.40	353.71	751.34	188.11	344.75	62.01	220.73	354.19
23963	1.84	2.50	-11.67	111.33	65.16	329.32	27.80	407.94	355.46	715.59	178.52	342.56	44.59	228.66	355.71
23964	1.83	3.10	-11.67	111.25	64.81	333.53	28.01	407.70	353.59	708.96	177.06	346.66	48.31	229.80	353.96
23965	0.61	2.50	-11.67	103.89	63.64	323.62	14.39	407.30	355.92	677.00	166.99	344.49	32.97	239.26	356.10
23966	0.61	3.10	-11.67	103.85	63.31	327.91	15.08	407.04	354.00	671.45	165.76	348.55	36.20	240.19	354.27
23967	19.03	2.50	-13.00	421.19	161.78	760.19	119.34	441.27	398.70	1381.02	171.54	408.63	104.66	1035.04	398.72
23968	18.94	3.10	-13.00	418.12	165.53	756.60	119.93	440.43	396.64	1382.51	182.38	406.57	155.05	1030.14	396.61
23969	17.80	2.50	-13.00	444.49	155.82	720.60	128.50	441.75	379.40	1418.60	231.64	398.36	159.51	855.37	379.51
23970	17.72	3.10	-13.00	440.76	159.77	717.67	128.42	440.94	378.88	1414.98	241.50	397.10	177.39	850.82	378.93
23971	16.57	2.50	-13.00	439.75	147.01	675.41	128.44	432.00	368.87	1451.98	267.22	378.05	168.18	693.62	369.01
23972	16.50	3.10	-13.00	436.06	151.62	673.23	128.21	431.52	369.37	1442.88	275.09	377.83	189.47	690.05	369.49
23973	15.34	2.50	-13.00	422.93	138.79	634.49	127.86	423.81	364.89	1464.27	286.65	364.59	172.75	565.28	365.06
23974	15.28	3.10	-13.00	419.53	144.05	632.86	127.70	423.59	365.97	1450.66	292.30	365.09	195.38	562.80	366.16
23975	14.12	2.50	-13.00	400.14	131.59	596.69	126.76	418.09	362.90	1451.48	295.25	357.27	173.20	468.22	363.11
23976	14.05	3.10	-13.00	397.14	137.32	595.52	126.85	418.03	364.23	1434.85	299.00	358.20	195.71	466.79	364.51
23977	12.89	2.50	-13.00	374.00	125.18	561.22	124.72	414.15	361.42	1416.23	296.55	353.80	169.91	397.01	361.69
23978	12.83	3.10	-13.00	371.47	130.95	560.45	125.14	414.23	362.72	1398.04	298.83	354.95	191.42	396.54	363.09
23979	11.66	2.50	-13.00	345.90	119.16	527.70	121.15	411.41	359.87	1363.62	292.77	352.53	163.37	346.35	360.18
23980	11.61	3.10	-13.00	343.91	124.45	527.27	121.81	411.63	360.90	1345.02	293.90	353.75	183.34	346.69	361.36
23981	10.43	2.50</													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24011	11.66	2.50	-14.33	429.63	177.08	534.19	152.14	440.89	392.07	1584.34	352.96	370.60	229.39	415.36	392.11
24012	11.61	3.10	-14.33	426.16	148.46	532.64	146.86	441.38	393.17	1562.42	338.92	370.18	187.76	415.90	393.24
24013	10.43	2.50	-14.33	389.56	167.35	504.51	143.76	439.55	391.33	1513.24	336.94	371.43	215.12	401.45	391.38
24014	10.39	3.10	-14.33	386.57	140.61	503.15	138.84	440.16	392.31	1491.71	323.35	371.01	171.91	402.31	392.39
24015	9.21	2.50	-14.33	350.13	157.98	476.66	133.86	438.56	390.59	1428.99	320.67	372.30	199.07	392.74	390.64
24016	9.17	3.10	-14.33	347.50	133.60	475.47	129.20	439.27	391.44	1408.67	307.98	371.88	154.21	393.84	391.51
24017	7.98	2.50	-14.33	311.52	149.18	450.92	122.54	437.79	389.91	1339.26	304.52	373.21	181.87	387.84	389.95
24018	7.94	3.10	-14.33	309.08	127.38	449.89	118.15	438.58	390.64	1320.68	292.98	372.79	135.29	389.09	390.71
24019	6.75	2.50	-14.33	274.07	141.17	427.65	110.08	437.17	389.33	1249.49	288.76	374.14	164.13	385.71	389.36
24020	6.72	3.10	-14.33	271.66	121.93	426.77	106.05	438.02	389.97	1232.93	278.43	373.72	115.74	387.05	390.03
24021	5.52	2.50	-14.33	238.40	134.12	407.26	96.90	436.66	388.88	1163.37	273.51	375.11	146.44	385.57	388.91
24022	5.50	3.10	-14.33	235.89	117.19	406.52	93.33	437.57	389.45	1148.91	264.32	374.68	96.02	386.96	389.50
24023	4.30	2.50	-14.33	205.48	128.14	390.21	83.46	436.23	388.57	1083.32	258.77	376.10	129.33	386.81	388.59
24024	4.28	3.10	-14.33	202.75	113.11	389.57	80.45	437.20	389.11	1070.91	250.54	375.67	76.41	388.22	389.15
24025	3.07	2.50	-14.33	176.80	123.32	376.92	70.39	435.89	388.41	1010.77	244.49	377.11	113.35	388.98	388.43
24026	3.06	3.10	-14.33	173.79	109.65	376.37	67.98	436.91	388.92	1000.27	236.94	376.69	57.06	390.41	388.95
24027	1.84	2.50	-14.33	154.62	119.71	367.79	58.64	435.61	388.39	946.46	230.58	378.15	99.16	391.73	388.40
24028	1.83	3.10	-14.33	151.32	106.80	367.32	56.82	436.69	388.90	937.66	223.38	377.73	38.04	393.17	388.92
24029	0.61	2.50	-14.33	141.74	117.38	363.15	49.72	435.40	388.50	890.59	216.99	379.22	87.58	394.81	388.51
24030	0.61	3.10	-14.33	138.28	104.56	362.70	48.44	436.53	389.02	883.26	209.72	378.79	19.48	396.24	389.04
24031	-0.61	3.10	-11.67	103.68	62.43	327.76	5.55	406.45	354.92	638.54	154.26	350.41	27.83	251.21	355.11
24032	-1.83	3.10	-11.67	110.56	62.22	333.06	14.52	405.95	356.34	609.90	142.56	352.27	26.72	262.37	356.47
24033	-3.06	3.10	-11.67	122.94	62.71	343.58	27.70	405.55	358.25	585.07	130.74	354.14	33.21	273.24	358.33
24034	-4.28	3.10	-11.67	138.87	63.94	358.88	41.00	405.24	360.63	563.58	118.85	356.04	43.60	283.50	360.67
24035	-5.50	3.10	-11.67	156.70	65.91	378.41	53.96	405.04	363.46	544.90	107.07	357.99	55.25	292.87	363.47
24036	-6.72	3.10	-11.67	175.22	68.56	401.57	66.29	404.93	366.67	528.50	95.63	359.95	66.92	301.11	366.66
24037	-7.94	3.10	-11.67	193.58	71.80	427.79	77.66	404.93	370.17	513.83	84.96	361.91	77.93	307.98	370.16
24038	-9.17	3.10	-11.67	211.17	75.43	456.47	87.72	405.05	373.80	500.33	75.58	363.81	87.77	313.29	373.78
24039	-10.39	3.10	-11.67	227.48	79.15	487.08	96.14	405.34	377.29	487.40	68.06	365.59	96.06	316.88	377.27
24040	-11.61	3.10	-11.67	241.93	82.62	519.10	102.73	405.83	380.29	474.24	62.77	367.16	102.57	318.66	380.28
24041	-12.83	3.10	-11.67	253.65	85.58	552.03	107.51	406.42	382.46	459.65	59.77	368.48	107.33	318.58	382.47
24042	-14.05	3.10	-11.67	261.19	87.92	585.44	110.78	406.61	383.67	441.71	59.00	369.57	110.62	316.52	383.70
24043	-15.28	3.10	-11.67	262.13	89.77	618.83	112.90	405.05	384.15	417.45	60.64	370.49	112.80	311.99	384.20
24044	-16.50	3.10	-11.67	252.61	91.13	651.30	113.80	398.64	384.69	382.45	64.84	371.14	113.78	303.33	384.76
24045	-17.72	3.10	-11.67	227.13	91.30	678.83	111.83	380.62	385.83	330.90	70.79	369.71	111.95	285.81	385.90
24046	-18.94	3.10	-11.67	182.83	88.83	690.59	104.52	341.89	386.82	260.11	76.46	360.41	104.85	252.67	386.85
24047	-0.61	2.50	-11.67	103.68	62.74	323.46	2.11	406.70	356.86	643.15	155.26	346.37	25.23	250.48	356.99
24048	-1.84	2.50	-11.67	110.54	62.53	328.85	13.49	406.18	358.28	613.68	143.37	348.22	25.18	261.81	358.36
24049	-3.07	2.50	-11.67	122.90	63.05	339.52	27.17	405.74	360.14	588.16	131.37	350.07	32.58	272.82	360.19
24050	-4.30	2.50	-11.67	138.83	64.29	355.02	40.66	405.38	362.44	566.10	119.34	351.93	43.41	283.19	362.46
24051	-5.52	2.50	-11.67	156.71	66.23	374.79	53.70	405.12	365.12	546.99	107.42	353.81	55.20	292.66	365.13
24052	-6.75	2.50	-11.67	175.34	68.80	398.21	66.03	404.97	368.14	530.30	95.86	355.70	66.89	300.99	368.14
24053	-7.98	2.50	-11.67	193.90	71.87	424.69	77.37	404.96	371.39	515.48	85.00	357.57	77.86	307.96	371.38
24054	-9.21	2.50	-11.67	211.77	75.26	453.68	87.40	405.13	374.69	501.97	75.32	359.38	87.66	313.39	374.68
24055	-10.43	2.50	-11.67	228.41	78.71	484.64	95.87	405.53	377.80	489.13	67.34	361.09	95.98	317.14	377.79
24056	-11.66	2.50	-11.67	243.21	82.00	517.10	102.63	406.19	380.43	476.12	61.52	362.64	102.65	319.10	380.43
24057	-12.89	2.50	-11.67	255.23	84.95	550.57	107.74	406.96	382.35	461.65	58.17	364.03	107.71	319.18	382.36
24058	-14.12	2.50	-11.67	262.99	87.56	584.61	111.46	407.30	383.50	443.77	57.53	365.27	111.42	317.20	383.52
24059	-15.34	2.50	-11.67	264.06	89.89	618.70	114.03	405.83	384.15	419.46	59.85	366.44	113.99	312.65	384.19
24060	-16.57	2.50	-11.67	254.47	91.78	651.92	115.23	399.40	385.12	384.22	65.01	367.47	115.23	303.86	385.16
24061	-17.80	2.50	-11.67	228.58	92.30	680.16	113.28	381.09	386.87	332.06	71.73	366.54	113.33	286.01	386.91
24062	-19.03	2.50	-11.67	183.47	89.83	692.23	105.57	341.56	388.54	260.24	77.67	357.70	105.72	252.14	388.56
24063	-0.61	3.10	-13.00	121.39	78.17	344.87	2.61	401.77	349.88	741.85	173.45	364.20	36.04	299.84	349.97
24064	-1.83	3.10	-13.00	129.97	78.11	349.78	14.91	401.53	350.82	708.39	160.30	365.58	33.99	307.85	350.88
24065	-3.06	3.10	-13.00	145.91	79.14	359.48	30.42	401.44	352.15	680.33	147.12	367.01	40.09	315.69	352.18
24066	-4.28	3.10	-13.00	166.76	81.30	373.62	45.83	401.54	353.86	657.13	134.04	368.50	51.05	323.14	353.87
24067	-5.50	3.10	-13.00	190.49	84.62	391.72	60.90	401.85	355.94	638.20	121.28	370.03	63.96	330.03	355.94
24068	-6.72	3.10	-13.00	215.75	89.08	413.30	75.38	402.39	358.38	622.90	109.28	371.62	77.29	336.22	358.38
24069	-7.94	3.10	-13.00	241.70	94.57	437.85	88.99	403.22	361.14	610.59	98.68	373.24	90.23	341.56	361.12
24070	-9.17	3.10	-13.00	267.84	100.91	464.88	101.37	404.41	364.11	600.66	90.27	374.88	102.17	345.96	364.09
24071	-10.39	3.10	-13.00	293.96	107.73	493.98	112.19	406.08	367.11	592.52	84.79	376.51	112.69	349.41	367.09
24072	-11.61	3.10	-13.00	319.92	114.63	524.77	121.28	408.43	369.89	585.56	82.44	378.12	121.57	352.02	369.88
24073	-12.83	3.10	-13.00	345.53	121.28	556.97	128.82	411.67	372.24	579.07	82.86	379.73	128.98	354.12	372.23
24074	-14.05	3.10	-13.00	370.22	127.73	590.44	135.45	415.98	374.12	571.98	85.65	381.45	135.53	356.25	374.13
24075	-15.28	3.10	-13.00	392.76	134.47	625.36	142.08	421.43	375.98	562.73	91.08	383.57	142.10	359.24	375.99
24076	-16.50	3.10	-13.00	410.51	142.03	662.46	149.44	427.87	379.01	548.61	99.85	386.73	149.43	364.10	379.03
24077	-17.72	3.10	-13.00	416.91	150.16	703.55	157.78	433.42	387.06	523.49	111.85	392.23	157.78	370.54	387.08
24078	-18.94	3.10	-13.00	394.43	155.70	741.49	158.59	425.75	400.95	470.79	123.86	396.15	158.67	367.85	400.96
24079	-0.61	2.50	-13.00	121.06	78.17	343.88	2.73	401.47	351.05	746.90	174.20	363			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24109	-17.72	3.10	-14.33	655.69	209.55	702.62	211.97	469.23	404.84	760.73	149.15	401.62	212.65	445.56	404.84
24110	-18.94	3.10	-14.33	747.65	237.59	747.43	254.82	501.16	437.58	815.52	182.31	408.24	255.66	479.62	437.58
24111	-0.61	2.50	-14.33	140.42	116.31	363.13	45.71	435.25	388.70	843.07	203.64	380.31	79.61	398.02	388.70
24112	-1.84	2.50	-14.33	150.63	116.57	367.75	48.07	435.16	388.98	803.57	190.53	381.42	76.16	401.24	388.98
24113	-3.07	2.50	-14.33	170.06	118.20	376.85	56.07	435.15	389.39	771.60	177.78	382.57	77.65	404.36	389.40
24114	-4.30	2.50	-14.33	195.73	121.24	390.10	67.64	435.23	389.94	746.50	165.61	383.76	83.51	407.33	389.94
24115	-5.52	2.50	-14.33	225.34	125.68	407.12	81.04	435.43	390.61	727.54	154.34	384.98	92.57	410.09	390.61
24116	-6.75	2.50	-14.33	257.42	131.49	427.45	95.16	435.76	391.41	713.99	144.47	386.24	103.55	412.60	391.41
24117	-7.98	2.50	-14.33	291.20	138.55	450.66	109.27	436.28	392.32	705.11	136.60	387.53	115.41	414.82	392.32
24118	-9.21	2.50	-14.33	326.37	146.68	476.33	122.87	437.03	393.31	700.21	131.30	388.85	127.35	416.73	393.31
24119	-10.43	2.50	-14.33	363.04	155.64	504.09	135.65	438.10	394.33	698.69	128.92	390.20	138.86	418.35	394.32
24120	-11.66	2.50	-14.33	401.62	165.15	533.61	147.54	439.62	395.30	700.06	129.42	391.57	149.73	419.77	395.30
24121	-12.89	2.50	-14.33	442.78	175.15	564.65	158.84	441.76	396.20	704.07	132.56	392.99	160.18	421.18	396.20
24122	-14.12	2.50	-14.33	487.48	186.02	597.03	170.29	444.78	397.08	710.84	138.37	394.50	170.89	423.01	397.08
24123	-15.34	2.50	-14.33	537.06	198.64	630.74	183.02	449.13	398.19	721.28	147.53	396.20	182.99	426.04	398.19
24124	-16.57	2.50	-14.33	593.93	214.41	666.25	198.63	456.10	400.24	738.02	161.57	398.45	198.09	432.09	400.24
24125	-17.80	2.50	-14.33	663.18	234.00	705.38	220.14	469.90	404.35	767.35	181.46	402.29	219.23	446.13	404.35
24126	-19.03	2.50	-14.33	756.76	262.78	750.93	263.71	502.74	438.56	823.53	213.75	409.58	262.64	481.14	438.56
24127	-20.06	2.50	-11.67	129.44	84.21	679.53	92.99	286.13	388.51	183.86	80.14	339.45	93.29	206.92	388.47
24128	-19.98	3.10	-11.67	129.68	83.57	678.08	92.63	287.51	386.25	184.69	79.23	341.85	93.26	208.42	386.20
24129	-20.91	2.50	-11.67	75.76	75.87	636.85	77.19	220.65	384.99	112.81	78.55	315.12	77.67	154.37	384.87
24130	-20.83	3.10	-11.67	76.70	75.82	635.96	77.52	223.03	382.43	114.24	78.22	317.09	78.51	156.91	382.24
24131	-21.75	2.50	-11.67	23.59	64.70	549.78	57.24	136.57	376.23	44.41	73.29	304.70	57.95	88.14	375.97
24132	-21.68	3.10	-11.67	25.45	65.62	549.85	58.28	140.73	373.52	46.38	73.96	305.30	59.64	92.96	373.14
24133	-22.60	2.50	-11.67	14.91	53.78	408.83	32.51	54.90	358.01	7.92	65.25	387.63	33.45	39.47	357.56
24134	-22.52	3.10	-11.67	15.66	55.73	409.83	34.01	63.04	355.27	9.49	67.06	385.23	35.71	48.68	354.67
24135	-23.44	2.50	-11.67	2.73	48.03	301.16	15.88	37.61	333.83	3.14	57.97	602.49	16.24	41.50	333.30
24136	-23.37	3.10	-11.67	3.63	52.12	301.56	17.51	46.52	330.89	4.14	62.65	598.20	18.79	49.74	330.30
24137	-20.06	2.50	-13.00	349.84	155.66	761.52	150.13	398.71	414.65	401.84	131.03	391.28	150.27	349.11	414.64
24138	-19.98	3.10	-13.00	347.79	155.98	758.02	148.49	398.68	412.85	400.55	131.44	390.31	148.66	349.07	412.82
24139	-20.91	2.50	-13.00	292.73	151.97	750.21	135.71	359.73	423.45	327.64	134.62	373.61	135.92	320.11	423.40
24140	-20.83	3.10	-13.00	291.66	151.33	747.01	134.57	360.11	421.22	327.23	133.87	372.27	134.86	320.38	421.13
24141	-21.75	2.50	-13.00	197.59	140.64	703.30	110.84	293.83	429.26	218.10	131.36	344.87	111.16	266.27	429.15
24142	-21.68	3.10	-13.00	198.49	138.49	700.82	110.43	295.38	426.56	219.55	129.03	343.16	110.93	267.62	426.36
24143	-22.60	2.50	-13.00	70.92	122.25	577.64	79.04	169.80	430.39	80.28	121.53	340.47	79.60	155.18	430.09
24144	-22.52	3.10	-13.00	73.40	119.89	577.04	79.57	174.46	427.58	83.18	119.07	337.28	80.27	159.66	427.19
24145	-23.44	2.50	-13.00	40.84	100.62	337.34	21.83	46.62	393.21	38.70	102.68	607.66	23.79	48.16	392.38
24146	-23.37	3.10	-13.00	39.27	94.54	337.72	9.92	60.12	388.95	36.81	102.73	602.24	11.08	61.45	388.39
24147	-20.06	2.50	-14.33	788.54	282.83	782.86	272.38	544.56	498.82	827.30	238.83	412.31	271.12	526.87	498.82
24148	-19.98	3.10	-14.33	779.56	258.90	778.84	263.94	542.10	496.17	819.45	210.07	409.94	265.04	524.40	496.17
24149	-20.91	2.50	-14.33	728.35	284.19	793.71	231.82	570.67	532.85	749.36	245.37	406.08	230.33	557.39	532.85
24150	-20.83	3.10	-14.33	721.50	268.29	789.77	224.55	567.56	529.95	743.46	226.88	403.22	226.00	554.22	529.95
24151	-21.75	2.50	-14.33	674.55	286.81	799.44	211.79	574.13	541.62	683.08	255.13	397.36	210.46	566.26	541.62
24152	-21.68	3.10	-14.33	669.91	274.64	795.70	205.01	570.91	538.74	679.17	241.65	394.33	206.49	562.93	538.74
24153	-22.60	2.50	-14.33	598.96	288.07	774.05	206.36	539.29	556.39	600.74	265.64	376.74	205.38	536.96	556.40
24154	-22.52	3.10	-14.33	600.52	272.09	771.01	197.90	538.45	552.27	602.80	249.11	373.58	199.04	535.95	552.23
24155	-23.44	2.50	-14.33	427.43	343.74	573.41	231.28	352.98	673.43	427.36	333.69	387.30	231.09	354.57	673.12
24156	-23.37	3.10	-14.33	435.67	331.64	571.78	244.25	353.13	668.78	435.85	321.24	380.98	244.48	354.44	668.71
24157	18.86	7.26	-11.67	288.49	89.94	687.71	77.67	315.01	345.16	1793.85	72.32	425.35	272.61	952.78	391.44
24158	19.24	6.18	-11.67	316.27	97.80	696.76	65.55	311.42	363.44	1941.43	92.05	436.02	146.38	996.61	385.34
24159	19.56	5.08	-11.67	334.04	105.26	701.88	53.65	308.58	375.82	2004.83	151.65	444.34	75.50	1011.36	387.28
24160	19.82	3.96	-11.67	345.50	108.54	706.79	42.55	307.71	378.66	2036.34	188.39	449.06	46.63	1022.62	385.49
24161	19.75	7.26	-11.67	313.91	95.68	649.93	73.12	275.28	339.13	2080.43	116.14	373.41	225.99	1104.72	407.57
24162	20.12	6.18	-11.67	342.82	104.48	654.11	54.65	270.68	362.26	2210.44	229.13	367.39	82.11	1132.89	393.17
24163	20.42	5.08	-11.67	359.62	110.46	655.34	39.23	267.06	378.95	2247.72	316.74	360.49	36.95	1129.88	398.81
24164	20.67	3.96	-11.67	370.24	112.41	657.41	27.29	265.32	383.95	2274.22	341.28	352.54	23.61	1138.34	398.85
24165	20.64	7.26	-11.67	353.33	110.07	651.77	70.22	240.56	334.01	2448.70	301.05	438.16	153.18	1347.67	418.93
24166	20.99	6.18	-11.67	379.60	116.75	657.30	51.83	237.02	365.45	2527.86	479.05	409.44	50.68	1347.05	403.08
24167	21.29	5.08	-11.67	394.21	118.11	652.06	44.97	234.31	387.46	2533.29	556.50	385.67	46.86	1322.58	421.37
24168	21.53	3.96	-11.67	403.81	118.91	649.20	44.53	231.79	394.31	2563.14	543.44	393.54	42.87	1326.19	425.27
24169	21.53	7.26	-11.67	393.41	140.81	397.67	80.36	239.97	339.85	2879.81	675.47	1020.83	87.88	1815.27	425.49
24170	21.87	6.18	-11.67	412.05	134.29	380.39	78.54	241.12	385.11	2866.34	847.62	995.61	96.65	1761.87	433.07
24171	22.15	5.07	-11.67	424.45	129.72	364.92	83.44	242.29	412.03	2853.05	873.87	994.11	83.91	1721.80	474.63
24172	22.38	3.96	-11.67	433.24	131.06	353.51	88.96	240.08	419.52	2890.16	803.66	1074.23	91.09	1748.97	482.23
24173	22.42	7.26	-11.67	404.25	180.68	188.39	119.68	270.33	432.84	3177.81	1340.70	3272.31	140.32	2552.31	635.93
24174	22.75	6.17	-11.67	414.90	160.10	142.18	125.11	276.68	489.80	3094.68	1418.28	3226.86	127.37	2431.94	655.05
24175	23.02	5.07	-11.67	424.15	154.39	111.18	131.06	277.64	516.39	3069.06	1378.27	3269.48	155.23	2380.47	713.41
24176	23.24	3.96	-11.67	431.86	157.88	96.12	135.71	274.14	522.72	3103.25	1257.92	3494.59	167.97	2421.26	703.59
24177	18.86	7.26	-13.00	333.95	148.92										



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24207	21.29	5.08	-14.33	596.25	280.44	781.62	167.49	425.78	480.77	171.53	338.95	415.69	291.65	748.07	484.15
24208	21.53	3.96	-14.33	637.02	273.33	780.53	183.17	486.74	516.02	246.96	334.98	398.56	196.23	807.82	517.92
24209	21.53	7.26	-14.33	505.43	338.85	773.97	193.00	429.15	493.90	319.03	268.64	484.89	442.73	556.45	523.04
24210	21.87	6.18	-14.33	478.86	300.74	765.67	160.99	375.26	487.20	340.54	238.11	471.92	327.31	493.07	510.18
24211	22.15	5.07	-14.33	498.43	270.39	760.83	159.58	376.32	498.40	400.40	217.32	454.77	234.06	483.73	514.20
24212	22.38	3.96	-14.33	555.95	275.40	759.16	191.15	441.16	534.29	491.99	245.42	443.15	169.09	538.53	544.12
24213	22.42	7.26	-14.33	326.02	314.72	614.90	164.73	298.26	578.05	218.72	263.94	522.29	282.05	310.86	632.93
24214	22.75	6.17	-14.33	296.08	221.12	623.35	149.00	250.49	561.12	215.15	193.93	506.72	206.04	249.92	605.32
24215	23.02	5.07	-14.33	305.75	202.01	617.21	162.24	237.47	578.28	247.62	128.20	503.43	181.13	225.10	605.29
24216	23.24	3.96	-14.33	355.18	266.27	594.11	210.84	272.53	635.40	313.51	147.19	518.37	187.43	248.67	646.71
24217	0.61	3.95	-11.67	103.78	62.66	335.73	15.90	404.91	353.35	661.35	163.46	355.96	42.91	240.22	353.77
24218	1.82	3.95	-11.67	111.11	64.10	341.23	28.19	405.61	353.04	696.87	174.29	354.16	55.65	230.23	353.61
24219	3.03	3.95	-11.67	124.38	66.09	351.84	40.75	406.38	353.31	737.02	184.87	352.38	70.20	221.57	354.05
24220	4.24	3.95	-11.67	141.76	68.59	367.18	52.94	407.19	354.17	781.94	195.15	350.65	85.67	215.08	355.10
24221	5.45	3.95	-11.67	161.59	71.56	386.74	64.47	407.98	355.63	831.66	205.06	349.06	101.54	211.82	356.75
24222	6.67	3.95	-11.67	182.63	74.99	409.94	75.04	408.66	357.67	886.02	214.42	347.77	117.35	213.13	358.95
24223	7.88	3.96	-11.67	204.00	78.79	436.21	84.32	409.13	360.23	944.65	222.91	347.09	132.56	220.69	361.63
24224	9.09	3.96	-11.67	225.07	82.85	464.99	91.90	409.28	363.18	1006.96	230.01	347.47	146.52	236.54	364.61
24225	10.30	3.96	-11.67	245.39	86.90	495.76	97.33	409.06	366.25	1072.25	234.86	349.57	158.44	263.21	367.58
24226	11.51	3.96	-11.67	264.62	90.61	528.10	100.25	408.50	368.98	1139.99	236.30	354.39	167.49	303.64	370.07
24227	12.73	3.96	-11.67	282.28	93.68	561.72	100.58	407.63	370.90	1210.38	232.78	363.41	172.81	361.00	371.62
24228	13.94	3.96	-11.67	297.69	96.02	596.57	98.61	406.28	371.66	1285.36	222.20	378.76	173.28	438.12	372.00
24229	15.15	3.96	-11.67	309.87	97.97	632.63	94.76	403.57	371.46	1370.02	201.47	403.02	167.20	536.34	371.50
24230	16.36	3.96	-11.67	317.91	100.03	669.24	88.97	397.05	371.25	1474.38	165.89	437.35	152.04	653.58	371.26
24231	17.57	3.96	-11.67	322.40	102.46	702.04	79.44	381.28	372.20	1614.66	111.42	475.01	125.01	781.87	372.78
24232	18.78	3.96	-11.67	329.35	105.37	718.56	63.09	349.39	374.86	1809.84	84.42	488.43	85.86	910.67	377.43
24233	0.60	5.05	-11.67	103.55	61.93	350.02	17.59	401.88	353.20	645.44	159.94	369.55	50.74	240.53	353.83
24234	1.79	5.05	-11.67	110.80	63.24	355.33	28.69	402.63	353.01	677.83	170.00	367.88	64.46	231.18	353.86
24235	2.99	5.06	-11.67	123.98	64.99	365.56	40.65	403.54	353.48	714.46	179.75	366.33	80.24	223.18	354.60
24236	4.18	5.06	-11.67	141.22	67.20	380.38	52.51	404.57	354.64	755.48	189.17	364.91	97.34	217.33	356.04
24237	5.38	5.06	-11.67	160.80	69.88	399.32	63.89	405.63	356.50	800.98	198.25	363.70	115.28	214.61	358.19
24238	6.58	5.06	-11.67	181.42	73.08	421.88	74.51	406.62	359.09	850.91	206.91	362.88	133.63	216.24	361.05
24239	7.77	5.06	-11.67	202.11	76.82	447.49	84.02	407.36	362.41	905.06	214.96	362.71	151.88	223.71	364.56
24240	8.97	5.07	-11.67	222.15	81.03	475.59	91.96	407.66	366.37	963.08	222.00	363.58	169.27	238.85	368.56
24241	10.16	5.07	-11.67	241.12	85.48	505.54	97.76	407.35	370.70	1024.52	227.33	366.01	184.91	263.93	372.72
24242	11.36	5.07	-11.67	258.74	89.69	536.72	100.83	406.42	374.81	1089.03	229.90	370.67	197.81	301.74	376.42
24243	12.55	5.07	-11.67	274.78	93.05	568.64	100.97	405.01	377.88	1157.09	228.34	378.49	207.09	355.54	378.88
24244	13.75	5.07	-11.67	288.71	95.17	601.13	98.54	403.17	379.13	1230.99	220.94	390.95	211.73	428.46	379.49
24245	14.94	5.08	-11.67	299.64	96.28	634.27	94.42	400.22	378.40	1316.38	205.28	410.11	209.95	522.36	378.37
24246	16.14	5.08	-11.67	306.75	97.21	667.62	89.18	393.76	376.55	1423.75	177.10	437.37	198.40	636.01	376.82
24247	17.33	5.08	-11.67	310.83	98.71	697.42	81.71	378.64	374.98	1569.35	129.73	467.71	172.30	763.02	376.81
24248	18.53	5.08	-11.67	317.71	101.41	712.60	69.47	348.45	374.67	1771.37	77.27	478.42	127.83	894.32	380.24
24249	0.59	6.15	-11.67	102.96	61.91	368.24	20.32	398.11	345.36	626.05	155.88	386.93	56.85	240.76	346.22
24250	1.76	6.15	-11.67	110.13	63.02	373.31	29.76	398.96	345.27	654.72	164.91	385.40	71.52	232.18	346.43
24251	2.94	6.16	-11.67	123.28	64.38	383.13	40.73	400.08	345.90	687.13	173.53	384.09	88.44	225.01	347.43
24252	4.11	6.16	-11.67	140.45	66.04	397.37	51.96	401.44	347.30	723.46	181.74	383.03	107.00	220.00	349.21
24253	5.29	6.16	-11.67	159.89	68.05	415.64	62.94	402.96	349.49	763.81	189.57	382.29	126.81	218.03	351.80
24254	6.46	6.16	-11.67	180.20	70.54	437.52	73.39	404.50	352.54	808.23	197.01	382.03	147.52	220.19	355.22
24255	7.64	6.16	-11.67	200.30	73.62	462.51	82.99	405.83	356.52	856.69	204.00	382.52	168.67	227.78	359.46
24256	8.81	6.17	-11.67	219.34	77.35	490.04	91.27	406.61	361.42	909.08	210.30	384.13	189.53	242.30	364.44
24257	9.99	6.17	-11.67	236.76	81.60	519.37	97.56	406.50	367.07	965.18	215.40	387.27	209.11	265.64	369.86
24258	11.16	6.17	-11.67	252.34	85.89	549.60	101.04	405.30	372.83	1024.80	218.39	392.30	226.35	300.24	375.01
24259	12.34	6.17	-11.67	266.10	89.39	579.78	101.20	403.19	377.54	1088.40	218.06	399.48	240.43	349.24	378.80
24260	13.51	6.17	-11.67	277.83	91.35	609.37	98.35	400.58	379.80	1158.28	213.06	409.23	250.78	416.14	380.14
24261	14.69	6.18	-11.67	286.78	91.75	638.46	93.80	397.24	378.84	1240.13	201.80	422.66	256.29	503.51	378.82
24262	15.86	6.18	-11.67	292.14	91.55	667.20	88.90	391.02	375.26	1344.83	181.51	441.10	254.03	611.11	376.33
24263	17.04	6.18	-11.67	294.78	91.93	692.88	83.43	376.93	370.65	1489.51	146.35	461.52	238.37	734.56	375.41
24264	18.21	6.18	-11.67	300.52	93.90	706.20	75.64	348.95	366.38	1694.88	90.75	466.71	201.91	868.35	378.67
24265	0.58	7.25	-11.67	101.83	60.71	384.54	25.26	392.49	331.40	603.48	150.55	402.58	59.73	239.68	332.47
24266	1.73	7.25	-11.67	108.94	61.64	389.39	32.51	393.48	331.37	627.99	158.38	401.11	75.17	231.99	332.83
24267	2.88	7.25	-11.67	122.08	62.72	398.81	41.85	394.88	332.09	655.69	165.70	399.96	92.96	225.79	334.00
24268	4.03	7.25	-11.67	139.25	63.98	412.52	51.90	396.68	333.60	686.73	172.51	399.16	112.58	221.76	335.99
24269	5.18	7.25	-11.67	158.66	65.51	430.21	62.01	398.82	335.94	721.22	178.85	398.79	133.75	220.72	338.82
24270	6.33	7.26	-11.67	178.83	67.43	451.50	71.85	401.16	339.18	759.24	184.75	398.99	156.22	223.65	342.51
24271	7.48	7.26	-11.67	198.57	69.92	476.00	81.13	403.44	343.43	800.93	190.22	400.04	179.65	231.61	347.11
24272	8.63	7.26	-11.67	216.82	73.13	503.22	89.46	405.21	348.82	846.38	195.20	402.34	203.44	245.81	352.62
24273	9.78	7.26	-11.67	232.78	77.06	532.40	96.16	405.84	355.31	895.67	199.37	406.32	226.61	267.57	358.85
24274	10.93	7.26	-11.67	246.09	81.35	562.32	100.26	404.76	362.39	948.73	202.01	412.18	248.00	298.69	365.17
24275	12.08	7.26	-11.67	256.97	85.11	591.32	100.87	401.94	368						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24305	10.16	5.07	-13.00	309.80	116.71	509.54	119.63	398.42	385.60	1190.94	274.89	378.39	226.30	303.72	386.78
24306	11.36	5.07	-13.00	335.50	125.50	539.18	125.16	399.73	390.32	1251.13	285.15	379.00	245.65	334.41	391.33
24307	12.55	5.07	-13.00	359.89	133.38	570.10	127.32	401.48	394.28	1303.65	292.86	380.26	261.34	379.49	395.00
24308	13.75	5.07	-13.00	382.54	139.44	602.32	126.83	404.40	396.67	1344.47	296.79	382.60	272.64	443.75	397.04
24309	14.94	5.08	-13.00	402.23	144.05	636.31	125.51	409.12	397.43	1370.26	295.71	387.01	278.44	532.77	397.52
24310	16.14	5.08	-13.00	416.27	148.90	672.83	125.28	415.69	398.07	1379.82	287.22	395.21	276.22	652.06	398.06
24311	17.33	5.08	-13.00	419.06	155.44	712.05	126.53	422.26	402.85	1376.26	265.06	407.69	262.21	804.16	402.97
24312	18.53	5.08	-13.00	399.04	161.84	745.89	123.00	420.05	415.02	1368.76	215.59	412.49	231.75	978.79	415.70
24313	0.59	6.15	-13.00	123.42	76.40	391.60	19.01	387.37	359.43	730.29	177.11	407.56	72.60	283.53	359.83
24314	1.76	6.15	-13.00	133.40	78.01	396.05	32.18	388.14	359.63	764.74	188.02	406.55	89.89	277.44	360.19
24315	2.94	6.16	-13.00	151.14	80.17	404.70	46.29	389.29	360.54	804.04	198.59	405.71	110.22	272.44	361.28
24316	4.11	6.16	-13.00	174.15	83.00	417.30	60.44	390.79	362.19	848.10	208.98	405.05	132.94	269.11	363.14
24317	5.29	6.16	-13.00	200.32	86.71	433.56	74.36	392.64	364.63	896.64	219.36	404.59	157.71	268.12	365.80
24318	6.46	6.16	-13.00	228.04	91.59	453.15	87.90	394.77	367.96	949.19	229.94	404.36	184.25	270.34	369.35
24319	7.64	6.16	-13.00	256.04	98.01	475.71	100.82	397.05	372.32	1004.96	240.98	404.44	212.14	276.80	373.91
24320	8.81	6.17	-13.00	283.20	106.30	500.87	112.65	399.25	377.87	1062.83	252.57	404.98	240.57	288.75	379.58
24321	9.99	6.17	-13.00	308.65	116.44	528.12	122.44	401.07	384.63	1121.10	264.48	406.09	268.25	307.75	386.30
24322	11.16	6.17	-13.00	331.97	127.63	556.80	128.80	402.36	392.08	1177.17	275.78	407.80	293.49	336.04	393.50
24323	12.34	6.17	-13.00	353.25	137.92	586.21	130.58	403.48	398.89	1227.61	284.84	409.95	314.95	377.02	398.82
24324	13.51	6.17	-13.00	372.66	144.97	615.97	128.18	405.47	403.14	1268.75	289.92	412.30	332.09	435.61	403.51
24325	14.69	6.18	-13.00	389.48	148.04	646.53	124.27	409.48	403.65	1297.79	290.05	415.09	344.58	517.65	403.66
24326	15.86	6.18	-13.00	401.30	149.39	679.12	122.26	415.51	401.65	1314.29	284.62	419.57	350.21	628.67	401.84
24327	17.04	6.18	-13.00	403.17	152.36	714.44	123.20	421.26	401.84	1321.72	269.70	426.76	343.89	771.77	403.10
24328	18.21	6.18	-13.00	384.96	156.73	745.63	121.42	418.62	407.69	1329.20	232.90	428.35	319.08	940.25	411.41
24329	0.58	7.25	-13.00	122.77	78.32	411.74	26.18	391.19	337.75	704.84	173.57	426.95	73.20	290.40	338.26
24330	1.73	7.25	-13.00	132.84	79.54	415.97	36.02	392.18	338.12	733.96	183.18	426.01	91.74	285.03	338.84
24331	2.88	7.25	-13.00	150.88	80.90	424.23	48.14	393.73	339.35	767.26	192.24	425.37	113.51	280.93	340.32
24332	4.03	7.25	-13.00	174.30	82.55	436.30	61.01	395.88	341.46	804.61	200.87	425.02	137.98	278.61	342.70
24333	5.18	7.25	-13.00	200.95	84.78	451.95	74.09	398.62	344.50	845.74	209.29	424.98	164.93	278.72	346.03
24334	6.33	7.26	-13.00	229.18	88.00	470.93	87.17	401.92	348.60	890.24	217.76	425.31	194.23	282.06	350.42
24335	7.48	7.26	-13.00	257.64	92.78	492.99	100.11	405.67	353.99	937.51	226.65	426.14	225.69	289.55	356.08
24336	8.63	7.26	-13.00	284.94	99.78	517.88	112.60	409.60	361.04	986.89	236.33	427.67	258.74	302.21	363.31
24337	9.78	7.26	-13.00	309.70	109.55	545.22	123.80	413.12	370.13	1037.43	246.97	430.20	292.12	321.09	372.39
24338	10.93	7.26	-13.00	330.81	121.84	574.16	131.81	415.51	381.14	1087.49	257.97	433.87	323.70	347.57	383.07
24339	12.08	7.26	-13.00	348.16	134.54	603.27	134.18	416.55	392.46	1134.32	267.47	438.26	351.34	384.11	393.68
24340	13.23	7.26	-13.00	362.57	143.66	631.02	130.04	417.36	400.68	1174.38	272.88	442.13	374.38	435.31	401.06
24341	14.38	7.26	-13.00	374.43	146.30	657.17	122.44	420.10	402.31	1204.59	272.43	444.13	393.60	507.56	402.31
24342	15.53	7.26	-13.00	382.27	144.47	683.81	117.15	425.44	397.33	1224.03	266.87	444.43	408.52	606.40	398.27
24343	16.68	7.26	-13.00	382.22	143.60	713.61	116.97	430.44	391.43	1235.69	255.93	445.07	414.45	734.18	395.67
24344	17.83	7.26	-13.00	365.87	145.18	741.58	116.64	427.01	389.47	1248.67	230.95	442.28	404.21	886.64	401.13
24345	0.61	3.95	-14.33	137.71	114.95	369.41	62.17	381.50	370.65	870.84	213.51	385.27	18.83	341.77	370.68
24346	1.82	3.95	-14.33	150.70	116.65	373.89	68.52	381.60	370.53	922.44	226.31	384.25	37.86	338.72	370.57
24347	3.03	3.95	-14.33	173.20	118.58	382.68	77.59	381.75	370.59	981.83	238.86	383.26	58.10	335.98	370.64
24348	4.24	3.95	-14.33	202.19	120.79	395.50	88.29	381.97	370.84	1048.89	251.31	382.30	79.22	333.82	370.91
24349	5.45	3.95	-14.33	235.30	123.38	411.98	99.81	382.30	371.30	1123.01	263.90	381.38	101.18	332.56	371.38
24350	6.67	3.95	-14.33	270.95	126.50	431.71	111.56	382.71	371.97	1203.00	276.83	380.48	123.84	332.62	372.07
24351	7.88	3.96	-14.33	308.06	130.32	454.27	123.01	383.21	372.86	1286.80	290.32	379.62	146.90	334.54	372.97
24352	9.09	3.96	-14.33	345.92	135.04	479.27	133.67	383.82	373.95	1371.28	304.50	378.80	169.82	339.06	374.08
24353	10.30	3.96	-14.33	384.13	140.78	506.34	142.99	384.56	375.18	1451.72	319.38	378.02	191.79	347.13	375.30
24354	11.51	3.96	-14.33	422.54	147.61	535.18	150.53	385.58	376.39	1521.30	334.90	377.27	211.90	360.11	376.51
24355	12.73	3.96	-14.33	461.31	155.57	565.58	156.29	387.12	377.42	1570.48	350.98	376.56	229.36	379.92	377.53
24356	13.94	3.96	-14.33	500.85	165.00	597.45	161.00	389.57	378.21	1586.10	367.66	375.91	243.59	409.26	378.30
24357	15.15	3.96	-14.33	542.00	176.76	630.85	166.21	393.59	378.96	1550.09	385.05	375.38	254.21	451.99	379.04
24358	16.36	3.96	-14.33	586.74	192.05	666.18	174.02	400.52	380.54	1437.73	402.83	375.02	261.26	513.72	380.62
24359	17.57	3.96	-14.33	639.69	212.25	704.65	187.99	413.93	384.79	1216.13	419.79	374.76	266.34	602.14	384.91
24360	18.78	3.96	-14.33	707.74	238.43	746.77	220.16	441.13	414.68	849.34	433.06	373.56	278.96	723.18	414.76
24361	0.60	5.05	-14.33	140.75	95.11	386.91	27.97	346.88	352.81	851.70	201.56	402.10	58.42	307.99	352.85
24362	1.79	5.05	-14.33	153.56	97.31	391.14	40.63	347.05	352.80	898.72	214.48	401.19	77.46	305.18	352.86
24363	2.99	5.06	-14.33	175.88	100.31	399.42	55.25	347.32	353.03	952.95	227.24	400.32	99.54	302.71	353.11
24364	4.18	5.06	-14.33	204.72	104.24	411.50	70.39	347.71	353.52	1014.25	240.06	399.50	123.88	300.83	353.62
24365	5.38	5.06	-14.33	237.69	109.28	427.08	85.52	348.22	354.27	1082.09	253.23	398.72	150.16	299.84	354.41
24366	6.58	5.06	-14.33	273.13	115.70	445.79	100.34	348.85	355.33	1155.44	267.08	397.99	178.16	300.12	355.49
24367	7.77	5.06	-14.33	309.85	123.79	467.27	114.55	349.57	356.73	1232.60	281.98	397.32	207.53	302.17	356.92
24368	8.97	5.07	-14.33	346.94	133.75	491.16	127.68	350.35	358.49	1310.96	298.20	396.71	237.59	306.62	358.70
24369	10.16	5.07	-14.33	383.78	145.47	517.09	139.00	351.17	360.56	1386.58	315.78	396.15	267.24	314.32	360.77
24370	11.36	5.07	-14.33	420.12	158.21	544.75	147.69	352.12	362.74	1453.56	334.35	395.64	295.14	326.52	362.93
24371	12.55	5.07	-14.33	456.26	170.65	573.87	153.37	353.47	364.61	1503.33	353.33	395.13	320.07	345.10	364.76
24372	13.75	5.07	-14.33	492.90	181.81	604.36	156.98	355.72	365.79	1523.89	372.48	394.60	341.26	372.79	365.89

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24403	12.08	7.26	-14.33	456.63	266.86	601.18	190.12	408.32	404.43	1305.86	386.45	446.61	491.23	395.75	404.69
24404	13.23	7.26	-14.33	480.24	292.01	628.25	189.60	409.79	411.28	1336.15	412.06	447.46	528.33	417.82	411.38
24405	14.38	7.26	-14.33	503.49	300.29	655.38	183.82	412.77	413.03	1335.18	426.37	447.25	559.74	450.62	413.03
24406	15.53	7.26	-14.33	531.24	293.21	683.64	181.78	418.88	409.08	1282.45	432.94	445.75	586.36	499.11	409.17
24407	16.68	7.26	-14.33	568.71	286.25	714.98	189.81	429.28	404.68	1151.40	443.44	443.68	605.78	568.54	405.10
24408	17.83	7.26	-14.33	620.06	294.80	750.08	211.00	448.42	418.23	911.43	460.97	441.97	614.50	665.76	419.42
24409	-18.78	3.96	-11.67	181.10	87.75	687.25	102.70	340.73	387.12	259.30	74.98	365.65	103.25	251.90	387.18
24410	-17.57	3.96	-11.67	224.18	90.14	676.23	109.26	378.15	387.11	328.49	69.80	375.80	109.44	283.83	387.23
24411	-16.36	3.96	-11.67	248.97	90.62	650.19	111.16	395.70	386.96	378.98	65.34	378.22	111.12	300.79	387.07
24412	-15.15	3.96	-11.67	258.49	90.23	619.29	110.81	402.14	387.17	413.66	62.92	378.36	110.63	309.30	387.25
24413	-13.94	3.96	-11.67	257.86	89.21	587.30	109.51	403.89	386.97	437.93	62.43	377.95	109.24	313.85	387.01
24414	-12.73	3.96	-11.67	250.82	87.23	555.12	107.04	404.02	385.56	456.07	63.27	377.12	106.73	316.09	385.57
24415	-11.51	3.96	-11.67	239.73	84.13	523.16	102.81	403.80	382.83	470.97	65.51	375.84	102.54	316.47	382.81
24416	-10.30	3.96	-11.67	225.97	80.19	491.89	96.47	403.62	379.11	484.43	69.77	374.16	96.31	315.02	379.07
24417	-9.09	3.96	-11.67	210.29	75.91	461.86	88.07	403.51	374.91	497.55	76.42	372.19	88.10	311.69	374.87
24418	-7.88	3.96	-11.67	193.19	71.81	433.65	77.93	403.41	370.69	511.00	85.20	370.05	78.25	306.56	370.66
24419	-6.67	3.95	-11.67	175.15	68.25	407.88	66.50	403.34	366.74	525.36	95.47	367.87	67.31	299.81	366.73
24420	-5.45	3.95	-11.67	156.79	65.41	385.13	54.18	403.31	363.21	541.18	106.58	365.72	55.88	291.67	363.23
24421	-4.24	3.95	-11.67	139.01	63.36	365.99	41.34	403.38	360.18	559.03	118.06	363.63	44.81	282.43	360.23
24422	-3.03	3.95	-11.67	123.06	62.11	351.03	28.32	403.56	357.66	579.47	129.61	361.62	35.61	272.36	357.78
24423	-1.82	3.95	-11.67	110.63	61.61	340.75	15.78	403.88	355.68	603.03	141.08	359.68	31.03	261.73	355.87
24424	-0.61	3.95	-11.67	103.68	61.81	335.57	8.12	404.33	354.23	630.18	152.37	357.80	33.77	250.89	354.53
24425	-18.53	5.08	-11.67	178.24	85.16	683.33	99.53	340.08	388.27	257.94	71.70	376.64	100.36	251.82	388.36
24426	-17.33	5.08	-11.67	219.23	86.86	673.65	104.94	375.34	389.99	324.45	66.50	388.16	105.23	281.77	390.18
24427	-16.14	5.08	-11.67	243.10	87.99	650.19	106.95	392.08	391.67	373.43	63.75	392.27	106.88	297.80	391.86
24428	-14.94	5.08	-11.67	252.71	88.83	622.06	107.62	398.45	393.15	407.67	63.43	393.80	107.31	305.96	393.28
24429	-13.75	5.07	-11.67	252.68	88.80	592.59	107.71	400.50	393.32	432.07	64.16	394.27	107.26	310.52	393.38
24430	-12.55	5.07	-11.67	246.56	87.14	562.48	106.47	401.21	391.39	450.65	64.97	393.79	105.98	313.13	391.38
24431	-11.36	5.07	-11.67	236.62	83.76	532.05	102.97	401.62	387.54	466.17	66.43	392.40	102.55	314.06	387.48
24432	-10.16	5.07	-11.67	224.03	79.26	501.83	96.86	401.89	382.52	480.20	69.87	390.29	96.61	313.08	382.45
24433	-8.97	5.07	-11.67	209.35	74.50	472.55	88.37	401.93	377.17	493.60	76.03	387.77	88.38	310.04	377.09
24434	-7.77	5.06	-11.67	192.93	70.15	444.98	78.08	401.73	372.06	506.90	84.60	385.10	78.46	305.02	371.99
24435	-6.58	5.06	-11.67	175.26	66.58	419.83	66.60	401.39	367.49	520.65	94.73	382.46	67.57	298.31	367.45
24436	-5.38	5.06	-11.67	157.04	63.91	397.71	54.40	401.06	363.54	535.46	105.64	379.94	56.47	290.23	363.55
24437	-4.18	5.06	-11.67	139.25	62.12	379.18	41.88	400.83	360.23	551.93	116.81	377.57	46.20	281.12	360.31
24438	-2.99	5.06	-11.67	123.21	61.12	364.74	29.44	400.78	357.55	570.66	127.94	375.36	38.50	271.29	357.72
24439	-1.79	5.05	-11.67	110.64	60.81	354.85	18.02	400.94	355.48	592.19	138.88	373.29	36.03	261.02	355.77
24440	-0.60	5.05	-11.67	103.56	61.11	349.87	11.79	401.31	354.03	616.99	149.56	371.35	40.52	250.64	354.47
24441	-18.21	6.18	-11.67	174.68	81.38	680.11	95.22	341.11	380.51	256.27	67.19	392.11	96.36	253.49	380.62
24442	-17.04	6.18	-11.67	213.09	81.74	672.01	99.72	373.58	385.03	319.44	61.20	405.28	100.12	280.89	385.29
24443	-15.86	6.18	-11.67	235.98	83.11	651.93	102.18	389.07	389.23	366.72	59.51	411.67	102.07	295.53	389.49
24444	-14.69	6.18	-11.67	245.81	84.78	627.69	104.24	395.13	392.22	400.53	60.67	415.18	103.78	303.07	392.40
24445	-13.51	6.17	-11.67	246.68	85.37	601.72	105.94	397.61	392.58	425.25	62.15	416.80	105.28	307.72	392.63
24446	-12.34	6.17	-11.67	241.94	83.80	574.15	105.90	399.17	389.68	444.62	62.94	416.49	105.20	310.94	389.63
24447	-11.16	6.17	-11.67	233.61	80.17	545.23	102.91	400.38	384.29	461.11	64.25	414.52	102.33	312.55	384.16
24448	-9.99	6.17	-11.67	222.52	75.48	515.83	96.77	401.01	377.74	475.90	67.93	411.47	96.41	311.96	377.59
24449	-8.81	6.17	-11.67	208.93	70.82	487.08	88.08	400.92	371.20	489.51	74.64	407.98	87.98	308.95	371.05
24450	-7.64	6.16	-11.67	193.11	66.91	460.03	77.68	400.28	365.28	502.41	83.68	404.46	77.91	303.74	365.16
24451	-6.46	6.16	-11.67	175.64	63.99	435.47	66.32	399.38	360.20	515.20	94.01	401.15	67.08	296.82	360.13
24452	-5.29	6.16	-11.67	157.39	62.04	414.02	54.49	398.49	355.95	528.59	104.82	398.13	56.35	288.62	355.95
24453	-4.11	6.16	-11.67	139.44	60.93	396.15	42.59	397.79	352.47	543.27	115.65	395.40	46.86	279.55	352.56
24454	-2.94	6.16	-11.67	123.18	60.49	382.30	31.11	397.38	349.69	559.87	126.26	392.94	40.50	269.92	349.91
24455	-1.76	6.15	-11.67	110.38	60.58	372.85	21.18	397.29	347.58	578.92	136.53	390.72	39.72	260.03	347.97
24456	-0.59	6.15	-11.67	103.11	61.08	368.09	16.24	397.54	346.14	600.88	146.42	388.70	45.63	250.19	346.74
24457	-17.83	7.26	-11.67	170.33	77.19	673.76	91.08	343.16	365.33	254.14	62.29	405.75	92.70	256.21	365.46
24458	-16.68	7.26	-11.67	205.82	77.11	667.67	94.98	372.24	372.83	313.51	56.65	421.10	95.57	280.51	373.18
24459	-15.53	7.26	-11.67	227.83	78.83	652.09	98.15	386.00	379.42	359.07	56.23	430.53	97.96	293.28	379.77
24460	-14.38	7.26	-11.67	238.10	80.94	633.03	101.60	391.66	383.56	392.58	58.50	436.61	100.84	300.08	383.77
24461	-13.23	7.26	-11.67	240.26	81.66	611.34	104.59	394.89	383.65	417.90	60.49	439.46	103.51	305.13	383.68
24462	-12.08	7.26	-11.67	237.43	79.88	586.28	105.20	397.68	379.50	438.50	61.52	438.93	104.04	309.32	379.37
24463	-10.93	7.26	-11.67	231.18	75.99	558.30	102.22	399.69	372.59	456.30	63.28	435.80	101.15	311.61	372.37
24464	-9.78	7.26	-11.67	221.74	71.31	529.06	95.81	400.31	364.84	471.87	67.66	431.33	94.85	311.02	364.60
24465	-8.63	7.26	-11.67	209.08	66.99	500.37	86.97	399.57	357.59	485.43	74.88	426.58	86.05	307.50	357.37
24466	-7.48	7.26	-11.67	193.57	63.61	473.57	76.77	397.99	351.33	497.48	84.01	422.10	75.84	301.66	351.16
24467	-6.33	7.26	-11.67	176.04	61.28	449.47	65.95	396.16	346.13	508.86	94.00	418.11	65.10	294.20	346.03
24468	-5.18	7.25	-11.67	157.56	59.87	428.59	54.97	394.46	341.85	520.43	104.21	414.60	54.67	285.70	341.84
24469	-4.03	7.25	-11.67	139.31	59.20	411.33	44.24	393.12	338.38	532.96	114.28	411.54	45.74	276.56	338.49
24470	-2.88	7.25	-11.67	122.75	59.08	398.02	34.32	392.24	335.63	547.07	124.02	408.85	40.28	267.10	335.90
24471	-1.73	7.25	-11.67	109.65	59.36	388.97	26.37	391.84	333.55	563.28	133.34	406.48	40.68	257.59	334.03
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Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24501	-4.18	5.06	-13.00	168.39	78.03	393.71	48.89	388.83	372.49	645.53	131.12	389.91	52.06	311.74	372.51
24502	-2.99	5.06	-13.00	147.17	76.42	380.52	34.94	388.40	370.34	665.33	143.93	388.23	42.14	304.50	370.40
24503	-1.79	5.05	-13.00	130.82	75.86	371.48	22.75	388.27	368.75	689.35	156.59	386.67	38.35	297.03	368.87
24504	-0.60	5.05	-13.00	121.88	76.20	366.90	16.91	388.40	367.70	718.10	168.99	385.23	43.28	289.53	367.89
24505	-18.21	6.18	-13.00	361.69	144.44	733.78	140.39	406.65	416.35	444.13	111.24	435.08	140.40	349.66	416.39
24506	-17.04	6.18	-13.00	381.01	141.02	703.80	137.48	414.89	410.79	491.88	104.54	435.91	137.35	353.60	410.89
24507	-15.86	6.18	-13.00	379.23	139.50	671.07	132.43	412.00	410.16	519.57	103.20	434.78	132.38	349.73	410.26
24508	-14.69	6.18	-13.00	367.71	139.61	640.83	131.04	406.97	411.57	537.87	104.91	434.44	131.21	345.75	411.63
24509	-13.51	6.17	-13.00	351.71	137.58	611.96	131.89	402.93	410.55	551.72	104.05	433.87	132.35	343.54	410.53
24510	-12.34	6.17	-13.00	333.70	130.92	583.29	131.37	400.45	405.87	563.60	98.49	432.34	132.24	342.74	405.77
24511	-11.16	6.17	-13.00	314.39	120.41	554.57	126.84	398.81	398.64	574.46	91.09	429.85	128.29	341.95	398.51
24512	-9.99	6.17	-13.00	293.49	108.65	526.34	117.95	397.16	390.72	584.43	86.69	426.85	120.09	340.00	390.58
24513	-8.81	6.17	-13.00	270.65	97.93	499.40	105.90	395.22	383.43	593.62	88.20	423.76	108.79	336.50	383.31
24514	-7.64	6.16	-13.00	246.08	89.35	474.49	92.07	393.12	377.29	602.58	95.14	420.87	95.90	331.60	377.19
24515	-6.46	6.16	-13.00	220.52	83.09	452.14	77.46	391.15	372.30	612.23	105.43	418.26	82.62	325.69	372.22
24516	-5.29	6.16	-13.00	194.93	78.88	432.77	62.56	389.48	368.30	623.55	117.30	415.92	70.02	319.10	368.27
24517	-4.11	6.16	-13.00	170.56	76.34	416.71	47.67	388.20	365.15	637.40	129.68	413.84	59.40	312.07	365.17
24518	-2.94	6.16	-13.00	148.95	75.09	404.30	33.09	387.36	362.73	654.49	142.04	411.98	52.78	304.81	362.81
24519	-1.76	6.15	-13.00	132.26	74.83	395.82	19.61	386.96	360.99	675.39	154.12	410.31	52.52	297.49	361.15
24520	-0.59	6.15	-13.00	123.07	75.31	391.52	11.87	386.97	359.89	700.55	165.83	408.82	59.55	290.32	360.16
24521	-17.83	7.26	-13.00	344.23	133.84	731.60	128.72	417.21	397.59	429.77	99.71	454.61	128.92	360.61	397.64
24522	-16.68	7.26	-13.00	361.94	132.78	704.86	126.11	425.00	399.17	475.00	96.69	458.20	126.02	364.42	399.33
24523	-15.53	7.26	-13.00	362.65	135.12	677.12	123.77	422.10	404.34	504.18	100.71	460.56	123.74	360.52	404.51
24524	-14.38	7.26	-13.00	355.67	138.58	652.26	127.07	417.39	408.68	526.05	106.16	462.97	127.27	356.62	408.75
24525	-13.23	7.26	-13.00	344.96	137.04	627.36	132.60	414.43	406.64	544.23	104.89	463.19	133.15	355.24	406.56
24526	-12.08	7.26	-13.00	332.03	128.16	600.47	134.49	413.07	398.15	560.22	96.01	460.57	135.54	355.33	397.94
24527	-10.93	7.26	-13.00	316.58	114.97	571.93	129.88	411.54	386.56	573.97	85.68	456.07	131.52	354.52	386.31
24528	-9.78	7.26	-13.00	297.67	101.80	543.37	119.76	408.88	375.20	584.97	80.91	451.05	121.91	351.53	374.96
24529	-8.63	7.26	-13.00	275.23	91.21	516.31	106.63	405.32	365.68	593.51	84.05	446.40	109.16	346.49	365.47
24530	-7.48	7.26	-13.00	250.14	83.80	491.63	92.43	401.57	358.16	600.75	92.81	442.40	95.24	340.12	358.00
24531	-6.33	7.26	-13.00	223.72	79.17	469.79	78.07	398.16	352.28	608.12	104.27	439.02	81.35	333.05	352.16
24532	-5.18	7.25	-13.00	197.24	76.66	451.04	63.94	395.34	347.66	616.82	116.64	436.15	68.36	325.65	347.61
24533	-4.03	7.25	-13.00	172.03	75.65	435.63	50.31	393.20	344.08	627.77	129.04	433.70	57.51	318.15	344.09
24534	-2.88	7.25	-13.00	149.68	75.64	423.79	37.67	391.73	341.35	641.62	141.06	431.60	50.90	310.70	341.45
24535	-1.73	7.25	-13.00	132.32	76.24	415.75	27.28	390.92	339.41	658.85	152.52	429.78	51.11	303.47	339.61
24536	-0.58	7.25	-13.00	122.64	77.20	411.68	22.35	390.76	338.20	679.85	163.36	428.22	59.03	296.64	338.54
24537	-18.78	3.96	-14.33	717.32	235.68	743.48	248.60	435.28	416.50	787.16	180.08	412.84	249.97	413.84	416.51
24538	-17.57	3.96	-14.33	640.57	206.04	701.35	209.65	410.74	387.86	747.07	145.24	407.56	210.71	387.25	387.86
24539	-16.36	3.96	-14.33	577.59	182.94	663.63	189.29	398.93	383.97	723.08	119.20	404.14	189.90	375.17	383.97
24540	-15.15	3.96	-14.33	524.59	165.27	629.09	175.87	392.63	382.41	709.29	100.90	402.05	175.85	369.69	382.41
24541	-13.94	3.96	-14.33	478.06	151.71	596.28	165.84	388.67	381.54	701.11	89.31	400.44	165.84	366.95	381.54
24542	-12.73	3.96	-14.33	436.01	140.95	564.79	156.99	386.04	380.59	696.34	83.60	399.01	155.28	365.43	380.58
24543	-11.51	3.96	-14.33	397.10	132.07	534.61	147.68	384.28	379.35	694.04	83.56	397.63	144.93	364.34	379.34
24544	-10.30	3.96	-14.33	360.27	124.79	505.91	137.11	383.10	377.91	693.91	89.11	396.27	133.12	363.26	377.90
24545	-9.09	3.96	-14.33	324.74	119.15	478.93	125.30	382.28	376.43	696.04	99.33	394.91	119.71	361.92	376.43
24546	-7.88	3.96	-14.33	290.10	115.16	454.01	112.70	381.71	375.06	700.84	112.57	393.57	104.98	360.25	375.06
24547	-6.67	3.95	-14.33	256.37	112.66	431.50	99.93	381.32	373.87	708.98	127.33	392.27	89.28	358.23	373.87
24548	-5.45	3.95	-14.33	223.98	111.39	411.82	87.63	381.08	372.89	721.23	142.57	390.99	72.89	355.93	372.88
24549	-4.24	3.95	-14.33	193.83	111.05	395.38	76.49	380.99	372.10	738.41	157.69	389.76	55.98	353.38	372.10
24550	-3.03	3.95	-14.33	167.47	111.40	382.60	67.41	381.02	371.50	761.27	172.41	388.57	38.67	350.65	371.51
24551	-1.82	3.95	-14.33	147.33	112.25	373.84	61.45	381.16	371.09	790.55	186.62	387.43	21.23	347.79	371.10
24552	-0.61	3.95	-14.33	136.59	113.47	369.40	59.61	381.35	370.84	826.91	200.31	386.32	7.20	344.82	370.86
24553	-18.53	5.08	-14.33	683.19	239.32	743.18	232.04	393.92	397.77	755.96	185.54	428.42	231.82	372.65	397.77
24554	-17.33	5.08	-14.33	618.66	213.06	703.78	198.51	374.68	373.91	727.21	156.37	424.00	198.25	351.45	373.91
24555	-16.14	5.08	-14.33	562.45	194.34	667.85	179.06	364.52	370.42	708.92	138.06	421.04	178.90	341.02	370.42
24556	-14.94	5.08	-14.33	513.89	181.57	634.71	167.00	358.55	369.46	698.53	127.79	419.16	167.01	335.78	369.47
24557	-13.75	5.07	-14.33	471.20	171.03	603.28	159.00	354.76	368.76	693.25	120.40	417.71	159.18	333.09	368.75
24558	-12.55	5.07	-14.33	432.64	159.63	573.12	151.81	352.33	367.38	691.13	112.51	416.35	152.17	331.68	367.37
24559	-11.36	5.07	-14.33	396.69	146.67	544.20	142.95	350.78	365.32	691.01	104.72	414.95	143.48	330.76	365.31
24560	-10.16	5.07	-14.33	362.00	133.31	516.68	131.45	349.68	362.95	692.25	100.21	413.50	132.13	329.75	362.94
24561	-8.97	5.07	-14.33	327.74	121.14	490.83	117.65	348.81	360.66	694.80	101.48	412.03	118.41	328.39	360.64
24562	-7.77	5.06	-14.33	293.66	111.13	467.00	102.40	348.07	358.66	699.17	108.52	410.59	103.15	326.61	358.64
24563	-6.58	5.06	-14.33	260.05	103.59	445.58	86.43	347.46	357.00	706.21	119.53	409.20	87.18	324.46	356.99
24564	-5.38	5.06	-14.33	227.58	98.35	426.91	70.27	347.01	355.67	716.85	132.65	407.87	71.24	322.03	355.67
24565	-4.18	5.06	-14.33	197.29	95.07	411.38	54.35	346.73	354.63	731.99	146.62	406.59	56.30	319.41	354.63
24566	-2.99	5.06	-14.33	170.82	93.39	399.33	39.30	346.59	353.84	752.40	160.75	405.38	44.32	316.64	353.85
24567	-1.79	5.05	-14.33	150.61	93.01	391.09	26.76	346.61	353.30	778.78	174.70	404.21	39.18	313.79	353.32
24568	-0.60	5.05	-14.33	139.77	93.65	386.89	21.61	346.73	352.98	811.72	188.32	403.11	44.46	310.89	353.00
24569	-18.21	6.18	-14.33	654.68	256.45	745.21	222.77	398.81	400.28						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24599	-1.73	7.25	-14.33	159.94	104.68	436.30	31.85	390.16	366.67	748.76	178.32	448.40	105.15	358.75	366.69
24600	-0.58	7.25	-14.33	148.48	103.13	432.73	25.40	389.88	365.93	772.26	188.97	447.33	115.01	355.84	365.97
24601	-23.24	3.96	-11.67	5.33	53.85	303.43	19.12	59.46	331.58	4.52	63.04	585.56	20.48	62.17	330.92
24602	-22.38	3.96	-11.67	15.31	57.19	414.06	36.69	75.73	355.65	11.60	68.23	379.40	39.06	61.63	354.75
24603	-21.53	3.96	-11.67	28.58	66.23	549.71	59.82	146.41	373.04	50.00	74.20	307.15	61.94	99.58	372.42
24604	-20.67	3.96	-11.67	77.84	75.95	633.75	78.04	225.11	381.75	116.31	77.86	321.11	79.61	159.25	381.44
24605	-19.82	3.96	-11.67	129.29	83.10	674.98	91.93	287.97	385.79	185.38	78.19	346.54	92.96	209.08	385.70
24606	-23.02	5.07	-11.67	7.69	62.71	306.96	23.65	75.61	334.37	7.23	70.17	565.00	25.60	77.06	333.16
24607	-22.15	5.07	-11.67	16.66	64.50	419.48	41.00	91.85	356.92	15.96	74.26	373.57	44.57	77.31	355.41
24608	-21.29	5.08	-11.67	32.37	70.48	550.22	62.13	155.10	373.10	54.59	77.62	312.64	65.38	109.17	372.10
24609	-20.42	5.08	-11.67	78.83	77.60	631.49	78.42	229.39	381.57	118.79	78.73	330.18	80.80	163.80	381.09
24610	-19.56	5.08	-11.67	128.55	82.44	671.35	90.52	289.98	385.91	186.36	76.69	356.67	92.07	211.36	385.77
24611	-22.75	6.17	-11.67	11.00	78.38	309.83	29.82	90.38	326.19	11.35	86.17	548.56	32.82	90.84	323.88
24612	-21.87	6.18	-11.67	19.82	78.07	424.14	45.37	106.19	346.07	20.84	86.97	370.85	50.33	91.09	343.76
24613	-20.99	6.18	-11.67	35.49	78.99	552.30	63.85	164.97	361.53	58.76	85.08	321.70	68.21	119.33	360.11
24614	-20.12	6.18	-11.67	79.67	80.96	630.90	77.84	236.08	370.49	121.54	81.15	343.66	81.00	170.53	369.81
24615	-19.24	6.18	-11.67	127.69	81.72	668.79	87.99	294.32	376.01	187.69	75.07	371.31	90.07	215.91	375.81
24616	-22.42	7.26	-11.67	14.52	88.05	312.19	36.34	102.64	307.21	15.77	98.25	534.16	40.60	102.58	304.13
24617	-21.53	7.26	-11.67	23.71	87.05	428.08	49.41	119.86	324.66	25.70	96.22	366.79	55.66	103.91	321.64
24618	-20.64	7.26	-11.67	38.91	83.48	553.94	65.32	176.87	340.54	63.62	88.70	329.09	70.84	130.87	338.68
24619	-19.75	7.26	-11.67	81.12	81.24	628.61	77.11	245.20	350.78	125.33	80.34	355.39	81.27	179.45	349.85
24620	-18.86	7.26	-11.67	126.85	79.16	663.44	85.40	300.42	358.17	189.45	71.47	383.98	88.25	222.16	357.87
24621	-23.24	3.96	-13.00	25.80	88.79	348.55	23.90	75.04	413.61	23.32	95.36	570.29	26.10	75.27	413.33
24622	-22.38	3.96	-13.00	76.33	117.23	577.27	85.06	176.12	443.64	86.61	116.33	336.55	86.93	161.00	443.07
24623	-21.53	3.96	-13.00	193.95	139.70	696.81	114.28	290.18	442.95	215.97	129.89	344.80	115.87	262.03	442.61
24624	-20.67	3.96	-13.00	284.82	152.13	741.50	135.56	355.02	437.43	321.62	134.11	373.96	136.67	315.07	437.27
24625	-19.82	3.96	-13.00	342.25	155.88	751.63	148.36	393.57	428.16	396.43	130.67	392.07	149.11	343.93	428.11
24626	-23.02	5.07	-13.00	22.63	93.58	362.34	33.84	92.62	420.65	20.11	98.10	534.73	36.75	92.32	419.52
24627	-22.15	5.07	-13.00	76.52	117.04	581.02	88.26	172.15	448.53	87.76	116.14	342.27	90.96	156.59	447.52
24628	-21.29	5.08	-13.00	185.82	142.40	695.13	114.81	277.34	448.15	209.40	132.34	356.55	116.96	248.60	447.63
24629	-20.42	5.08	-13.00	274.24	152.91	738.31	133.73	342.42	442.73	313.01	134.24	386.43	135.15	302.12	442.50
24630	-19.56	5.08	-13.00	331.70	153.84	747.44	144.63	381.49	434.00	388.13	127.74	404.65	145.52	331.78	433.93
24631	-22.75	6.17	-13.00	21.69	101.12	368.15	35.92	108.05	406.92	18.82	105.81	524.10	39.01	107.05	403.86
24632	-21.87	6.18	-13.00	75.59	122.47	587.19	85.74	179.03	433.52	88.19	121.53	356.61	88.45	162.58	431.89
24633	-20.99	6.18	-13.00	180.71	144.37	699.56	110.64	280.58	433.53	206.30	133.91	378.42	112.25	250.99	432.86
24634	-20.12	6.18	-13.00	266.65	150.37	740.70	128.03	345.13	429.46	307.91	130.97	409.13	128.78	304.32	429.17
24635	-19.24	6.18	-13.00	321.78	148.43	748.35	136.87	383.15	423.27	381.01	121.53	427.18	137.18	333.33	423.18
24636	-22.42	7.26	-13.00	24.84	135.58	364.00	48.31	121.59	374.38	22.06	141.45	528.46	53.28	120.05	369.56
24637	-21.53	7.26	-13.00	77.82	137.36	592.42	88.23	196.93	399.69	92.03	136.57	366.83	91.89	179.09	397.66
24638	-20.64	7.26	-13.00	180.75	145.37	703.25	108.41	298.59	401.42	208.92	134.59	396.24	110.54	267.89	400.60
24639	-19.75	7.26	-13.00	261.06	143.46	740.10	121.71	360.17	400.32	305.36	123.30	427.33	122.95	318.73	399.92
24640	-18.86	7.26	-13.00	309.96	138.43	745.69	127.40	395.56	398.33	372.55	110.41	445.46	128.11	345.57	398.19
24641	-23.24	3.96	-14.33	356.09	282.34	586.67	224.68	273.57	619.28	356.44	273.17	374.25	225.14	274.49	619.34
24642	-22.38	3.96	-14.33	552.99	288.27	768.59	212.80	441.71	521.47	556.07	266.74	377.27	214.86	438.92	521.39
24643	-21.53	3.96	-14.33	640.03	283.81	792.57	213.13	480.73	506.82	650.65	251.95	398.50	215.66	472.54	506.79
24644	-20.67	3.96	-14.33	695.15	275.26	786.48	228.31	482.07	497.03	718.88	234.58	407.67	230.60	468.62	497.01
24645	-19.82	3.96	-14.33	742.95	260.71	773.79	258.26	464.71	466.57	784.92	212.02	413.78	259.99	446.99	466.57
24646	-23.02	5.07	-14.33	306.97	197.60	609.43	178.80	238.00	563.61	307.71	188.24	374.94	179.10	238.38	563.26
24647	-22.15	5.07	-14.33	495.76	269.82	769.44	182.75	376.71	488.36	500.05	247.00	392.23	183.89	373.45	488.22
24648	-21.29	5.08	-14.33	599.11	278.74	792.95	195.82	419.86	474.62	611.71	244.81	414.31	196.69	411.35	474.58
24649	-20.42	5.08	-14.33	660.42	269.79	786.55	214.47	427.42	464.30	686.77	226.91	423.70	214.73	413.78	464.28
24650	-19.56	5.08	-14.33	703.98	259.16	772.51	240.15	416.31	438.47	749.05	209.96	429.20	240.05	398.54	438.47
24651	-22.75	6.17	-14.33	297.73	191.23	615.11	167.70	251.01	548.88	299.11	182.99	386.09	167.93	250.69	547.78
24652	-21.87	6.18	-14.33	476.40	284.77	773.04	182.59	375.57	480.50	482.33	262.89	413.05	182.12	371.76	480.30
24653	-20.99	6.18	-14.33	580.94	290.10	796.12	199.78	420.32	466.72	596.10	257.07	435.54	198.30	411.40	466.70
24654	-20.12	6.18	-14.33	638.64	276.08	788.50	213.28	429.68	457.08	668.29	234.81	444.42	211.35	415.82	457.07
24655	-19.24	6.18	-14.33	675.73	269.37	773.57	231.97	419.78	434.99	724.64	224.04	449.55	230.00	401.95	434.98
24656	-22.42	7.26	-14.33	327.77	272.43	607.08	184.08	299.24	568.91	329.84	266.30	402.85	183.52	298.19	567.07
24657	-21.53	7.26	-14.33	503.11	314.99	779.68	210.66	429.44	490.08	511.12	294.89	436.13	207.81	424.93	489.98
24658	-20.64	7.26	-14.33	584.98	291.85	799.94	212.39	471.36	475.68	603.36	260.63	458.44	208.22	461.93	475.68
24659	-19.75	7.26	-14.33	622.02	280.62	790.42	216.50	477.00	469.06	655.64	242.62	466.90	211.88	462.85	469.04
24660	-18.86	7.26	-14.33	646.92	284.29	775.11	229.44	465.78	450.74	700.32	244.57	472.15	224.96	447.86	450.72
24661	18.52	8.10	-11.67	259.24	85.19	676.68	86.30	317.04	335.54	1605.08	85.22	417.57	383.42	887.94	408.56
24662	19.42	8.10	-11.67	279.74	88.78	643.17	87.70	277.78	327.48	1868.58	72.37	377.93	386.57	1033.99	447.14
24663	20.33	8.10	-11.67	317.50	100.01	563.25	91.31	241.95	318.11	2230.01	164.39	445.20	383.62	1269.73	493.35
24664	21.23	8.10	-11.67	363.87	135.28	411.85	99.82	239.02	308.84	2705.08	430.40	956.23	361.76	1731.01	540.93
24665	22.14	8.10	-11.67	399.73	212.32	222.67	123.06	266.16	373.11	3251.05	1230.18	3168.86	331.65	2579.86	728.94
24666	18.24	8.70	-11.67	233.38	83.40	666.46	91.15	315.86	331.67	1423.28	80.43	413.51	439.32	818.51	419.40
24667	19.16	8.70	-11.67	245.60	85.97	636.11	95.97	275.98	323.16	1631.27	68.83	380.8			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24697	14.11	8.10	-11.67	259.29	84.98	643.46	93.07	390.65	365.88	1052.05	175.58	444.88	320.46	455.44	366.12
24698	13.89	8.70	-11.67	250.20	82.11	643.19	93.45	386.27	362.08	981.81	161.94	449.42	329.14	434.69	362.38
24699	12.98	8.10	-11.67	255.83	84.26	623.39	97.58	395.84	365.84	988.89	182.47	439.37	300.98	386.37	366.17
24700	12.78	8.70	-11.67	248.84	80.60	625.98	97.29	392.51	361.52	927.72	167.88	445.16	306.24	373.75	361.88
24701	11.85	8.10	-11.67	249.92	81.61	598.68	99.84	400.84	361.30	933.80	185.72	431.78	280.55	334.89	363.04
24702	11.67	8.70	-11.67	245.10	77.70	602.41	98.81	398.45	356.84	878.61	171.66	437.79	283.66	327.89	358.66
24703	10.73	8.10	-11.67	241.53	77.58	570.11	98.58	404.10	354.31	883.14	186.11	423.91	258.59	296.70	357.43
24704	10.56	8.70	-11.67	238.49	73.78	573.97	97.05	401.72	350.05	833.02	172.88	429.88	259.95	293.25	353.29
24705	9.60	8.10	-11.67	229.95	73.30	540.10	94.03	404.72	347.00	836.21	184.26	417.49	234.55	268.32	350.94
24706	9.45	8.70	-11.67	227.90	69.85	543.93	92.42	401.57	343.07	791.22	172.05	423.50	234.39	266.61	347.11
24707	8.47	8.10	-11.67	214.92	69.54	510.93	87.27	403.14	340.59	793.18	181.29	413.14	209.26	247.64	344.78
24708	8.34	8.70	-11.67	213.25	66.53	514.95	86.00	399.03	337.06	753.20	170.43	419.29	208.15	246.44	341.31
24709	7.34	8.10	-11.67	197.07	66.57	483.97	79.27	400.35	335.42	753.89	177.72	410.61	183.96	233.55	339.45
24710	7.22	8.70	-11.67	195.49	63.99	488.38	78.62	395.38	332.22	718.71	168.17	416.89	182.27	232.34	336.31
24711	6.21	8.10	-11.67	177.47	64.31	459.90	70.59	397.18	331.37	718.06	173.67	409.37	159.47	225.21	335.02
24712	6.11	8.70	-11.67	175.92	62.06	464.78	70.73	391.56	328.40	687.31	165.34	415.72	157.46	223.72	332.10
24713	5.08	8.10	-11.67	157.34	62.56	439.11	61.54	394.15	328.29	685.43	169.12	409.01	136.26	221.67	331.43
24714	5.00	8.70	-11.67	155.82	60.59	444.48	62.60	388.04	325.45	658.71	161.90	415.39	134.06	219.74	328.66
24715	3.95	8.10	-11.67	137.96	61.18	421.92	52.38	391.51	326.05	655.84	164.04	409.26	114.55	221.96	328.66
24716	3.89	8.70	-11.67	136.47	59.42	427.73	54.51	385.05	323.28	632.71	157.80	415.64	112.22	219.51	325.95
24717	2.82	8.10	-11.67	120.79	60.04	408.63	43.50	389.37	324.59	629.19	158.39	409.97	94.51	225.21	326.68
24718	2.78	8.70	-11.67	119.34	58.45	414.81	46.87	382.68	321.84	609.25	153.04	416.35	92.06	222.21	323.99
24719	1.69	8.10	-11.67	107.68	59.07	399.54	35.58	387.75	323.89	605.37	152.15	411.09	76.36	230.64	325.50
24720	1.67	8.70	-11.67	106.28	57.61	405.98	40.35	380.92	321.14	588.27	147.63	417.47	73.76	227.09	322.80
24721	0.56	8.10	-11.67	100.64	58.25	394.89	29.88	386.66	323.92	584.28	145.33	412.58	60.56	237.61	325.11
24722	0.56	8.70	-11.67	99.30	56.89	401.48	35.97	379.76	321.15	569.65	141.56	419.57	57.75	233.55	322.38
24723	17.50	8.10	-13.00	344.86	137.19	729.46	111.86	428.32	369.40	1159.47	214.22	444.12	451.73	822.49	390.45
24724	17.23	8.70	-13.00	326.81	141.15	713.36	109.15	425.57	367.29	1080.71	198.58	439.98	481.77	764.81	392.90
24725	16.37	8.10	-13.00	361.21	137.20	704.92	110.92	433.69	377.76	1150.31	233.92	451.71	448.70	691.65	385.32
24726	16.11	8.70	-13.00	344.30	142.26	691.82	107.86	432.57	377.91	1080.16	218.57	451.12	469.37	654.20	387.00
24727	15.24	8.10	-13.00	364.44	139.79	681.22	112.37	429.70	388.50	1139.83	244.74	457.02	433.34	580.46	390.30
24728	15.00	8.70	-13.00	351.60	144.82	674.09	110.67	428.83	390.02	1071.77	230.73	460.36	447.91	556.35	392.22
24729	14.11	8.10	-13.00	361.81	142.59	660.94	121.01	425.27	395.06	1119.79	251.92	459.66	412.36	493.46	395.10
24730	13.89	8.70	-13.00	353.26	146.59	659.82	121.35	425.54	396.38	1052.59	238.72	464.04	423.80	478.30	396.42
24731	12.98	8.10	-13.00	355.70	138.99	638.37	131.51	424.01	390.78	1089.34	252.97	456.75	388.86	430.59	391.21
24732	12.78	8.70	-13.00	352.84	141.74	639.92	133.06	426.21	389.78	1022.20	239.32	459.25	398.76	424.23	390.29
24733	11.85	8.10	-13.00	346.42	127.81	610.95	136.08	423.81	377.89	1050.79	247.57	450.08	361.44	385.71	379.42
24734	11.67	8.70	-13.00	347.78	128.58	611.70	136.70	426.03	374.24	984.90	233.64	449.95	369.26	383.53	375.93
24735	10.73	8.10	-13.00	332.15	114.01	580.50	132.41	421.63	362.52	1008.01	238.59	442.93	328.84	351.88	364.91
24736	10.56	8.70	-13.00	334.86	113.62	579.43	131.58	422.00	357.59	946.53	224.92	441.00	334.26	350.87	360.15
24737	9.60	8.10	-13.00	311.96	102.29	550.17	123.31	416.92	349.08	964.29	229.01	437.37	292.47	325.71	351.81
24738	9.45	8.70	-13.00	314.48	101.25	547.86	121.81	414.87	344.18	908.79	216.21	434.78	296.17	324.33	347.03
24739	8.47	8.10	-13.00	286.86	94.05	522.00	112.17	410.90	338.80	921.36	220.53	433.73	255.35	305.93	341.49
24740	8.34	8.70	-13.00	288.48	92.17	519.22	110.73	406.74	334.48	872.36	208.91	431.10	258.22	303.59	337.24
24741	7.34	8.10	-13.00	258.75	88.78	496.77	100.75	404.84	331.12	879.84	213.22	431.51	219.70	292.02	333.58
24742	7.22	8.70	-13.00	259.55	85.81	493.93	99.67	399.14	327.38	837.09	202.65	428.97	222.34	288.78	329.88
24743	6.21	8.10	-13.00	229.50	85.56	474.65	89.52	399.42	325.29	840.07	206.57	430.20	186.43	283.25	327.44
24744	6.11	8.70	-13.00	229.74	81.33	471.94	88.85	392.62	322.00	803.04	196.82	427.79	189.13	279.22	324.17
24745	5.08	8.10	-13.00	200.59	83.61	455.75	78.62	394.85	320.85	802.51	200.08	429.52	155.77	278.71	322.65
24746	5.00	8.70	-13.00	200.47	78.13	453.23	78.30	387.27	317.89	770.62	190.99	427.23	158.63	273.95	319.71
24747	3.95	8.10	-13.00	173.36	82.37	440.21	68.21	391.16	317.52	767.65	193.40	429.30	127.71	277.50	318.98
24748	3.89	8.70	-13.00	173.00	75.78	437.90	68.21	383.03	314.81	740.37	184.85	427.14	130.74	272.06	316.29
24749	2.82	8.10	-13.00	149.43	81.43	428.25	58.64	388.33	315.17	735.94	186.27	429.47	102.21	278.85	316.31
24750	2.78	8.70	-13.00	148.93	73.99	426.13	58.93	379.82	312.64	712.78	178.22	427.43	105.42	272.81	313.80
24751	1.69	8.10	-13.00	131.02	80.54	420.08	50.61	386.33	313.75	707.67	178.51	430.02	79.38	282.13	314.60
24752	1.67	8.70	-13.00	130.44	72.55	418.10	51.15	377.60	311.37	688.19	170.98	428.10	82.76	275.59	312.23
24753	0.56	8.10	-13.00	120.80	79.53	415.92	45.21	385.11	313.29	682.99	170.03	430.97	59.71	286.85	313.89
24754	0.56	8.70	-13.00	120.25	71.37	414.05	45.98	376.27	311.03	666.72	163.07	429.19	63.23	279.90	311.64
24755	17.50	8.10	-14.33	583.56	264.45	745.65	187.32	511.70	438.36	901.35	405.65	454.56	650.16	695.22	441.04
24756	17.23	8.70	-14.33	530.26	198.99	731.76	159.30	511.11	438.16	900.45	327.96	451.60	576.40	666.55	441.92
24757	16.37	8.10	-14.33	531.63	269.85	712.83	170.18	494.79	433.68	1113.08	399.76	458.68	642.01	611.34	434.65
24758	16.11	8.70	-14.33	484.28	200.08	701.72	132.29	506.95	445.55	1090.46	324.68	458.84	578.89	605.77	446.91
24759	15.24	8.10	-14.33	503.43	294.70	685.35	169.67	486.78	447.01	1218.76	407.12	463.08	621.78	552.89	447.24
24760	15.00	8.70	-14.33	470.40	228.75	678.18	131.94	507.88	470.16	1173.11	337.84	465.58	566.09	563.45	470.50
24761	14.11	8.10	-14.33	489.97	312.28	661.09	182.48	481.99	454.71	1249.81	414.82	465.43	593.29	511.15	454.71
24762	13.89	8.70	-14.33	483.78	250.34	658.68	161.10	505.63	480.34	1172.67	352.50	468.13	541.28	527.60	480.34
24763	12.98	8.10	-14.33	480.91	296.67	636.30	196.00	479.86	448.67	1236.02	399.76	464.46	557.53	482.93	448.81
24764	12.78	8.70	-14.33	491.56	221.84	634.95	184.40	499.83	465.25	1143.07	332.54	464.79	499.21	499.27	465.44
24765	11.85	8.10	-14.33	465.70	255.67	609.48									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24795	-8.47	8.10	-11.67	209.29	64.29	508.28	85.52	397.59	348.64	482.03	76.54	438.26	83.33	305.47	348.38
24796	-7.34	8.10	-11.67	193.78	61.22	481.68	75.82	395.04	342.69	493.09	85.17	433.21	73.16	298.89	342.50
24797	-6.21	8.10	-11.67	176.04	59.09	457.98	65.77	392.33	337.80	503.11	94.38	428.84	62.62	290.90	337.69
24798	-5.08	8.10	-11.67	157.32	57.78	437.59	55.75	389.93	333.78	513.08	103.69	425.09	52.50	282.10	333.78
24799	-3.95	8.10	-11.67	138.84	57.10	420.83	46.16	388.05	330.52	523.79	112.84	421.87	43.99	272.91	330.66
24800	-2.82	8.10	-11.67	122.05	56.93	407.95	37.59	386.78	327.92	535.84	121.65	419.07	39.14	263.60	328.24
24801	-1.69	8.10	-11.67	108.76	57.12	399.21	31.07	386.14	325.96	549.70	130.03	416.62	40.33	254.41	326.51
24802	-0.56	8.10	-11.67	101.06	57.58	394.80	28.12	386.11	324.63	565.76	137.95	414.44	48.01	245.64	325.46
24803	-17.23	8.70	-11.67	163.00	72.29	657.13	89.48	343.24	350.80	250.29	56.16	417.68	92.23	257.20	350.92
24804	-16.11	8.70	-11.67	194.89	72.85	654.77	92.90	366.97	360.10	304.62	52.45	436.05	93.91	276.58	360.51
24805	-15.00	8.70	-11.67	216.06	74.35	646.98	96.62	377.81	367.60	348.01	53.18	449.68	96.17	286.23	368.00
24806	-13.89	8.70	-11.67	227.14	75.58	636.45	100.78	383.69	371.61	381.47	55.96	459.20	99.24	292.90	371.81
24807	-12.78	8.70	-11.67	231.47	75.33	620.94	103.71	388.96	370.85	407.93	58.68	463.50	101.48	299.48	370.80
24808	-11.67	8.70	-11.67	231.98	73.04	598.50	103.56	393.95	365.89	430.69	61.27	462.30	100.95	305.50	365.66
24809	-10.56	8.70	-11.67	228.88	69.34	570.79	99.86	396.59	358.68	450.49	64.90	457.45	96.93	308.24	358.37
24810	-9.45	8.70	-11.67	221.28	65.27	541.22	93.27	396.15	351.15	466.60	70.48	451.28	89.83	306.57	350.85
24811	-8.34	8.70	-11.67	209.14	61.80	512.58	85.03	393.62	344.50	479.19	77.76	445.32	80.73	301.50	344.25
24812	-7.22	8.70	-11.67	193.44	59.20	486.32	76.08	390.22	338.94	489.31	86.02	440.09	70.60	294.26	338.76
24813	-6.11	8.70	-11.67	175.48	57.41	463.07	66.95	386.83	334.34	498.22	94.67	435.61	60.09	285.86	334.25
24814	-5.00	8.70	-11.67	156.57	56.32	443.15	57.99	383.91	330.53	506.98	103.34	431.79	49.88	276.88	330.55
24815	-3.89	8.70	-11.67	137.96	55.78	426.81	49.61	381.65	327.42	516.36	111.82	428.51	41.11	267.67	327.59
24816	-2.78	8.70	-11.67	121.05	55.66	414.28	42.37	380.10	324.95	526.91	119.97	425.66	35.92	258.49	325.29
24817	-1.67	8.70	-11.67	107.64	55.87	405.76	37.09	379.30	323.07	539.06	127.68	423.16	37.00	249.54	323.65
24818	-0.56	8.70	-11.67	99.82	56.30	401.44	34.75	379.21	321.81	553.22	134.90	420.91	44.92	241.11	322.67
24819	-17.50	8.10	-13.00	325.09	126.57	720.98	120.73	420.40	376.12	413.41	91.69	458.99	122.01	364.12	376.18
24820	-16.37	8.10	-13.00	342.94	126.85	697.66	117.94	428.95	384.03	457.95	90.75	466.25	118.37	368.98	384.26
24821	-15.24	8.10	-13.00	347.25	130.93	675.56	117.94	426.38	394.06	489.89	97.31	472.93	117.96	365.38	394.29
24822	-14.11	8.10	-13.00	345.94	135.43	656.55	125.46	422.22	400.12	516.65	103.80	478.32	125.30	361.87	400.18
24823	-12.98	8.10	-13.00	341.17	132.92	634.91	134.45	420.53	395.66	540.01	100.99	478.63	134.28	361.55	395.49
24824	-11.85	8.10	-13.00	333.36	121.84	608.21	137.15	419.73	382.73	560.28	89.74	473.93	137.10	362.02	382.40
24825	-10.73	8.10	-13.00	320.86	107.28	578.28	131.57	417.12	367.23	576.20	79.12	466.74	131.47	360.02	366.85
24826	-9.60	8.10	-13.00	302.67	94.45	548.28	120.65	412.25	353.50	587.14	76.68	459.50	120.02	354.77	353.16
24827	-8.47	8.10	-13.00	279.58	85.30	520.35	107.86	406.29	342.87	594.20	82.43	453.36	106.05	347.37	342.59
24828	-7.34	8.10	-13.00	253.35	79.62	495.33	95.02	400.46	334.81	599.32	92.65	448.41	91.39	339.08	334.60
24829	-6.21	8.10	-13.00	225.79	76.60	473.42	82.73	395.43	328.61	604.38	104.55	444.39	76.72	330.62	328.46
24830	-5.08	8.10	-13.00	198.32	75.40	454.77	71.24	391.38	323.77	610.70	116.80	441.07	62.46	322.28	323.69
24831	-3.95	8.10	-13.00	172.25	75.40	439.51	60.88	388.32	320.01	619.13	128.76	438.30	49.42	314.19	320.01
24832	-2.82	8.10	-13.00	149.12	76.10	427.84	52.23	386.20	317.15	630.23	140.15	435.97	39.68	306.46	317.26
24833	-1.69	8.10	-13.00	131.07	77.18	419.91	46.13	384.99	315.09	644.39	150.84	434.00	37.21	299.21	315.33
24834	-0.56	8.10	-13.00	120.87	78.38	415.89	43.59	384.65	313.78	661.92	160.80	432.32	44.65	292.63	314.17
24835	-17.23	8.70	-13.00	308.60	129.34	706.04	116.06	419.04	372.82	399.12	95.66	455.01	117.66	363.00	372.88
24836	-16.11	8.70	-13.00	327.54	131.94	685.69	113.57	428.29	383.16	444.06	98.21	465.21	114.17	368.76	383.42
24837	-15.00	8.70	-13.00	336.30	136.63	669.20	115.64	425.52	394.77	479.74	105.63	475.63	115.65	364.92	395.02
24838	-13.89	8.70	-13.00	339.48	140.50	655.82	125.65	422.23	400.89	510.62	111.54	483.46	125.31	362.23	400.91
24839	-12.78	8.70	-13.00	340.44	137.05	636.70	136.12	422.30	394.39	539.03	108.33	483.53	135.75	363.49	394.14
24840	-11.67	8.70	-13.00	336.83	124.25	609.15	138.07	421.54	378.95	562.78	96.50	476.74	137.78	363.85	378.54
24841	-10.56	8.70	-13.00	325.56	108.81	577.39	131.19	417.24	362.22	579.34	86.19	467.40	130.71	360.07	361.79
24842	-9.45	8.70	-13.00	307.01	95.57	546.15	119.69	410.06	348.55	589.29	83.33	458.88	118.47	352.44	348.18
24843	-8.34	8.70	-13.00	282.78	85.75	517.72	106.98	402.06	338.54	594.49	87.28	452.18	104.33	343.05	338.25
24844	-7.22	8.70	-13.00	255.46	78.97	492.63	94.55	394.74	331.13	597.69	95.16	446.99	89.90	333.37	330.91
24845	-6.11	8.70	-13.00	227.09	74.48	470.86	82.67	388.65	325.43	600.95	104.84	442.88	75.59	324.01	325.28
24846	-5.00	8.70	-13.00	199.06	71.71	452.41	71.55	383.84	320.97	605.53	115.21	439.54	61.81	315.13	320.90
24847	-3.89	8.70	-13.00	172.59	70.23	437.37	61.49	380.23	317.49	612.17	125.64	436.76	49.52	306.74	317.50
24848	-2.78	8.70	-13.00	149.15	69.70	425.87	53.08	377.72	314.84	621.34	135.78	434.42	40.96	298.89	314.95
24849	-1.67	8.70	-13.00	130.84	69.84	418.08	47.12	376.25	312.89	633.34	145.43	432.41	39.86	291.70	313.13
24850	-0.56	8.70	-13.00	120.43	70.44	414.09	44.54	375.80	311.59	648.40	154.54	430.67	48.05	285.35	311.99
24851	-17.50	8.10	-14.33	583.32	252.89	743.76	193.65	508.34	440.49	667.45	211.13	482.25	190.03	487.57	440.50
24852	-16.37	8.10	-14.33	524.64	260.40	711.10	170.57	492.51	435.17	640.87	224.55	481.51	167.06	470.20	435.22
24853	-15.24	8.10	-14.33	491.31	287.01	683.92	167.11	484.99	447.67	641.52	258.56	483.28	165.37	462.36	447.72
24854	-14.11	8.10	-14.33	475.11	305.97	659.86	179.01	480.21	454.79	659.90	280.32	485.02	179.89	458.06	454.79
24855	-12.98	8.10	-14.33	464.98	291.59	635.22	191.57	477.78	448.65	683.78	264.32	484.19	194.91	456.39	448.59
24856	-11.85	8.10	-14.33	449.95	251.28	608.58	190.28	475.21	434.45	701.96	221.78	480.74	195.77	454.53	434.35
24857	-10.73	8.10	-14.33	425.53	205.62	581.40	175.59	471.09	419.40	710.51	176.28	476.32	182.95	450.87	419.31
24858	-9.60	8.10	-14.33	392.85	166.90	555.40	154.07	465.86	407.14	711.08	142.46	472.20	162.99	445.67	407.06
24859	-8.47	8.10	-14.33	355.42	138.38	531.59	131.73	460.56	398.25	707.63	124.57	468.84	141.98	439.96	398.19
24860	-7.34	8.10	-14.33	316.64	118.29	510.30	110.82	455.97	391.70	703.94	119.69	466.14	122.47	434.52	391.66
24861	-6.21	8.10	-14.33	278.51	104.56	491.60	91.26	452.24	386.68	702.27	123.54	463.90	104.94	429.54	386.65
24862	-5.08	8.10	-14.33	242.16	95.73	475.63	72.76	449.32	382.79	703.81	132.38	462.00	89.86	425.00	382.77
24863	-3.95	8.10	-14.33	208.67	90.58	462.54	55.13	447.10	379.79	709.27	143.61	460.36	78.39	420.8	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24893	-22.14	8.10	-13.00	33.46	163.40	359.14	64.16	131.47	331.37	29.87	171.11	524.14	70.44	130.71	326.75
24894	-21.23	8.10	-13.00	83.58	145.27	594.33	96.41	208.32	363.68	99.49	144.57	363.35	101.52	189.34	361.53
24895	-20.33	8.10	-13.00	181.70	141.67	698.07	110.27	306.47	367.59	212.26	130.68	397.74	114.47	274.83	366.52
24896	-19.42	8.10	-13.00	253.78	136.42	730.48	119.36	364.14	369.34	300.85	115.85	428.94	122.61	322.17	368.76
24897	-18.52	8.10	-13.00	295.42	130.89	734.41	121.85	398.40	371.21	361.06	102.12	447.73	124.19	348.28	370.98
24898	-21.91	8.70	-13.00	28.04	146.13	367.39	53.94	144.78	322.02	25.55	156.25	500.09	59.21	143.72	318.83
24899	-20.99	8.70	-13.00	88.83	133.60	593.31	96.74	215.48	356.67	106.23	132.26	356.88	102.33	195.67	354.44
24900	-20.07	8.70	-13.00	179.27	131.36	688.36	109.02	306.80	360.03	211.65	119.53	392.87	114.00	274.49	358.71
24901	-19.16	8.70	-13.00	243.89	130.87	717.12	116.38	362.20	362.96	293.12	109.44	423.37	120.26	319.84	362.22
24902	-18.24	8.70	-13.00	281.51	129.82	719.32	117.78	396.81	366.10	349.60	100.91	442.34	120.58	346.58	365.80
24903	-22.14	8.10	-14.33	410.02	329.16	601.66	212.72	372.41	583.38	413.04	323.74	403.21	212.48	370.61	581.79
24904	-21.23	8.10	-14.33	531.36	274.69	779.22	193.75	505.83	490.77	541.56	252.88	442.87	192.07	500.62	490.80
24905	-20.33	8.10	-14.33	577.33	251.74	795.46	186.27	538.34	482.08	598.68	217.42	465.71	184.03	528.45	482.05
24906	-19.42	8.10	-14.33	595.25	244.60	785.02	190.82	541.72	479.26	632.45	202.19	474.56	187.99	527.31	479.20
24907	-18.52	8.10	-14.33	612.91	249.12	769.94	203.93	530.17	464.39	670.37	205.01	480.82	200.66	512.16	464.36
24908	-21.91	8.70	-14.33	415.13	344.98	602.86	275.59	351.17	552.96	419.50	340.68	385.50	277.71	348.48	552.24
24909	-20.99	8.70	-14.33	513.44	279.04	769.12	214.23	482.30	468.22	525.59	259.62	434.67	219.46	476.55	468.11
24910	-20.07	8.70	-14.33	543.29	262.50	782.48	204.61	513.73	464.47	567.18	230.94	456.98	211.54	503.49	464.38
24911	-19.16	8.70	-14.33	553.11	237.18	771.01	198.68	522.57	464.48	593.46	194.08	466.08	205.55	507.96	464.39
24912	-18.24	8.70	-14.33	561.94	209.02	755.21	195.25	519.10	454.11	623.06	154.70	473.13	200.49	501.01	454.07
24913	11.69	9.49	-11.67	239.92	73.54	612.39	96.73	391.16	354.03	816.50	152.08	445.85	290.52	325.85	355.42
24914	12.72	9.44	-11.67	240.93	76.80	631.41	95.75	384.53	357.59	860.11	148.63	451.11	312.79	365.39	357.78
24915	13.76	9.39	-11.67	240.51	79.25	643.63	93.10	378.20	358.23	906.20	143.87	453.19	336.08	417.08	358.66
24916	11.91	10.47	-11.67	231.15	68.34	627.26	93.97	376.57	354.22	740.59	123.87	456.76	298.31	324.95	354.70
24917	12.81	10.33	-11.67	229.87	71.79	638.19	93.16	370.33	355.61	780.17	121.79	457.35	318.63	357.63	355.61
24918	13.70	10.18	-11.67	228.32	75.18	643.84	91.89	365.61	355.04	821.15	118.50	455.91	340.19	400.07	355.85
24919	12.11	11.46	-11.67	219.12	62.92	638.50	90.86	357.42	353.79	658.78	94.89	468.27	300.94	318.03	353.76
24920	12.88	11.21	-11.67	217.22	66.18	642.52	90.13	353.14	354.59	695.77	95.34	464.00	319.09	344.61	354.76
24921	13.63	10.96	-11.67	217.54	70.77	643.97	89.83	350.64	354.20	733.75	93.67	459.60	337.18	381.09	355.53
24922	0.57	9.89	-11.67	96.91	53.74	423.87	39.11	360.56	322.81	538.11	132.90	440.63	60.52	220.08	324.01
24923	1.70	9.88	-11.67	104.42	54.38	427.90	42.98	362.23	322.82	553.34	137.80	438.57	77.31	214.67	324.43
24924	2.84	9.86	-11.67	118.38	55.17	436.11	48.95	364.75	323.50	570.83	142.01	436.70	96.27	211.14	325.59
24925	3.96	9.83	-11.67	136.42	56.15	448.25	56.06	368.17	324.87	590.63	145.47	435.05	116.98	210.10	327.46
24926	5.08	9.80	-11.67	156.52	57.35	464.04	63.60	372.50	326.91	612.88	148.20	433.66	139.26	212.27	329.99
24927	6.20	9.76	-11.67	177.10	58.84	483.22	71.14	377.65	329.60	637.73	150.20	432.64	162.99	218.41	333.13
24928	7.31	9.71	-11.67	196.79	60.71	505.59	78.38	383.36	333.00	665.50	151.54	432.24	188.04	229.32	336.84
24929	8.42	9.66	-11.67	214.17	63.09	530.90	85.08	389.01	337.21	696.80	152.30	432.88	214.13	245.59	341.13
24930	9.52	9.60	-11.67	227.65	66.09	558.58	90.85	393.29	342.34	732.49	152.57	435.25	240.61	267.30	345.99
24931	10.62	9.54	-11.67	236.21	69.71	586.96	95.03	394.40	348.27	773.00	152.36	439.81	266.44	294.20	351.14
24932	0.60	11.68	-11.67	93.37	50.82	472.81	34.48	332.51	323.76	488.98	120.50	488.13	71.17	200.38	324.75
24933	1.80	11.64	-11.67	101.72	51.23	475.72	39.23	334.76	324.13	499.76	123.82	484.89	88.64	196.24	325.44
24934	2.99	11.58	-11.67	116.97	51.88	482.31	46.34	338.17	325.35	512.73	126.30	481.26	107.94	194.37	327.03
24935	4.16	11.50	-11.67	136.22	52.76	492.30	54.48	342.85	327.37	528.00	127.91	477.25	128.70	195.44	329.43
24936	5.32	11.40	-11.67	157.16	53.88	505.43	62.79	348.85	330.08	545.84	128.66	472.91	150.71	200.17	332.49
24937	6.47	11.28	-11.67	178.08	55.26	521.51	70.80	356.03	333.38	566.59	128.63	468.32	173.90	209.30	336.05
24938	7.60	11.15	-11.67	197.51	56.93	540.39	78.17	364.06	337.17	590.87	127.90	463.71	198.21	223.51	339.94
24939	8.72	10.99	-11.67	213.81	58.98	561.97	84.62	372.12	341.45	619.79	126.68	459.55	223.51	243.11	344.10
24940	9.83	10.82	-11.67	225.06	61.55	585.57	89.70	378.24	346.09	655.00	125.25	456.71	249.37	267.46	348.34
24941	10.92	10.63	-11.67	230.59	64.78	608.94	92.94	380.00	350.68	697.11	124.04	455.91	275.07	295.63	352.19
24942	0.63	13.48	-11.67	89.60	53.83	534.01	20.34	310.54	314.63	436.58	109.40	547.80	86.88	186.28	315.26
24943	1.88	13.42	-11.67	98.24	53.52	535.75	27.87	312.72	315.46	443.06	110.90	543.65	104.15	183.09	316.30
24944	3.11	13.32	-11.67	113.74	53.29	540.24	37.56	316.13	317.43	451.55	111.37	538.31	122.77	182.21	318.50
24945	4.33	13.19	-11.67	132.99	53.20	547.21	47.65	320.91	320.45	462.31	110.84	531.76	142.42	184.37	321.74
24946	5.53	13.03	-11.67	153.56	53.31	556.44	57.45	327.12	324.38	475.79	109.39	524.01	162.91	190.28	325.83
24947	6.70	12.83	-11.67	173.70	53.68	567.78	66.66	334.62	329.06	492.50	107.13	515.10	184.20	200.66	330.58
24948	7.86	12.61	-11.67	191.94	54.37	581.11	75.01	343.10	334.36	513.29	104.24	505.14	206.31	216.13	335.79
24949	8.99	12.35	-11.67	206.65	55.49	596.37	82.14	351.68	340.16	539.61	100.97	494.47	229.36	236.91	341.32
24950	10.11	12.06	-11.67	215.84	57.17	612.88	87.31	358.10	345.98	573.63	97.66	483.91	253.37	261.97	346.71
24951	11.19	11.74	-11.67	219.37	59.72	628.30	90.12	359.84	350.85	615.74	95.04	474.65	278.28	290.42	351.12
24952	0.65	15.28	-11.67	84.20	65.59	593.82	8.41	297.34	302.86	382.52	103.05	606.13	99.24	180.03	303.13
24953	1.95	15.20	-11.67	92.51	64.42	594.80	19.61	299.04	303.87	385.40	102.62	601.61	115.67	177.58	304.22
24954	3.22	15.07	-11.67	107.22	62.71	597.47	30.60	301.77	306.13	390.11	100.79	595.05	132.99	177.23	306.56
24955	4.47	14.90	-11.67	125.31	60.56	601.60	41.12	305.66	309.53	397.04	97.65	586.45	150.97	179.67	310.03
24956	5.71	14.67	-11.67	144.40	58.17	607.00	51.11	310.73	313.97	406.78	93.41	575.81	169.49	185.57	314.50
24957	6.91	14.40	-11.67	162.77	55.86	613.46	60.57	316.84	319.41	419.99	88.35	563.08	188.57	195.54	319.87
24958	8.09	14.08	-11.67	179.09	53.99	620.81	69.33	323.66	325.81	437.61	82.87	548.27	208.31	210.15	326.08
24959	9.24	13.72	-11.67	191.99	52.96	628.86	76.98	330.48	333.13	461.09	77.38	531.43	229.04	229.62	333.13
24960	10.36	13.31	-11.67	199.93	53.18	636.91	82.55	335.39	340.80	492.51	72.40	513.10	251.16	253.14	340.55
24961	11.45	12.86	-11.67	203.04	54.95	643.19	85.36	336.48	347						



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
24991	12.93	14.37	-11.67	160.44	45.11	650.83	69.45	287.89	328.16	416.41	43.89	505.57	266.83	285.67	331.01
24992	12.65	13.39	-11.67	183.79	51.98	650.03	78.64	311.47	343.73	493.80	47.22	492.67	286.12	296.90	344.75
24993	12.36	12.43	-11.67	203.02	57.74	645.79	85.73	334.60	350.75	574.35	66.54	480.06	296.11	307.74	350.84
24994	13.86	13.54	-11.67	163.18	51.30	641.86	72.04	289.76	334.40	471.44	48.58	480.82	294.70	323.77	340.59
24995	13.48	12.78	-11.67	184.77	56.79	644.74	79.44	312.17	345.61	545.91	50.02	475.17	309.48	330.65	348.52
24996	13.10	12.03	-11.67	202.18	61.39	644.86	85.48	333.14	351.23	618.28	68.05	470.07	314.80	335.49	352.15
24997	14.74	12.66	-11.67	164.89	59.50	635.14	76.74	297.04	336.02	549.86	51.33	462.00	327.66	376.37	348.21
24998	14.28	12.13	-11.67	185.70	63.12	640.41	81.80	316.64	344.66	611.27	54.27	462.23	335.96	375.28	351.15
24999	13.81	11.61	-11.67	202.33	65.17	643.07	86.84	334.82	351.16	667.89	72.86	461.94	334.75	372.98	354.05
25000	11.69	9.49	-13.00	352.27	117.42	623.84	136.79	425.29	384.05	905.25	207.58	455.12	369.31	385.92	385.45
25001	12.72	9.44	-13.00	351.38	130.69	649.12	133.32	425.66	399.27	942.40	213.26	464.82	398.63	422.22	399.62
25002	13.76	9.39	-13.00	344.77	138.51	662.55	121.80	423.14	406.16	975.59	214.70	470.01	423.71	466.23	406.20
25003	11.91	10.47	-13.00	353.26	103.03	649.10	136.06	413.11	389.77	809.17	169.69	471.01	373.51	382.88	390.43
25004	12.81	10.33	-13.00	344.72	112.61	665.48	131.41	412.89	402.09	849.39	173.47	476.30	396.82	412.95	402.15
25005	13.70	10.18	-13.00	334.66	120.94	669.33	121.30	410.41	407.20	885.24	176.13	479.24	419.63	447.84	407.35
25006	12.11	11.46	-13.00	344.45	95.38	667.29	133.58	392.68	384.89	714.94	134.83	485.81	375.10	370.25	384.96
25007	12.88	11.21	-13.00	334.79	103.34	674.55	129.48	392.44	394.36	755.87	140.32	483.52	395.56	393.98	394.36
25008	13.63	10.96	-13.00	314.16	107.34	669.85	117.67	387.70	394.95	806.48	139.25	481.92	407.79	420.22	395.28
25009	0.57	9.89	-13.00	117.34	70.52	433.54	65.08	344.83	320.62	631.41	155.68	448.11	51.37	252.17	321.20
25010	1.70	9.88	-13.00	128.54	71.57	437.07	68.57	346.89	321.13	648.26	162.42	446.35	72.59	249.03	321.93
25011	2.84	9.86	-13.00	148.83	72.60	444.43	74.28	350.34	322.68	667.98	168.27	444.81	96.74	247.90	323.77
25012	3.96	9.83	-13.00	174.89	73.71	455.38	81.41	355.34	325.23	690.48	173.25	443.44	123.28	249.38	326.62
25013	5.08	9.80	-13.00	204.27	75.15	469.72	89.40	361.97	328.71	715.42	177.49	442.23	152.20	254.06	330.41
25014	6.20	9.76	-13.00	235.35	77.24	487.31	97.86	370.31	333.16	742.29	181.18	441.23	183.59	262.70	335.17
25015	7.31	9.71	-13.00	266.89	80.42	508.14	106.56	380.52	338.71	770.59	184.60	440.60	217.60	276.24	340.99
25016	8.42	9.66	-13.00	297.46	85.28	532.39	115.41	392.66	345.69	800.10	188.21	440.65	254.36	295.74	348.19
25017	9.52	9.60	-13.00	324.58	92.71	560.52	124.48	406.19	355.07	831.51	192.78	442.15	293.64	321.75	357.63
25018	10.62	9.54	-13.00	343.83	103.66	592.26	132.57	418.40	367.96	867.08	199.11	446.72	333.38	352.83	370.33
25019	0.60	11.68	-13.00	117.40	60.52	488.88	47.81	298.93	308.83	577.48	139.67	501.97	76.05	211.63	309.32
25020	1.80	11.64	-13.00	129.82	61.73	491.24	54.01	301.62	310.01	588.29	145.16	499.02	97.32	209.62	310.69
25021	2.99	11.58	-13.00	152.17	63.47	496.89	63.40	306.23	312.81	601.72	149.69	495.70	121.23	210.16	313.71
25022	4.16	11.50	-13.00	180.37	65.65	505.55	74.25	313.07	317.05	617.91	153.24	492.00	147.17	214.02	318.20
25023	5.32	11.40	-13.00	211.64	68.29	517.07	85.61	322.21	322.57	636.55	155.88	487.85	174.97	221.82	323.94
25024	6.47	11.28	-13.00	244.27	71.40	531.38	96.93	333.82	329.34	657.19	157.73	483.28	204.59	234.38	330.90
25025	7.60	11.15	-13.00	277.08	75.07	548.55	107.87	348.19	337.39	679.43	158.97	478.35	236.11	252.77	339.07
25026	8.72	10.99	-13.00	308.65	79.47	569.03	118.15	365.70	346.90	703.33	159.91	473.33	269.70	278.31	348.62
25027	9.83	10.82	-13.00	335.96	85.17	593.84	127.75	385.90	358.97	730.70	161.28	468.97	305.64	311.63	360.61
25028	10.92	10.63	-13.00	351.80	93.11	622.69	134.38	404.10	374.18	767.52	164.09	467.64	342.12	349.19	375.55
25029	0.63	13.48	-13.00	119.62	78.26	551.06	20.64	275.79	288.54	520.87	135.62	562.78	106.57	193.55	288.86
25030	1.88	13.42	-13.00	132.26	77.49	552.56	33.05	278.18	290.00	525.90	138.56	559.15	127.57	191.88	290.44
25031	3.11	13.32	-13.00	154.98	77.05	556.59	47.85	282.50	293.44	533.24	140.40	554.50	150.76	192.79	294.03
25032	4.33	13.19	-13.00	183.47	77.02	562.89	62.69	289.18	298.69	543.27	141.13	548.81	175.55	197.15	299.44
25033	5.53	13.03	-13.00	214.74	77.46	571.34	77.15	298.28	305.56	555.87	140.87	542.02	201.67	205.55	306.45
25034	6.70	12.83	-13.00	247.00	78.47	581.87	91.07	309.97	314.10	570.76	139.79	534.06	228.93	218.81	315.05
25035	7.86	12.61	-13.00	279.03	80.13	594.52	104.34	324.63	324.38	587.78	138.10	524.87	257.18	238.04	325.32
25036	8.99	12.35	-13.00	309.47	82.45	609.70	116.78	342.88	336.66	607.24	136.03	514.42	286.43	264.77	337.45
25037	10.11	12.06	-13.00	335.33	85.58	628.53	128.13	364.65	352.19	631.55	134.01	502.82	317.15	299.94	352.75
25038	11.19	11.74	-13.00	347.50	89.98	650.26	134.34	383.95	370.35	669.50	132.82	492.10	348.48	338.83	370.66
25039	0.65	15.28	-13.00	120.39	123.42	607.58	13.23	265.62	279.96	463.11	154.67	618.17	127.32	187.73	280.09
25040	1.95	15.20	-13.00	132.43	121.39	608.60	27.99	267.58	281.28	463.32	154.82	614.31	147.63	186.47	281.48
25041	3.22	15.07	-13.00	154.08	118.45	611.37	43.52	271.32	284.64	465.59	153.13	608.77	169.70	187.62	284.92
25042	4.47	14.90	-13.00	181.20	114.66	615.72	58.49	277.23	289.85	470.46	149.60	601.59	192.99	192.01	290.22
25043	5.71	14.67	-13.00	210.74	110.16	621.52	72.90	285.33	296.78	478.08	144.40	592.70	217.23	200.17	297.21
25044	6.91	14.40	-13.00	240.78	105.25	628.67	86.85	295.68	305.54	488.50	137.81	582.01	242.20	212.74	305.98
25045	8.09	14.08	-13.00	269.94	100.34	637.07	100.38	308.51	316.40	501.93	130.23	569.35	267.67	230.63	316.76
25046	9.24	13.72	-13.00	296.79	95.98	646.75	113.45	324.21	329.86	519.10	122.15	554.38	293.45	255.04	330.01
25047	10.36	13.31	-13.00	318.86	92.69	658.10	125.60	342.69	347.47	542.50	114.13	536.42	319.97	286.79	347.38
25048	11.45	12.86	-13.00	328.95	92.04	669.29	131.89	358.72	368.32	579.74	107.36	515.99	347.27	321.67	368.16
25049	0.67	17.07	-13.00	119.01	167.87	666.82	36.27	265.17	278.47	405.07	183.18	676.21	143.51	190.66	278.49
25050	1.99	16.99	-13.00	129.97	165.72	667.43	41.88	266.59	279.74	401.40	181.78	672.17	162.12	189.87	279.79
25051	3.30	16.84	-13.00	149.72	161.56	668.93	50.53	269.43	282.84	399.58	177.67	665.76	181.95	191.18	282.91
25052	4.59	16.62	-13.00	174.50	155.14	671.17	60.40	274.01	287.52	400.31	170.63	656.98	202.68	195.27	287.63
25053	5.85	16.34	-13.00	201.32	146.54	674.03	70.86	280.30	293.73	404.01	160.77	645.80	224.15	202.57	293.84
25054	7.09	15.99	-13.00	228.14	136.10	677.36	81.75	288.22	301.67	411.06	148.37	632.14	246.24	213.50	301.75
25055	8.29	15.58	-13.00	253.49	124.35	680.97	92.99	297.75	311.78	422.01	133.81	615.81	268.81	228.63	311.78
25056	9.46	15.11	-13.00	275.97	112.10	684.55	104.42	308.92	324.75	437.88	117.60	596.44	291.81	248.65	324.60
25057	10.60	14.58	-13.00	293.93	100.56	687.68	115.29	321.44	342.04	460.87	100.52	573.16	315.57	274.00	341.80
25058	11.69	14.00	-13.00	303.74	92.93	688.07	121.49	332.52	363.56	495.57	85.63	545.45	340.14	302.80	363.50
25059	0.68	18.88	-13.00	110.53											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
25089	13.76	9.39	-14.33	489.11	233.56	666.05	168.15	494.86	501.54	1074.44	318.56	479.87	541.14	512.77	501.53
25090	11.91	10.47	-14.33	591.47	151.93	650.95	223.26	441.42	430.15	808.03	232.10	493.09	491.76	430.30	430.39
25091	12.81	10.33	-14.33	574.75	195.98	670.96	215.32	484.31	487.02	858.76	263.87	496.76	542.29	485.11	487.08
25092	13.70	10.18	-14.33	502.38	236.62	681.35	178.34	505.69	528.03	951.57	293.77	499.12	572.63	521.24	528.01
25093	12.11	11.46	-14.33	624.99	142.62	674.19	239.37	447.42	432.78	660.68	191.75	512.26	490.89	439.88	432.81
25094	12.88	11.21	-14.33	601.46	158.12	685.32	220.62	502.63	495.73	716.18	203.12	509.87	522.97	503.86	495.72
25095	13.63	10.96	-14.33	547.93	203.37	695.26	195.41	540.29	550.35	797.49	239.12	511.82	567.75	554.89	550.37
25096	0.57	9.89	-14.33	132.97	167.99	461.60	132.20	304.68	303.82	719.14	229.76	474.45	15.80	270.96	303.92
25097	1.70	9.88	-14.33	148.83	169.34	464.49	135.19	307.38	305.71	736.96	237.17	473.08	37.46	271.56	305.86
25098	2.84	9.86	-14.33	176.82	168.73	470.54	139.54	312.19	309.51	759.64	242.35	471.78	64.80	274.43	309.70
25099	3.96	9.83	-14.33	212.27	166.61	479.56	144.98	318.95	314.72	786.25	245.78	470.48	95.34	279.62	314.97
25100	5.08	9.80	-14.33	252.47	163.09	491.41	151.30	327.79	321.44	815.70	247.65	469.15	129.20	287.45	321.76
25101	6.20	9.76	-14.33	296.09	158.20	505.95	158.35	339.01	329.89	846.64	248.13	467.83	166.83	298.48	330.27
25102	7.31	9.71	-14.33	342.62	152.01	523.09	165.96	353.14	340.39	877.40	247.49	466.56	208.89	313.57	340.85
25103	8.42	9.66	-14.33	391.87	144.86	542.90	174.17	371.03	353.53	905.86	246.26	465.47	256.42	333.97	354.05
25104	9.52	9.60	-14.33	443.41	137.89	565.77	183.54	394.02	370.46	929.95	245.65	464.88	311.22	361.53	371.05
25105	10.62	9.54	-14.33	493.91	135.46	592.34	196.99	423.38	396.46	949.62	248.93	465.73	376.12	398.04	397.12
25106	0.60	11.68	-14.33	143.53	74.94	516.54	54.68	231.42	246.97	662.61	163.09	528.05	84.53	199.58	247.06
25107	1.80	11.64	-14.33	161.13	77.64	518.52	64.50	234.01	249.14	671.09	171.57	525.74	109.46	200.28	249.27
25108	2.99	11.58	-14.33	192.04	81.13	523.21	78.07	239.52	254.29	684.90	178.75	523.07	137.91	204.06	254.47
25109	4.16	11.50	-14.33	230.72	85.36	530.40	93.45	247.58	261.35	702.70	184.83	519.96	169.11	210.73	261.57
25110	5.32	11.40	-14.33	274.23	90.31	539.96	109.76	258.27	270.46	723.17	190.00	516.36	202.88	220.63	270.73
25111	6.47	11.28	-14.33	321.29	95.93	551.75	126.63	272.02	281.92	744.79	194.48	512.27	239.28	234.45	282.24
25112	7.60	11.15	-14.33	371.67	102.21	565.72	143.88	289.66	296.17	765.61	198.50	507.69	278.57	253.32	296.52
25113	8.72	10.99	-14.33	426.07	109.12	582.04	161.60	312.67	313.89	782.82	202.41	502.64	321.36	279.15	314.26
25114	9.83	10.82	-14.33	486.47	116.94	601.55	180.70	344.22	336.32	792.32	206.92	497.35	369.70	315.64	336.71
25115	10.92	10.63	-14.33	554.50	128.68	626.00	207.54	389.72	374.75	790.27	215.26	493.06	430.35	368.79	375.17
25116	0.63	13.48	-14.33	152.99	110.76	568.31	19.17	221.80	228.04	604.64	170.59	578.80	125.67	191.74	228.09
25117	1.88	13.42	-14.33	170.39	109.02	569.74	39.46	223.62	229.67	605.67	175.03	576.00	150.66	191.92	229.75
25118	3.11	13.32	-14.33	201.39	107.97	573.36	60.40	228.54	234.68	611.99	178.10	572.36	178.86	195.34	234.79
25119	4.33	13.19	-14.33	240.28	107.65	578.99	80.97	236.04	241.67	622.24	179.99	567.82	209.58	201.69	241.81
25120	5.53	13.03	-14.33	283.97	108.19	586.51	101.26	246.14	250.86	635.13	180.89	562.35	242.52	211.24	251.03
25121	6.70	12.83	-14.33	331.08	109.78	595.80	121.44	259.26	262.58	649.27	181.06	555.93	277.49	224.65	262.77
25122	7.86	12.61	-14.33	381.32	112.63	606.80	141.76	276.23	277.37	662.86	180.89	548.51	314.29	243.08	277.56
25123	8.99	12.35	-14.33	435.66	116.91	619.61	162.73	298.76	296.05	672.96	180.87	539.96	352.74	268.62	296.21
25124	10.11	12.06	-14.33	497.67	122.61	635.01	185.80	331.14	319.91	674.09	181.45	530.01	393.28	306.13	320.01
25125	11.19	11.74	-14.33	577.22	131.07	655.10	220.54	383.67	365.81	655.11	184.81	519.08	443.64	366.76	365.87
25126	0.65	15.28	-14.33	162.17	191.81	618.78	22.92	213.77	221.88	545.17	221.50	628.40	155.06	185.21	221.90
25127	1.95	15.20	-14.33	178.57	188.88	619.78	40.79	215.26	223.13	540.30	222.12	625.30	179.54	185.36	223.17
25128	3.22	15.07	-14.33	208.17	184.74	622.38	60.99	219.75	227.74	540.14	220.30	620.82	206.88	188.65	227.80
25129	4.47	14.90	-14.33	245.57	179.56	626.47	81.18	226.76	234.37	543.68	216.23	614.95	236.46	194.82	234.45
25130	5.71	14.67	-14.33	287.56	173.42	631.97	101.16	236.31	243.21	550.00	210.02	607.70	267.93	204.09	243.31
25131	6.91	14.40	-14.33	332.40	166.50	638.77	121.08	248.74	254.65	558.19	201.81	599.04	300.99	217.05	254.76
25132	8.09	14.08	-14.33	379.27	159.14	646.78	141.23	264.74	269.29	567.09	191.94	588.91	335.20	234.68	269.38
25133	9.24	13.72	-14.33	428.21	151.87	655.95	162.29	285.67	288.15	575.01	180.94	577.10	369.82	258.69	288.20
25134	10.36	13.31	-14.33	480.86	145.46	666.50	186.24	314.84	313.04	578.65	169.78	562.96	403.71	292.92	313.00
25135	11.45	12.86	-14.33	543.86	140.76	678.62	221.66	361.66	361.22	571.26	159.30	545.08	438.63	347.48	361.14
25136	0.67	17.07	-14.33	172.79	286.08	672.63	57.67	209.05	224.11	486.81	299.46	681.39	180.71	181.64	224.11
25137	1.99	16.99	-14.33	187.72	283.32	673.23	65.89	210.38	225.22	477.09	298.38	678.05	203.74	181.99	225.23
25138	3.30	16.84	-14.33	215.05	277.69	674.78	78.56	214.44	229.29	471.16	293.52	672.72	229.26	185.23	229.32
25139	4.59	16.62	-14.33	250.05	269.12	677.25	93.19	220.92	235.32	468.62	284.81	665.47	256.74	191.25	235.37
25140	5.85	16.34	-14.33	289.35	257.48	680.55	108.73	229.85	243.47	469.10	272.09	656.31	285.90	200.27	243.54
25141	7.09	15.99	-14.33	330.77	242.80	684.60	124.82	241.46	254.13	472.24	255.28	645.20	316.40	212.71	254.21
25142	8.29	15.58	-14.33	372.86	225.22	689.25	141.37	256.20	267.93	477.74	234.30	632.12	347.77	229.25	267.99
25143	9.46	15.11	-14.33	414.43	204.88	694.35	158.65	274.82	285.95	485.48	208.96	616.86	379.25	250.95	285.98
25144	10.60	14.58	-14.33	454.52	181.89	699.57	177.64	298.85	310.20	495.61	178.73	598.77	409.56	279.72	310.17
25145	11.69	14.00	-14.33	493.54	155.63	703.87	200.62	332.64	352.25	508.85	141.69	576.36	437.43	320.53	352.23
25146	0.68	18.88	-14.33	185.15	397.28	733.39	116.60	239.01	245.26	430.90	402.38	741.30	221.70	212.34	245.26
25147	2.02	18.79	-14.33	198.97	396.23	733.65	118.99	239.84	246.66	415.53	401.88	737.74	241.74	212.61	246.66
25148	3.36	18.61	-14.33	224.71	390.65	734.10	122.89	242.47	250.13	403.10	396.23	731.52	263.38	214.92	250.13
25149	4.68	18.35	-14.33	258.02	379.25	734.67	127.78	246.90	255.01	394.18	384.17	722.64	286.44	219.38	255.01
25150	5.97	18.01	-14.33	295.06	361.92	735.30	133.53	253.11	261.47	388.90	365.54	711.11	310.71	226.13	261.48
25151	7.23	17.59	-14.33	333.14	339.02	735.92	140.14	261.16	269.95	387.32	340.51	696.97	335.92	235.39	269.95
25152	8.47	17.09	-14.33	370.32	310.65	736.44	147.64	271.27	280.99	389.86	308.85	680.23	361.76	247.54	280.99
25153	9.66	16.51	-14.33	404.73	276.63	736.66	155.98	283.79	295.45	397.50	269.77	660.83	387.78	263.18	295.42
25154	10.81	15.87	-14.33	434.08	236.43	736.16	164.94	299.26	314.82	412.33	221.49	638.44	413.12	283.08	314.79
25155	11.91	15.15	-14.33	456.29	188.54	733.94	172.82	319.09	344.23	438.56	159.55	612.33	435.90	308.92	344.24
25156	16.80	9.56	-14.33	446.25	187.46	720.74	143.34	452.73	420.17	907.30	269.24	466.19	575.11	573.70	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
25187	3.49	19.90	-11.67	65.76	36.73	684.50	24.31	288.29	202.35	239.88	42.01	682.92	105.51	184.53	202.04
25188	2.10	20.10	-11.67	58.33	38.65	685.01	22.11	289.98	197.18	237.57	46.40	689.93	93.26	183.61	197.13
25189	0.70	20.20	-11.67	54.42	39.85	684.75	21.01	291.04	194.53	236.10	49.47	693.46	81.75	183.84	194.58
25190	18.68	9.66	-11.67	190.33	83.79	623.86	99.21	268.13	320.29	1236.30	74.85	388.27	531.26	774.75	488.75
25191	17.95	10.95	-11.67	134.01	78.37	610.39	90.69	258.59	317.46	806.36	104.81	404.71	467.20	587.19	454.14
25192	17.14	12.19	-11.67	109.49	67.91	604.45	79.30	249.57	309.57	561.34	111.07	426.63	370.68	467.79	398.29
25193	16.24	13.37	-11.67	104.98	55.59	604.91	69.44	242.22	301.25	431.79	105.12	448.32	300.17	388.23	352.88
25194	15.26	14.48	-11.67	106.52	46.63	610.73	60.91	238.55	293.39	358.41	97.09	470.51	256.05	330.40	322.49
25195	14.20	15.53	-11.67	106.68	41.54	619.93	54.31	240.16	282.04	314.81	86.44	496.03	226.43	288.82	298.31
25196	13.07	16.49	-11.67	103.85	36.59	629.74	49.97	245.89	266.20	287.87	72.89	524.11	203.19	259.89	274.63
25197	11.88	17.37	-11.67	98.97	30.31	638.42	46.43	253.22	247.81	269.58	58.44	552.22	182.93	239.30	251.11
25198	10.62	18.17	-11.67	93.14	23.84	645.47	42.42	260.49	229.16	256.07	44.52	578.39	164.76	223.70	229.22
25199	9.32	18.87	-11.67	86.84	18.70	651.05	37.79	267.02	211.54	245.62	32.04	601.71	148.08	211.36	209.83
25200	7.96	19.48	-11.67	80.25	15.81	655.44	32.97	272.64	195.45	237.23	21.95	621.89	132.46	201.49	193.12
25201	6.57	19.99	-11.67	73.57	15.25	658.88	28.28	277.28	181.20	230.35	15.95	638.84	117.61	193.63	179.05
25202	5.14	20.41	-11.67	67.06	16.17	661.52	23.90	280.92	169.11	224.75	16.04	652.50	103.40	187.53	167.60
25203	3.69	20.72	-11.67	61.19	17.67	663.47	20.05	283.79	159.60	220.44	20.31	662.86	89.99	183.20	158.85
25204	2.22	20.93	-11.67	56.85	19.55	664.50	17.35	286.24	153.30	217.20	25.57	669.76	77.76	180.91	153.12
25205	0.74	21.03	-11.67	54.90	21.50	664.41	16.30	287.92	150.45	214.44	29.94	673.02	66.62	180.30	150.51
25206	19.60	9.70	-11.67	193.31	90.61	561.52	109.61	222.23	311.15	1329.85	155.78	408.06	617.98	857.96	594.94
25207	18.85	11.08	-11.67	109.48	82.13	559.45	91.55	210.48	304.64	728.30	195.07	401.70	490.58	579.16	532.86
25208	18.01	12.41	-11.67	77.18	68.09	559.94	74.56	206.31	290.37	462.48	169.79	417.31	348.06	450.70	442.80
25209	17.08	13.67	-11.67	72.27	54.67	562.51	64.45	205.81	275.88	354.56	142.49	437.43	267.60	380.53	372.13
25210	16.06	14.85	-11.67	74.76	46.72	567.71	56.34	208.36	263.65	298.41	125.81	456.96	224.81	329.49	322.16
25211	14.95	15.97	-11.67	76.53	43.85	575.45	49.20	214.94	250.14	267.11	111.23	478.03	198.70	291.14	284.73
25212	13.77	17.00	-11.67	75.66	41.52	584.08	44.21	224.77	233.46	250.19	95.46	501.08	179.34	263.83	252.67
25213	12.52	17.94	-11.67	73.33	37.34	592.16	40.94	235.62	214.29	240.06	78.90	524.62	162.24	244.04	223.15
25214	11.20	18.79	-11.67	70.99	31.77	599.01	37.92	245.82	194.20	232.79	62.71	547.01	146.10	228.59	196.13
25215	9.83	19.55	-11.67	69.14	25.93	604.57	34.39	254.73	174.35	226.69	47.62	567.21	130.54	215.60	172.03
25216	8.41	20.20	-11.67	67.70	20.46	609.02	30.32	262.20	155.37	221.01	34.02	584.76	115.40	204.30	150.97
25217	6.94	20.76	-11.67	66.50	15.58	612.57	25.88	268.21	137.69	215.43	22.13	599.47	100.61	194.40	132.96
25218	5.43	21.20	-11.67	65.42	11.31	615.45	21.16	272.77	121.84	209.91	12.36	611.31	86.16	185.83	118.04
25219	3.90	21.54	-11.67	64.41	7.74	618.09	16.27	276.15	108.75	204.85	7.08	620.51	72.35	178.85	106.53
25220	2.35	21.76	-11.67	64.10	5.09	620.69	12.08	279.07	100.27	200.64	9.36	627.43	59.93	174.26	99.52
25221	0.78	21.87	-11.67	65.05	5.33	622.72	10.51	281.16	98.07	196.54	13.90	631.79	49.08	172.11	98.06
25222	20.51	9.75	-11.67	197.13	112.63	443.58	126.51	192.87	301.53	1379.07	344.78	645.17	742.00	977.78	750.37
25223	19.75	11.21	-11.67	80.72	89.94	467.34	85.65	169.19	289.40	541.71	321.42	466.94	470.88	519.84	624.22
25224	18.89	12.62	-11.67	50.17	67.71	479.59	62.51	169.92	268.28	319.86	220.47	435.95	287.93	410.77	495.51
25225	17.92	13.96	-11.67	46.90	53.60	486.62	54.31	175.88	248.32	261.70	169.81	442.12	220.05	364.65	406.37
25226	16.86	15.22	-11.67	48.45	46.03	492.52	48.25	184.07	232.18	228.57	144.43	451.80	186.09	324.54	336.16
25227	15.71	16.41	-11.67	50.28	43.99	499.33	42.61	195.11	216.98	214.99	126.42	463.29	167.39	292.48	282.25
25228	14.48	17.51	-11.67	51.15	43.46	506.84	38.80	208.00	200.27	210.95	109.16	476.40	154.04	268.22	238.67
25229	13.17	18.52	-11.67	52.68	41.43	514.15	37.04	220.85	181.61	210.99	91.53	490.51	141.31	249.68	201.14
25230	11.79	19.42	-11.67	56.09	37.62	520.60	35.83	232.35	161.71	211.54	74.28	504.43	127.84	234.09	167.95
25231	10.35	20.23	-11.67	60.92	32.88	525.99	33.91	242.06	141.35	211.11	58.25	517.19	113.55	219.77	138.62
25232	8.85	20.93	-11.67	66.14	27.96	530.37	30.87	250.01	120.98	209.21	44.02	528.24	98.70	206.12	112.92
25233	7.30	21.52	-11.67	71.02	23.29	533.94	26.76	256.32	100.90	205.75	31.97	537.35	83.58	193.14	90.61
25234	5.72	21.99	-11.67	75.14	19.11	536.99	21.68	260.98	81.33	200.82	22.38	544.47	68.43	181.02	71.52
25235	4.11	22.35	-11.67	78.18	15.73	540.53	15.63	264.28	62.91	195.07	16.00	550.33	53.70	170.34	55.75
25236	2.47	22.59	-11.67	81.47	11.98	545.93	8.72	267.16	48.73	190.10	11.97	556.55	40.43	162.33	45.37
25237	0.83	22.71	-11.67	85.63	8.34	553.57	4.43	269.59	43.96	185.84	10.36	564.18	29.86	157.99	43.56
25238	21.43	9.79	-11.67	168.99	181.81	299.70	144.83	178.57	301.94	1161.57	840.56	1380.60	826.68	1003.00	902.03
25239	20.65	11.34	-11.67	32.98	89.60	354.96	56.47	147.20	270.87	168.08	383.76	594.04	271.01	360.37	642.54
25240	19.76	12.83	-11.67	32.34	61.22	379.57	43.50	155.81	247.83	172.96	233.48	520.66	188.92	377.29	544.71
25241	18.76	14.25	-11.67	31.83	47.95	392.70	39.43	163.69	224.45	144.95	174.59	490.17	158.10	352.36	448.74
25242	17.66	15.59	-11.67	33.97	39.14	400.34	36.21	173.64	206.19	144.53	144.75	484.57	142.56	325.17	363.20
25243	16.47	16.85	-11.67	36.14	34.64	407.01	33.86	185.89	190.76	151.01	125.21	481.55	136.56	298.62	293.52
25244	15.18	18.02	-11.67	40.03	33.01	413.87	33.93	199.00	175.41	162.88	107.55	479.96	132.10	276.25	238.14
25245	13.81	19.09	-11.67	47.34	31.37	420.60	35.92	211.27	158.88	175.28	89.41	479.19	125.53	257.45	192.77
25246	12.37	20.05	-11.67	57.29	28.32	426.69	37.61	221.78	141.20	185.62	71.29	478.78	115.77	240.21	154.38
25247	10.86	20.91	-11.67	67.92	24.03	431.88	37.54	230.40	122.81	192.77	54.24	478.19	103.26	223.26	121.43
25248	9.29	21.65	-11.67	77.87	19.15	436.15	35.42	237.36	104.09	196.51	39.07	477.07	88.83	206.26	93.21
25249	7.67	22.28	-11.67	86.49	14.31	439.70	31.43	242.86	85.23	196.95	26.29	475.32	73.29	189.45	69.23
25250	6.01	22.78	-11.67	93.45	9.87	442.80	25.85	246.98	66.27	194.29	16.02	473.04	57.29	173.31	49.09
25251	4.32	23.17	-11.67	98.48	6.51	447.03	19.07	249.81	47.03	189.02	8.55	471.27	41.42	158.58	32.03
25252	2.60	23.42	-11.67	104.44	2.71	455.96	11.20	252.50	28.96	185.36	2.91	474.50	27.13	146.90	18.90
25253	0.87	23.55	-11.67	110.88	4.14	466.16	3.84	252.90	11.29	180.85	4.38	480.01	13.41	137.60	8.28
25254	17.76	9.62	-13.00	272.49	137.80	705.76	111.60	394.64	371.74	933.88	135.07	431.29	498.62	750.50	428.17
25255	17.06	10.82	-13.00	240.96	130.19	689.03	107.88	372.38	372.64	764.36	91.10	457.18	476.37	601.60	412.24
25256	16.27	11.98	-13.00												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
25285	0.74	21.03	-13.00	82.23	138.79	745.70	49.04	302.06	203.09	275.94	141.57	753.16	111.17	230.11	203.10
25286	19.60	9.70	-13.00	180.48	136.10	676.01	110.75	306.99	365.92	794.00	88.21	431.40	488.22	832.31	551.51
25287	18.85	11.08	-13.00	154.96	122.61	677.50	105.15	276.10	351.67	565.80	106.71	441.83	438.44	580.52	492.35
25288	18.01	12.41	-13.00	141.77	105.51	681.34	92.05	265.19	326.66	433.69	115.15	475.74	369.05	456.85	410.22
25289	17.08	13.67	-13.00	147.30	84.48	683.24	81.66	258.41	312.75	360.33	118.27	504.13	316.24	392.39	356.96
25290	16.06	14.85	-13.00	159.42	65.31	687.36	70.60	254.40	303.90	315.07	115.64	530.49	284.93	345.97	327.18
25291	14.95	15.97	-13.00	166.72	52.61	693.86	60.71	254.57	292.41	289.76	104.39	557.83	264.96	312.06	305.03
25292	13.77	17.00	-13.00	165.76	46.90	700.93	54.89	259.42	276.64	277.31	88.55	586.15	247.44	288.95	283.03
25293	12.52	17.94	-13.00	158.70	48.29	707.21	51.40	266.65	258.68	270.71	75.31	613.85	229.01	273.18	261.00
25294	11.20	18.79	-13.00	148.44	55.06	712.27	47.90	274.23	240.83	266.16	69.03	639.51	209.76	261.71	240.52
25295	9.83	19.55	-13.00	136.50	63.98	716.21	44.25	281.26	224.18	262.35	69.51	662.46	190.32	252.91	222.42
25296	8.41	20.20	-13.00	123.51	72.94	719.28	41.13	287.40	209.07	258.80	74.27	682.41	171.05	246.02	206.79
25297	6.94	20.76	-13.00	109.98	80.93	721.68	38.86	292.50	195.71	255.26	80.77	699.26	152.07	240.59	193.58
25298	5.43	21.20	-13.00	96.46	87.53	723.50	37.20	296.23	184.32	251.59	87.31	712.83	133.35	236.08	182.76
25299	3.90	21.54	-13.00	83.29	91.97	725.05	35.73	298.45	175.16	248.39	92.37	723.19	114.93	232.05	174.33
25300	2.35	21.76	-13.00	71.54	93.56	726.14	35.05	300.34	168.20	247.03	94.98	730.19	98.06	229.49	167.95
25301	0.78	21.87	-13.00	64.42	94.40	723.39	36.35	303.13	162.21	247.54	96.31	731.02	84.56	230.00	162.19
25302	20.51	9.75	-13.00	101.50	135.62	585.18	102.75	228.21	365.24	602.29	209.95	588.44	446.59	752.73	634.61
25303	19.75	11.21	-13.00	92.30	113.21	609.23	96.24	207.18	339.45	415.68	198.39	456.95	368.66	489.55	549.21
25304	18.89	12.62	-13.00	85.99	91.88	623.72	84.25	202.99	303.11	312.77	176.19	470.51	293.71	393.32	445.50
25305	17.92	13.96	-13.00	92.57	71.13	629.08	76.97	208.37	279.81	268.86	161.62	493.69	249.47	354.84	370.11
25306	16.86	15.22	-13.00	103.29	52.64	632.86	68.61	215.02	264.37	247.22	152.95	515.53	227.78	324.56	319.64
25307	15.71	16.41	-13.00	110.26	38.95	637.47	58.18	224.32	250.01	238.82	139.71	536.89	215.72	300.78	282.82
25308	14.48	17.51	-13.00	111.00	29.59	642.60	48.57	236.10	233.57	239.22	120.74	558.57	204.92	283.97	251.76
25309	13.17	18.52	-13.00	107.31	22.75	647.46	41.30	248.56	215.06	242.39	99.34	579.97	191.80	272.00	223.28
25310	11.79	19.42	-13.00	101.59	18.99	651.60	35.66	260.18	195.62	244.86	78.74	600.12	176.21	262.61	197.06
25311	10.35	20.23	-13.00	95.00	19.19	654.94	30.68	270.37	176.22	245.45	60.71	618.29	159.06	254.57	173.39
25312	8.85	20.93	-13.00	87.81	21.98	657.59	26.84	278.98	157.40	244.06	46.33	634.10	141.12	247.45	152.40
25313	7.30	21.52	-13.00	80.21	25.42	659.68	24.34	286.01	139.58	240.81	36.49	647.36	122.93	241.10	134.15
25314	5.72	21.99	-13.00	72.72	28.70	661.41	22.93	291.23	123.43	235.68	31.90	658.03	104.75	235.29	118.88
25315	4.11	22.35	-13.00	65.68	31.03	663.07	21.65	293.90	109.59	228.87	31.19	665.94	86.21	229.18	106.78
25316	2.47	22.59	-13.00	58.35	31.03	668.16	21.01	295.37	99.45	223.27	31.46	674.36	68.99	223.60	98.47
25317	0.83	22.71	-13.00	53.38	42.08	673.17	22.93	297.49	100.43	219.61	43.07	681.59	55.00	221.30	100.20
25318	21.43	9.79	-13.00	32.24	135.90	400.88	74.36	164.71	349.14	219.46	363.99	785.28	307.86	373.41	614.17
25319	20.65	11.34	-13.00	40.57	109.39	446.92	71.24	167.98	315.14	247.77	299.12	574.91	252.91	346.86	554.32
25320	19.76	12.83	-13.00	35.92	86.27	475.17	62.76	168.85	268.56	182.73	223.51	517.24	191.12	313.41	474.32
25321	18.76	14.25	-13.00	39.47	68.58	484.71	61.81	177.03	239.65	181.08	190.39	519.89	172.03	310.94	399.06
25322	17.66	15.59	-13.00	44.96	54.12	489.22	59.08	188.34	219.93	185.82	173.49	523.22	166.61	297.24	331.56
25323	16.47	16.85	-13.00	48.91	44.31	492.62	52.90	202.06	203.75	199.39	158.10	526.47	166.05	284.66	277.38
25324	15.18	18.02	-13.00	50.68	39.39	495.95	45.86	216.53	187.64	216.16	138.90	528.93	163.32	274.68	232.94
25325	13.81	19.09	-13.00	52.44	36.40	499.16	40.38	230.07	170.30	231.35	116.55	531.13	155.21	266.16	194.68
25326	12.37	20.05	-13.00	55.51	33.23	502.05	36.29	241.85	151.77	242.15	93.56	532.97	141.94	257.62	160.75
25327	10.86	20.91	-13.00	59.34	29.70	504.48	32.48	251.76	132.47	247.82	72.06	534.26	125.00	248.53	130.51
25328	9.29	21.65	-13.00	63.03	26.21	506.45	28.33	259.99	112.68	248.63	53.38	534.82	105.92	239.05	103.65
25329	7.67	22.28	-13.00	66.12	23.05	508.04	23.79	266.65	92.53	245.04	38.23	534.56	85.91	229.55	79.83
25330	6.01	22.78	-13.00	68.42	20.54	509.65	18.87	271.74	72.19	237.40	27.26	533.70	65.92	220.39	58.78
25331	4.32	23.17	-13.00	69.72	17.61	510.85	13.71	274.62	51.25	225.32	19.40	531.77	46.13	211.38	39.74
25332	2.60	23.42	-13.00	68.96	19.93	521.09	10.04	274.54	28.50	209.26	19.94	536.02	26.13	201.00	20.40
25333	0.87	23.55	-13.00	75.89	2.68	553.51	10.23	280.39	19.93	212.69	1.54	565.32	21.73	199.68	17.69
25334	17.76	9.62	-14.33	472.20	207.19	745.29	166.76	438.34	414.33	704.65	259.10	460.75	561.69	599.30	424.31
25335	17.06	10.82	-14.33	370.39	201.35	739.85	126.94	393.12	383.44	733.42	177.37	496.30	591.47	492.91	389.56
25336	16.27	11.98	-14.33	322.40	183.70	735.01	111.24	395.15	383.83	701.68	115.57	524.48	540.75	454.75	385.21
25337	15.40	13.08	-14.33	345.92	152.29	734.47	111.35	377.19	393.11	606.59	69.57	547.12	480.39	410.75	392.94
25338	14.46	14.11	-14.33	391.80	143.25	741.52	118.75	350.73	386.46	506.66	63.54	574.16	456.09	367.19	386.47
25339	13.44	15.08	-14.33	415.67	161.51	750.25	136.08	332.56	366.96	438.44	103.72	605.03	441.20	336.96	367.04
25340	12.37	15.98	-14.33	416.61	205.22	757.45	148.01	321.26	345.35	395.90	170.46	635.71	423.08	317.02	345.36
25341	11.23	16.80	-14.33	401.77	256.03	762.53	150.52	313.97	327.15	370.29	235.71	663.99	400.39	303.26	327.08
25342	10.04	17.54	-14.33	378.52	301.29	765.99	148.47	308.71	313.61	355.37	289.86	689.13	375.98	292.98	313.51
25343	8.80	18.19	-14.33	350.01	340.85	768.58	145.70	304.71	303.02	347.66	335.03	711.37	351.58	285.18	302.91
25344	7.52	18.76	-14.33	318.19	374.55	770.57	143.05	301.73	294.53	345.20	372.39	730.75	327.58	279.42	294.43
25345	6.20	19.23	-14.33	284.81	402.25	772.11	140.75	299.50	287.70	346.92	402.44	747.19	304.21	275.24	287.63
25346	4.86	19.62	-14.33	251.71	423.33	773.22	138.75	297.84	282.26	352.32	424.97	760.56	281.59	272.32	282.21
25347	3.49	19.90	-14.33	221.48	436.27	773.84	136.95	296.76	277.81	361.53	438.74	770.69	260.00	270.53	277.79
25348	2.10	20.10	-14.33	198.38	439.79	773.91	135.37	296.39	273.85	374.75	442.58	777.45	239.85	269.91	273.84
25349	0.70	20.20	-14.33	186.59	437.00	773.69	134.32	296.59	271.20	390.75	439.52	781.04	221.25	270.20	271.20
25350	18.68	9.66	-14.33	478.04	228.55	763.46	175.68	422.46	413.69	476.02	236.73	456.26	518.43	620.61	433.53
25351	17.95	10.95	-14.33	389.29	211.04	763.30	134.61	359.41	367.36	529.17	139.80	495.67	565.06	480.17	380.87
25352	17.14	12.19	-14.33	344.09	199.38	762.25	115.38	355.76	355.07	521.81	100.14	529.04	530.44	427.89	359.81
25353	16.24	13.37	-14.33	345.03	176.25	761.73	104.22	345.94	357.						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
25383	19.75	11.21	-14.33	342.59	212.23	773.74	131.96	277.94	344.33	122.92	81.27	492.12	390.13	393.29	388.45
25384	18.89	12.62	-14.33	306.97	206.48	780.21	106.47	279.81	319.47	176.73	127.27	527.71	393.47	360.45	343.57
25385	17.92	13.96	-14.33	300.98	201.00	781.72	91.48	281.15	309.70	194.41	158.54	560.72	376.17	341.57	321.44
25386	16.86	15.22	-14.33	304.80	192.56	782.62	81.40	282.07	304.69	206.99	170.10	591.97	359.36	327.22	310.42
25387	15.71	16.41	-14.33	305.85	188.89	783.95	76.92	283.86	299.86	221.30	172.95	622.24	344.69	315.50	302.72
25388	14.48	17.51	-14.33	298.21	193.94	785.56	77.08	287.23	293.66	236.65	178.04	651.45	328.02	307.02	294.98
25389	13.17	18.52	-14.33	283.15	205.69	787.10	78.12	291.65	286.53	250.60	190.13	679.06	307.28	301.18	286.94
25390	11.79	19.42	-14.33	263.93	220.31	788.40	78.00	296.32	279.33	262.09	207.11	704.48	283.15	297.09	279.21
25391	10.35	20.23	-14.33	242.83	235.14	789.42	76.98	300.75	272.58	271.16	225.33	727.30	257.15	294.13	272.21
25392	8.85	20.93	-14.33	221.05	248.86	790.22	75.76	304.71	266.53	278.05	242.42	747.26	230.50	292.00	266.08
25393	7.30	21.52	-14.33	199.42	260.93	790.82	74.63	308.07	261.21	282.90	257.30	764.18	204.01	290.43	260.81
25394	5.72	21.99	-14.33	178.95	270.20	791.35	73.61	310.75	256.90	285.73	268.59	778.00	178.35	289.25	256.60
25395	4.11	22.35	-14.33	160.91	279.51	791.55	71.30	311.76	253.11	284.96	279.19	788.29	152.92	287.46	252.95
25396	2.47	22.59	-14.33	143.42	275.46	794.02	65.78	308.74	252.47	277.83	275.86	797.04	124.30	282.10	252.47
25397	0.83	22.71	-14.33	138.28	221.11	790.17	67.24	312.33	230.39	292.07	221.80	797.06	106.63	284.08	230.40
25398	21.43	9.79	-14.33	308.93	256.75	637.32	216.32	243.70	466.63	146.16	180.63	483.31	199.12	300.04	507.46
25399	20.65	11.34	-14.33	230.91	173.82	679.31	131.46	204.70	364.89	27.96	180.47	491.70	256.67	278.75	423.76
25400	19.76	12.83	-14.33	224.61	170.09	692.61	104.10	225.15	327.46	36.53	203.98	514.16	260.14	302.30	381.08
25401	18.76	14.25	-14.33	228.24	172.64	695.59	85.55	239.18	306.75	60.83	222.05	538.94	260.86	307.34	345.71
25402	17.66	15.59	-14.33	234.03	169.29	696.66	69.91	253.29	291.48	89.28	228.19	562.93	265.99	309.73	317.75
25403	16.47	16.85	-14.33	235.25	163.32	697.18	56.32	267.73	277.58	119.37	222.09	585.35	270.09	311.11	294.25
25404	15.18	18.02	-14.33	230.06	159.70	697.67	46.64	282.41	263.11	148.79	209.32	606.59	268.97	313.36	272.85
25405	13.81	19.09	-14.33	219.91	160.01	698.20	42.52	296.63	247.52	174.85	196.10	626.47	260.94	316.14	252.31
25406	12.37	20.05	-14.33	206.73	163.11	698.73	43.82	309.73	231.16	196.30	186.16	644.76	247.01	318.94	232.53
25407	10.86	20.91	-14.33	191.54	167.29	699.20	49.38	321.40	214.63	213.23	180.35	661.17	229.19	321.50	213.85
25408	9.29	21.65	-14.33	174.76	171.43	699.57	57.49	331.51	198.48	226.17	177.93	675.44	209.21	323.71	196.59
25409	7.67	22.28	-14.33	157.01	174.96	699.92	66.34	339.96	183.39	235.56	177.70	687.45	188.31	325.46	181.23
25410	6.01	22.78	-14.33	139.32	177.96	700.07	74.41	346.67	169.49	241.54	178.83	696.80	167.21	326.64	167.68
25411	4.32	23.17	-14.33	123.68	178.12	701.35	80.98	351.35	159.63	243.64	178.34	704.92	146.69	326.90	158.34
25412	2.60	23.42	-14.33	115.83	191.73	697.73	82.54	350.99	148.85	234.24	191.70	704.50	124.40	323.53	148.64
25413	0.87	23.55	-14.33	126.59	102.66	768.45	61.36	325.74	149.96	182.98	102.84	775.28	78.41	287.71	149.70
25414	-11.67	9.50	-11.67	229.04	68.84	609.00	102.25	386.71	362.13	421.33	61.05	473.31	98.76	297.90	361.93
25415	-12.71	9.45	-11.67	226.46	71.14	627.12	102.63	381.01	365.93	398.64	57.37	472.50	99.79	291.34	365.89
25416	-13.75	9.40	-11.67	221.49	72.36	637.93	100.56	375.59	366.74	373.73	54.32	466.46	98.62	284.98	366.92
25417	-11.86	10.51	-11.67	222.09	62.95	624.45	100.63	372.57	360.90	401.37	58.24	486.76	96.44	283.25	360.86
25418	-12.77	10.36	-11.67	217.88	65.31	634.73	100.75	367.13	362.61	380.77	54.06	481.31	97.57	277.29	362.68
25419	-13.67	10.20	-11.67	212.80	67.48	639.26	99.72	363.15	362.32	359.80	50.99	472.29	97.71	272.78	362.54
25420	-12.05	11.51	-11.67	211.56	56.45	636.54	98.38	354.24	358.78	377.55	53.07	499.37	94.29	264.62	358.95
25421	-12.82	11.26	-11.67	207.37	58.74	639.99	98.13	350.50	360.08	360.76	49.39	489.57	95.05	260.74	360.26
25422	-13.59	10.99	-11.67	205.30	62.26	640.56	98.16	348.53	360.08	345.99	47.43	478.67	96.41	258.59	360.33
25423	-0.56	9.90	-11.67	97.57	53.29	423.95	38.27	359.95	323.44	525.27	127.41	442.70	46.91	226.85	324.29
25424	-1.69	9.89	-11.67	106.00	53.06	427.98	40.63	360.38	324.65	514.62	121.42	444.71	38.14	234.89	325.22
25425	-2.81	9.87	-11.67	120.29	53.10	435.94	45.62	361.87	326.44	505.71	114.94	446.76	36.07	243.76	326.80
25426	-3.93	9.85	-11.67	138.08	53.47	447.69	52.40	364.45	328.77	498.15	108.06	448.96	40.51	253.24	328.96
25427	-5.05	9.82	-11.67	157.51	54.23	463.03	60.24	368.08	331.63	491.56	100.85	451.38	48.87	263.10	331.70
25428	-6.17	9.78	-11.67	177.09	55.44	481.79	68.60	372.65	335.07	485.35	93.44	454.13	58.82	273.08	335.03
25429	-7.28	9.74	-11.67	195.49	57.14	503.78	77.07	377.97	339.12	478.66	85.98	457.34	69.08	282.80	339.00
25430	-8.39	9.69	-11.67	211.21	59.41	528.77	85.31	383.46	343.93	470.21	78.70	461.18	78.95	291.58	343.74
25431	-9.50	9.63	-11.67	222.57	62.27	556.14	92.82	387.83	349.60	458.38	71.89	465.70	87.77	298.09	349.36
25432	-10.60	9.56	-11.67	228.50	65.61	584.15	98.85	389.32	355.98	442.04	65.89	470.29	94.72	300.56	355.74
25433	-0.58	11.69	-11.67	94.09	50.63	473.16	33.64	331.88	324.25	480.62	116.53	490.43	56.51	206.24	324.97
25434	-1.75	11.67	-11.67	103.28	50.69	476.46	36.90	332.78	325.54	474.55	111.98	491.70	45.98	213.78	326.05
25435	-2.91	11.62	-11.67	118.62	50.97	482.99	43.19	335.16	327.58	469.87	106.85	492.36	41.17	222.50	327.93
25436	-4.07	11.55	-11.67	137.40	51.49	492.62	51.23	339.04	330.28	466.20	101.20	492.51	42.88	232.25	330.51
25437	-5.22	11.46	-11.67	157.60	52.24	505.24	60.12	344.32	333.58	463.17	95.17	492.25	49.53	242.78	333.72
25438	-6.37	11.35	-11.67	177.67	53.24	520.77	69.23	350.92	337.43	460.15	88.88	491.69	58.68	253.80	337.50
25439	-7.51	11.21	-11.67	196.15	54.50	539.14	78.08	358.59	341.76	456.14	82.45	491.00	68.61	264.96	341.78
25440	-8.64	11.06	-11.67	211.30	56.06	560.26	86.27	366.58	346.57	449.61	76.01	490.44	78.24	275.42	346.55
25441	-9.75	10.88	-11.67	220.96	58.00	583.49	93.19	372.97	351.75	438.45	69.69	490.09	86.62	283.27	351.70
25442	-10.86	10.68	-11.67	224.27	60.38	606.53	98.23	375.28	356.88	421.79	63.56	489.24	92.97	286.12	356.83
25443	-0.60	13.49	-11.67	90.26	54.04	534.54	18.92	309.99	315.01	432.43	106.97	550.12	71.81	191.26	315.48
25444	-1.81	13.45	-11.67	99.52	54.15	536.92	24.52	311.05	316.53	430.26	103.73	550.49	59.80	197.95	316.88
25445	-3.02	13.37	-11.67	114.88	54.17	541.52	33.67	313.67	319.01	429.15	99.71	549.43	51.85	205.88	319.28
25446	-4.21	13.26	-11.67	133.48	54.07	548.26	44.07	317.83	322.37	428.66	94.96	547.02	49.24	214.89	322.58
25447	-5.40	13.10	-11.67	153.27	53.85	557.08	54.82	323.43	326.56	428.41	89.57	543.35	52.09	224.73	326.74
25448	-6.58	12.91	-11.67	172.69	53.57	567.91	65.46	330.39	331.52	427.78	83.68	538.47	58.92	235.17	331.68
25449	-7.74	12.69	-11.67	190.29	53.31	580.73	75.58	338.49	337.14	425.76	77.42	532.51	67.81	245.92	337.31
25450	-8.88	12.43	-11.67	204.27	53.21	595.49	84.70	347.00	343.35	420.77	70.94	525.64	77.15	256.22	343.52
25451	-10.01	12.13	-11.67	212.34	53.49	611.58	91.91	353.71	349.68	410.58					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
25481	-10.78	15.88	-11.67	147.02	32.02	666.16	69.52	289.65	304.88	283.13	39.36	583.69	67.86	201.41	304.46
25482	-11.89	15.16	-11.67	152.18	32.88	659.17	75.05	288.69	318.38	278.62	34.78	554.77	74.35	201.72	318.04
25483	-16.80	9.56	-11.67	157.94	70.12	645.20	89.98	336.67	346.63	246.98	53.60	424.56	93.16	251.24	346.72
25484	-16.19	10.65	-11.67	154.58	65.32	633.62	90.77	325.26	344.42	247.03	48.09	436.58	94.47	240.17	344.43
25485	-15.51	11.70	-11.67	153.59	57.61	629.60	88.69	309.86	341.52	250.14	40.83	452.58	92.48	224.80	341.46
25486	-15.78	9.48	-11.67	188.25	70.97	646.23	93.27	357.95	355.74	298.33	50.92	442.29	94.37	268.43	356.12
25487	-15.36	10.44	-11.67	181.49	66.53	638.21	93.86	343.79	352.74	292.42	46.85	450.65	95.23	255.08	353.02
25488	-14.89	11.36	-11.67	175.91	59.81	635.46	92.43	327.15	350.17	287.98	41.42	461.83	93.80	239.11	350.34
25489	-14.77	9.41	-11.67	208.90	71.98	643.42	96.76	368.55	362.85	339.69	51.68	456.01	96.17	277.63	363.22
25490	-14.53	10.23	-11.67	200.90	67.63	640.01	96.71	355.42	358.94	329.72	48.28	461.91	96.20	265.15	359.26
25491	-14.27	11.03	-11.67	190.88	61.77	638.74	94.42	342.32	357.16	318.55	44.20	469.40	94.00	252.73	357.42
25492	-12.91	14.38	-11.67	155.05	36.53	650.35	78.08	287.87	329.69	272.76	32.86	524.59	78.68	201.71	329.43
25493	-12.60	13.43	-11.67	177.81	43.43	649.36	87.29	310.55	345.88	312.29	38.54	518.01	85.82	222.16	346.06
25494	-12.30	12.48	-11.67	196.46	50.06	644.65	94.01	332.56	354.05	347.16	45.95	509.63	90.96	243.05	354.34
25495	-13.85	13.56	-11.67	156.17	41.47	640.71	80.53	290.02	336.35	266.13	32.47	496.20	82.53	204.25	336.18
25496	-13.44	12.81	-11.67	176.96	47.06	643.38	88.15	311.45	348.43	302.56	36.83	495.94	87.87	223.29	348.58
25497	-13.05	12.07	-11.67	193.61	52.67	643.13	94.01	331.39	355.17	334.34	43.16	494.66	91.98	242.05	355.41
25498	-14.73	12.67	-11.67	155.18	48.64	632.70	84.37	297.46	338.76	257.82	34.65	471.97	87.65	212.15	338.64
25499	-14.25	12.15	-11.67	175.24	52.56	637.86	89.93	316.10	348.33	292.39	37.31	476.85	90.81	228.19	348.46
25500	-13.77	11.64	-11.67	191.32	55.78	640.31	95.21	333.35	355.85	322.50	40.82	480.31	94.16	244.04	356.07
25501	-11.67	9.50	-13.00	343.78	112.50	621.70	139.86	420.26	388.51	562.32	86.71	487.15	137.83	362.26	388.09
25502	-12.71	9.45	-13.00	341.43	125.54	646.42	137.80	421.34	403.70	535.16	96.96	493.33	136.34	362.39	403.42
25503	-13.75	9.40	-13.00	333.17	132.19	659.20	127.10	419.56	410.46	502.16	102.39	491.14	126.18	359.73	410.44
25504	-11.86	10.51	-13.00	346.66	96.83	647.54	140.98	407.81	392.66	549.86	72.15	508.77	137.79	349.35	392.39
25505	-12.77	10.36	-13.00	336.72	106.00	663.62	137.57	408.45	405.37	519.62	76.16	509.36	135.28	349.41	405.19
25506	-13.67	10.20	-13.00	324.87	113.49	667.01	127.87	406.73	410.79	487.92	79.81	502.59	126.59	347.18	410.80
25507	-12.05	11.51	-13.00	338.61	89.12	666.32	139.80	388.08	385.92	526.03	64.03	525.92	136.57	329.31	385.91
25508	-12.82	11.26	-13.00	327.82	96.38	673.46	136.62	388.58	396.05	499.49	64.79	519.26	134.32	329.62	396.04
25509	-13.59	10.99	-13.00	304.89	99.24	668.59	124.97	384.45	397.27	460.67	61.68	507.14	123.67	325.34	397.31
25510	-0.56	9.90	-13.00	117.81	69.53	433.76	64.35	344.21	321.15	617.75	148.20	449.83	34.93	256.96	321.53
25511	-1.69	9.89	-13.00	129.51	68.61	437.49	66.35	345.21	322.57	607.30	139.98	451.36	28.09	263.34	322.80
25512	-2.81	9.87	-13.00	149.53	67.94	444.72	70.74	347.81	324.75	599.58	131.06	452.87	34.01	271.16	324.87
25513	-3.93	9.85	-13.00	174.82	67.74	455.38	77.14	351.98	327.68	594.53	121.52	454.47	46.78	280.16	327.71
25514	-5.05	9.82	-13.00	203.20	68.27	469.39	85.05	357.82	331.45	591.87	111.56	456.27	61.46	290.28	331.41
25515	-6.17	9.78	-13.00	233.20	69.90	486.65	94.02	365.50	336.17	591.22	101.53	458.41	76.38	301.56	336.06
25516	-7.28	9.74	-13.00	263.65	73.05	507.18	103.66	375.21	341.99	591.86	91.97	461.12	91.01	314.11	341.82
25517	-8.39	9.69	-13.00	293.11	78.30	531.18	113.78	387.08	349.26	592.51	83.83	464.83	105.21	327.97	349.02
25518	-9.50	9.63	-13.00	319.01	86.46	559.07	124.35	400.56	358.95	590.54	78.78	470.27	118.97	342.59	358.63
25519	-10.60	9.56	-13.00	336.83	98.28	590.54	134.08	412.98	372.18	581.35	79.50	478.12	130.88	355.34	371.78
25520	-0.58	11.69	-13.00	118.07	59.91	489.41	46.72	298.24	309.33	569.79	133.48	503.96	58.86	215.80	309.65
25521	-1.75	11.67	-13.00	130.98	59.90	492.41	50.78	299.88	311.25	565.36	126.70	504.79	47.98	222.22	311.46
25522	-2.91	11.62	-13.00	152.58	60.47	498.12	58.60	303.75	314.31	563.21	119.26	504.93	45.97	230.65	314.43
25523	-4.07	11.55	-13.00	179.53	61.63	506.58	68.90	309.69	318.51	563.38	111.26	504.55	52.70	240.73	318.57
25524	-5.22	11.46	-13.00	209.57	63.43	517.76	80.60	317.88	323.96	565.70	102.86	503.72	64.69	252.49	323.97
25525	-6.37	11.35	-13.00	241.18	65.92	531.65	92.93	328.61	330.71	569.76	94.32	502.58	78.90	266.13	330.68
25526	-7.51	11.21	-13.00	273.23	69.17	548.39	105.33	342.28	338.83	574.92	86.02	501.36	93.72	281.99	338.76
25527	-8.64	11.06	-13.00	304.27	73.34	568.44	117.38	359.37	348.51	579.89	78.50	500.59	108.31	300.51	348.40
25528	-9.75	10.88	-13.00	331.14	79.00	592.86	128.94	379.52	360.85	581.47	72.64	501.31	122.35	321.35	360.69
25529	-10.86	10.68	-13.00	346.26	87.01	621.40	137.62	398.12	376.52	572.06	70.29	504.52	133.08	340.03	376.29
25530	-0.60	13.49	-13.00	120.28	78.88	551.64	18.34	275.29	289.06	518.76	131.56	564.72	88.94	197.23	289.27
25531	-1.81	13.45	-13.00	133.22	79.23	553.86	28.04	277.09	291.24	519.39	126.47	564.80	75.71	203.12	291.39
25532	-3.02	13.37	-13.00	154.74	79.46	558.04	41.73	281.12	294.78	521.79	120.42	563.60	68.09	211.01	294.88
25533	-4.21	13.26	-13.00	181.58	79.58	564.24	56.63	287.16	299.71	526.10	113.45	561.27	67.32	220.47	299.78
25534	-5.40	13.10	-13.00	211.41	79.64	572.44	71.90	295.38	306.23	532.12	105.69	557.84	72.99	231.58	306.27
25535	-6.58	12.91	-13.00	242.65	79.75	582.63	87.17	306.15	314.44	539.39	97.34	553.37	83.28	244.63	314.48
25536	-7.74	12.69	-13.00	274.10	80.06	594.88	102.20	319.98	324.50	547.26	88.68	547.98	96.22	260.09	324.54
25537	-8.88	12.43	-13.00	304.38	80.74	609.62	116.70	337.60	336.67	554.56	80.13	541.96	110.36	278.71	336.72
25538	-10.01	12.13	-13.00	330.36	82.10	628.02	130.34	359.12	352.23	558.16	72.20	536.07	124.74	300.64	352.29
25539	-11.11	11.80	-13.00	342.36	84.92	649.42	138.90	378.70	370.74	548.36	66.56	530.82	134.54	320.15	370.79
25540	-0.63	15.29	-13.00	120.89	124.24	607.96	10.42	265.31	280.55	465.23	152.65	619.80	109.81	190.83	280.63
25541	-1.88	15.23	-13.00	132.96	123.73	609.43	23.28	267.06	282.74	469.56	148.86	619.17	95.72	195.93	282.79
25542	-3.12	15.12	-13.00	153.18	122.15	612.32	38.07	270.84	286.24	475.20	143.48	616.83	85.71	202.86	286.27
25543	-4.36	14.96	-13.00	178.48	119.38	616.63	53.29	276.39	291.11	482.25	136.40	612.84	80.94	211.18	291.14
25544	-5.58	14.75	-13.00	206.52	115.36	622.29	68.63	283.84	297.60	490.40	127.55	607.19	81.92	220.94	297.63
25545	-6.78	14.48	-13.00	235.54	110.21	629.22	84.01	293.46	305.90	499.07	116.93	599.85	88.11	232.36	305.94
25546	-7.97	14.16	-13.00	264.18	104.24	637.37	99.37	305.58	316.34	507.49	104.66	590.79	98.27	245.76	316.41
25547	-9.13	13.80	-13.00	290.97	97.94	646.78	114.56	320.72	329.44	514.45	90.99	579.93	111.03	261.70	329.55
25548	-10.27	13.38	-13.00	313.27	91.88	657.84	129.07	338.93	346.82	517.35	76.35	567.18	125.02	280.29	346.99
25549	-11.37	12.92	-13.00	323.35	88.30	668.83	137.76	355.12	367.75	508.43	64.13	551.66			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
25579	-12.91	14.38	-13.00	271.88	80.28	696.81	112.80	316.63	369.34	402.24	48.13	566.59	113.10	260.08	369.24
25580	-12.60	13.43	-13.00	298.98	86.55	682.74	128.79	338.85	382.84	448.86	52.62	547.29	127.71	280.96	382.92
25581	-12.30	12.48	-13.00	321.35	89.00	674.36	137.46	362.93	384.43	490.52	58.86	535.04	135.10	304.22	384.60
25582	-13.85	13.56	-13.00	270.79	82.52	681.69	109.33	328.78	384.44	391.06	46.23	532.17	110.91	272.64	384.40
25583	-13.44	12.81	-13.00	295.80	89.35	672.53	123.07	348.52	394.42	434.24	52.27	520.60	122.97	290.80	394.47
25584	-13.05	12.07	-13.00	316.40	92.53	672.41	131.59	367.18	393.60	472.94	58.45	518.75	130.17	308.59	393.71
25585	-14.73	12.67	-13.00	260.64	93.40	668.33	107.06	348.51	386.19	371.82	56.17	504.70	110.06	292.88	386.19
25586	-14.25	12.15	-13.00	284.82	99.65	661.23	117.00	362.02	394.19	412.67	61.05	499.59	117.99	304.52	394.20
25587	-13.77	11.64	-13.00	304.64	106.69	666.02	121.62	369.30	392.81	449.16	73.43	505.29	121.13	310.73	392.87
25588	-11.67	9.50	-14.33	515.76	142.78	619.82	207.76	446.62	430.27	759.93	84.26	494.02	205.02	425.76	430.11
25589	-12.71	9.45	-14.33	513.40	188.68	645.58	202.34	472.32	469.90	727.72	142.11	499.58	201.57	450.89	469.77
25590	-13.75	9.40	-14.33	479.27	225.27	664.82	171.14	488.07	498.02	663.39	188.34	500.35	170.99	466.16	498.00
25591	-11.86	10.51	-14.33	585.25	146.59	650.46	225.78	432.40	425.18	811.59	94.78	522.24	224.74	411.26	425.05
25592	-12.77	10.36	-14.33	568.72	192.94	670.34	219.07	475.47	481.88	770.27	150.15	524.77	219.11	453.98	481.77
25593	-13.67	10.20	-14.33	495.30	232.66	680.71	182.31	497.52	523.01	672.37	197.13	521.30	182.40	475.70	522.99
25594	-12.05	11.51	-14.33	618.52	137.50	673.78	243.74	439.92	427.38	826.78	79.37	543.69	242.04	418.54	427.37
25595	-12.82	11.26	-14.33	595.86	154.56	684.90	226.57	494.97	489.99	784.74	103.11	539.75	225.83	473.49	489.97
25596	-13.59	10.99	-14.33	542.96	201.05	695.01	202.01	532.92	544.58	711.88	158.54	537.54	201.99	511.31	544.59
25597	-0.56	9.90	-14.33	133.72	165.48	461.80	131.35	304.39	304.32	705.05	220.87	475.61	21.52	272.86	304.38
25598	-1.69	9.89	-14.33	149.47	162.39	464.90	132.56	306.23	306.31	694.47	211.00	476.50	41.36	276.82	306.34
25599	-2.81	9.87	-14.33	176.29	158.86	470.92	135.58	309.81	309.34	688.29	200.02	477.25	61.62	282.44	309.35
25600	-3.93	9.85	-14.33	210.27	154.58	479.83	140.33	315.32	313.81	686.59	187.58	477.93	81.24	289.81	313.80
25601	-5.05	9.82	-14.33	249.00	149.40	491.51	146.58	323.00	319.89	689.30	173.50	478.60	100.13	299.12	319.86
25602	-6.17	9.78	-14.33	291.28	143.31	505.88	154.09	332.23	327.81	696.37	157.53	479.33	118.33	310.69	327.77
25603	-7.28	9.74	-14.33	336.63	136.38	522.85	162.63	346.55	337.91	707.70	139.36	480.23	135.94	325.03	337.86
25604	-8.39	9.69	-14.33	384.97	129.00	542.51	172.09	363.84	350.78	723.16	118.52	481.55	153.16	342.99	350.72
25605	-9.50	9.63	-14.33	435.81	122.55	565.26	182.95	386.45	367.61	742.02	94.62	483.81	170.72	365.90	367.51
25606	-10.60	9.56	-14.33	485.70	122.06	591.71	197.86	415.58	393.64	760.50	71.42	487.95	191.28	394.99	393.50
25607	-0.58	11.69	-14.33	144.98	73.62	516.99	52.88	231.85	248.34	657.61	154.08	529.47	65.71	202.02	248.39
25608	-1.75	11.67	-14.33	161.93	73.58	519.50	58.49	234.51	251.23	654.26	144.84	529.80	55.16	206.59	251.26
25609	-2.91	11.62	-14.33	190.63	74.68	524.32	69.58	238.92	255.12	655.52	134.69	529.50	56.18	212.81	255.13
25610	-4.07	11.55	-14.33	227.11	76.90	531.45	84.20	245.52	260.94	661.24	123.80	528.62	67.55	221.01	260.94
25611	-5.22	11.46	-14.33	268.85	80.23	540.83	100.90	254.74	268.94	671.30	112.37	527.22	84.77	231.59	268.93
25612	-6.37	11.35	-14.33	314.61	84.69	552.38	118.90	267.13	279.44	685.68	100.67	525.33	104.78	245.05	279.42
25613	-7.51	11.21	-14.33	364.15	90.30	566.10	137.80	283.53	292.88	704.63	89.12	523.07	126.20	262.22	292.86
25614	-8.64	11.06	-14.33	418.21	97.08	582.16	157.52	305.49	309.94	728.95	78.40	520.67	148.60	284.61	309.91
25615	-9.75	10.88	-14.33	478.84	105.50	601.41	178.85	336.20	331.89	760.52	69.75	518.84	172.74	315.44	331.84
25616	-10.86	10.68	-14.33	547.63	119.40	625.67	208.14	381.06	369.99	800.68	68.31	519.32	205.00	360.15	369.89
25617	-0.60	13.49	-14.33	154.76	112.22	568.76	16.83	222.94	230.14	605.72	164.90	580.15	106.04	194.64	230.17
25618	-1.81	13.45	-14.33	171.20	112.98	570.70	32.21	225.87	233.29	607.51	158.05	579.92	92.30	199.24	233.31
25619	-3.02	13.37	-14.33	199.24	113.42	574.47	51.62	230.21	237.12	613.82	149.67	578.65	86.15	205.12	237.14
25620	-4.21	13.26	-14.33	235.29	113.70	580.06	72.12	236.52	242.91	624.33	139.96	576.39	88.62	212.76	242.92
25621	-5.40	13.10	-14.33	276.78	113.95	587.43	93.16	245.28	250.93	638.78	129.07	573.14	98.68	222.62	250.93
25622	-6.58	12.91	-14.33	322.36	114.36	596.50	114.65	257.07	261.55	657.10	117.18	568.95	114.18	235.23	261.55
25623	-7.74	12.69	-14.33	371.70	115.23	607.24	136.70	272.75	275.33	679.53	104.59	563.87	133.33	251.46	275.34
25624	-8.88	12.43	-14.33	425.76	116.93	619.79	159.71	294.04	293.10	707.26	91.87	558.02	155.29	273.03	293.11
25625	-10.01	12.13	-14.33	488.24	119.71	634.91	185.06	325.25	316.07	743.93	79.89	551.81	180.78	304.25	316.08
25626	-11.11	11.80	-14.33	569.26	125.63	654.77	222.51	376.77	361.06	799.50	71.29	546.67	219.50	355.53	361.07
25627	-0.63	15.29	-14.33	163.75	192.80	619.11	22.22	215.06	224.12	551.45	218.33	629.58	135.26	187.96	224.13
25628	-1.88	15.23	-14.33	179.05	192.09	620.46	35.90	218.00	227.22	557.88	213.09	628.77	120.33	192.30	227.22
25629	-3.12	15.12	-14.33	205.51	190.24	623.19	54.43	222.24	230.95	568.32	205.88	626.53	111.37	197.82	230.95
25630	-4.36	14.96	-14.33	239.88	186.93	627.28	74.40	228.38	236.59	582.33	196.49	622.85	109.33	205.04	236.59
25631	-5.58	14.75	-14.33	279.51	181.97	632.66	95.01	236.85	244.43	599.49	184.68	617.76	114.17	214.39	244.42
25632	-6.78	14.48	-14.33	322.73	175.35	639.28	116.15	248.17	254.85	619.48	170.23	611.26	124.96	226.35	254.85
25633	-7.97	14.16	-14.33	368.66	167.26	647.08	137.96	263.06	268.50	642.19	152.96	603.39	140.46	241.66	268.51
25634	-9.13	13.80	-14.33	417.32	158.03	656.05	161.01	282.90	286.41	667.93	132.54	594.14	160.00	261.71	286.43
25635	-10.27	13.38	-14.33	470.44	148.22	666.40	187.21	311.00	310.28	698.55	108.20	583.38	184.61	289.84	310.33
25636	-11.37	12.92	-14.33	534.89	137.51	678.37	225.33	356.93	357.37	740.69	75.16	570.51	222.69	335.62	357.44
25637	-0.65	17.08	-14.33	173.77	286.14	672.78	57.41	210.14	225.91	497.52	297.24	682.37	161.48	183.84	225.91
25638	-1.94	17.01	-14.33	187.59	284.18	673.52	63.56	212.79	228.69	508.53	292.59	681.00	146.28	187.60	228.69
25639	-3.22	16.87	-14.33	212.12	280.43	675.16	74.73	216.87	232.32	522.70	285.64	677.73	135.86	192.70	232.32
25640	-4.50	16.66	-14.33	244.36	273.81	677.64	88.89	222.84	237.74	539.53	275.35	672.56	130.77	199.58	237.74
25641	-5.75	16.39	-14.33	281.45	263.75	680.90	104.83	231.08	245.19	558.48	261.04	665.45	131.19	208.54	245.18
25642	-6.99	16.04	-14.33	321.31	250.07	684.85	121.98	241.91	255.08	579.01	242.33	656.42	136.85	219.94	255.08
25643	-8.20	15.64	-14.33	362.45	232.73	689.39	140.12	255.85	268.08	600.48	218.80	645.45	147.15	234.28	268.08
25644	-9.38	15.17	-14.33	403.67	211.70	694.38	159.39	273.69	285.30	622.17	189.62	632.47	161.55	252.38	285.30
25645	-10.52	14.63	-14.33	443.99	186.70	699.51	180.69	296.97	308.73	643.27	152.64	617.05	180.30	275.81	308.74
25646	-11.63	14.04	-14.33	483.85	155.61	703.72	206.18	330.20	350.03	664.03	100.39	597.82	205.08	309.10	350.05
25647	-0.67														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
25677	-3.49	19.90	-11.67	67.37	37.41	683.90	22.74	287.75	203.21	236.45	51.32	686.41	49.18	185.05	202.59
25678	-4.86	19.62	-11.67	76.92	34.96	682.38	26.53	285.93	210.67	237.35	50.20	677.18	42.02	186.07	209.63
25679	-6.20	19.23	-11.67	86.91	31.59	680.12	31.79	283.78	220.15	238.02	47.75	664.55	38.64	187.05	218.72
25680	-7.52	18.76	-11.67	96.66	27.52	677.08	38.24	281.15	231.59	238.35	43.99	648.58	39.82	187.65	229.88
25681	-8.80	18.19	-11.67	105.77	23.56	673.15	45.51	278.08	244.94	238.24	39.37	629.25	44.98	187.70	243.10
25682	-10.04	17.54	-11.67	113.91	21.54	668.08	52.96	274.63	260.14	237.53	34.91	606.48	52.38	187.12	258.30
25683	-11.23	16.80	-11.67	120.84	23.52	661.48	59.69	270.93	276.87	236.04	32.27	580.16	60.07	185.86	275.17
25684	-12.37	15.98	-11.67	126.31	28.74	652.92	64.89	267.43	294.07	233.59	32.37	550.49	66.67	184.20	292.64
25685	-13.44	15.08	-11.67	129.84	34.22	642.52	68.81	265.43	309.01	229.77	33.23	518.82	72.25	183.32	307.91
25686	-14.46	14.11	-11.67	130.80	39.21	631.62	73.12	267.20	318.96	223.64	33.32	488.14	78.23	185.79	318.17
25687	-15.40	13.08	-11.67	128.82	46.63	623.20	79.14	274.77	324.24	214.82	35.99	461.61	85.48	194.10	323.63
25688	-16.27	11.98	-11.67	125.19	56.78	620.03	85.19	286.40	328.93	204.73	44.36	438.85	91.99	206.65	328.35
25689	-17.06	10.82	-11.67	122.50	65.11	623.91	87.73	297.77	333.90	196.41	53.26	418.20	94.15	218.93	333.31
25690	-17.76	9.62	-11.67	122.76	70.65	635.99	86.55	304.56	336.80	192.09	60.23	402.58	91.96	226.33	336.26
25691	-0.74	21.03	-11.67	55.48	21.58	664.33	15.56	287.50	150.69	211.98	32.06	673.46	55.42	179.75	150.65
25692	-2.22	20.93	-11.67	58.62	19.77	664.31	15.92	285.46	153.98	210.18	32.74	670.87	44.48	179.03	153.42
25693	-3.69	20.72	-11.67	63.87	17.97	663.20	18.80	283.18	160.55	208.79	33.48	664.34	35.86	179.18	159.11
25694	-5.14	20.41	-11.67	70.07	16.28	661.28	23.34	280.62	170.14	207.13	33.79	654.36	30.98	179.96	167.69
25695	-6.57	19.99	-11.67	76.39	14.60	658.74	28.81	277.24	182.20	205.03	33.19	641.19	30.74	180.60	178.87
25696	-7.96	19.48	-11.67	82.49	13.86	655.46	34.94	272.84	196.38	202.62	31.99	624.78	34.84	180.58	192.39
25697	-9.32	18.87	-11.67	88.20	15.68	651.25	41.39	267.45	212.41	199.94	31.02	605.09	41.63	179.63	208.08
25698	-10.62	18.17	-11.67	93.36	20.64	645.85	47.61	261.16	230.00	196.97	31.44	582.09	49.30	177.56	225.66
25699	-11.88	17.37	-11.67	97.90	27.55	638.93	52.94	254.17	248.65	193.65	33.94	555.82	56.50	174.28	244.60
25700	-13.07	16.49	-11.67	101.57	34.27	630.22	57.13	247.16	267.06	189.75	37.31	526.76	62.76	170.17	263.57
25701	-14.20	15.53	-11.67	103.47	38.92	620.07	61.22	241.82	282.95	184.32	39.10	496.40	68.95	166.79	280.16
25702	-15.26	14.48	-11.67	102.37	42.26	609.96	66.89	240.59	294.54	175.98	39.27	467.28	76.35	166.99	292.38
25703	-16.24	13.37	-11.67	98.01	48.42	602.32	74.08	244.35	302.99	164.45	42.78	441.19	84.35	172.30	301.20
25704	-17.14	12.19	-11.67	92.42	58.06	598.82	80.46	250.84	312.29	152.21	52.01	416.59	90.52	180.73	310.57
25705	-17.95	10.95	-11.67	88.08	66.10	600.61	83.11	256.68	321.46	142.42	61.04	392.54	92.23	188.46	319.76
25706	-18.68	9.66	-11.67	85.22	72.13	609.48	81.33	258.26	326.54	135.29	68.53	374.22	88.91	191.45	325.00
25707	-0.78	21.87	-11.67	65.86	5.16	622.76	9.47	280.25	98.17	192.12	17.12	631.61	38.24	170.53	98.05
25708	-2.35	21.76	-11.67	66.62	4.58	620.66	10.66	277.78	100.73	187.66	19.49	626.32	28.04	169.31	99.33
25709	-3.90	21.54	-11.67	68.47	7.16	617.97	15.57	275.43	109.51	183.41	22.21	617.79	22.18	169.77	105.91
25710	-5.43	21.20	-11.67	70.51	10.57	615.35	21.31	272.61	122.69	178.46	24.71	607.01	22.37	171.33	116.74
25711	-6.94	20.76	-11.67	72.11	14.68	612.58	27.12	268.45	138.50	172.90	26.91	593.78	27.15	172.77	130.62
25712	-8.41	20.20	-11.67	73.30	19.61	609.22	32.91	262.76	156.13	167.12	29.30	577.75	34.15	173.44	146.97
25713	-9.83	19.55	-11.67	74.15	25.46	604.99	38.45	255.61	175.08	161.26	32.47	558.83	41.71	172.91	165.34
25714	-11.20	18.79	-11.67	74.84	32.06	599.67	43.34	247.04	194.94	155.46	36.69	537.09	48.86	170.78	185.30
25715	-12.52	17.94	-11.67	75.69	38.70	593.00	47.30	237.20	215.07	149.87	41.48	512.75	55.15	166.72	206.14
25716	-13.77	17.00	-11.67	76.68	43.98	584.95	50.70	226.75	234.29	144.25	45.37	486.57	60.91	160.98	226.53
25717	-14.95	15.97	-11.67	76.84	46.80	575.97	54.94	217.37	251.06	137.47	47.00	460.00	67.27	155.02	244.67
25718	-16.06	14.85	-11.67	74.68	48.66	567.24	61.12	211.19	264.79	127.94	47.89	434.72	74.72	151.44	259.62
25719	-17.08	13.67	-11.67	69.91	53.84	560.07	68.16	208.74	277.50	115.58	52.95	411.05	81.81	151.65	273.14
25720	-18.01	12.41	-11.67	64.24	62.87	554.53	73.89	208.19	292.52	102.98	62.94	386.63	86.56	154.25	288.65
25721	-18.85	11.08	-11.67	58.50	70.11	550.94	75.92	207.10	306.88	91.89	71.62	361.41	87.07	156.16	303.47
25722	-19.60	9.70	-11.67	51.39	75.98	551.51	73.00	201.42	314.52	80.73	79.03	342.67	82.18	152.89	311.67
25723	-0.83	22.71	-11.67	86.57	8.22	553.74	3.34	268.08	43.65	178.45	12.48	562.64	19.48	155.29	43.23
25724	-2.47	22.59	-11.67	84.47	11.73	546.12	8.23	265.17	48.47	171.05	16.17	550.85	11.82	154.07	44.04
25725	-4.11	22.35	-11.67	83.18	15.53	540.58	15.89	263.42	63.14	163.36	19.69	539.19	15.87	156.02	53.07
25726	-5.72	21.99	-11.67	81.91	18.97	537.05	22.76	261.01	81.67	154.78	22.67	528.03	23.94	159.73	67.01
25727	-7.30	21.52	-11.67	79.31	23.42	534.14	28.94	256.86	101.28	145.49	26.24	515.97	32.05	163.73	83.45
25728	-8.85	20.93	-11.67	75.58	28.64	530.80	34.42	250.98	121.43	136.03	30.49	502.07	39.54	167.16	101.84
25729	-10.35	20.23	-11.67	70.89	34.50	526.71	38.95	243.42	141.90	126.57	35.52	486.29	46.03	169.33	121.86
25730	-11.79	19.42	-11.67	65.76	40.61	521.64	42.28	234.11	162.41	117.44	41.01	468.80	51.29	169.50	143.10
25731	-13.17	18.52	-11.67	61.18	46.18	515.48	44.41	222.99	182.49	109.18	46.19	450.08	55.49	167.03	164.86
25732	-14.48	17.51	-11.67	58.13	50.20	508.30	46.20	210.52	201.34	101.97	50.08	431.06	59.43	161.81	186.02
25733	-15.71	16.41	-11.67	56.38	52.45	500.54	49.26	198.02	218.27	94.89	52.66	412.98	64.24	154.97	205.47
25734	-16.86	15.22	-11.67	54.45	55.16	492.84	54.29	187.33	233.78	86.38	56.46	396.60	69.87	148.75	223.27
25735	-17.92	13.96	-11.67	51.38	61.78	485.24	59.90	179.16	250.34	76.09	64.81	381.21	74.69	144.87	241.72
25736	-18.89	12.62	-11.67	47.50	71.57	475.97	64.18	172.54	270.57	65.72	76.30	364.79	77.27	142.83	263.70
25737	-19.75	11.21	-11.67	42.17	78.21	463.63	64.84	165.02	289.64	55.15	84.68	349.84	76.08	139.59	284.51
25738	-20.51	9.75	-11.67	34.85	82.80	448.59	60.13	152.09	298.78	42.90	91.12	347.19	69.41	130.88	294.96
25739	-0.87	23.55	-11.67	111.95	4.13	466.41	3.80	251.38	10.29	174.71	4.92	475.68	4.89	133.67	7.06
25740	-2.60	23.42	-11.67	107.63	2.60	456.34	11.37	250.05	28.00	163.43	3.72	460.01	12.25	135.30	16.35
25741	-4.32	23.17	-11.67	103.89	6.56	447.21	19.91	248.75	46.72	153.24	6.71	444.98	23.25	139.16	27.22
25742	-6.01	22.78	-11.67	101.01	10.17	442.99	27.63	247.12	66.21	142.31	10.09	435.18	32.39	145.71	40.89
25743	-7.67	22.28	-11.67	96.14	15.12	440.07	34.53	243.60	85.34	130.75	15.07	426.97	40.24	153.31	56.18
25744	-9.29	21.65	-11.67	89.39	20.84	436.80	40.15	238.58	104.44	118.77	20.97	418.94	46.51	160.77	73.47
25745	-10.86	20.91	-11.67	80.93	27.03	432.91	44.13	232.05	123.44	106.49	27.42	411.15	51.04	167.06	92.58
25746	-12.37	20.05	-11.67	71.22	33.14	428.19	46.15	223.80	142.15	94.31	33.88	403.90			



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
25775	-6.57	19.99	-13.00	133.38	124.98	743.67	52.92	294.68	232.93	293.87	125.40	724.39	59.29	229.53	231.67
25776	-7.96	19.48	-13.00	149.98	114.15	741.02	57.09	291.95	244.11	297.01	113.17	707.70	58.92	229.39	242.56
25777	-9.32	18.87	-13.00	165.91	101.06	737.56	62.63	288.79	257.27	299.82	97.96	687.60	62.57	228.87	255.55
25778	-10.62	18.17	-13.00	180.51	86.31	733.02	68.89	285.42	272.56	301.93	79.99	664.05	68.85	228.09	270.81
25779	-11.88	17.37	-13.00	193.08	71.52	726.95	74.40	282.17	290.09	302.79	60.37	636.89	75.48	227.24	288.48
25780	-13.07	16.49	-13.00	202.29	60.73	718.82	77.46	279.96	309.14	301.26	43.16	606.19	80.33	227.14	307.83
25781	-14.20	15.53	-13.00	205.40	59.07	708.69	78.81	281.09	326.70	294.69	36.53	573.07	84.07	230.07	325.85
25782	-15.26	14.48	-13.00	199.67	67.35	698.22	83.21	288.60	338.31	280.21	43.17	540.33	90.88	239.26	337.89
25783	-16.24	13.37	-13.00	187.31	84.33	690.85	92.86	302.11	342.82	259.75	59.64	511.04	101.72	254.50	342.56
25784	-17.14	12.19	-13.00	180.47	105.00	689.34	104.10	314.87	348.06	245.40	80.69	484.49	112.62	269.05	347.59
25785	-17.95	10.95	-13.00	193.54	120.36	691.13	116.01	328.72	363.07	251.84	97.24	453.86	123.76	284.55	362.33
25786	-18.68	9.66	-13.00	220.90	128.16	700.91	120.48	350.18	370.18	273.42	106.03	428.24	126.79	307.29	369.36
25787	-0.78	21.87	-13.00	64.08	94.42	723.34	35.43	302.40	162.45	248.63	95.83	731.63	70.49	228.98	162.44
25788	-2.35	21.76	-13.00	70.80	93.51	726.02	34.21	299.21	168.85	249.72	94.70	731.31	56.45	226.39	168.52
25789	-3.90	21.54	-13.00	81.72	92.01	724.82	35.23	297.86	176.06	249.67	93.47	724.11	46.85	226.34	174.94
25790	-5.43	21.20	-13.00	93.77	87.68	723.29	37.00	295.93	185.24	248.33	89.05	713.77	40.91	226.67	183.21
25791	-6.94	20.76	-13.00	106.31	80.95	721.55	39.40	292.30	196.54	246.84	81.76	700.41	39.00	226.04	193.67
25792	-8.41	20.20	-13.00	118.96	72.47	719.28	42.97	287.33	209.78	245.63	72.23	683.80	41.69	224.49	206.25
25793	-9.83	19.55	-13.00	131.13	62.50	716.34	47.72	281.34	224.76	244.49	60.62	664.01	47.86	222.12	220.83
25794	-11.20	18.79	-13.00	142.33	51.94	712.54	53.00	274.51	241.29	243.17	47.49	641.04	55.51	218.94	237.27
25795	-12.52	17.94	-13.00	151.99	43.17	707.60	57.74	267.17	259.02	241.26	34.94	615.01	62.86	215.08	255.23
25796	-13.77	17.00	-13.00	158.77	40.34	701.36	61.58	260.26	276.82	237.56	28.24	586.31	69.45	211.32	273.58
25797	-14.95	15.97	-13.00	160.05	45.47	694.18	66.68	255.79	292.40	229.46	31.81	556.10	77.12	209.64	289.91
25798	-16.06	14.85	-13.00	153.78	57.47	687.30	75.86	255.92	303.75	214.66	43.32	526.15	87.82	212.42	301.92
25799	-17.08	13.67	-13.00	142.79	76.18	682.40	87.81	259.84	312.57	195.80	61.99	497.44	99.69	219.11	311.01
25800	-18.01	12.41	-13.00	136.93	98.45	679.35	100.04	263.55	326.27	182.88	84.92	467.80	110.67	225.70	324.62
25801	-18.85	11.08	-13.00	147.12	118.32	675.09	113.59	272.58	350.59	187.07	105.92	431.37	122.99	237.34	348.87
25802	-19.60	9.70	-13.00	165.81	129.27	677.68	117.94	294.09	364.79	200.74	117.27	400.41	125.64	260.81	363.24
25803	-0.83	22.71	-13.00	53.73	42.15	673.42	20.16	294.29	100.35	222.39	43.25	681.88	40.99	219.23	100.34
25804	-2.47	22.59	-13.00	59.32	30.99	668.24	19.58	292.81	99.84	218.54	33.10	672.91	28.07	217.71	98.72
25805	-4.11	22.35	-13.00	66.14	30.99	662.99	21.21	293.16	110.24	212.34	33.85	661.21	20.74	218.92	106.71
25806	-5.72	21.99	-13.00	72.48	28.53	661.36	22.81	290.96	124.07	204.34	31.82	650.81	19.27	219.63	118.08
25807	-7.30	21.52	-13.00	79.45	24.78	659.72	24.92	285.94	140.16	197.10	27.80	637.96	24.02	218.73	132.10
25808	-8.85	20.93	-13.00	86.48	20.34	657.74	28.49	279.13	157.90	190.46	22.71	622.47	32.22	216.79	148.32
25809	-10.35	20.23	-13.00	93.01	15.96	655.25	33.43	270.74	176.67	184.12	17.16	604.33	41.37	213.69	166.25
25810	-11.79	19.42	-13.00	98.87	14.58	652.08	39.11	260.81	196.03	178.06	13.97	583.64	50.32	209.16	185.48
25811	-13.17	18.52	-13.00	103.94	18.91	648.09	45.03	249.50	215.43	172.22	17.14	560.66	58.72	203.02	205.40
25812	-14.48	17.51	-13.00	107.44	26.65	643.32	51.72	237.41	233.90	165.83	24.64	535.95	67.16	195.60	224.91
25813	-15.71	16.41	-13.00	107.38	35.91	638.13	60.55	226.04	250.29	156.80	33.84	510.46	76.77	188.29	242.59
25814	-16.86	15.22	-13.00	102.12	48.82	633.19	71.39	217.08	264.63	143.28	46.81	485.04	87.14	183.04	258.14
25815	-17.92	13.96	-13.00	93.36	67.80	628.73	82.13	210.46	279.96	126.95	66.04	459.39	96.24	180.18	274.41
25816	-18.89	12.62	-13.00	87.08	91.84	622.68	92.51	204.14	302.52	114.28	90.39	430.89	104.32	177.83	297.86
25817	-19.75	11.21	-13.00	90.23	117.25	609.51	105.45	203.64	336.61	112.57	116.02	394.02	115.38	180.68	333.12
25818	-20.51	9.75	-13.00	92.09	132.63	596.71	109.57	212.74	358.93	110.83	131.31	363.48	117.66	191.83	356.43
25819	-0.87	23.55	-13.00	76.48	1.14	554.16	8.63	274.32	17.75	196.54	4.29	563.22	10.48	196.52	17.52
25820	-2.60	23.42	-13.00	72.00	19.98	521.44	10.79	269.71	27.64	193.21	20.11	525.38	16.96	192.05	18.95
25821	-4.32	23.17	-13.00	73.24	17.75	510.84	14.12	273.85	51.21	175.98	17.86	508.45	25.81	196.12	36.64
25822	-6.01	22.78	-13.00	73.09	20.91	509.74	19.80	271.50	72.08	160.17	20.83	500.72	35.09	198.24	52.83
25823	-7.67	22.28	-13.00	71.88	23.91	508.18	25.39	266.80	92.54	145.88	23.95	492.19	43.28	199.83	69.75
25824	-9.29	21.65	-13.00	69.58	27.87	506.72	30.70	260.43	112.78	132.36	28.41	483.42	50.17	200.99	87.82
25825	-10.86	20.91	-13.00	66.19	32.54	504.92	35.54	252.46	132.70	119.44	33.90	474.17	55.85	201.17	106.94
25826	-12.37	20.05	-13.00	61.96	37.62	502.72	39.74	242.81	152.18	107.27	40.01	464.63	60.39	199.73	126.91
25827	-13.81	19.09	-13.00	57.73	42.60	500.09	43.55	231.29	170.91	96.35	46.22	455.10	64.25	195.99	147.22
25828	-15.18	18.02	-13.00	54.66	47.33	497.10	48.10	217.99	188.48	87.09	52.51	445.97	68.42	189.60	167.12
25829	-16.47	16.85	-13.00	52.66	53.45	493.91	54.38	203.75	204.84	78.74	60.42	437.59	73.53	181.18	186.14
25830	-17.66	15.59	-13.00	50.32	64.41	490.47	61.42	190.21	221.25	69.76	72.70	429.85	78.43	172.53	205.28
25831	-18.76	14.25	-13.00	47.33	82.16	485.90	67.33	178.81	241.00	60.20	90.56	422.03	81.32	165.66	227.99
25832	-19.76	12.83	-13.00	44.64	106.30	476.55	72.38	170.00	269.32	52.24	113.70	413.62	82.98	161.51	260.12
25833	-20.65	11.34	-13.00	44.17	134.35	451.61	80.54	164.69	311.84	49.18	140.87	408.16	88.89	159.81	307.36
25834	-21.43	9.79	-13.00	36.41	147.91	402.66	78.23	157.49	338.31	38.88	155.35	444.38	85.18	154.73	336.45
25835	-0.70	20.20	-14.33	186.31	436.06	773.53	134.40	296.77	271.75	407.42	437.73	781.74	204.11	270.67	271.75
25836	-2.10	20.10	-14.33	197.02	437.96	773.57	135.17	296.75	275.02	424.42	438.50	779.65	188.81	271.19	275.02
25837	-3.49	19.90	-14.33	218.38	434.81	773.44	136.06	297.16	279.06	442.42	434.17	774.49	175.91	272.33	279.03
25838	-4.86	19.62	-14.33	246.81	422.70	772.83	137.48	298.24	283.42	460.84	420.66	766.00	165.65	274.21	283.37
25839	-6.20	19.23	-14.33	278.36	402.51	771.77	139.75	299.83	288.70	478.98	398.64	754.30	158.19	276.63	288.63
25840	-7.52	18.76	-14.33	310.43	375.55	770.30	143.03	301.97	295.32	496.28	369.26	739.56	153.74	279.58	295.23
25841	-8.80	18.19	-14.33	341.18	342.28	768.37	147.27	304.85	303.58	511.91	332.80	721.85	152.37	283.22	303.49
25842	-10.04	17.54	-14.33	368.83	302.72	765.86	152.05	308.75	313.95	524.68	288.85	701.22	153.60	287.82	313.85
25843	-11.23	16.80	-14.33	391.42	256.85	762.47	156.27	313.92	327.31	532.90	236.52	677.59	156.10	293.62	327.22
25844</															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
25873	-9.83	19.55	-14.33	267.16	270.79	792.94	105.13	310.48	300.83	388.19	261.85	737.45	101.57	288.64	300.60
25874	-11.20	18.79	-14.33	290.83	246.64	791.63	110.23	308.77	306.78	397.39	234.84	715.58	107.09	288.30	306.55
25875	-12.52	17.94	-14.33	312.25	220.70	789.89	112.80	307.32	313.61	405.24	205.36	690.95	110.83	288.23	313.42
25876	-13.77	17.00	-14.33	328.61	196.14	787.64	111.13	306.71	320.90	409.16	176.61	663.84	110.96	288.99	320.79
25877	-14.95	15.97	-14.33	335.79	179.27	785.03	106.24	308.00	327.23	405.10	155.33	634.88	108.58	291.63	327.24
25878	-16.06	14.85	-14.33	332.00	176.54	782.67	104.54	312.09	330.73	391.12	148.80	605.10	109.62	297.02	330.85
25879	-17.08	13.67	-14.33	325.27	187.26	781.33	112.08	317.60	331.68	375.06	156.40	575.32	118.55	303.78	331.80
25880	-18.01	12.41	-14.33	335.71	200.71	780.76	127.89	321.83	335.53	376.98	167.01	544.91	134.30	309.19	335.53
25881	-18.85	11.08	-14.33	382.54	213.19	778.72	151.90	324.56	353.67	416.40	178.14	510.45	158.64	313.00	353.53
25882	-19.60	9.70	-14.33	472.90	252.38	776.13	201.26	396.33	407.88	500.48	222.20	472.15	209.94	385.72	407.73
25883	-0.83	22.71	-14.33	137.98	220.56	790.19	70.09	310.96	230.45	314.30	220.30	797.99	91.07	283.30	230.47
25884	-2.47	22.59	-14.33	140.72	275.13	794.08	68.28	308.07	252.66	320.41	274.19	798.58	76.81	280.06	252.67
25885	-4.11	22.35	-14.33	155.80	279.41	791.47	72.17	311.74	253.42	318.38	278.45	789.47	71.95	283.90	253.23
25886	-5.72	21.99	-14.33	172.26	270.08	791.34	74.39	310.52	257.19	319.47	268.42	779.64	67.95	283.67	256.86
25887	-7.30	21.52	-14.33	191.37	260.61	790.82	76.06	307.86	261.49	323.01	258.24	766.30	66.87	282.23	261.00
25888	-8.85	20.93	-14.33	211.90	248.01	790.25	78.44	304.55	266.77	327.73	244.82	749.88	69.40	280.41	266.13
25889	-10.35	20.23	-14.33	232.84	233.33	789.49	81.40	300.65	272.78	333.23	229.20	730.40	74.32	278.20	272.02
25890	-11.79	19.42	-14.33	253.33	217.07	788.52	84.43	296.32	279.47	339.14	211.78	708.05	80.12	275.69	278.64
25891	-13.17	18.52	-14.33	272.24	200.56	787.27	86.59	291.79	286.59	344.68	193.81	683.05	85.24	273.07	285.77
25892	-14.48	17.51	-14.33	287.38	186.58	785.75	87.36	287.56	293.62	347.86	178.04	655.74	89.00	270.77	292.88
25893	-15.71	16.41	-14.33	295.67	179.15	784.15	88.66	284.42	299.70	345.62	168.54	626.71	93.10	269.55	299.08
25894	-16.86	15.22	-14.33	296.05	180.55	782.75	94.61	282.82	304.40	336.72	167.63	596.58	100.82	269.85	303.89
25895	-17.92	13.96	-14.33	294.33	187.67	781.72	107.03	281.95	309.21	326.82	172.18	565.64	113.45	270.83	308.73
25896	-18.89	12.62	-14.33	302.78	195.07	780.05	125.19	280.40	318.40	328.13	176.85	533.11	131.07	271.03	317.92
25897	-19.75	11.21	-14.33	341.11	210.42	774.24	153.49	277.74	342.25	360.40	190.59	494.88	159.51	269.98	341.78
25898	-20.51	9.75	-14.33	437.00	267.69	766.97	214.10	353.79	404.60	451.58	250.18	452.16	221.28	347.43	403.30
25899	-0.87	23.55	-14.33	132.30	102.21	770.11	64.45	306.60	149.83	337.82	101.95	777.87	65.89	284.98	149.72
25900	-2.60	23.42	-14.33	113.08	191.66	697.31	83.29	351.01	149.34	285.88	191.63	701.49	73.68	319.70	148.77
25901	-4.32	23.17	-14.33	119.44	177.98	701.49	81.23	350.88	159.64	272.76	178.00	698.61	62.45	320.16	158.32
25902	-6.01	22.78	-14.33	133.99	177.56	700.05	74.68	346.41	169.70	269.53	177.57	687.89	50.23	316.64	167.30
25903	-7.67	22.28	-14.33	151.00	174.02	699.95	66.93	339.81	183.55	268.14	174.14	675.88	40.90	311.57	180.10
25904	-9.29	21.65	-14.33	168.32	169.55	699.62	58.92	331.44	198.63	267.37	169.95	661.18	36.21	305.19	194.23
25905	-10.86	20.91	-14.33	184.86	163.94	699.28	52.32	321.45	214.77	266.85	164.83	644.16	37.69	297.49	209.67
25906	-12.37	20.05	-14.33	200.00	157.69	698.86	48.86	309.92	231.29	266.49	159.25	624.94	44.18	288.45	225.76
25907	-13.81	19.09	-14.33	213.31	151.88	698.38	49.63	296.99	247.64	266.16	154.21	603.75	53.26	278.10	241.97
25908	-15.18	18.02	-14.33	223.93	148.26	697.90	55.16	282.99	263.23	265.08	151.29	580.91	63.88	266.68	257.68
25909	-16.47	16.85	-14.33	230.08	148.20	697.46	66.01	268.56	277.73	261.43	151.65	556.70	76.49	254.75	272.49
25910	-17.66	15.59	-14.33	230.43	150.68	696.94	81.85	254.34	291.65	253.72	154.04	531.30	91.41	242.94	286.86
25911	-18.76	14.25	-14.33	226.68	152.15	695.85	101.35	240.38	306.84	243.44	154.67	504.65	108.64	231.29	302.65
25912	-19.76	12.83	-14.33	225.19	152.85	693.03	124.41	226.23	326.91	236.83	153.63	476.10	129.41	219.34	323.55
25913	-20.65	11.34	-14.33	232.92	172.88	679.78	155.03	205.59	362.96	240.59	171.30	440.44	158.51	200.86	360.99
25914	-21.43	9.79	-14.33	312.13	282.66	635.89	238.97	244.57	462.75	317.23	279.35	396.31	242.41	241.21	462.32
25915	20.06	-2.50	-11.67	354.68	109.23	712.17	30.15	306.91	384.80	2058.07	206.27	450.85	29.68	1034.60	386.72
25916	19.98	-3.10	-11.67	351.76	108.64	710.44	35.17	307.87	381.18	2053.01	200.85	450.44	34.36	1032.28	384.94
25917	20.91	-2.50	-11.67	379.03	112.95	660.28	15.58	263.28	392.02	2299.78	340.80	343.93	22.80	1152.18	396.07
25918	20.83	-3.10	-11.67	376.08	112.47	659.40	20.53	264.70	387.58	2294.84	340.12	346.46	19.52	1150.91	396.15
25919	21.75	-2.50	-11.67	412.26	120.24	547.75	48.16	228.34	403.83	2596.50	513.33	418.26	57.60	1357.85	411.00
25920	21.68	-3.10	-11.67	409.19	119.83	548.29	46.65	229.85	398.63	2591.85	518.20	412.92	47.87	1357.66	416.19
25921	22.60	-2.50	-11.67	441.56	134.34	344.03	97.23	237.27	430.01	2925.84	738.74	1172.22	104.51	1778.94	442.09
25922	22.52	-3.10	-11.67	438.48	133.81	346.77	94.01	237.54	423.94	2923.06	746.84	1153.01	93.98	1780.16	458.02
25923	23.44	-2.50	-11.67	439.88	162.48	78.79	142.10	272.56	535.77	3130.19	1176.29	3724.67	142.31	2449.68	571.47
25924	23.37	-3.10	-11.67	437.12	162.82	87.97	138.83	272.54	528.00	3133.41	1182.97	3684.92	146.06	2460.55	625.66
25925	20.06	-2.50	-13.00	375.20	162.41	772.47	100.14	422.77	418.54	1347.59	106.78	378.84	114.31	1182.59	418.53
25926	19.98	-3.10	-13.00	373.21	166.20	768.85	101.70	422.27	415.15	1351.72	116.76	377.20	127.06	1178.62	415.26
25927	20.91	-2.50	-13.00	318.28	159.48	748.04	80.04	392.43	438.35	1285.80	96.16	327.44	91.91	1280.62	438.80
25928	20.83	-3.10	-13.00	317.26	162.97	744.98	82.23	392.23	434.06	1290.81	103.21	326.70	104.56	1278.50	435.37
25929	21.75	-2.50	-13.00	224.10	150.14	675.91	54.43	334.50	461.88	1141.53	184.07	513.35	70.10	1318.77	464.68
25930	21.68	-3.10	-13.00	224.81	152.57	674.00	57.64	335.30	456.78	1146.26	191.43	509.01	86.14	1319.67	462.93
25931	22.60	-2.50	-13.00	95.30	134.18	511.22	35.76	209.69	488.28	759.50	307.26	1170.55	63.57	1132.00	501.38
25932	22.52	-3.10	-13.00	97.19	136.49	512.23	39.75	213.33	483.07	765.62	317.07	1158.61	92.06	1139.05	506.88
25933	23.44	-2.50	-13.00	47.60	101.24	337.40	23.35	57.24	456.68	137.89	285.91	1259.29	59.25	100.25	519.57
25934	23.37	-3.10	-13.00	45.67	106.10	339.70	18.67	71.33	451.02	130.23	301.31	1249.42	95.37	122.17	536.59
25935	20.06	-2.50	-14.33	775.87	289.08	784.46	235.86	552.92	501.32	380.74	433.11	364.13	298.35	919.93	501.39
25936	19.98	-3.10	-14.33	767.01	257.39	780.39	227.48	550.31	497.92	399.52	419.29	361.79	250.73	915.36	497.92
25937	20.91	-2.50	-14.33	719.18	289.42	789.80	196.48	579.67	539.59	75.93	408.27	359.85	268.85	973.55	539.59
25938	20.83	-3.10	-14.33	712.22	262.77	785.93	188.00	576.42	535.75	79.08	392.37	357.12	207.38	969.31	535.77
25939	21.75	-2.50	-14.33	672.21	291.27	786.80	181.87	580.20	553.68	325.23	362.96	396.37	254.84	899.60	554.11
25940	21.68	-3.10	-14.33	667.22	266.77	783.30	172.84	576.92	549.77	304.18	339.88	393.37	183.96	897.26	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
25971	16.57	-2.50	-11.67	327.72	100.25	672.32	88.25	400.30	369.08	1510.84	149.97	439.97	112.80	667.36	369.06
25972	16.50	-3.10	-11.67	324.47	99.83	671.27	88.67	399.66	368.60	1499.83	155.85	439.10	125.25	663.49	368.58
25973	17.80	-2.50	-11.67	332.07	103.37	707.60	76.47	383.92	372.53	1643.10	93.29	483.29	91.48	796.35	372.60
25974	17.72	-3.10	-11.67	328.94	102.75	705.76	77.70	383.52	371.13	1635.26	99.13	480.67	101.22	792.33	371.32
25975	19.03	-2.50	-11.67	338.72	106.34	725.04	55.95	350.40	378.22	1832.24	96.48	497.21	60.91	923.85	378.85
25976	18.94	-3.10	-11.67	335.77	105.70	722.93	58.72	350.61	375.65	1826.66	91.83	494.55	67.60	920.47	376.89
25977	0.61	-2.50	-13.00	121.87	79.37	343.94	16.74	401.87	350.46	787.72	187.55	361.90	37.73	290.83	350.54
25978	0.61	-3.10	-13.00	122.15	79.28	344.93	16.57	402.16	349.30	781.63	186.59	362.85	45.48	291.93	349.42
25979	1.84	-2.50	-13.00	131.98	81.42	349.03	31.92	402.39	350.21	834.42	200.72	360.54	51.07	283.23	350.32
25980	1.83	-3.10	-13.00	132.18	81.35	349.97	31.77	402.69	349.10	827.02	199.56	361.50	59.07	284.47	349.28
25981	3.07	-2.50	-13.00	149.73	84.24	358.95	46.75	403.02	350.31	887.50	213.78	359.18	66.18	276.57	350.47
25982	3.06	-3.10	-13.00	149.85	84.32	359.81	46.64	403.34	349.30	878.62	212.46	360.16	74.72	277.96	349.53
25983	4.30	-2.50	-13.00	172.77	87.76	373.36	61.03	403.77	350.79	946.80	226.75	357.83	81.96	271.53	350.99
25984	4.28	-3.10	-13.00	172.80	88.14	374.11	60.98	404.12	349.91	936.32	225.33	358.84	91.41	273.05	350.20
25985	5.52	-2.50	-13.00	199.16	91.91	391.79	74.54	404.62	351.64	1011.84	239.59	356.49	97.86	268.97	351.87
25986	5.50	-3.10	-13.00	199.06	92.73	392.40	74.60	405.01	350.93	999.65	238.15	357.54	108.56	270.60	351.29
25987	6.75	-2.50	-13.00	227.53	96.62	413.74	87.04	405.57	352.83	1081.63	252.20	355.21	113.44	270.04	353.12
25988	6.72	-3.10	-13.00	227.23	98.06	414.19	87.26	406.00	352.36	1067.70	250.87	356.29	125.69	271.70	352.78
25989	7.98	-2.50	-13.00	256.96	101.79	438.70	98.24	406.65	354.34	1154.56	264.35	354.03	128.25	276.18	354.66
25990	7.94	-3.10	-13.00	256.37	104.03	438.98	98.65	407.08	354.17	1138.96	263.29	355.16	142.32	277.78	354.64
25991	9.21	-2.50	-13.00	286.80	107.31	466.24	107.81	407.88	356.08	1228.24	275.60	353.04	141.80	289.26	356.42
25992	9.17	-3.10	-13.00	285.81	110.49	466.32	108.40	408.29	356.26	1211.19	275.01	354.22	157.84	290.63	356.77
25993	10.43	-2.50	-13.00	316.56	113.03	495.98	115.45	409.39	357.90	1299.38	285.32	352.43	153.53	311.64	358.24
25994	10.39	-3.10	-13.00	315.08	117.19	495.84	116.14	409.72	358.49	1281.28	285.42	353.65	171.56	312.60	358.98
25995	11.66	-2.50	-13.00	345.79	118.87	527.68	121.03	411.37	359.64	1363.77	292.64	352.50	162.92	346.31	359.96
25996	11.61	-3.10	-13.00	343.77	123.86	527.25	121.65	411.58	360.60	1345.20	293.63	353.72	182.80	346.64	361.06
25997	12.89	-2.50	-13.00	373.93	124.87	561.21	124.66	414.12	361.20	1416.33	296.41	353.77	169.49	396.98	361.47
25998	12.83	-3.10	-13.00	371.39	130.32	560.44	125.05	414.18	362.42	1398.16	298.55	354.91	190.92	396.49	362.79
25999	14.12	-2.50	-13.00	400.10	131.27	596.68	126.76	418.05	362.69	1451.54	295.11	357.24	172.82	468.18	362.90
26000	14.05	-3.10	-13.00	397.10	136.71	595.51	126.84	417.98	363.95	1434.91	298.73	358.16	195.26	466.74	364.23
26001	15.34	-2.50	-13.00	422.92	138.50	634.49	127.92	423.77	364.71	1464.29	286.52	364.57	172.43	565.24	364.88
26002	15.28	-3.10	-13.00	419.53	143.50	632.86	127.76	423.53	365.73	1450.67	292.04	365.06	195.00	562.74	365.92
26003	16.57	-2.50	-13.00	439.77	146.76	675.42	128.53	431.95	368.73	1451.95	267.09	378.03	167.91	693.57	368.87
26004	16.50	-3.10	-13.00	436.09	151.14	673.24	128.32	431.45	369.18	1442.85	274.84	377.81	189.14	689.97	369.30
26005	17.80	-2.50	-13.00	444.53	155.61	720.60	128.61	441.69	379.30	1418.54	231.49	398.36	159.32	855.31	379.41
26006	17.72	-3.10	-13.00	440.83	159.37	717.68	128.57	440.86	378.75	1414.90	241.24	397.09	177.14	850.73	378.80
26007	19.03	-2.50	-13.00	421.25	161.61	760.20	119.46	441.21	398.63	1380.94	171.37	408.63	140.54	1034.98	398.65
26008	18.94	-3.10	-13.00	418.20	165.19	756.61	120.08	440.34	396.55	1382.41	182.07	406.57	154.87	1030.05	396.52
26009	0.61	-2.50	-14.33	141.75	117.32	363.14	49.63	435.40	388.49	891.02	216.98	379.22	87.52	394.81	388.50
26010	0.61	-3.10	-14.33	138.29	104.61	362.70	48.43	436.52	389.02	883.80	209.79	378.80	19.33	396.24	389.03
26011	1.84	-2.50	-14.33	154.51	119.56	367.79	58.44	435.60	388.37	946.87	230.52	378.15	98.98	391.73	388.39
26012	1.83	-3.10	-14.33	151.18	106.91	367.31	56.85	436.68	388.89	938.18	223.47	377.73	37.84	393.16	388.91
26013	3.07	-2.50	-14.33	176.62	123.07	376.91	70.11	435.87	388.38	1011.18	244.37	377.11	113.06	388.97	388.40
26014	3.06	-3.10	-14.33	173.55	109.83	376.37	68.01	436.89	388.89	1000.78	237.04	376.69	56.78	390.39	388.92
26015	4.30	-2.50	-14.33	205.24	127.78	390.20	83.12	436.22	388.54	1083.71	258.59	376.09	128.94	386.79	388.56
26016	4.28	-3.10	-14.33	202.45	113.33	389.57	80.46	437.17	389.06	1071.40	250.63	375.67	76.05	388.20	389.10
26017	5.52	-2.50	-14.33	238.14	133.64	407.26	96.51	436.64	388.83	1163.74	273.26	375.11	145.98	385.55	388.86
26018	5.50	-3.10	-14.33	235.56	117.44	406.51	93.32	437.54	389.39	1149.39	264.41	374.68	95.59	386.93	389.44
26019	6.75	-2.50	-14.33	273.81	140.57	427.64	109.67	437.15	389.27	1249.83	288.45	374.14	163.61	385.69	389.31
26020	6.72	-3.10	-14.33	271.33	122.19	426.76	106.02	438.00	389.89	1233.37	278.52	373.72	115.24	387.03	389.95
26021	7.98	-2.50	-14.33	311.27	148.46	450.91	122.12	437.77	389.84	1339.58	304.15	373.20	181.30	387.82	389.88
26022	7.94	-3.10	-14.33	308.76	127.62	449.88	118.11	438.56	390.55	1321.09	293.05	372.78	134.74	389.07	390.62
26023	9.21	-2.50	-14.33	349.91	157.15	476.65	133.45	438.54	390.51	1429.27	320.23	372.30	198.47	392.72	390.56
26024	9.17	-3.10	-14.33	347.21	133.78	475.46	129.17	439.25	391.34	1409.03	308.03	371.88	153.62	393.81	391.41
26025	10.43	-2.50	-14.33	389.38	166.43	504.51	143.36	439.53	391.24	1513.47	336.46	371.42	214.50	401.43	391.29
26026	10.39	-3.10	-14.33	386.34	140.72	503.14	138.83	440.14	392.20	1491.99	323.37	371.01	171.30	402.29	392.27
26027	11.66	-2.50	-14.33	429.49	176.11	534.19	151.78	440.87	391.98	1584.51	352.46	370.59	228.77	415.35	392.02
26028	11.61	-3.10	-14.33	425.98	148.50	532.63	146.89	441.36	393.05	1562.63	338.92	370.18	187.17	415.88	393.12
26029	12.89	-2.50	-14.33	470.25	186.17	565.48	158.94	442.77	392.69	1631.80	367.84	369.83	240.75	436.37	392.73
26030	12.83	-3.10	-14.33	466.19	157.32	563.72	153.50	443.13	393.82	1610.74	354.49	369.41	200.68	436.51	393.89
26031	14.12	-2.50	-14.33	511.89	196.97	598.27	165.46	445.59	393.45	1640.99	382.27	369.17	250.05	467.19	393.50
26032	14.05	-3.10	-14.33	507.25	167.66	596.29	159.32	445.81	394.56	1622.35	369.92	368.73	211.49	466.85	394.63
26033	15.34	-2.50	-14.33	555.28	209.30	632.61	172.35	449.99	394.57	1592.54	395.52	368.68	256.68	511.70	394.62
26034	15.28	-3.10	-14.33	550.02	180.28	630.41	165.53	450.07	395.54	1578.44	385.00	368.22	219.57	510.80	395.61
26035	16.57	-2.50	-14.33	602.91	224.36	668.99	181.17	457.59	396.89	1460.26	407.69	368.45	261.59	575.69	396.96
26036	16.50	-3.10	-14.33	596.88	196.17	666.53	173.90	457.43	397.62	1453.11	399.45	367.94	225.77	574.10	397.70
26037	17.80	-2.50	-14.33	661.30	242.70	708.93	195.10	473.04	401.81	1209.67	418.56	368.44	268.35	667.83	401.93
26038	17.72	-3.10	-14.33	654.07	215.65	706.09	187.34	472.35	402.06	1211.89	412.06	367.85	233.02	665.25	402.19
2603															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
26069	-15.28	-3.10	-11.67	262.20	90.08	618.84	112.80	405.13	384.45	417.53	61.09	370.53	112.70	312.05	384.50
26070	-16.50	-3.10	-11.67	252.65	91.36	651.28	113.65	398.74	384.94	382.51	65.14	371.16	113.63	303.38	385.01
26071	-17.72	-3.10	-11.67	227.13	91.44	678.79	111.67	380.73	386.02	330.92	70.94	369.71	111.77	285.86	386.09
26072	-18.94	-3.10	-11.67	182.81	88.89	690.53	104.34	342.00	386.96	260.10	76.48	360.41	104.66	252.72	387.00
26073	-0.61	-2.50	-13.00	121.19	78.17	343.88	2.65	401.48	351.06	747.30	174.25	363.26	28.77	298.89	351.11
26074	-1.84	-2.50	-13.00	129.83	77.88	348.85	14.83	401.23	351.99	712.85	160.81	364.65	28.49	307.03	352.03
26075	-3.07	-2.50	-13.00	145.81	78.56	358.64	30.35	401.13	353.28	683.94	147.25	366.07	36.77	314.98	353.30
26076	-4.30	-2.50	-13.00	166.67	80.25	372.89	45.74	401.20	354.91	660.05	133.69	367.54	49.10	322.51	354.92
26077	-5.52	-2.50	-13.00	190.45	82.95	391.13	60.76	401.47	356.87	640.57	120.29	369.05	62.70	329.47	356.87
26078	-6.75	-2.50	-13.00	215.80	86.64	412.86	75.16	401.98	359.14	624.89	107.41	370.60	76.35	335.72	359.14
26079	-7.98	-2.50	-13.00	241.93	91.24	437.58	88.65	402.80	361.65	612.37	95.57	372.19	89.41	341.13	361.64
26080	-9.21	-2.50	-13.00	268.38	96.59	464.81	100.93	404.02	364.31	602.42	85.50	373.80	101.41	345.62	364.30
26081	-10.43	-2.50	-13.00	294.90	102.46	494.12	111.75	405.79	366.94	594.41	78.00	375.41	112.05	349.19	366.93
26082	-11.66	-2.50	-13.00	321.35	108.66	525.18	121.03	408.28	369.37	587.71	73.72	377.01	121.20	351.94	369.36
26083	-12.89	-2.50	-13.00	347.46	115.10	557.68	128.99	411.68	371.44	581.50	72.99	378.65	129.08	354.17	371.44
26084	-14.12	-2.50	-13.00	372.67	121.97	591.51	136.19	416.15	373.22	574.71	75.98	380.43	136.23	356.38	373.23
26085	-15.34	-2.50	-13.00	395.72	129.73	626.83	143.41	421.78	375.19	565.72	82.97	382.65	143.42	359.45	375.20
26086	-16.57	-2.50	-13.00	413.92	138.61	664.41	151.28	428.44	378.56	551.80	94.06	385.99	151.28	364.45	378.57
26087	-17.80	-2.50	-13.00	420.50	148.13	706.18	159.99	434.23	387.25	526.61	108.51	391.87	159.98	371.10	387.26
26088	-19.03	-2.50	-13.00	397.48	154.70	744.81	160.68	426.40	402.09	473.14	122.31	396.49	160.71	368.34	402.10
26089	-0.61	-3.10	-13.00	121.55	78.18	344.87	2.53	401.78	349.88	742.35	173.52	364.21	36.12	299.85	349.97
26090	-1.83	-3.10	-13.00	130.24	78.12	349.79	15.00	401.55	350.85	708.88	160.36	365.60	34.22	307.89	350.91
26091	-3.06	-3.10	-13.00	146.26	79.18	359.50	30.56	401.49	352.21	680.81	147.18	367.04	40.40	315.74	352.24
26092	-4.28	-3.10	-13.00	167.14	81.39	373.64	46.01	401.60	353.95	657.60	134.10	368.52	51.39	323.20	353.97
26093	-5.50	-3.10	-13.00	190.88	84.78	391.75	61.11	401.91	356.08	638.65	121.38	370.06	64.31	330.10	356.08
26094	-6.72	-3.10	-13.00	216.13	89.33	413.34	75.62	402.46	358.56	623.32	109.45	371.65	77.64	336.29	358.55
26095	-7.94	-3.10	-13.00	242.04	94.94	437.88	89.24	403.29	361.35	610.97	98.98	373.28	90.56	341.64	361.34
26096	-9.17	-3.10	-13.00	268.15	101.39	464.92	101.61	404.48	364.36	600.99	90.75	374.92	102.48	346.04	364.34
26097	-10.39	-3.10	-13.00	294.21	108.32	494.02	112.39	406.14	367.39	592.79	85.48	376.55	112.95	349.48	367.37
26098	-11.61	-3.10	-13.00	320.12	115.29	524.80	121.42	408.49	370.19	585.79	83.32	378.16	121.76	352.09	370.18
26099	-12.83	-3.10	-13.00	345.67	121.96	556.99	128.89	411.72	372.54	579.24	83.85	379.76	129.08	354.18	372.54
26100	-14.05	-3.10	-13.00	370.31	128.37	590.45	135.44	416.03	374.41	572.11	86.61	381.48	135.53	356.30	374.41
26101	-15.28	-3.10	-13.00	392.81	135.02	625.36	141.99	421.50	376.23	562.81	91.89	383.59	142.02	359.28	376.25
26102	-16.50	-3.10	-13.00	410.51	142.46	662.45	149.29	427.94	379.21	548.65	100.44	386.74	149.28	364.14	379.23
26103	-17.72	-3.10	-13.00	416.88	150.49	703.53	157.61	433.51	387.22	523.49	112.24	392.23	157.61	370.57	387.24
26104	-18.94	-3.10	-13.00	394.38	155.95	741.46	158.42	425.83	401.06	470.76	124.10	396.15	158.48	367.88	401.08
26105	-0.61	-2.50	-14.33	140.55	116.34	363.13	45.77	435.25	388.70	843.50	203.68	380.31	79.68	398.03	388.71
26106	-1.84	-2.50	-14.33	150.87	116.68	367.76	48.28	435.17	388.99	804.00	190.63	381.42	76.38	401.25	389.00
26107	-3.07	-2.50	-14.33	170.36	118.42	376.85	56.38	435.17	389.41	772.02	177.95	382.57	77.98	404.38	389.42
26108	-4.30	-2.50	-14.33	196.07	121.59	390.10	68.02	435.25	389.97	746.91	165.86	383.76	83.94	407.35	389.97
26109	-5.52	-2.50	-14.33	225.69	126.17	407.12	81.46	435.45	390.65	727.94	154.73	384.98	93.05	410.11	390.65
26110	-6.75	-2.50	-14.33	257.76	132.11	427.46	95.60	435.78	391.47	714.37	145.02	386.24	104.06	412.62	391.47
26111	-7.98	-2.50	-14.33	291.52	139.31	450.67	109.71	436.30	392.39	705.47	137.35	387.53	115.93	414.84	392.39
26112	-9.21	-2.50	-14.33	326.65	147.57	476.34	123.30	437.05	393.39	700.53	132.26	388.85	127.86	416.75	393.39
26113	-10.43	-2.50	-14.33	363.27	156.62	504.09	136.05	438.12	394.41	698.96	130.07	390.20	139.33	418.37	394.41
26114	-11.66	-2.50	-14.33	401.79	166.18	533.62	147.89	439.64	395.39	700.28	130.72	391.58	150.14	419.78	395.39
26115	-12.89	-2.50	-14.33	442.90	176.18	564.65	159.13	441.78	396.29	704.23	133.92	393.00	160.52	421.20	396.29
26116	-14.12	-2.50	-14.33	487.55	186.98	597.03	170.51	444.79	397.17	710.96	139.66	394.50	171.16	423.02	397.17
26117	-15.34	-2.50	-14.33	537.09	199.50	630.74	183.16	449.15	398.26	721.35	148.67	396.20	183.18	426.05	398.26
26118	-16.57	-2.50	-14.33	593.92	215.13	666.25	198.72	456.12	400.30	738.05	162.49	398.45	198.22	432.10	400.30
26119	-17.80	-2.50	-14.33	663.14	234.60	705.38	220.18	469.92	404.40	767.35	182.16	402.29	219.31	446.13	404.39
26120	-19.03	-2.50	-14.33	756.71	263.31	750.93	263.72	502.77	438.60	823.49	214.29	409.58	262.68	481.14	438.60
26121	-0.61	-3.10	-14.33	137.20	103.02	362.69	44.77	436.38	389.22	837.48	195.92	379.88	3.53	399.40	389.23
26122	-1.83	-3.10	-14.33	147.87	102.18	367.27	47.20	436.26	389.50	799.07	181.78	380.99	17.76	402.53	389.50
26123	-3.06	-3.10	-14.33	167.84	102.13	376.30	54.97	436.19	389.91	768.02	167.32	382.14	35.40	405.56	389.91
26124	-4.28	-3.10	-14.33	194.00	102.96	389.46	66.13	436.22	390.47	743.68	152.60	383.33	52.77	408.43	390.48
26125	-5.50	-3.10	-14.33	223.98	104.80	406.37	79.08	436.37	391.19	725.30	137.78	384.55	69.72	411.10	391.19
26126	-6.72	-3.10	-14.33	256.29	107.76	426.57	92.79	436.65	392.06	712.16	123.19	385.80	86.10	413.52	392.06
26127	-7.94	-3.10	-14.33	290.11	112.00	449.64	106.57	437.10	393.07	703.46	109.47	387.09	101.73	415.64	393.06
26128	-9.17	-3.10	-14.33	325.12	117.57	475.15	119.89	437.77	394.18	698.52	97.56	388.41	116.38	417.45	394.17
26129	-10.39	-3.10	-14.33	361.41	124.50	502.73	132.34	438.73	395.33	696.72	88.77	389.75	129.82	418.95	395.32
26130	-11.61	-3.10	-14.33	399.40	132.79	532.06	143.72	440.12	396.43	697.62	84.40	391.11	141.98	420.24	396.42
26131	-12.83	-3.10	-14.33	439.81	142.54	562.90	154.23	442.13	397.40	701.02	85.32	392.51	153.15	421.53	397.40
26132	-14.05	-3.10	-14.33	483.63	154.22	595.08	164.66	445.00	398.27	707.09	91.90	394.00	164.15	423.24	398.27
26133	-15.28	-3.10	-14.33	532.23	168.70	628.57	176.30	449.21	399.26	716.78	104.48	395.68	176.29	426.17	399.26
26134	-16.50	-3.10	-14.33	587.91	187.08	663.85	191.05	455.95	401.14	732.63	123.59	397.88	191.42	432.02	401.14
26135	-17.72	-3.10	-14.33	655.64	209.59	702.61	211.71	469.27	404.90	760.71	149.12	401.62	212.34	445.57	404.90
26136	-18.94	-3.10	-14.33	747.58	237.65	747.43	254.58	501.19	437.62	815.47	182.25	408.24	255.37	479.62	437.63
26137	-23.44	-2.50	-11.67	2.73	47.78	301.10	15.83	37.62	333						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
26167	18.86	-7.26	-11.67	288.58	89.67	687.93	77.88	314.51	345.02	1793.47	72.10	425.37	272.19	952.28	391.20
26168	19.75	-7.26	-11.67	313.93	95.45	650.12	73.28	274.85	339.07	2080.01	116.28	373.37	225.68	1104.27	407.38
26169	20.64	-7.26	-11.67	353.28	109.92	561.95	70.30	240.24	334.00	2448.28	301.28	437.98	152.99	1347.25	418.77
26170	21.53	-7.26	-11.67	393.32	140.74	397.87	80.33	239.79	339.85	2879.38	675.63	1020.57	87.79	1814.84	425.33
26171	22.42	-7.26	-11.67	404.16	180.68	188.50	119.61	270.22	432.87	3177.41	1340.73	3271.81	140.23	2551.83	635.62
26172	19.24	-6.18	-11.67	316.33	97.56	696.89	65.79	311.07	363.30	1941.12	91.98	436.04	146.08	996.26	385.14
26173	20.12	-6.18	-11.67	342.83	104.29	654.23	54.84	270.38	362.19	2210.10	229.23	367.38	81.93	1132.56	393.02
26174	20.99	-6.18	-11.67	379.56	116.64	557.43	51.89	236.78	365.41	2527.52	479.17	409.31	50.72	1346.74	402.96
26175	21.87	-6.18	-11.67	411.98	134.28	380.53	78.47	240.98	385.10	2866.00	847.69	995.42	96.65	1761.55	432.94
26176	22.75	-6.17	-11.67	414.83	160.15	142.25	125.02	276.58	489.81	3094.35	1418.27	3226.50	127.27	2431.56	654.75
26177	19.56	-5.08	-11.67	334.08	105.01	701.95	53.89	308.35	375.70	2004.60	151.59	444.36	75.34	1011.13	387.12
26178	20.42	-5.08	-11.67	359.63	110.29	655.42	39.41	266.85	378.88	2247.46	316.78	360.49	36.95	1129.65	398.68
26179	21.29	-5.08	-11.67	394.18	118.02	552.14	44.97	234.15	387.42	2533.02	556.55	385.59	46.88	1322.36	421.25
26180	22.15	-5.07	-11.67	424.40	129.73	365.03	83.35	242.19	412.01	2852.79	873.90	993.97	83.83	1721.56	474.47
26181	23.02	-5.07	-11.67	424.09	154.45	111.22	130.98	277.56	516.39	3068.80	1378.24	3269.21	155.10	2380.18	713.07
26182	19.82	-3.96	-11.67	345.53	108.33	706.83	42.77	307.56	378.57	2036.17	188.33	449.08	46.60	1022.47	385.37
26183	20.67	-3.96	-11.67	370.24	112.27	657.45	27.44	265.18	383.89	2274.03	341.28	352.54	23.63	1138.19	398.75
26184	21.53	-3.96	-11.67	403.78	118.85	549.26	44.49	231.67	394.27	2562.94	543.46	393.48	42.78	1336.03	425.15
26185	22.38	-3.96	-11.67	433.20	131.07	353.58	88.88	240.01	419.50	2889.96	803.66	1074.13	90.98	1748.79	482.06
26186	23.24	-3.96	-11.67	431.82	157.94	96.12	135.63	274.08	522.72	3103.06	1257.89	3494.39	167.84	2421.04	703.26
26187	18.86	-7.26	-13.00	334.42	148.49	754.08	113.24	411.30	390.54	1260.52	184.87	425.37	378.27	1037.19	414.08
26188	19.75	-7.26	-13.00	287.74	152.76	740.81	106.12	383.59	394.93	1252.68	120.00	405.97	343.66	1169.37	434.41
26189	20.64	-7.26	-13.00	210.21	154.75	687.13	93.83	330.30	402.89	1166.19	110.16	534.69	303.99	1264.36	463.33
26190	21.53	-7.26	-13.00	104.21	148.88	549.96	81.43	229.46	417.86	830.06	298.29	1066.43	286.78	1164.55	524.53
26191	22.42	-7.26	-13.00	17.90	136.52	384.96	59.21	134.62	406.91	58.75	464.00	1066.22	286.75	274.56	687.18
26192	19.24	-6.18	-13.00	347.96	160.48	757.58	113.93	402.53	416.29	1333.79	170.06	408.15	279.26	1097.55	423.78
26193	20.12	-6.18	-13.00	295.35	162.95	740.06	101.87	372.84	427.42	1308.51	101.31	380.90	237.31	1220.13	440.41
26194	20.99	-6.18	-13.00	212.42	158.41	678.60	84.60	316.46	443.01	1189.65	161.54	529.49	201.52	1288.86	467.30
26195	21.87	-6.18	-13.00	103.34	140.35	535.53	69.88	214.03	465.42	816.77	364.38	1087.51	204.25	1151.20	529.89
26196	22.75	-6.17	-13.00	22.26	113.68	383.16	45.32	121.89	452.49	77.20	481.23	1086.63	226.59	251.04	681.08
26197	19.56	-5.08	-13.00	358.10	164.97	757.49	111.85	403.15	429.97	1357.20	142.76	388.27	191.38	1132.20	431.91
26198	20.42	-5.08	-13.00	302.64	164.55	736.93	96.59	372.58	446.38	1312.60	95.12	350.17	156.26	1240.39	451.41
26199	21.29	-5.08	-13.00	216.36	155.38	671.08	78.00	315.48	466.76	1174.79	196.55	507.43	132.42	1289.46	481.45
26200	22.15	-5.07	-13.00	101.91	133.36	522.99	63.27	208.85	491.95	789.69	380.06	1092.01	147.08	1130.95	542.38
26201	23.02	-5.07	-13.00	28.75	100.92	370.87	37.90	105.75	474.82	104.41	434.93	1119.34	165.75	208.72	647.16
26202	19.82	-3.96	-13.00	368.01	166.90	762.22	107.17	416.41	427.80	1356.11	125.60	377.92	143.21	1163.42	428.32
26203	20.67	-3.96	-13.00	311.60	164.28	739.70	89.46	386.32	446.64	1300.40	101.16	331.40	116.67	1265.27	449.34
26204	21.53	-3.96	-13.00	221.84	153.81	670.96	68.73	329.27	468.83	1156.60	198.47	502.45	98.39	1308.03	479.45
26205	22.38	-3.96	-13.00	99.89	134.41	515.07	52.37	213.87	494.73	772.04	347.15	1126.26	112.68	1136.38	532.64
26206	23.24	-3.96	-13.00	34.96	100.14	352.98	27.47	87.08	472.95	127.09	350.27	1190.63	120.14	164.77	591.58
26207	18.86	-7.26	-14.33	642.32	299.26	776.39	217.30	471.53	447.74	629.13	456.98	438.86	601.69	766.37	450.60
26208	19.75	-7.26	-14.33	617.61	297.29	788.36	202.29	483.77	467.03	345.71	423.49	436.65	567.57	827.65	472.70
26209	20.64	-7.26	-14.33	583.60	310.47	791.90	196.07	476.40	476.16	122.66	356.22	459.73	520.44	788.08	488.27
26210	21.53	-7.26	-14.33	505.65	338.24	774.01	193.02	429.08	493.90	319.23	267.96	484.87	442.50	556.38	523.01
26211	22.42	-7.26	-14.33	326.09	314.23	614.92	164.87	298.21	578.05	218.79	263.49	522.28	282.05	310.82	632.89
26212	19.24	-6.18	-14.33	668.00	282.20	774.84	212.50	426.89	432.32	587.28	465.47	412.20	475.72	757.70	432.85
26213	20.12	-6.18	-14.33	632.08	288.10	785.51	191.63	437.65	456.27	280.92	430.99	409.83	443.41	810.01	457.81
26214	20.99	-6.18	-14.33	578.76	302.18	786.05	177.01	425.91	469.55	126.42	358.41	438.59	401.78	747.86	475.46
26215	21.87	-6.18	-14.33	479.00	300.31	765.69	161.13	375.21	487.20	340.68	237.62	471.90	327.13	493.02	510.14
26216	22.75	-6.17	-14.33	296.14	220.82	623.36	149.17	250.45	561.12	215.20	193.63	506.71	206.07	249.89	605.28
26217	19.56	-5.08	-14.33	693.90	266.08	773.85	213.38	424.23	437.17	529.53	449.85	387.86	366.04	774.07	437.17
26218	20.42	-5.08	-14.33	652.36	273.45	783.05	185.69	436.04	465.88	207.33	413.46	384.40	332.04	820.14	466.25
26219	21.29	-5.08	-14.33	596.41	280.19	781.64	167.70	425.72	480.75	171.68	338.72	415.68	291.43	748.01	484.13
26220	22.15	-5.07	-14.33	498.53	270.23	760.85	159.78	376.28	498.39	400.49	217.15	454.76	233.97	483.70	514.17
26221	23.02	-5.07	-14.33	305.78	201.99	617.22	162.39	237.44	578.29	247.66	128.15	503.43	181.19	225.07	605.26
26222	19.82	-3.96	-14.33	731.16	258.66	775.25	225.59	472.93	467.06	458.08	428.63	368.28	269.38	832.85	467.01
26223	20.67	-3.96	-14.33	686.12	268.17	782.74	195.08	490.93	501.17	127.39	397.85	363.97	229.10	880.71	501.26
26224	21.53	-3.96	-14.33	637.13	273.43	780.54	183.45	486.71	516.01	247.07	335.04	398.55	196.15	807.77	517.90
26225	22.38	-3.96	-14.33	556.01	275.53	759.17	191.37	441.13	534.28	492.06	245.58	443.14	169.13	538.51	544.10
26226	23.24	-3.96	-14.33	355.20	266.54	594.12	210.98	272.51	635.41	313.53	147.64	518.37	187.54	248.65	646.70
26227	0.61	-3.95	-11.67	103.82	62.68	335.71	15.89	404.89	353.33	661.92	163.60	355.98	42.86	240.21	353.74
26228	0.60	-5.05	-11.67	103.60	61.97	350.00	17.63	401.83	353.18	646.18	160.15	369.58	50.69	240.52	353.80
26229	0.59	-6.15	-11.67	103.01	61.96	368.21	20.42	398.04	345.37	626.96	156.19	386.97	56.81	240.73	346.21
26230	0.58	-7.25	-11.67	101.87	60.77	384.53	25.43	392.39	331.44	604.55	150.98	402.63	59.71	239.64	332.51
26231	1.82	-3.95	-11.67	111.00	64.14	341.19	28.16	405.54	353.00	697.42	174.41	354.16	55.49	230.18	353.56
26232	1.79	-5.05	-11.67	110.64	63.30	355.27	28.70	402.52	352.97	678.55	170.19	367.89	64.29	231.09	353.82
26233	1.76	-6.15	-11.67	109.92	63.08	373.25	29.86	398.79	345.28	655.60	165.18	385.42	71.35	232.04	346.43
26234	1.73	-7.25	-11.67	108.67	61.70	389.34	32.72	393.22	331.48	629.01	158.75	401.16	75.03</		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
26265	11.16	-6.17	-11.67	252.06	85.52	549.24	100.76	404.91	372.11	1025.18	218.20	391.87	225.62	299.85	374.29
26266	10.93	-7.26	-11.67	245.68	81.11	561.78	99.94	404.12	361.77	949.26	201.89	411.60	247.24	298.03	364.52
26267	12.73	-3.96	-11.67	282.19	93.18	561.65	100.51	407.52	370.43	1210.51	232.56	363.28	172.35	360.89	371.15
26268	12.55	-5.07	-11.67	274.66	92.48	568.48	100.85	404.82	377.23	1157.27	228.07	378.24	206.52	355.35	378.23
26269	12.34	-6.17	-11.67	265.93	88.89	579.47	101.00	402.84	376.76	1088.64	217.80	399.03	239.75	348.89	378.02
26270	12.08	-7.26	-11.67	256.72	84.73	590.82	100.61	401.35	368.03	1006.05	201.81	418.94	266.13	341.27	369.57
26271	13.94	-3.96	-11.67	297.64	95.51	596.53	98.63	406.18	371.21	1285.44	221.97	378.66	172.88	438.01	371.55
26272	13.75	-5.07	-11.67	288.65	94.57	601.04	98.54	403.00	378.50	1231.09	220.66	390.73	211.23	428.28	378.86
26273	13.51	-6.17	-11.67	277.76	90.77	609.15	98.29	400.27	379.01	1158.38	212.77	408.82	250.17	415.83	379.35
26274	13.23	-7.26	-11.67	265.59	86.81	617.61	97.90	397.64	371.63	1068.49	198.12	427.04	282.55	400.28	371.95
26275	15.15	-3.96	-11.67	309.85	97.49	632.63	94.87	403.46	371.07	1370.05	201.25	402.95	166.85	536.22	371.11
26276	14.94	-5.08	-11.67	299.64	95.72	634.25	94.54	400.03	377.84	1316.39	205.00	409.96	209.50	522.17	377.81
26277	14.69	-6.18	-11.67	286.77	91.20	638.37	93.89	396.94	378.11	1240.13	201.51	422.34	255.75	503.20	378.10
26278	14.38	-7.26	-11.67	271.81	87.06	641.98	93.27	393.57	371.05	1141.40	189.77	435.51	296.44	478.46	371.17
26279	16.36	-3.96	-11.67	317.92	99.62	669.26	89.13	396.92	370.94	1474.34	165.64	437.32	151.74	653.45	370.95
26280	16.14	-5.08	-11.67	306.79	96.74	667.65	89.38	393.55	376.11	1423.69	176.83	437.29	198.01	635.80	376.37
26281	15.86	-6.18	-11.67	292.19	91.08	667.22	89.10	390.70	374.67	1344.74	181.24	440.91	253.54	610.77	375.74
26282	15.53	-7.26	-11.67	274.45	86.36	664.86	88.78	387.62	366.48	1234.65	175.39	445.09	306.66	576.44	368.97
26283	17.57	-3.96	-11.67	322.44	102.12	702.08	79.64	381.14	371.98	1614.57	111.10	475.01	124.77	781.73	372.55
26284	17.33	-5.08	-11.67	310.89	98.32	697.48	81.96	378.41	374.67	1569.23	129.43	467.70	171.95	762.79	376.48
26285	17.04	-6.18	-11.67	294.87	91.56	692.98	83.69	376.57	370.24	1489.33	146.08	461.47	237.92	734.20	374.98
26286	16.68	-7.26	-11.67	274.12	85.94	685.24	85.21	374.84	359.51	1364.76	152.03	454.67	309.62	691.06	369.32
26287	18.78	-3.96	-11.67	329.39	105.10	718.60	63.30	349.24	374.72	1809.71	84.12	488.44	85.71	910.51	377.27
26288	18.53	-5.08	-11.67	317.78	101.10	712.68	69.73	348.21	374.48	1771.19	76.91	478.44	127.56	894.08	380.02
26289	18.21	-6.18	-11.67	300.62	93.60	706.33	75.90	348.58	366.14	1694.62	90.45	466.73	201.52	867.98	378.38
26290	17.83	-7.26	-11.67	276.35	86.87	696.02	81.76	349.36	351.84	1553.93	113.46	453.03	299.39	819.88	376.88
26291	0.61	-3.95	-13.00	122.02	78.23	350.44	21.26	398.56	361.55	770.39	184.46	368.15	44.95	289.79	361.74
26292	0.60	-5.05	-13.00	122.40	77.34	366.95	22.86	388.77	367.18	752.76	181.29	383.94	55.34	282.26	367.46
26293	0.59	-6.15	-13.00	123.42	76.44	391.58	19.05	387.31	359.42	731.40	177.40	407.58	72.52	283.50	359.82
26294	0.58	-7.25	-13.00	122.75	78.36	411.73	26.37	391.08	337.79	706.19	174.02	426.98	73.13	290.32	338.30
26295	1.82	-3.95	-13.00	131.95	80.25	355.38	34.15	399.10	361.46	813.35	197.03	366.85	60.11	282.59	361.72
26296	1.79	-5.05	-13.00	132.19	79.18	371.66	34.82	389.35	367.21	791.86	193.11	382.77	71.63	275.51	367.60
26297	1.76	-6.15	-13.00	133.08	78.07	395.99	32.16	387.99	359.58	765.82	188.24	406.54	89.62	277.30	360.13
26298	1.73	-7.25	-13.00	132.40	79.57	415.90	36.19	391.89	338.16	735.28	183.51	426.01	91.46	284.77	338.88
26299	3.03	-3.95	-13.00	149.56	83.12	365.00	48.02	399.80	361.82	862.23	209.47	365.58	77.42	276.37	362.17
26300	2.99	-5.06	-13.00	149.74	81.70	380.83	48.21	390.18	367.79	836.40	204.70	381.69	90.51	269.77	368.32
26301	2.94	-6.16	-13.00	150.60	80.24	404.59	46.12	389.06	360.41	805.09	198.74	405.67	109.76	272.23	361.14
26302	2.88	-7.25	-13.00	150.15	80.93	424.06	48.10	393.32	339.29	768.57	192.45	425.31	113.03	280.54	340.25
26303	4.24	-3.95	-13.00	172.45	86.81	378.99	61.85	400.66	362.66	916.91	221.87	364.35	95.96	271.74	363.10
26304	4.18	-5.06	-13.00	172.57	84.95	394.17	61.81	391.25	368.96	886.28	216.18	380.69	111.21	265.65	369.63
26305	4.11	-6.16	-13.00	173.48	83.05	417.14	60.12	390.51	361.93	849.13	209.05	404.96	132.32	268.84	362.87
26306	4.03	-7.25	-13.00	173.40	82.62	436.02	60.76	395.37	341.21	805.93	201.00	424.87	137.31	278.12	342.44
26307	5.45	-3.95	-13.00	198.59	91.35	396.91	75.23	401.66	363.99	977.01	234.28	363.16	115.26	269.51	364.54
26308	5.38	-5.06	-13.00	198.61	89.03	411.32	75.19	392.53	370.74	941.20	227.70	379.78	133.31	263.88	371.58
26309	5.29	-6.16	-13.00	199.58	86.71	433.35	73.93	392.32	364.22	897.66	219.36	404.45	156.96	267.81	365.38
26310	5.18	-7.25	-13.00	199.95	84.87	451.57	73.68	398.02	344.04	847.07	209.36	424.73	164.10	278.14	345.55
26311	6.67	-3.95	-13.00	226.53	96.73	418.29	87.87	402.76	365.83	1041.74	246.71	362.05	134.91	270.74	366.48
26312	6.58	-5.06	-13.00	226.32	94.10	431.86	88.06	393.96	373.21	1000.51	239.35	379.01	156.44	265.43	374.20
26313	6.46	-6.16	-13.00	227.28	91.49	452.90	87.40	394.41	367.41	950.16	229.88	404.17	183.39	269.99	368.79
26314	6.33	-7.26	-13.00	228.15	88.06	470.47	86.66	401.24	347.93	891.53	217.80	424.96	193.26	281.40	349.74
26315	7.88	-3.96	-13.00	255.25	102.96	442.65	99.42	403.94	368.19	1109.78	259.04	361.08	154.41	276.73	368.92
26316	7.77	-5.06	-13.00	254.54	100.31	455.35	100.09	395.45	376.44	1063.17	251.19	378.44	180.09	271.46	377.56
26317	7.64	-6.16	-13.00	255.30	97.76	475.44	100.28	396.66	371.64	1005.87	240.84	404.21	211.18	276.42	373.22
26318	7.48	-7.26	-13.00	256.61	92.74	492.48	99.55	404.92	353.15	938.74	226.63	425.70	224.60	288.81	355.22
26319	9.09	-3.96	-13.00	284.03	109.92	469.52	109.42	405.16	370.98	1179.13	270.99	360.32	173.05	289.21	371.76
26320	8.97	-5.07	-13.00	282.43	107.71	481.36	110.75	396.89	380.42	1127.59	263.09	378.16	203.45	283.49	381.62
26321	8.81	-6.17	-13.00	282.52	105.83	500.58	112.10	398.84	377.09	1063.65	252.34	404.71	239.53	288.34	378.78
26322	8.63	-7.26	-13.00	283.98	99.55	517.35	112.01	408.78	360.05	988.02	236.23	427.16	257.53	301.39	362.31
26323	10.30	-3.96	-13.00	312.42	117.32	498.51	117.35	406.48	374.03	1246.99	281.97	359.91	189.97	310.38	374.79
26324	10.16	-5.07	-13.00	309.42	116.07	509.41	119.28	398.21	384.99	1191.41	274.56	378.26	225.42	303.51	386.16
26325	9.99	-6.17	-13.00	308.08	115.71	527.82	121.89	400.65	383.75	1121.77	264.11	405.78	267.13	307.32	385.41
26326	9.78	-7.26	-13.00	308.85	109.05	544.66	123.17	412.24	369.02	1038.39	246.73	429.62	290.78	320.21	371.27
26327	11.51	-3.96	-13.00	340.06	124.68	529.28	122.79	408.11	376.98	1309.66	291.13	360.06	204.29	347.17	377.66
26328	11.36	-5.07	-13.00	335.23	124.66	539.06	124.87	399.54	389.65	1251.46	284.73	378.85	244.78	334.21	390.66
26329	11.16	-6.17	-13.00	331.56	126.61	556.51	128.29	401.95	391.11	1177.64	275.24	407.46	292.35	335.63	392.51
26330	10.93	-7.26	-13.00	330.16	120.98	573.59	131.16	414.62	379.89	1088.20	257.50	433.23	322.26	346.66	381.81
26331	12.73	-3.96	-13.00	366.60	131.52	561.68	125.73	410.41	379.43	1362.76	297.38	361.17	215.19	391.31	379.96
26332	12.55	-5.07	-13.00	359.73	132.40	570.00	127.15	401.32	393.58	1303.85	292.38	380.11	260.54	379.32	394.30
26333	12.34	-6.17	-13.00	353.03	136.64	585.9									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
26363	3.03	-3.95	-14.33	172.87	118.83	382.67	77.66	381.72	370.55	982.51	239.00	383.26	57.75	335.96	370.60
26364	2.99	-5.06	-14.33	175.41	100.38	399.40	55.07	347.27	352.96	953.87	227.30	400.31	99.08	302.66	353.04
26365	2.94	-6.16	-14.33	179.18	101.44	420.45	51.72	350.95	352.80	918.81	223.73	421.68	134.95	307.72	352.91
26366	2.88	-7.25	-14.33	183.32	111.06	443.41	59.31	391.42	367.17	878.18	223.38	444.97	174.74	349.73	367.30
26367	4.24	-3.95	-14.33	201.78	121.13	395.49	88.33	381.94	370.78	1049.55	251.47	382.30	78.77	333.79	370.84
26368	4.18	-5.06	-14.33	204.13	104.29	411.48	70.12	347.65	353.41	1015.16	240.07	399.49	123.26	300.77	353.51
26369	4.11	-6.16	-14.33	207.88	106.98	431.68	68.51	351.74	353.64	973.07	236.36	420.99	161.34	306.38	353.79
26370	4.03	-7.25	-14.33	212.33	117.77	453.82	75.94	392.67	368.57	924.27	235.50	444.43	202.96	349.00	368.74
26371	5.45	-3.95	-14.33	234.85	123.80	411.97	99.82	382.26	371.21	1123.65	264.07	381.37	100.63	332.52	371.29
26372	5.38	-5.06	-14.33	237.04	109.26	427.05	85.18	348.15	354.12	1082.98	253.19	398.70	149.42	299.77	354.25
26373	5.29	-6.16	-14.33	240.87	114.31	446.22	85.13	352.73	354.86	1033.12	249.60	420.37	190.69	305.95	355.05
26374	5.18	-7.25	-14.33	245.88	126.88	467.36	93.16	394.26	370.52	975.21	248.52	444.00	234.99	349.28	370.74
26375	6.67	-3.95	-14.33	270.49	126.95	431.70	111.54	382.67	371.85	1203.60	277.01	380.47	123.21	332.58	371.95
26376	6.58	-5.06	-14.33	272.46	115.57	445.76	99.95	348.77	355.14	1156.29	266.98	397.97	177.31	300.05	355.30
26377	6.46	-6.16	-14.33	276.46	123.79	463.78	101.56	353.90	356.52	1098.05	263.91	419.83	222.85	306.78	356.74
26378	6.33	-7.26	-14.33	282.31	138.87	483.82	110.84	396.22	373.12	1030.08	262.99	443.72	270.86	350.90	373.39
26379	7.88	-3.96	-14.33	307.61	130.76	454.26	122.98	383.17	372.72	1287.36	290.48	379.61	146.21	334.50	372.84
26380	7.77	-5.06	-14.33	309.19	123.49	467.24	114.13	349.49	356.50	1233.38	281.80	397.29	206.58	302.09	356.68
26381	7.64	-6.16	-14.33	313.31	135.89	484.06	117.66	355.23	358.71	1166.46	279.87	419.39	257.57	309.31	358.97
26382	7.48	-7.26	-14.33	320.29	154.42	502.96	128.96	398.54	376.53	1087.69	279.73	443.62	310.58	354.27	376.86
26383	9.09	-3.96	-14.33	345.52	135.41	479.25	133.64	383.77	373.80	1371.77	304.62	378.79	169.07	339.01	373.92
26384	8.97	-5.07	-14.33	346.35	133.23	491.12	127.25	350.27	358.23	1311.66	297.92	396.67	236.56	306.53	358.43
26385	8.81	-6.17	-14.33	350.26	151.06	506.74	133.05	356.62	361.56	1236.36	298.05	419.07	294.24	314.06	361.85
26386	8.63	-7.26	-14.33	358.46	174.48	524.60	147.38	401.17	381.05	1146.53	299.83	443.77	353.94	359.87	381.42
26387	10.30	-3.96	-14.33	383.80	141.05	506.32	142.98	384.52	375.00	1452.11	319.47	378.01	191.02	347.09	375.13
26388	10.16	-5.07	-14.33	383.28	144.69	517.06	138.59	351.09	360.27	1387.15	315.37	396.12	266.16	314.23	360.48
26389	9.99	-6.17	-14.33	386.20	169.36	531.48	146.76	357.96	365.13	1304.78	318.71	418.89	331.60	321.69	365.43
26390	9.78	-7.26	-14.33	395.02	200.04	548.46	165.23	403.84	387.08	1204.77	324.39	444.27	399.90	368.13	387.47
26391	11.51	-3.96	-14.33	422.30	147.76	535.17	150.57	385.54	376.20	1521.59	334.94	377.26	211.14	360.08	376.32
26392	11.36	-5.07	-14.33	419.76	157.18	544.71	147.33	352.04	362.42	1453.96	333.82	395.60	294.05	326.44	362.61
26393	11.16	-6.17	-14.33	420.37	189.67	557.90	157.23	359.16	369.23	1367.10	341.22	418.83	367.75	333.20	369.49
26394	10.93	-7.26	-14.33	427.97	230.84	574.14	180.16	406.15	394.77	1259.68	353.34	445.18	446.00	379.58	395.13
26395	12.73	-3.96	-14.33	461.16	155.62	565.58	156.41	387.09	377.24	1570.65	350.99	376.55	228.64	379.89	377.34
26396	12.55	-5.07	-14.33	456.05	169.46	573.84	153.12	353.40	364.28	1503.56	352.73	395.09	319.04	343.03	364.43
26397	12.34	-6.17	-14.33	452.88	209.06	585.60	163.01	360.42	373.13	1416.10	363.80	418.76	400.78	350.26	373.33
26398	12.08	-7.26	-14.33	456.05	262.96	600.94	188.53	407.81	403.23	1306.37	383.67	446.31	488.90	395.23	403.49
26399	13.94	-3.96	-14.33	500.79	165.00	597.45	161.21	389.54	378.03	1586.16	367.66	375.90	242.94	409.23	378.12
26400	13.75	-5.07	-14.33	492.85	180.60	604.34	156.90	355.66	365.47	1523.94	371.89	394.56	340.32	372.73	365.57
26401	13.51	-6.17	-14.33	484.92	223.63	614.35	164.49	362.42	375.72	1441.01	384.39	418.51	429.71	375.61	375.82
26402	13.23	-7.26	-14.33	480.16	287.73	628.04	188.29	409.36	410.01	1336.13	408.98	447.15	526.17	417.39	410.11
26403	15.15	-3.96	-14.33	542.03	176.75	630.85	166.50	393.55	378.81	1550.06	385.06	375.37	253.64	451.95	378.89
26404	14.94	-5.08	-14.33	531.17	191.26	636.31	161.03	359.51	366.02	1498.62	391.94	394.03	357.26	413.35	366.08
26405	14.69	-6.18	-14.33	518.34	231.78	644.30	165.14	366.15	376.25	1426.68	402.95	417.97	454.37	413.14	376.27
26406	14.38	-7.26	-14.33	503.90	296.26	655.25	183.00	412.41	411.84	1334.65	423.58	446.96	557.90	450.26	411.84
26407	16.36	-3.96	-14.33	586.84	192.02	666.18	174.37	400.48	380.42	1437.62	402.83	375.01	260.77	513.68	380.51
26408	16.14	-5.08	-14.33	572.61	204.13	670.17	168.54	366.05	366.87	1404.92	413.78	393.58	368.87	472.26	366.91
26409	15.86	-6.18	-14.33	555.27	237.35	676.05	170.02	372.63	375.62	1352.49	422.61	417.24	473.94	467.90	375.62
26410	15.53	-7.26	-14.33	532.01	290.11	683.61	181.38	418.54	408.19	1281.52	430.96	445.52	584.81	498.76	408.28
26411	17.57	-3.96	-14.33	639.83	212.19	704.66	188.33	413.88	384.71	1215.98	419.75	374.75	265.95	602.08	384.83
26412	17.33	-5.08	-14.33	619.83	222.55	706.79	182.57	377.69	370.43	1212.91	436.66	393.20	374.63	556.24	370.46
26413	17.04	-6.18	-14.33	598.30	247.87	710.57	182.80	383.60	377.01	1191.13	445.88	416.57	486.27	546.21	377.05
26414	16.68	-7.26	-14.33	569.65	284.22	715.01	189.66	428.95	404.17	1150.31	442.22	443.54	604.50	568.20	404.58
26415	18.78	-3.96	-14.33	707.90	238.34	746.78	220.47	441.08	414.63	849.18	432.98	373.56	278.71	723.13	414.71
26416	18.53	-5.08	-14.33	676.04	248.15	746.21	209.87	399.46	394.92	889.01	455.08	392.20	378.76	669.83	394.93
26417	18.21	-6.18	-14.33	650.35	268.42	747.90	207.49	403.64	396.89	909.87	468.14	415.70	490.28	653.65	397.04
26418	17.83	-7.26	-14.33	620.97	293.44	750.12	210.96	448.13	418.01	910.42	460.09	441.90	613.50	665.46	419.19
26419	-18.78	-3.96	-11.67	181.06	87.87	687.16	102.48	340.90	387.30	259.28	75.06	365.64	103.00	251.98	387.36
26420	-18.53	-5.08	-11.67	178.17	85.29	683.21	99.24	340.33	388.51	257.90	71.78	376.64	100.04	251.97	388.60
26421	-18.21	-6.18	-11.67	174.55	81.48	679.94	94.89	341.50	380.79	256.18	67.22	392.12	95.99	253.77	380.91
26422	-17.83	-7.26	-11.67	170.13	77.33	673.51	90.73	343.72	365.63	253.98	62.36	405.78	92.31	256.66	365.76
26423	-17.57	-3.96	-11.67	224.17	90.36	676.17	109.04	378.31	387.36	328.51	70.04	375.80	109.20	283.91	387.48
26424	-17.33	-5.08	-11.67	219.20	87.11	673.57	104.66	375.58	390.34	324.45	66.78	388.19	104.93	281.93	390.53
26425	-17.04	-6.18	-11.67	213.02	81.97	671.89	99.40	373.96	385.46	319.40	61.45	405.36	95.77	281.19	385.73
26426	-16.68	-7.26	-11.67	205.70	77.38	667.49	94.66	372.80	373.31	313.42	56.91	421.25	95.21	280.98	373.67
26427	-16.36	-3.96	-11.67	249.00	90.95	650.16	110.97	395.84	387.30	379.04	65.79	378.26	110.93	300.88	387.41
26428	-16.14	-5.08	-11.67	243.13	88.39	650.16	106.71	392.30	392.15	373.49	64.28	392.36	106.64	297.97	392.33
26429	-15.86	-6.18	-11.67	235.98	83.51	651.91	101.93	389.41	389.84	366.76	60.03	411.86	101.81	295.82	390.11
26430	-15.53	-7.26	-11.67	227.80	79.25	652.09	97.93	386.50	380.09	359.08	56.73	430.86	97.73	293.73	380.45

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
26461	-6.46	-6.16	-11.67	176.37	63.96	435.82	66.58	399.74	360.51	515.99	94.07	401.49	67.56	297.20	360.43
26462	-6.33	-7.26	-11.67	176.95	61.20	449.95	66.21	396.69	346.33	509.83	94.13	418.56	65.60	294.75	346.22
26463	-5.45	-3.95	-11.67	157.22	65.45	385.23	54.35	403.44	363.39	541.67	106.63	365.82	56.20	291.82	363.40
26464	-5.38	-5.06	-11.67	157.62	63.91	397.89	54.59	401.27	363.75	536.11	105.70	380.11	56.87	290.46	363.75
26465	-5.29	-6.16	-11.67	158.13	61.98	414.31	54.67	398.81	356.15	529.42	104.91	398.41	56.80	288.98	356.13
26466	-5.18	-7.25	-11.67	158.46	59.80	428.98	55.14	394.93	341.92	521.43	104.40	414.96	55.13	286.20	341.90
26467	-4.24	-3.95	-11.67	139.44	63.36	366.07	41.46	403.49	360.30	559.55	118.11	363.72	45.11	282.57	360.35
26468	-4.18	-5.06	-11.67	139.82	62.08	379.32	41.99	401.02	360.36	552.62	116.89	377.71	46.57	281.33	360.43
26469	-4.11	-6.16	-11.67	140.17	60.87	396.37	42.66	398.07	352.55	544.14	115.80	395.62	47.26	279.87	352.64
26470	-4.03	-7.25	-11.67	140.19	59.15	411.59	44.26	393.53	338.34	534.00	114.54	411.79	46.12	277.01	338.44
26471	-3.03	-3.95	-11.67	123.46	62.09	351.08	28.37	403.65	357.73	580.01	129.70	361.69	35.87	272.47	357.84
26472	-2.99	-5.06	-11.67	123.74	61.08	364.83	29.45	400.93	357.61	571.38	128.07	375.46	38.80	271.46	357.77
26473	-2.94	-6.16	-11.67	123.85	60.46	382.43	31.05	397.60	349.70	560.78	126.49	393.09	40.81	270.19	349.91
26474	-2.88	-7.25	-11.67	123.54	59.07	398.16	34.17	392.56	335.52	548.15	124.37	408.99	40.56	267.49	335.78
26475	-1.82	-3.95	-11.67	110.95	61.60	340.79	15.76	403.94	355.70	603.59	141.19	359.73	31.22	261.81	355.89
26476	-1.79	-5.05	-11.67	111.07	60.79	354.90	17.94	401.03	355.50	592.93	139.06	373.36	36.23	261.14	355.78
26477	-1.76	-6.15	-11.67	110.93	60.58	372.91	21.02	397.44	347.56	579.85	136.82	390.80	39.92	260.23	347.93
26478	-1.73	-7.25	-11.67	110.30	59.39	389.01	26.15	392.06	333.43	564.39	133.77	406.54	40.86	257.89	333.91
26479	-0.61	-3.95	-11.67	103.88	61.82	335.58	8.06	404.35	354.24	630.75	152.51	357.83	33.84	250.92	354.52
26480	-0.60	-5.05	-11.67	103.82	61.12	349.88	11.73	401.33	354.03	617.74	149.77	371.39	40.60	250.70	354.46
26481	-0.59	-6.15	-11.67	103.43	61.11	368.10	16.17	397.59	346.12	601.81	146.74	388.76	45.71	250.29	346.71
26482	-0.58	-7.25	-11.67	102.51	59.98	384.42	22.63	392.00	332.08	583.10	142.65	404.42	47.75	248.50	332.83
26483	-18.78	-3.96	-13.00	387.34	154.77	735.70	155.93	419.37	415.35	465.06	122.44	398.78	156.35	361.63	415.37
26484	-18.53	-5.08	-13.00	375.07	150.69	732.36	149.66	406.78	422.94	454.94	117.65	412.16	150.11	349.36	422.97
26485	-18.21	-6.18	-13.00	361.40	144.83	733.68	140.02	406.98	416.64	443.88	111.64	435.09	140.00	349.91	416.68
26486	-17.83	-7.26	-13.00	343.70	134.26	731.44	128.26	417.79	397.99	429.29	100.14	454.64	128.41	361.10	398.04
26487	-17.57	-3.96	-13.00	408.59	149.06	700.04	153.77	427.35	402.13	516.15	110.95	396.41	153.95	364.78	402.17
26488	-17.33	-5.08	-13.00	395.75	145.00	699.71	146.62	415.41	412.43	504.85	107.12	411.51	146.79	353.40	412.49
26489	-17.04	-6.18	-13.00	380.76	141.64	703.73	137.09	415.23	411.29	491.68	105.33	435.97	136.94	353.87	411.40
26490	-16.68	-7.26	-13.00	361.45	133.48	704.76	125.62	425.63	399.91	474.56	97.60	458.38	125.50	364.98	400.08
26491	-16.36	-3.96	-13.00	403.55	141.82	660.88	145.88	422.96	395.31	542.19	100.77	391.93	145.91	359.49	395.35
26492	-16.14	-5.08	-13.00	392.48	139.53	663.51	139.74	412.21	407.93	531.93	100.02	408.50	139.76	349.27	407.99
26493	-15.86	-6.18	-13.00	379.07	140.44	671.07	132.11	412.32	410.91	519.47	104.50	434.93	132.06	350.00	411.02
26494	-15.53	-7.26	-13.00	362.29	136.27	677.20	123.41	422.73	405.49	503.88	102.25	460.94	123.38	361.10	405.67
26495	-15.15	-3.96	-13.00	387.15	135.63	624.93	139.52	417.03	393.01	557.21	94.25	389.20	139.45	355.03	393.04
26496	-14.94	-5.08	-13.00	378.26	135.81	629.83	135.32	406.89	407.09	548.41	97.00	406.66	135.27	345.22	407.13
26497	-14.69	-6.18	-13.00	367.66	140.90	640.94	130.92	407.28	412.54	537.89	106.64	434.69	131.11	346.01	412.60
26498	-14.38	-7.26	-13.00	355.52	140.12	652.56	127.02	418.02	410.14	525.96	108.13	463.55	127.26	357.22	410.21
26499	-13.94	-3.96	-13.00	365.85	130.08	591.01	134.33	411.90	391.45	567.28	90.31	387.34	134.18	352.23	391.46
26500	-13.75	-5.07	-13.00	359.13	132.03	597.93	132.68	402.23	405.97	559.96	94.86	403.33	132.59	342.67	405.97
26501	-13.51	-6.17	-13.00	351.82	139.04	612.16	132.03	403.25	411.63	551.88	105.95	434.18	132.53	343.84	411.61
26502	-13.23	-7.26	-13.00	345.08	138.65	627.85	132.92	415.15	408.17	544.41	106.89	463.88	133.54	355.94	408.09
26503	-12.73	-3.96	-13.00	342.38	124.06	558.41	129.08	407.92	389.33	575.18	87.52	385.76	128.88	350.33	389.32
26504	-12.55	-5.07	-13.00	337.86	126.21	567.08	129.65	398.86	403.12	569.41	91.38	403.92	129.60	341.19	403.09
26505	-12.34	-6.17	-13.00	334.01	132.30	583.56	131.72	400.82	406.93	563.94	100.24	432.68	132.69	343.10	406.84
26506	-12.08	-7.26	-13.00	332.49	129.54	601.04	135.04	413.91	399.57	560.72	97.70	461.27	136.21	356.16	399.37
26507	-11.51	-3.96	-13.00	317.98	116.99	526.97	122.49	405.04	386.33	582.48	85.84	384.18	122.28	348.52	386.31
26508	-11.36	-5.07	-13.00	315.61	118.05	537.01	124.30	396.56	398.62	578.18	87.47	402.19	124.36	339.88	398.56
26509	-11.16	-6.17	-13.00	314.91	121.55	554.87	127.32	399.22	399.63	575.01	92.50	430.20	128.89	342.36	399.50
26510	-10.93	-7.26	-13.00	317.35	115.97	572.51	130.49	412.44	387.84	574.77	86.90	456.74	132.30	355.41	387.58
26511	-10.30	-3.96	-13.00	293.12	109.17	496.79	113.83	402.97	382.69	590.11	86.51	382.51	113.66	346.19	382.66
26512	-10.16	-5.07	-13.00	292.57	108.66	507.90	115.89	394.85	393.29	586.93	85.89	400.17	116.14	337.89	393.21
26513	-9.99	-6.17	-13.00	294.19	109.51	526.64	118.48	397.59	391.62	585.17	87.67	427.19	120.77	340.43	391.47
26514	-9.78	-7.26	-13.00	298.68	102.42	543.94	120.35	409.76	376.35	586.00	81.65	451.68	122.72	352.40	376.10
26515	-9.09	-3.96	-13.00	267.88	101.34	468.21	103.07	401.43	378.86	598.65	90.63	380.76	102.98	342.93	378.82
26516	-8.97	-5.07	-13.00	268.61	99.53	480.21	104.82	393.35	387.95	595.97	88.76	398.00	105.28	334.75	387.88
26517	-8.81	-6.17	-13.00	271.48	98.51	499.70	106.43	395.63	384.23	594.49	88.77	424.08	109.52	336.91	384.10
26518	-8.63	-7.26	-13.00	276.38	91.54	516.86	107.20	406.14	366.71	594.69	84.40	446.98	109.99	347.29	366.49
26519	-7.88	-3.96	-13.00	242.31	94.20	441.62	90.62	400.25	375.17	608.62	98.23	378.99	90.63	338.63	375.15
26520	-7.77	-5.06	-13.00	243.74	91.65	454.46	91.93	391.97	383.12	605.74	96.07	395.84	92.63	330.39	383.06
26521	-7.64	-6.16	-13.00	247.00	89.69	474.78	92.59	393.51	377.98	603.55	95.40	421.16	96.65	331.99	377.87
26522	-7.48	-7.26	-13.00	251.38	83.91	492.16	92.97	402.32	359.05	602.03	92.92	442.93	96.10	340.85	358.88
26523	-6.67	-3.95	-13.00	216.66	88.18	417.49	77.00	399.34	371.86	620.58	108.46	377.24	77.20	333.34	371.84
26524	-6.58	-5.06	-13.00	218.33	85.46	431.17	78.00	390.73	378.97	616.89	106.44	393.76	79.05	324.98	378.93
26525	-6.46	-6.16	-13.00	221.47	83.24	452.41	77.94	391.50	372.86	613.26	105.52	418.52	83.38	326.05	372.78
26526	-6.33	-7.26	-13.00	224.99	79.15	470.26	78.55	398.84	352.99	609.47	104.28	439.48	82.21	333.71	352.86
26527	-5.45	-3.95	-13.00	191.47	83.47	396.31	62.67	398.67	368.99	635.18	120.28	375.55	63.29	327.19	368.98
26528	-5.38	-5.06	-13.00	193.09	80.98	410.80	63.57	389.72	375.51	630.17	118.45	391.81	65.35	318.75	375.49
26529	-5.29	-6.16	-13.00	195.90	78.91	432.99	62.97	389.79	368.72	624.62	117.33	416			



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
26559	-15.15	-3.96	-14.33	524.60	165.27	629.09	175.54	392.66	382.56	709.37	100.90	402.05	175.49	369.72	382.56
26560	-14.94	-5.08	-14.33	513.85	182.68	634.72	166.85	358.62	369.74	698.57	129.38	419.18	166.87	335.83	369.74
26561	-14.69	-6.18	-14.33	501.17	228.23	642.94	167.51	365.34	379.94	685.78	190.08	441.36	167.71	342.74	379.94
26562	-14.38	-7.26	-14.33	486.91	298.44	654.25	182.30	411.90	415.75	671.35	271.62	468.51	182.97	389.52	415.75
26563	-13.94	-3.96	-14.33	478.16	151.73	596.29	165.60	388.71	381.72	701.28	89.35	400.45	164.78	366.98	381.72
26564	-13.75	-5.07	-14.33	471.30	172.33	603.29	159.02	354.82	369.08	693.43	122.25	417.74	159.24	333.15	369.08
26565	-13.51	-6.17	-14.33	464.80	221.72	613.48	164.51	361.63	379.31	685.67	186.08	440.26	165.92	340.03	379.31
26566	-13.23	-7.26	-14.33	462.04	291.80	627.49	186.89	408.88	413.87	681.42	265.51	467.81	190.12	387.37	413.87
26567	-12.73	-3.96	-14.33	436.21	140.95	564.80	156.84	386.08	380.78	696.61	83.58	399.02	155.14	365.46	380.78
26568	-12.55	-5.07	-14.33	432.91	160.96	573.15	152.01	352.40	367.72	691.47	114.35	416.38	152.44	331.75	367.72
26569	-12.34	-6.17	-14.33	432.14	207.48	585.05	160.80	359.50	376.55	688.37	173.41	438.95	163.49	338.82	376.55
26570	-12.08	-7.26	-14.33	438.57	267.11	600.66	185.92	407.25	406.88	692.06	240.60	465.92	191.69	386.55	406.88
26571	-11.51	-3.96	-14.33	397.41	131.98	534.62	147.59	384.32	379.54	694.40	83.37	397.64	144.88	364.38	379.54
26572	-11.36	-5.07	-14.33	397.13	147.85	544.24	143.27	350.85	365.64	691.51	106.31	414.99	143.90	330.84	365.64
26573	-11.16	-6.17	-14.33	400.71	187.40	557.54	152.75	358.08	372.42	691.77	155.92	437.34	156.78	337.98	372.42
26574	-10.93	-7.26	-14.33	412.18	234.08	574.02	175.82	405.46	398.15	699.35	208.94	463.30	184.24	385.26	398.15
26575	-10.30	-3.96	-14.33	360.68	124.57	505.92	137.07	383.14	378.08	694.37	88.74	396.28	133.14	363.30	378.08
26576	-10.16	-5.07	-14.33	362.61	134.25	516.71	131.83	349.77	363.25	692.90	101.37	413.54	132.64	329.84	363.25
26577	-9.99	-6.17	-14.33	368.69	165.88	531.24	140.01	356.77	368.08	694.69	140.10	435.57	145.48	336.74	368.08
26578	-9.78	-7.26	-14.33	381.45	202.00	548.42	159.01	403.04	390.22	702.49	181.40	460.58	170.27	382.90	390.22
26579	-9.09	-3.96	-14.33	325.23	118.81	478.95	125.27	382.33	376.59	696.58	98.85	394.93	119.77	361.97	376.59
26580	-8.97	-5.07	-14.33	328.46	121.80	490.87	118.05	348.89	360.92	695.58	102.19	412.07	118.98	328.48	360.92
26581	-8.81	-6.17	-14.33	335.45	146.32	506.57	124.16	355.39	364.24	697.24	130.49	433.81	131.22	334.90	364.24
26582	-8.63	-7.26	-14.33	347.34	175.13	524.61	139.38	400.30	383.94	703.04	162.83	458.12	153.87	379.74	383.94
26583	-8.88	-3.96	-14.33	290.65	114.74	454.02	112.67	381.75	375.20	701.45	112.09	393.59	105.06	360.30	375.20
26584	-7.77	-5.06	-14.33	294.46	111.55	467.04	102.78	348.15	358.89	700.03	108.86	410.63	103.75	326.69	358.89
26585	-7.64	-6.16	-14.33	301.38	130.12	483.94	106.83	354.02	361.09	700.44	128.25	432.14	115.84	332.56	361.09
26586	-7.48	-7.26	-14.33	311.67	153.85	503.01	119.37	397.69	379.12	703.29	153.23	455.99	137.85	376.22	379.12
26587	-6.67	-3.95	-14.33	256.96	112.23	431.52	99.88	381.36	373.98	709.63	126.90	392.28	89.37	358.28	373.98
26588	-6.58	-5.06	-14.33	260.88	103.80	445.61	86.78	347.54	357.20	707.12	119.63	409.23	87.79	324.54	357.20
26589	-6.46	-6.16	-14.33	267.34	117.43	463.70	88.99	352.79	358.57	705.59	132.08	430.59	100.73	329.88	358.57
26590	-6.33	-7.26	-14.33	276.07	137.28	483.89	99.86	395.43	375.35	705.23	150.80	454.13	123.64	372.62	375.35
26591	-5.45	-3.95	-14.33	224.57	110.99	411.83	87.53	381.12	372.97	721.92	142.23	391.01	72.97	355.97	372.97
26592	-5.38	-5.06	-14.33	228.41	98.40	426.94	70.56	347.08	355.82	717.80	132.64	407.90	71.85	322.11	355.82
26593	-5.29	-6.16	-14.33	234.32	107.89	446.17	71.05	351.77	356.56	713.88	140.01	429.15	87.01	327.01	356.56
26594	-5.18	-7.26	-14.33	241.77	124.57	467.43	81.03	393.59	372.35	710.15	153.60	452.49	112.21	369.06	372.35
26595	-4.24	-3.95	-14.33	194.40	110.72	395.39	76.35	381.02	372.16	739.11	157.45	389.77	56.03	353.42	372.16
26596	-4.18	-5.06	-14.33	198.08	95.04	411.40	54.55	346.79	354.74	732.95	146.59	406.62	56.88	319.47	354.74
26597	-4.11	-6.16	-14.33	203.51	101.10	431.65	53.15	350.98	354.96	726.27	150.38	427.80	76.08	324.01	354.96
26598	-4.03	-7.26	-14.33	209.96	115.16	453.88	63.04	392.14	369.96	718.95	159.95	451.00	104.67	365.56	369.96
26599	-3.03	-3.95	-14.33	167.98	111.17	382.61	67.24	381.04	371.54	761.98	172.29	388.58	38.69	350.68	371.54
26600	-2.99	-5.06	-14.33	171.52	93.34	399.35	39.38	346.64	353.91	753.37	160.75	405.39	44.83	316.69	353.91
26601	-2.94	-6.16	-14.33	176.57	96.70	420.42	35.32	350.41	353.71	743.51	162.03	426.54	69.84	320.96	353.71
26602	-2.88	-7.26	-14.33	182.22	108.62	443.45	46.32	391.05	368.10	732.22	168.55	449.66	102.19	362.17	368.10
26603	-1.82	-3.95	-14.33	147.72	112.13	373.85	61.30	381.17	371.11	791.26	186.60	387.43	21.22	347.81	371.11
26604	-1.79	-5.05	-14.33	151.14	92.97	391.10	26.72	346.64	353.33	779.74	174.75	404.22	39.53	313.83	353.33
26605	-1.76	-6.15	-14.33	155.86	94.35	412.75	17.61	350.04	352.81	766.18	174.26	425.35	70.27	317.89	352.81
26606	-1.73	-7.25	-14.33	160.89	104.66	436.34	32.34	390.32	366.75	750.42	178.52	448.44	105.64	358.93	366.75
26607	-0.61	-3.95	-14.33	136.80	113.44	369.40	59.53	381.36	370.84	827.62	200.35	386.33	7.08	344.84	370.84
26608	-0.60	-5.05	-14.33	140.05	93.65	386.90	21.51	346.74	352.99	812.67	188.42	403.11	44.56	310.91	352.99
26609	-0.59	-6.15	-14.33	144.43	93.81	408.84	1.46	349.88	352.25	794.77	186.66	424.24	78.09	314.90	352.25
26610	-0.58	-7.25	-14.33	148.95	103.10	432.73	25.55	389.94	365.94	773.84	189.27	447.35	115.20	355.91	365.94
26611	-23.24	-3.96	-11.67	5.33	53.56	303.33	19.04	59.48	331.66	4.51	62.76	585.45	20.38	62.16	330.97
26612	-23.02	-5.07	-11.67	7.68	62.39	306.83	23.56	75.64	334.45	7.21	69.87	564.90	25.50	77.06	333.21
26613	-22.75	-6.17	-11.67	10.98	78.07	309.67	29.71	90.41	326.26	11.32	85.89	548.48	32.70	90.84	323.91
26614	-22.42	-7.26	-11.67	14.49	87.80	312.02	36.23	102.67	307.25	15.73	98.04	534.13	40.49	102.57	304.11
26615	-22.38	-3.96	-11.67	15.33	56.96	413.92	36.57	75.83	355.73	11.59	67.99	379.32	38.90	61.70	354.84
26616	-22.15	-5.07	-11.67	16.66	64.23	419.30	40.85	91.99	357.01	15.93	73.99	373.49	44.38	77.39	355.49
26617	-21.87	-6.18	-11.67	19.81	77.80	423.92	45.20	106.35	346.16	20.78	86.70	370.79	50.12	91.18	343.83
26618	-21.53	-7.26	-11.67	23.69	86.83	427.83	49.24	120.05	324.72	25.62	96.02	366.76	55.46	104.00	321.66
26619	-21.53	-3.96	-11.67	28.54	66.11	549.58	59.65	146.54	373.13	49.96	74.03	307.11	61.73	99.67	372.51
26620	-21.29	-5.08	-11.67	32.30	70.33	550.05	61.93	155.29	373.20	54.52	77.42	312.60	65.13	109.29	372.21
26621	-20.99	-6.18	-11.67	35.37	78.81	552.08	63.62	165.23	361.63	58.64	84.86	321.67	67.93	119.50	360.20
26622	-20.64	-7.26	-11.67	38.75	83.35	553.68	65.08	177.21	340.61	63.46	88.53	329.06	70.55	131.10	338.73
26623	-20.67	-3.96	-11.67	77.79	75.91	633.64	77.85	225.26	381.86	116.27	77.76	321.09	79.37	159.32	381.86
26624	-20.42	-5.08	-11.67	78.73	77.55	631.33	78.18	229.61	381.70	118.70	78.61	330.15	80.51	163.92	381.22
26625	-20.12	-6.18	-11.67	79.52	80.88	630.69	77.57	236.40	370.62	121.41	80.99	343.64	80.67	170.74	369.94
26626	-19.75	-7.26	-11.67	80.90	81.19	628.34	76.82	245.64	350.89	125.14	80.22	355.36	80.93	179.77	349.96
26627	-19.82	-3.96	-11.67	129.24	83.14	674.87	91.72	288.13	385.92	185.35	78.16	346.53	92.71	209.16	385.8

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
26657	-21.87	-6.18	-14.33	476.27	285.16	773.02	182.41	376.62	480.52	482.17	263.08	413.04	181.94	371.80	480.32
26658	-21.53	-7.26	-14.33	502.91	315.59	779.65	210.57	429.51	490.09	510.90	295.32	436.12	207.74	424.98	489.99
26659	-21.53	-3.96	-14.33	639.94	283.69	792.56	212.86	480.76	506.85	650.54	251.63	398.50	215.32	472.55	506.82
26660	-21.29	-5.08	-14.33	598.96	278.94	792.93	195.59	419.90	474.66	611.55	244.80	414.31	196.42	411.37	474.61
26661	-20.99	-6.18	-14.33	580.72	290.58	796.09	199.62	420.39	466.75	595.87	257.37	435.54	198.14	411.44	466.73
26662	-20.64	-7.26	-14.33	584.63	292.56	799.90	212.35	471.47	475.70	603.00	261.19	458.43	208.20	462.01	475.71
26663	-20.67	-3.96	-14.33	695.05	275.15	786.47	228.01	482.11	497.07	718.77	234.27	407.67	230.23	468.63	497.05
26664	-20.42	-5.08	-14.33	660.23	270.05	786.53	214.23	427.47	464.35	686.59	226.99	423.70	214.46	413.81	464.32
26665	-20.12	-6.18	-14.33	638.34	276.65	788.47	213.12	429.78	457.13	668.00	235.24	444.41	211.17	415.88	457.12
26666	-19.75	-7.26	-14.33	621.49	281.45	790.39	216.48	477.16	469.11	655.13	243.36	466.89	211.85	462.97	469.09
26667	-19.82	-3.96	-14.33	742.82	260.68	773.78	257.94	464.76	466.62	784.81	211.80	413.77	259.62	447.00	466.62
26668	-19.56	-5.08	-14.33	703.76	259.53	772.49	239.90	416.38	438.54	748.86	210.22	429.20	239.77	398.57	438.53
26669	-19.24	-6.18	-14.33	675.35	270.09	773.55	231.78	419.90	435.06	724.28	224.70	449.55	229.79	402.03	435.06
26670	-18.86	-7.26	-14.33	646.21	285.31	775.06	229.38	466.00	450.84	699.65	245.58	472.15	224.88	448.04	450.82
26671	22.14	-8.10	-11.67	399.63	212.27	222.83	123.01	266.04	373.16	3250.58	1230.28	3168.25	331.59	2579.30	728.58
26672	21.23	-8.10	-11.67	363.78	135.15	412.09	99.82	238.82	308.88	2704.62	430.67	955.91	361.64	1730.52	540.70
26673	20.33	-8.10	-11.67	317.46	99.80	563.49	91.37	241.56	318.12	2229.55	164.68	444.97	383.38	1269.22	493.16
26674	19.42	-8.10	-11.67	279.77	88.50	643.44	87.82	277.24	327.43	1868.12	72.37	377.86	386.22	1033.42	446.95
26675	18.52	-8.10	-11.67	259.36	84.85	677.00	86.46	316.40	335.42	1604.65	84.89	417.57	382.97	887.30	408.32
26676	21.91	-8.70	-11.67	346.12	225.21	249.64	160.69	246.88	327.77	2665.18	1077.09	2576.49	896.14	2110.05	980.98
26677	20.99	-8.70	-11.67	314.02	122.55	422.60	120.45	229.36	301.75	2279.46	341.29	848.65	616.41	1491.48	661.19
26678	20.07	-8.70	-11.67	274.49	94.89	563.25	104.75	236.72	313.79	1913.68	140.57	433.06	529.95	1130.47	555.99
26679	19.16	-8.70	-11.67	245.66	85.66	636.45	96.08	275.36	323.14	1630.81	68.84	380.77	476.02	940.64	475.14
26680	18.24	-8.70	-11.67	233.52	83.03	666.87	91.30	315.10	331.57	1422.84	80.09	413.51	438.89	817.76	419.20
26681	22.14	-8.10	-13.00	23.79	156.45	379.59	73.51	142.96	352.85	48.03	436.12	1015.84	327.32	265.21	661.71
26682	21.23	-8.10	-13.00	105.40	152.12	560.66	92.47	238.57	373.62	816.46	239.53	982.57	365.75	1121.39	539.70
26683	20.33	-8.10	-13.00	207.18	147.12	686.93	101.62	333.57	366.51	1094.61	89.59	504.77	397.96	1179.68	490.61
26684	19.42	-8.10	-13.00	277.55	143.42	732.65	109.05	383.15	364.21	1159.68	127.91	411.15	424.59	1078.90	442.90
26685	18.52	-8.10	-13.00	317.77	139.61	742.23	112.02	410.68	364.53	1166.11	179.59	428.16	442.37	954.59	408.99
26686	21.91	-8.70	-13.00	17.89	156.03	379.12	62.13	153.94	339.38	51.41	418.29	959.73	306.43	309.78	618.67
26687	20.99	-8.70	-13.00	106.22	147.02	567.83	94.27	241.91	364.12	758.45	215.99	836.45	438.55	1013.06	608.28
26688	20.07	-8.70	-13.00	201.21	142.99	681.20	103.20	328.77	359.70	992.22	88.49	466.07	465.42	1061.40	526.49
26689	19.16	-8.70	-13.00	265.14	142.41	720.39	108.86	377.10	359.20	1056.67	121.05	407.85	479.82	979.39	461.63
26690	18.24	-8.70	-13.00	301.96	141.34	726.71	110.48	406.22	360.76	1074.55	166.83	424.23	485.28	875.03	416.50
26691	22.14	-8.10	-14.33	407.76	356.05	607.82	190.14	371.11	590.42	270.11	218.30	523.85	298.37	402.30	638.45
26692	21.23	-8.10	-14.33	533.32	287.82	775.01	173.17	505.55	493.50	297.89	199.79	477.93	438.09	640.92	527.28
26693	20.33	-8.10	-14.33	576.25	263.94	789.52	168.42	542.74	482.16	123.75	296.42	462.10	528.87	834.59	503.25
26694	19.42	-8.10	-14.33	592.47	256.70	783.94	176.87	547.23	477.51	390.48	365.84	446.46	593.42	852.91	489.21
26695	18.52	-8.10	-14.33	610.72	261.28	771.30	193.14	534.61	462.03	650.17	397.60	450.10	635.55	788.48	468.15
26696	21.91	-8.70	-14.33	411.75	325.83	607.25	253.19	350.07	558.62	260.19	130.00	502.04	207.50	394.47	596.22
26697	20.99	-8.70	-14.33	514.10	262.87	765.49	191.36	482.33	470.86	228.99	166.56	460.63	305.12	626.72	512.57
26698	20.07	-8.70	-14.33	541.79	252.56	778.26	183.54	517.52	464.82	130.43	255.59	447.11	419.64	782.24	493.28
26699	19.16	-8.70	-14.33	550.90	234.00	770.66	180.68	527.02	463.32	422.34	310.20	438.92	498.02	792.84	479.59
26700	18.24	-8.70	-14.33	561.03	212.78	756.66	180.41	522.57	452.35	668.64	326.17	444.40	550.46	738.88	460.89
26701	17.50	-8.10	-11.67	252.92	83.51	684.17	85.78	349.25	343.81	1397.50	117.78	442.48	372.60	763.76	380.96
26702	16.37	-8.10	-11.67	255.45	83.42	675.97	86.39	372.59	352.87	1239.60	144.89	449.34	357.13	646.70	367.04
26703	15.24	-8.10	-11.67	259.22	84.06	660.65	88.82	384.12	360.64	1130.89	163.08	447.77	338.94	543.05	364.34
26704	14.11	-8.10	-11.67	259.28	84.53	643.19	93.01	390.04	365.26	1052.06	175.23	444.22	319.92	454.82	365.50
26705	12.98	-8.10	-11.67	255.68	83.89	622.89	97.37	395.13	365.27	989.08	182.21	438.64	300.36	385.67	365.59
26706	11.85	-8.10	-11.67	249.58	81.36	598.08	99.55	400.02	360.83	934.22	185.56	431.10	279.87	334.08	362.55
26707	10.73	-8.10	-11.67	240.99	77.47	569.51	98.25	403.24	353.94	883.83	186.09	423.32	257.92	295.83	357.04
26708	9.60	-8.10	-11.67	229.26	73.28	539.52	93.70	403.89	346.72	837.09	184.32	416.99	233.95	267.48	350.64
26709	8.47	-8.10	-11.67	214.15	69.59	510.38	86.94	402.37	340.41	794.18	181.39	412.74	208.74	246.87	344.56
26710	7.34	-8.10	-11.67	196.25	66.65	483.46	78.96	399.65	335.34	754.96	177.86	410.31	183.51	232.86	339.33
26711	6.21	-8.10	-11.67	176.66	64.39	459.46	70.33	396.55	331.42	719.15	173.84	409.19	159.08	224.60	335.02
26712	5.08	-8.10	-11.67	156.57	62.64	438.78	61.38	393.58	328.45	686.52	169.34	408.96	135.93	221.12	331.56
26713	3.95	-8.10	-11.67	137.26	61.25	421.73	52.37	390.99	326.31	656.91	164.32	409.31	114.29	221.48	328.90
26714	2.82	-8.10	-11.67	120.24	60.11	408.57	43.65	388.92	324.89	630.25	158.75	410.09	94.34	224.81	326.97
26715	1.69	-8.10	-11.67	107.36	59.14	399.56	35.84	387.43	324.13	606.45	152.60	411.21	76.28	230.37	325.74
26716	0.56	-8.10	-11.67	100.66	58.32	394.91	30.08	386.53	324.01	585.42	145.86	412.65	60.56	237.55	325.21
26717	17.23	-8.70	-11.67	233.90	82.11	673.54	88.21	346.71	340.50	1260.51	107.58	436.26	406.01	710.99	383.39
26718	16.11	-8.70	-11.67	241.27	81.94	667.50	87.52	368.56	349.81	1136.65	132.50	446.16	377.10	607.76	365.83
26719	15.00	-8.70	-11.67	247.95	82.02	656.19	89.40	379.13	357.44	1048.34	149.92	449.17	351.68	514.40	361.64
26720	13.89	-8.70	-11.67	250.14	81.73	642.92	93.33	385.56	361.66	981.85	161.60	448.81	328.66	433.98	361.96
26721	12.78	-8.70	-11.67	248.63	80.41	625.49	97.06	391.66	361.17	927.94	167.66	444.54	305.68	372.91	361.53
26722	11.67	-8.70	-11.67	244.67	77.54	601.85	98.52	397.46	356.60	879.14	171.57	437.24	283.02	326.92	358.40
26723	10.56	-8.70	-11.67	237.84	73.73	573.42	96.75	400.73	349.88	833.84	172.94	429.41	259.36	292.22	353.10
26724	9.45	-8.70	-11.67	227.10	69.89	543.40	92.11	400.64	342.96	792.23	172.18	423.12	233.88	265.66	346.97
26725	8														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
26755	10.56	-8.70	-13.00	333.69	113.50	578.63	131.05	420.15	356.81	947.83	224.92	440.21	333.23	348.97	359.35
26756	9.45	-8.70	-13.00	313.16	101.28	547.14	121.33	413.19	343.51	910.31	216.33	434.10	295.38	322.63	346.34
26757	8.34	-8.70	-13.00	287.09	92.27	518.54	110.21	405.24	333.93	874.02	209.05	430.54	257.58	302.09	336.67
26758	7.22	-8.70	-13.00	258.13	85.93	493.32	99.13	397.80	327.01	838.84	202.78	428.55	221.82	287.46	329.48
26759	6.11	-8.70	-13.00	228.32	81.43	471.43	88.32	391.45	321.85	804.84	196.97	427.53	188.72	278.07	323.99
26760	5.00	-8.70	-13.00	199.13	78.19	452.86	77.87	386.27	317.97	772.41	191.16	427.14	158.32	272.98	319.77
26761	3.89	-8.70	-13.00	171.83	75.80	437.70	67.95	382.20	315.12	742.08	185.09	427.20	130.55	271.26	316.58
26762	2.78	-8.70	-13.00	148.01	73.98	426.10	58.93	379.16	313.12	714.35	178.58	427.61	105.34	272.17	314.27
26763	1.67	-8.70	-13.00	129.88	72.56	418.20	51.39	377.12	311.85	689.62	171.50	428.32	82.77	275.13	312.72
26764	0.56	-8.70	-13.00	120.19	71.42	414.12	46.19	376.09	311.25	668.14	163.79	429.30	63.24	279.70	311.88
26765	17.50	-8.10	-14.33	585.11	263.00	745.74	187.45	511.15	437.98	899.62	404.71	454.42	648.86	694.67	440.64
26766	16.37	-8.10	-14.33	533.28	267.25	712.87	170.04	494.07	432.72	1111.12	398.13	458.38	640.19	610.61	433.67
26767	15.24	-8.10	-14.33	504.77	290.21	685.24	169.01	485.94	445.29	1217.11	403.99	462.59	619.40	552.04	445.52
26768	14.11	-8.10	-14.33	490.61	306.37	660.77	181.03	481.02	452.49	1248.94	410.37	464.82	590.33	510.17	452.49
26769	12.98	-8.10	-14.33	480.63	290.85	635.84	193.88	478.68	446.43	1236.09	395.32	463.84	554.08	481.74	446.57
26770	11.85	-8.10	-14.33	464.66	250.83	609.01	193.71	476.26	432.32	1202.15	361.71	460.97	507.81	461.27	432.68
26771	10.73	-8.10	-14.33	438.70	206.47	581.71	180.55	472.30	417.39	1159.51	325.18	458.03	454.03	444.92	417.88
26772	9.60	-8.10	-14.33	404.16	169.60	555.63	160.67	467.15	405.27	1113.48	294.64	455.89	397.82	431.72	405.76
26773	8.47	-8.10	-14.33	364.73	142.95	531.78	139.93	461.87	396.54	1066.02	272.03	454.63	344.19	421.50	396.98
26774	7.34	-8.10	-14.33	323.93	124.44	510.45	120.50	457.22	390.17	1017.81	255.31	453.98	295.51	414.21	390.55
26775	6.21	-8.10	-14.33	283.85	111.72	491.72	102.28	453.38	385.35	970.02	242.16	453.71	251.92	409.46	385.67
26776	5.08	-8.10	-14.33	245.75	103.10	475.72	84.92	450.30	381.67	924.01	231.04	453.71	213.04	406.74	381.93
26777	3.95	-8.10	-14.33	210.78	97.34	462.61	68.14	447.89	378.91	881.00	220.94	453.94	178.51	405.59	379.11
26778	2.82	-8.10	-14.33	180.56	93.48	452.57	51.83	446.09	376.91	841.95	211.17	454.35	148.10	405.65	377.07
26779	1.69	-8.10	-14.33	157.51	90.84	445.76	36.05	444.88	375.59	807.56	201.29	454.93	121.79	406.67	375.70
26780	0.56	-8.10	-14.33	144.85	89.01	442.31	21.51	444.28	374.87	778.36	190.93	455.67	100.01	408.51	374.95
26781	17.23	-8.70	-14.33	532.84	198.25	731.95	160.72	510.05	437.56	897.65	327.49	451.39	574.85	665.47	441.28
26782	16.11	-8.70	-14.33	487.07	197.85	701.83	133.81	505.19	443.91	1087.14	323.37	458.35	576.30	603.98	445.24
26783	15.00	-8.70	-14.33	472.62	223.47	678.01	132.62	505.53	467.25	1170.45	334.33	464.79	562.40	561.11	467.58
26784	13.89	-8.70	-14.33	484.55	243.16	658.13	160.35	502.76	476.76	1171.59	347.31	467.19	536.59	524.72	476.75
26785	12.78	-8.70	-14.33	490.80	215.84	634.25	183.11	496.52	461.91	1143.51	328.33	463.93	494.00	495.96	462.11
26786	11.67	-8.70	-14.33	479.64	171.03	606.28	186.70	487.00	438.02	1108.03	297.32	458.70	436.79	470.12	438.47
26787	10.56	-8.70	-14.33	451.71	140.06	577.55	178.64	474.84	415.76	1072.03	274.29	454.14	371.92	446.80	416.34
26788	9.45	-8.70	-14.33	412.00	131.57	550.44	168.10	462.10	399.23	1036.88	262.70	451.16	306.95	426.92	399.80
26789	8.34	-8.70	-14.33	368.04	136.41	526.12	160.80	450.93	388.04	999.96	258.99	449.51	248.61	411.25	388.54
26790	7.22	-8.70	-14.33	323.90	146.11	504.59	156.00	441.83	379.81	961.04	258.80	448.58	197.60	399.76	380.24
26791	6.11	-8.70	-14.33	281.25	156.47	485.76	152.58	434.57	373.53	921.36	259.61	448.11	153.08	391.71	373.89
26792	5.00	-8.70	-14.33	240.96	165.76	469.71	149.98	428.86	368.71	882.50	260.07	447.98	114.34	386.37	369.00
26793	3.89	-8.70	-14.33	203.95	173.26	456.58	147.93	424.47	365.08	845.80	259.45	448.10	81.02	383.19	365.31
26794	2.78	-8.70	-14.33	171.74	178.74	446.53	146.32	421.24	362.47	812.31	257.32	448.45	53.45	381.74	362.64
26795	1.67	-8.70	-14.33	146.89	182.16	439.71	145.09	419.11	360.73	782.83	253.45	448.99	34.25	381.73	360.87
26796	0.56	-8.70	-14.33	133.20	183.65	436.23	144.22	418.08	359.72	757.95	247.81	449.71	30.50	383.00	359.81
26797	-0.56	-8.10	-11.67	101.47	57.64	394.77	28.08	386.20	324.54	566.99	138.51	414.44	48.07	254.84	325.39
26798	-1.69	-8.10	-11.67	109.46	57.14	399.19	30.86	386.41	325.77	550.93	130.57	416.59	40.47	254.78	326.32
26799	-2.82	-8.10	-11.67	122.93	56.90	408.03	37.45	387.19	327.70	537.02	122.09	419.12	39.39	264.05	328.01
26800	-3.95	-8.10	-11.67	139.81	57.03	421.05	46.18	388.55	330.35	524.93	113.18	422.05	44.34	273.42	330.48
26801	-5.08	-8.10	-11.67	158.34	57.66	437.97	55.93	390.50	333.72	514.19	103.95	425.41	52.94	282.67	333.70
26802	-6.21	-8.10	-11.67	177.10	58.95	458.48	66.06	392.97	337.85	504.20	94.57	429.28	63.12	291.51	337.74
26803	-7.34	-8.10	-11.67	194.82	61.08	482.26	76.17	395.75	342.86	494.15	85.30	433.73	73.67	299.57	342.66
26804	-8.47	-8.10	-11.67	210.28	64.20	508.90	85.88	398.37	348.90	483.02	76.65	438.84	83.84	306.22	348.64
26805	-9.60	-8.10	-11.67	222.35	68.30	537.68	94.58	400.05	356.07	469.71	69.42	444.51	92.81	310.55	355.76
26806	-10.73	-8.10	-11.67	230.40	72.95	567.13	101.21	399.82	364.03	453.49	64.53	450.16	99.52	311.54	363.73
26807	-11.85	-8.10	-11.67	234.60	77.07	594.83	104.53	397.22	371.57	434.32	62.05	454.42	102.85	308.78	371.36
26808	-12.98	-8.10	-11.67	235.36	79.29	618.12	104.01	393.08	376.54	412.28	60.52	455.36	102.46	303.45	376.52
26809	-14.11	-8.10	-11.67	231.82	78.96	635.96	100.55	388.73	376.94	386.15	58.19	451.52	99.46	297.54	377.15
26810	-15.24	-8.10	-11.67	221.01	76.96	649.93	96.26	383.26	372.58	352.70	55.38	443.12	95.96	291.16	372.98
26811	-16.37	-8.10	-11.67	199.38	74.88	660.96	92.45	371.21	364.94	308.25	54.56	430.87	93.22	280.19	365.34
26812	-17.50	-8.10	-11.67	166.09	74.21	664.93	88.73	345.21	355.87	251.88	58.57	413.46	90.85	258.70	356.01
26813	-0.56	-8.70	-11.67	100.23	56.35	401.38	34.76	379.33	321.73	554.57	135.53	420.85	44.99	241.32	322.62
26814	-1.67	-8.70	-11.67	108.35	55.88	405.64	36.94	379.66	322.88	540.38	128.27	423.01	37.18	249.90	323.47
26815	-2.78	-8.70	-11.67	121.95	55.63	414.23	42.26	380.61	324.73	528.13	120.46	425.58	36.17	258.91	325.08
26816	-3.89	-8.70	-11.67	138.98	55.69	426.91	49.66	382.24	327.27	517.53	112.21	428.55	41.45	268.13	327.42
26817	-5.00	-8.70	-11.67	157.67	56.19	443.41	58.19	384.57	330.48	508.13	103.63	431.97	50.31	277.38	330.49
26818	-6.11	-8.70	-11.67	176.62	57.25	463.46	67.26	387.55	334.40	499.37	94.88	435.90	60.58	286.42	334.29
26819	-7.22	-8.70	-11.67	194.58	59.03	486.79	76.44	391.00	339.09	490.43	86.18	440.46	71.11	294.90	338.90
26820	-8.34	-8.70	-11.67	210.24	61.66	513.09	85.40	394.47	344.72	480.26	77.89	445.75	81.23	302.22	344.45
26821	-9.45	-8.70	-11.67	222.28	65.20	541.74	93.62	397.08	351.41	467.57	70.60	451.76	90.30	307.40	351.10
26822	-10.56	-8.70	-11.67	229.70	69.37	571.32	100.19	397.56	358.95	451.29	65.04	457.97	97.36	309.13	358.63
26823	-11.67	-8.70	-11.67	232.55	73.21	599.04	103.86	394.90	366.21	431.2					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
26853	-9.45	-8.70	-13.00	308.53	95.57	546.85	120.17	411.74	349.26	590.83	83.47	459.62	119.08	354.08	348.89
26854	-10.56	-8.70	-13.00	326.90	108.97	578.17	131.70	419.09	363.04	580.71	86.45	468.25	131.34	361.88	362.60
26855	-11.67	-8.70	-13.00	337.79	124.72	610.06	138.65	423.47	379.98	563.77	97.01	477.75	138.47	365.77	379.56
26856	-12.78	-8.70	-13.00	340.83	137.93	637.65	136.66	424.09	395.75	539.47	109.26	484.69	136.37	365.26	395.49
26857	-13.89	-8.70	-13.00	339.28	141.65	656.53	125.83	423.73	402.49	510.50	112.81	484.59	125.52	363.71	402.51
26858	-15.00	-8.70	-13.00	335.67	137.72	669.36	115.30	426.90	396.20	479.17	106.89	476.43	115.31	366.26	396.45
26859	-16.11	-8.70	-13.00	326.60	132.81	685.39	112.96	429.64	384.10	443.18	99.20	465.54	113.52	370.06	384.36
26860	-17.23	-8.70	-13.00	307.57	130.04	705.60	115.45	420.21	373.30	398.14	96.38	455.04	116.99	364.10	373.36
26861	-0.56	-8.10	-14.33	145.21	87.80	442.31	13.97	444.30	374.97	754.45	179.81	456.61	83.74	411.06	375.02
26862	-1.69	-8.10	-14.33	158.33	87.33	445.79	23.19	444.90	376.04	735.54	167.98	457.74	74.58	414.14	376.06
26863	-2.82	-8.10	-14.33	181.24	88.06	452.67	38.78	446.06	377.91	721.33	155.75	459.07	73.57	417.66	377.91
26864	-3.95	-8.10	-14.33	210.68	90.75	462.78	55.84	447.81	380.49	711.63	143.67	460.59	79.93	421.57	380.47
26865	-5.08	-8.10	-14.33	244.32	96.30	475.94	73.71	450.18	383.80	706.17	132.67	462.31	91.62	425.86	383.77
26866	-6.21	-8.10	-14.33	280.67	105.75	491.97	92.39	453.24	387.96	704.54	124.38	464.27	106.79	430.52	387.92
26867	-7.34	-8.10	-14.33	318.72	120.21	510.70	112.08	457.07	393.19	706.06	121.46	466.55	124.35	435.61	393.14
26868	-8.47	-8.10	-14.33	357.36	141.03	532.01	133.11	461.75	399.88	709.59	127.43	469.28	143.84	441.14	399.82
26869	-9.60	-8.10	-14.33	394.65	170.23	555.82	155.61	467.13	408.86	712.90	146.29	472.68	164.91	446.92	408.78
26870	-10.73	-8.10	-14.33	427.11	209.69	581.84	177.43	472.42	421.22	712.11	180.92	476.84	185.07	452.19	421.12
26871	-11.85	-8.10	-14.33	451.07	256.32	609.06	192.41	476.53	436.46	703.13	227.33	481.30	198.09	455.85	436.36
26872	-12.98	-8.10	-14.33	465.30	297.57	635.68	193.59	478.96	450.90	684.16	270.78	484.78	197.05	457.57	450.84
26873	-14.11	-8.10	-14.33	474.44	312.01	660.19	180.31	481.19	457.02	659.32	286.89	485.55	181.24	459.02	457.03
26874	-15.24	-8.10	-14.33	489.89	291.60	684.03	167.53	485.83	449.39	640.18	263.75	483.63	165.77	463.18	449.44
26875	-16.37	-8.10	-14.33	522.92	263.04	711.05	170.43	493.23	436.14	639.21	227.68	481.67	166.85	470.89	436.19
26876	-17.50	-8.10	-14.33	581.76	254.34	743.67	193.31	508.88	440.87	665.96	212.78	482.29	189.60	488.07	440.89
26877	-0.56	-8.70	-14.33	134.16	182.72	436.20	143.51	418.25	359.71	738.49	239.74	450.68	41.07	385.61	359.77
26878	-1.67	-8.70	-14.33	149.36	178.74	439.72	143.04	419.61	361.07	723.27	228.60	451.92	56.14	389.34	361.10
26879	-2.78	-8.70	-14.33	174.80	172.10	446.64	143.13	422.05	363.53	712.28	214.60	453.39	71.58	394.01	363.54
26880	-3.89	-8.70	-14.33	206.72	163.27	456.79	143.86	425.56	366.89	705.51	197.99	455.07	86.35	399.58	366.88
26881	-5.00	-8.70	-14.33	242.73	152.59	470.00	145.35	430.20	371.20	702.86	178.71	457.00	100.37	406.03	371.18
26882	-6.11	-8.70	-14.33	281.53	140.56	486.09	147.79	436.10	376.62	704.07	156.71	459.23	113.89	413.46	376.58
26883	-7.22	-8.70	-14.33	322.37	128.27	504.94	151.48	443.51	383.40	708.78	132.06	461.85	127.27	422.06	383.35
26884	-8.34	-8.70	-14.33	364.57	118.16	526.46	156.98	452.74	392.03	716.21	105.64	465.04	141.11	432.09	391.96
26885	-9.45	-8.70	-14.33	406.66	115.72	550.73	165.39	464.06	403.48	724.62	82.08	469.12	156.46	443.81	403.39
26886	-10.56	-8.70	-14.33	444.63	130.62	577.81	177.58	477.00	420.22	729.64	80.74	474.55	173.84	456.76	420.10
26887	-11.67	-8.70	-14.33	470.71	169.49	606.53	187.70	489.39	442.84	723.04	122.15	480.95	186.96	468.75	442.71
26888	-12.78	-8.70	-14.33	479.56	219.96	634.40	185.67	498.95	467.28	699.24	181.33	486.67	186.03	477.65	467.17
26889	-13.89	-8.70	-14.33	470.59	248.81	657.87	162.41	504.87	482.40	656.97	216.56	488.48	162.65	482.91	482.39
26890	-15.00	-8.70	-14.33	456.75	224.52	677.02	132.30	507.07	472.23	608.75	188.41	484.31	132.09	484.62	472.30
26891	-16.11	-8.70	-14.33	474.09	192.52	700.15	135.41	505.73	447.62	592.90	142.19	479.33	136.17	483.61	447.68
26892	-17.23	-8.70	-14.33	526.77	191.20	729.93	169.00	508.96	440.17	614.35	132.37	476.91	171.98	488.26	440.19
26893	-22.14	-8.10	-11.67	17.16	88.79	315.50	40.71	111.73	293.74	19.99	101.89	51.78	45.20	110.94	290.83
26894	-21.91	-8.70	-11.67	20.32	93.03	320.19	44.49	119.97	285.40	24.02	106.77	50.97	50.13	118.92	282.83
26895	-21.23	-8.10	-11.67	26.84	87.67	431.41	51.62	131.67	310.41	29.98	97.14	360.77	58.46	114.33	307.06
26896	-20.99	-8.70	-11.67	30.06	87.35	436.43	55.28	140.51	303.94	34.87	96.12	354.43	63.38	121.82	300.47
26897	-20.33	-8.10	-11.67	42.29	81.63	553.77	66.48	188.16	327.33	68.54	86.09	332.59	72.97	141.28	325.10
26898	-20.07	-8.70	-11.67	46.09	80.80	553.00	69.66	195.24	320.70	73.50	84.58	334.73	77.49	147.67	318.23
26899	-19.42	-8.10	-11.67	82.47	78.01	623.61	76.88	253.73	338.49	128.79	76.09	361.72	82.03	187.53	337.32
26900	-19.16	-8.70	-11.67	83.83	76.40	618.21	79.08	257.75	332.24	131.68	73.75	365.37	85.46	191.26	330.90
26901	-18.52	-8.10	-11.67	125.72	75.62	655.39	83.98	306.03	347.22	190.66	66.84	390.81	87.62	227.70	346.81
26902	-18.24	-8.70	-11.67	124.63	73.89	647.64	85.20	307.72	341.67	191.39	64.37	394.62	89.79	229.37	341.19
26903	-22.14	-8.10	-13.00	33.46	163.29	359.05	64.08	131.48	331.40	29.86	170.94	524.15	70.32	130.70	326.75
26904	-21.91	-8.70	-13.00	28.02	146.21	367.30	53.83	144.78	322.00	25.52	156.27	500.12	59.08	143.70	318.77
26905	-21.23	-8.10	-13.00	83.34	145.35	594.18	96.15	208.56	363.70	99.26	144.54	363.33	101.23	189.52	361.53
26906	-20.99	-8.70	-13.00	88.56	133.82	593.13	96.50	215.76	356.66	105.96	132.37	356.86	102.06	195.88	354.41
26907	-20.33	-8.10	-13.00	181.29	141.83	697.89	109.93	306.85	367.64	211.87	130.71	397.70	114.09	275.13	366.55
26908	-20.07	-8.70	-13.00	178.77	131.72	688.14	108.70	307.26	360.04	211.17	119.76	392.81	113.63	274.87	358.72
26909	-19.42	-8.10	-13.00	253.20	136.67	730.27	118.94	364.67	369.44	300.31	115.96	428.89	122.14	322.61	368.85
26910	-19.16	-8.70	-13.00	243.15	131.35	716.84	115.97	362.88	363.04	292.43	109.81	423.30	119.79	320.43	362.29
26911	-18.52	-8.10	-13.00	294.70	131.22	734.16	121.33	399.11	371.43	360.38	102.35	447.70	123.61	348.90	371.19
26912	-18.24	-8.70	-13.00	280.57	130.40	718.95	117.26	397.75	366.31	348.72	101.43	442.26	120.00	347.44	366.00
26913	-22.14	-8.10	-14.33	409.95	329.65	601.64	212.52	372.47	583.38	412.94	324.07	403.20	212.28	370.66	581.79
26914	-21.91	-8.70	-14.33	415.04	345.06	602.83	275.38	351.24	552.94	419.40	340.60	385.49	277.46	348.53	552.21
26915	-21.23	-8.10	-14.33	531.09	275.22	779.17	193.58	505.92	490.77	541.28	253.21	442.86	191.90	500.69	490.79
26916	-20.99	-8.70	-14.33	513.10	279.05	769.08	213.86	482.41	468.21	525.25	259.42	434.66	219.05	476.63	468.09
26917	-20.33	-8.10	-14.33	576.83	252.38	795.42	186.10	538.49	482.10	598.18	217.89	465.70	183.84	528.57	482.07
26918	-20.07	-8.70	-14.33	542.64	262.52	782.42	204.09	513.93	464.48	566.54	230.72	456.96	210.97	503.65	464.39
26919	-19.42	-8.10	-14.33	594.45	245.35	784.96	190.64	541.97	479.31	631.69	202.85	474.54	187.77	527.52	479.25
26920	-19.16	-8.70	-14.33	552.00	237.22	770.92	197.95	522.91	464.51	592.39	193.86	466.05	204.76	508.26	464.43
26921	-18.52	-8.10	-14.33	611.75	250.09	769.86	203.6								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
26951	10.86	-10.68	-11.67	229.24	64.49	608.38	92.27	378.41	350.40	692.64	123.28	457.03	273.79	292.55	351.92
26952	0.60	-13.49	-11.67	89.46	53.95	534.55	20.23	310.33	314.68	436.18	109.34	548.06	86.79	186.17	315.34
26953	1.81	-13.45	-11.67	97.43	53.86	537.08	27.23	311.92	315.56	441.74	110.81	545.15	103.63	182.70	316.41
26954	3.02	-13.37	-11.67	112.03	53.77	541.80	36.35	315.07	317.41	449.46	111.29	540.79	121.83	181.69	318.47
26955	4.21	-13.26	-11.67	130.42	53.73	548.66	46.00	319.71	320.16	459.66	110.78	534.94	141.10	183.65	321.43
26956	5.40	-13.10	-11.67	150.38	53.79	557.59	55.58	325.72	323.78	472.64	109.34	527.61	161.32	189.15	325.21
26957	6.58	-12.91	-11.67	170.28	54.05	568.55	64.75	332.99	328.20	488.86	107.05	518.85	182.43	198.92	329.69
26958	7.74	-12.69	-11.67	188.67	54.59	581.48	73.22	341.28	333.33	509.13	104.10	508.81	204.45	213.72	334.74
26959	8.88	-12.43	-11.67	203.85	55.54	596.39	80.60	349.82	339.07	534.94	100.74	497.81	227.49	233.92	340.21
26960	10.01	-12.13	-11.67	213.72	57.07	612.69	86.12	356.39	344.97	568.56	97.29	486.72	251.59	258.62	345.70
26961	11.11	-11.80	-11.67	217.91	59.48	628.13	89.27	358.41	350.06	610.53	94.49	476.80	276.66	286.96	350.32
26962	0.63	-15.29	-11.67	84.08	65.74	594.22	8.57	297.19	302.88	381.77	102.90	606.23	99.13	180.01	303.15
26963	1.88	-15.23	-11.67	91.88	64.85	595.75	19.18	298.52	303.94	383.98	102.56	602.66	115.10	177.41	304.28
26964	3.12	-15.12	-11.67	105.79	63.39	598.60	29.58	301.18	306.03	388.21	100.92	596.97	131.95	177.05	306.46
26965	4.36	-14.96	-11.67	123.03	61.43	602.69	39.64	305.08	309.12	394.87	97.98	589.10	149.53	179.41	309.62
26966	5.58	-14.75	-11.67	141.48	59.13	607.93	49.38	310.06	313.19	404.37	93.90	578.97	167.79	184.98	313.71
26967	6.78	-14.48	-11.67	159.59	56.75	614.18	58.74	316.00	318.28	417.29	88.92	566.56	186.72	194.42	318.75
26968	7.97	-14.16	-11.67	176.01	54.68	621.31	67.56	322.66	324.43	434.53	83.40	551.85	206.43	208.40	324.71
26969	9.13	-13.80	-11.67	189.34	53.38	629.15	75.42	329.40	331.62	457.59	77.78	534.91	227.20	227.29	331.62
26970	10.27	-13.38	-11.67	197.91	53.32	637.10	81.32	334.38	339.33	488.63	72.61	516.24	249.46	250.42	339.08
26971	11.37	-12.92	-11.67	201.65	54.87	643.44	84.46	335.61	345.98	528.30	68.45	497.33	273.35	277.27	345.71
26972	0.65	-17.08	-11.67	75.42	72.37	647.46	15.65	291.58	285.63	327.13	95.09	658.01	104.41	179.84	285.66
26973	1.94	-17.01	-11.67	82.56	71.05	648.05	21.27	292.33	286.86	327.33	93.25	653.85	118.89	178.02	286.88
26974	3.22	-16.87	-11.67	95.05	68.71	649.12	28.22	293.90	289.14	329.33	89.81	646.96	133.82	178.03	289.14
26975	4.50	-16.66	-11.67	110.40	65.34	650.54	35.69	296.22	292.39	333.65	84.81	637.23	149.25	180.30	292.35
26976	5.75	-16.39	-11.67	126.64	61.09	652.14	43.49	299.16	296.67	340.77	78.44	624.58	165.26	185.30	296.54
26977	6.99	-16.04	-11.67	142.36	56.36	653.78	51.53	302.57	302.15	351.31	71.11	608.96	181.96	193.55	301.88
26978	8.20	-15.64	-11.67	156.49	51.81	655.27	59.61	306.24	309.02	366.09	63.40	590.32	199.57	205.58	308.57
26979	9.38	-15.17	-11.67	168.06	48.36	656.34	67.22	309.75	317.45	386.33	56.10	568.60	218.48	221.80	316.85
26980	10.52	-14.63	-11.67	176.15	47.06	656.41	73.32	312.07	327.08	413.73	50.36	544.04	239.27	242.07	326.56
26981	11.63	-14.04	-11.67	180.78	48.43	654.51	76.90	312.16	336.36	449.43	47.35	517.89	262.16	266.60	336.39
26982	0.67	-18.88	-11.67	62.65	61.28	681.29	22.48	291.15	246.05	273.40	74.96	690.55	97.34	182.80	246.06
26983	2.00	-18.79	-11.67	68.45	60.03	681.30	24.72	290.94	247.93	273.48	72.37	686.34	110.03	181.75	247.89
26984	3.33	-18.62	-11.67	78.67	57.82	681.11	27.93	290.77	251.33	275.01	68.27	679.03	123.02	182.01	251.17
26985	4.64	-18.37	-11.67	91.29	54.53	680.46	32.10	290.78	256.01	278.54	62.77	668.40	136.58	184.09	255.67
26986	5.93	-18.03	-11.67	104.67	50.28	679.27	37.23	290.90	262.05	284.56	56.18	654.44	150.87	188.36	261.50
26987	7.20	-17.61	-11.67	117.74	45.46	677.47	43.21	291.02	269.64	293.56	49.00	637.15	166.02	195.17	268.88
26988	8.43	-17.11	-11.67	129.78	40.83	674.93	49.81	291.05	278.97	306.15	42.07	616.53	182.28	204.97	278.09
26989	9.63	-16.54	-11.67	140.25	37.61	671.41	56.51	290.90	290.16	323.25	36.82	592.56	200.10	218.22	289.40
26990	10.78	-15.88	-11.67	148.75	37.22	666.49	62.42	290.26	303.03	346.18	35.23	565.33	220.04	235.32	302.83
26991	11.89	-15.16	-11.67	155.21	40.03	659.65	66.63	289.06	316.30	376.75	38.04	535.68	242.60	256.93	317.38
26992	16.80	-9.56	-11.67	209.05	80.65	658.15	89.25	338.35	338.28	1070.38	90.76	432.43	426.66	632.33	382.80
26993	16.19	-10.65	-11.67	183.91	76.64	642.46	87.23	325.33	338.32	843.27	65.26	436.69	407.26	532.58	373.79
26994	15.51	-11.70	-11.67	169.57	68.99	635.14	82.44	309.19	337.02	670.11	53.78	448.31	367.12	447.44	359.44
26995	15.78	-9.48	-11.67	223.82	80.38	656.47	88.34	358.85	347.04	1005.27	115.46	444.42	391.08	556.22	364.19
26996	15.36	-10.44	-11.67	205.21	76.64	645.64	87.73	344.08	345.94	847.73	87.51	446.55	384.05	491.25	360.94
26997	14.89	-11.36	-11.67	191.14	70.36	640.55	85.00	327.07	344.87	710.04	65.19	453.42	362.16	429.79	356.09
26998	14.77	-9.41	-11.67	234.69	79.99	651.04	89.70	369.60	354.00	954.07	132.61	450.69	361.09	483.16	358.88
26999	14.53	-10.23	-11.67	220.36	76.32	645.99	89.16	356.19	351.61	845.51	106.64	452.50	360.80	446.92	356.44
27000	14.27	-11.03	-11.67	205.58	71.07	643.32	86.56	342.94	351.20	742.66	83.02	456.79	352.90	408.18	355.62
27001	12.91	-14.38	-11.67	159.61	45.06	651.22	69.00	287.90	327.33	416.41	43.73	506.66	266.81	285.17	330.15
27002	12.60	-13.43	-11.67	182.90	51.88	650.58	78.06	311.16	342.64	491.73	47.26	494.59	285.26	294.97	343.60
27003	12.30	-12.48	-11.67	202.06	57.53	646.18	85.08	333.81	349.79	570.30	66.33	482.17	294.73	304.72	349.84
27004	13.85	-13.56	-11.67	162.53	51.26	642.42	71.72	289.69	333.56	471.29	48.45	481.89	294.78	323.12	339.72
27005	13.44	-12.81	-11.67	184.14	56.62	645.40	78.99	311.76	344.75	543.72	49.97	476.77	308.75	328.57	347.57
27006	13.05	-12.07	-11.67	201.49	61.08	645.38	84.96	332.34	350.54	614.36	67.68	471.73	313.61	332.46	347.54
27007	14.73	-12.67	-11.67	164.44	59.44	635.90	76.51	296.83	335.36	549.52	51.28	462.95	327.83	375.52	341.39
27008	14.25	-12.15	-11.67	185.26	62.87	641.15	81.46	316.11	344.08	609.07	54.11	463.46	335.37	373.13	350.45
27009	13.77	-11.64	-11.67	201.79	64.80	643.65	86.44	333.98	350.70	664.24	72.42	463.18	333.80	370.01	353.50
27010	11.67	-9.50	-13.00	351.27	116.84	623.08	136.26	422.62	383.47	904.10	206.84	454.88	367.87	382.88	384.87
27011	12.71	-9.45	-13.00	350.97	129.85	648.34	132.82	423.28	398.48	940.97	212.25	464.24	397.35	419.37	398.84
27012	13.75	-9.40	-13.00	344.91	137.44	661.99	121.57	421.18	405.14	973.95	213.56	469.14	422.75	463.73	405.18
27013	11.86	-10.51	-13.00	352.14	102.35	648.70	135.44	409.80	388.48	804.95	168.43	472.10	372.12	378.30	389.15
27014	12.77	-10.36	-13.00	344.27	111.77	665.22	131.02	410.09	401.03	845.43	172.10	476.94	395.64	408.76	401.11
27015	13.67	-10.20	-13.00	334.66	119.98	669.33	121.15	408.11	406.35	881.70	174.73	479.43	418.76	444.08	406.49
27016	12.05	-11.51	-13.00	343.33	95.19	667.26	132.78	389.66	382.63	709.86	134.04	487.97	373.93	365.44	382.71
27017	12.82	-11.26	-13.00	334.47	102.92	674.78	129.00	389.89	392.58	750.98	139.37	485.21	394.67	389.58	392.58
27018	13.59	-10.99	-13.00	314.27	106.80	670.42	117.43	385.52	393.67	802.26	138.18	483.12	407.18	416.30	393.99
27019	0.56	-9.99	-13.00	117.25	70.53	433.81	65.23	344.49	320.86	632.28</					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				σ <sub>xx</sub> [kPa]	σ <sub>yy</sub> [kPa]	σ <sub>zz</sub> [kPa]	τ <sub>xy</sub> [kPa]	τ <sub>yz</sub> [kPa]	τ <sub>xz</sub> [kPa]	σ <sub>xx</sub> [kPa]	σ <sub>yy</sub> [kPa]	σ <sub>zz</sub> [kPa]	τ <sub>xy</sub> [kPa]	τ <sub>yz</sub> [kPa]	τ <sub>xz</sub> [kPa]
27049	0.63	-15.29	-13.00	120.47	123.84	607.96	14.15	265.48	280.38	460.71	154.82	618.14	127.31	187.73	280.51
27050	1.88	-15.23	-13.00	132.18	122.55	609.47	27.98	267.56	282.28	460.66	155.40	615.25	147.11	186.71	282.49
27051	3.12	-15.12	-13.00	152.37	120.31	612.39	42.26	271.66	285.51	463.41	154.19	610.59	168.53	188.26	285.79
27052	4.36	-14.96	-13.00	177.85	117.11	616.73	56.48	277.50	290.12	468.65	151.17	604.07	191.32	192.53	290.49
27053	5.58	-14.75	-13.00	206.22	112.98	622.43	70.47	285.20	296.36	476.36	146.36	595.66	215.26	200.12	296.79
27054	6.78	-14.48	-13.00	235.68	108.15	629.39	84.23	295.01	304.44	486.67	139.95	585.27	240.11	211.88	304.88
27055	7.97	-14.16	-13.00	264.81	103.03	637.59	97.76	307.24	314.68	499.86	132.31	572.76	265.63	228.82	315.04
27056	9.13	-13.80	-13.00	292.14	98.19	647.06	111.00	322.38	327.60	516.68	123.94	557.79	291.59	252.30	327.77
27057	10.27	-13.38	-13.00	315.19	94.18	658.21	123.52	340.49	344.81	539.59	115.39	539.66	318.38	283.32	344.73
27058	11.37	-12.92	-13.00	326.65	92.82	669.35	130.45	356.48	365.55	576.27	108.03	518.87	346.03	317.87	365.38
27059	0.65	-17.08	-13.00	119.15	167.96	666.95	36.72	265.14	278.85	402.90	183.17	676.03	143.46	190.73	278.87
27060	1.94	-17.01	-13.00	130.04	165.92	667.68	42.29	266.80	280.73	399.30	181.79	672.45	161.59	190.24	280.77
27061	3.22	-16.87	-13.00	148.68	162.18	669.23	50.17	270.07	283.82	398.12	178.06	666.61	180.81	191.97	283.90
27062	4.50	-16.66	-13.00	172.15	156.37	671.49	59.37	274.75	288.11	399.42	171.65	658.35	201.08	196.11	288.21
27063	5.75	-16.39	-13.00	197.98	148.37	674.32	69.39	280.86	293.80	403.47	162.43	647.58	222.30	203.11	293.92
27064	6.99	-16.04	-13.00	224.28	138.36	677.61	80.03	288.47	301.20	410.66	150.55	634.23	244.34	213.54	301.29
27065	8.20	-15.64	-13.00	249.55	126.82	681.16	91.18	297.64	310.78	421.57	136.30	618.11	267.04	228.07	310.78
27066	9.38	-15.17	-13.00	272.36	114.48	684.71	102.67	308.44	323.26	437.25	120.14	598.84	290.29	247.47	323.12
27067	10.52	-14.63	-13.00	291.00	102.46	687.84	113.76	320.69	340.18	459.88	102.74	575.54	314.39	272.29	339.93
27068	11.63	-14.04	-13.00	301.74	94.08	688.29	120.34	331.62	361.50	494.16	87.22	547.67	339.37	300.73	361.43
27069	0.67	-18.88	-13.00	110.69	184.11	722.88	56.72	280.45	266.22	345.54	191.38	730.93	147.25	208.08	266.22
27070	2.00	-18.79	-13.00	120.16	182.58	723.04	58.22	280.96	268.58	340.28	189.79	726.91	163.10	207.68	268.57
27071	3.33	-18.62	-13.00	136.61	179.00	723.29	60.39	282.22	272.23	337.00	185.62	720.04	179.57	208.77	272.19
27072	4.64	-18.37	-13.00	157.39	172.45	723.32	63.49	284.27	276.78	336.26	178.07	710.04	196.95	211.70	276.69
27073	5.93	-18.03	-13.00	179.97	162.82	723.04	67.78	287.04	282.48	338.50	167.07	696.86	215.28	216.76	282.32
27074	7.20	-17.61	-13.00	202.63	150.45	722.37	73.45	290.50	289.76	344.06	152.84	680.50	234.53	224.27	289.52
27075	8.43	-17.11	-13.00	224.14	135.84	721.14	80.58	294.63	299.12	353.51	135.59	660.90	254.75	234.70	298.80
27076	9.63	-16.54	-13.00	243.49	119.73	719.02	88.88	299.49	311.21	367.81	115.53	637.83	276.13	248.57	310.86
27077	10.78	-15.88	-13.00	259.71	103.45	715.40	97.35	305.02	327.15	388.54	93.13	610.74	298.97	266.41	326.91
27078	11.89	-15.16	-13.00	271.63	90.56	708.59	103.08	310.64	347.25	418.33	71.54	579.13	323.35	288.19	347.45
27079	16.80	-9.56	-13.00	300.48	136.40	693.35	108.87	414.75	378.57	967.64	168.10	444.27	487.10	680.83	404.32
27080	16.19	-10.65	-13.00	273.03	128.91	676.59	107.00	395.69	383.24	824.02	123.79	464.40	469.68	575.63	401.39
27081	15.51	-11.70	-13.00	262.57	118.13	668.14	102.86	372.89	379.98	695.18	88.81	482.83	435.92	488.68	388.59
27082	15.78	-9.48	-13.00	322.47	136.96	677.09	107.24	425.01	389.11	985.96	191.58	455.81	471.43	604.49	398.73
27083	15.36	-10.44	-13.00	302.42	127.66	666.27	108.56	407.75	394.29	863.61	151.06	470.81	458.52	538.15	401.82
27084	14.89	-11.36	-13.00	293.36	117.86	660.56	108.15	383.77	389.27	744.81	114.59	481.38	437.45	472.51	393.64
27085	14.77	-9.41	-13.00	337.50	138.53	667.68	111.13	422.59	399.71	988.21	206.43	465.50	448.08	528.97	402.28
27086	14.53	-10.23	-13.00	324.08	126.09	665.68	114.55	402.67	402.67	887.26	169.53	476.86	440.52	491.88	404.90
27087	14.27	-11.03	-13.00	326.01	116.03	665.11	120.59	385.21	391.73	773.97	135.78	481.98	429.41	444.49	393.42
27088	12.91	-14.38	-13.00	278.47	86.06	697.24	103.44	316.96	368.14	457.56	57.62	545.37	347.35	316.41	368.88
27089	12.60	-13.43	-13.00	304.80	92.48	683.35	119.62	339.55	381.11	537.10	78.67	519.65	363.08	330.65	381.36
27090	12.30	-12.48	-13.00	326.37	95.01	675.10	129.07	364.04	382.05	619.71	104.90	500.75	370.14	347.53	382.01
27091	13.85	-13.56	-13.00	278.35	89.72	682.55	99.97	328.86	383.01	512.50	56.20	515.07	372.35	356.24	384.66
27092	13.44	-12.81	-13.00	302.96	96.53	673.54	113.75	349.01	392.43	589.87	80.54	497.56	386.03	365.81	393.27
27093	13.05	-12.07	-13.00	322.93	99.44	673.50	122.96	368.09	390.99	664.50	107.39	488.32	391.80	374.35	391.25
27094	14.73	-12.67	-13.00	269.31	101.57	669.95	98.62	348.43	384.44	589.34	65.71	495.09	401.22	412.22	387.74
27095	14.25	-12.15	-13.00	293.43	107.50	662.93	108.34	362.38	391.87	655.77	91.69	485.83	412.74	411.23	393.69
27096	13.77	-11.64	-13.00	312.95	113.64	667.71	113.69	370.04	389.86	717.24	123.75	484.42	418.83	404.71	390.76
27097	11.67	-9.50	-14.33	522.33	151.19	620.15	205.18	447.58	428.56	977.82	262.80	469.70	440.81	432.26	428.99
27098	12.71	-9.45	-14.33	521.75	192.32	646.06	198.84	473.13	468.13	1019.11	290.42	475.38	498.06	472.19	468.30
27099	13.75	-9.40	-14.33	489.96	227.51	665.50	167.77	488.77	496.24	1071.91	313.63	479.27	537.19	506.44	496.22
27100	11.86	-10.51	-14.33	588.76	152.30	650.73	221.77	433.22	423.77	804.88	231.25	494.39	491.15	421.62	424.01
27101	12.77	-10.36	-14.33	574.05	195.44	670.74	214.44	476.16	480.44	854.79	262.42	497.62	541.36	476.38	480.50
27102	13.67	-10.20	-14.33	503.98	234.30	681.26	178.33	498.11	521.55	946.47	291.01	499.53	571.56	513.02	521.54
27103	12.05	-11.51	-14.33	620.78	143.66	673.99	237.15	440.58	426.30	658.18	191.60	514.21	490.37	432.29	426.32
27104	12.82	-11.26	-14.33	599.62	159.34	685.24	219.51	495.53	488.85	712.65	203.21	511.41	522.81	495.96	488.84
27105	13.59	-10.99	-14.33	549.20	203.93	695.40	195.45	533.36	543.45	792.17	238.72	512.90	567.78	547.26	543.47
27106	0.56	-9.90	-14.33	132.95	166.80	461.81	131.89	304.49	304.22	718.78	229.41	474.60	16.94	270.77	304.32
27107	1.69	-9.89	-14.33	147.77	166.26	464.94	133.88	306.54	305.99	738.07	235.17	473.66	37.47	270.73	306.14
27108	2.81	-9.87	-14.33	174.37	165.20	470.98	137.53	310.33	308.81	761.34	239.87	472.57	64.51	272.60	309.01
27109	3.93	-9.85	-14.33	208.74	163.28	479.91	142.64	316.03	313.08	787.99	243.34	471.34	94.90	276.73	313.33
27110	5.05	-9.82	-14.33	248.31	160.30	491.62	148.94	323.89	318.97	817.19	245.54	470.03	128.62	283.57	319.28
27111	6.17	-9.78	-14.33	291.71	156.16	506.00	156.18	334.26	326.72	847.75	246.50	468.66	166.05	293.73	327.10
27112	7.28	-9.74	-14.33	338.32	150.83	523.00	164.14	347.68	336.67	878.09	246.38	467.30	207.88	308.08	337.12
27113	8.39	-9.69	-14.33	387.93	144.52	542.68	172.79	365.02	349.40	906.16	245.64	466.08	255.15	327.90	349.91
27114	9.50	-9.63	-14.33	439.97	138.18	565.46	182.65	387.62	366.10	929.94	245.39	465.34	309.67	355.02	366.69
27115	10.60	-9.56	-14.33	490.92	135.71	591.95	196.42	416.67	392.03	949.54	248.67	466.02	374.10	391.15	392.69
27116	0.58	-11.69	-14.33	143.87	74.70	517.00	54.57	231.95	248.26	658.69	163.71	528.36	85.65	200.23	248.37

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
27147	1.94	-17.01	-14.33	188.16	282.73	673.53	65.93	212.94	228.58	474.02	297.67	678.50	202.63	184.63	228.59
27148	3.22	-16.87	-14.33	213.34	278.11	675.17	77.59	217.13	232.15	470.20	293.73	673.64	227.35	188.00	232.17
27149	4.50	-16.66	-14.33	246.26	270.77	677.67	91.48	223.22	237.51	468.78	286.24	666.78	254.33	193.60	237.55
27150	5.75	-16.39	-14.33	284.06	260.22	680.93	106.54	231.55	244.90	469.85	274.66	657.90	283.25	201.96	244.96
27151	6.99	-16.04	-14.33	324.63	246.38	684.88	122.35	242.45	254.75	473.27	258.78	646.98	313.74	213.62	254.82
27152	8.20	-15.64	-14.33	366.44	229.32	689.42	138.78	256.43	267.71	478.86	238.46	633.99	345.32	229.31	267.78
27153	9.38	-15.17	-14.33	408.27	209.13	694.42	156.08	274.26	284.90	486.54	213.45	618.75	377.20	250.13	284.93
27154	10.52	-14.63	-14.33	449.05	185.76	699.58	175.21	297.50	308.30	496.43	183.07	600.60	408.05	277.99	308.28
27155	11.63	-14.04	-14.33	489.32	157.64	703.82	198.39	330.63	349.57	509.23	144.39	578.02	436.43	318.05	349.54
27156	0.67	-18.88	-14.33	185.69	396.34	733.36	116.67	239.57	246.10	427.13	401.48	741.18	221.41	212.93	246.10
27157	2.00	-18.79	-14.33	199.48	394.03	733.53	118.65	241.23	248.50	413.78	399.67	737.67	240.76	214.03	248.50
27158	3.33	-18.62	-14.33	224.07	388.75	733.98	122.10	244.12	251.96	402.75	394.29	731.60	261.87	216.59	251.97
27159	4.64	-18.37	-14.33	256.13	378.10	734.57	126.67	248.51	256.63	394.83	382.99	722.90	284.64	221.01	256.64
27160	5.93	-18.03	-14.33	292.16	361.64	735.20	132.22	254.51	262.77	390.25	365.26	711.51	308.84	227.55	262.78
27161	7.20	-17.61	-14.33	329.59	339.58	735.82	138.74	262.26	270.85	389.13	341.11	697.48	334.15	236.49	270.86
27162	8.43	-17.11	-14.33	366.48	311.95	736.33	146.23	272.01	281.45	391.91	310.25	680.82	360.25	248.25	281.44
27163	9.63	-16.54	-14.33	400.96	278.51	736.56	154.67	284.14	295.43	399.58	271.83	661.47	386.65	263.46	295.41
27164	10.78	-15.88	-14.33	430.70	238.62	736.08	163.81	299.18	314.37	414.23	223.98	639.09	412.49	282.91	314.34
27165	11.89	-15.16	-14.33	453.56	190.26	733.86	171.69	318.64	343.44	440.12	161.82	612.92	435.70	308.31	343.46
27166	16.80	-9.56	-14.33	450.27	186.98	721.14	145.12	450.53	419.09	902.67	268.65	466.04	574.12	571.22	423.56
27167	16.19	-10.65	-14.33	349.85	190.27	714.91	111.62	428.29	410.74	906.06	204.62	496.85	592.84	507.46	413.45
27168	15.51	-11.70	-14.33	302.10	171.47	709.00	103.27	440.25	426.12	853.50	139.16	518.94	534.83	490.19	426.52
27169	15.78	-9.48	-14.33	422.90	179.90	695.09	118.91	471.39	445.31	1059.59	272.79	472.03	572.22	551.35	447.08
27170	15.36	-10.44	-14.33	344.78	187.21	693.33	97.20	469.87	457.03	1027.65	228.69	498.01	591.15	527.08	458.30
27171	14.89	-11.36	-14.33	307.43	169.83	690.91	97.64	490.99	479.57	950.35	171.89	514.17	537.99	529.66	479.85
27172	14.77	-9.41	-14.33	433.30	205.11	676.95	119.78	487.99	484.42	1116.70	292.66	477.79	558.14	535.38	484.93
27173	14.53	-10.23	-14.33	391.46	209.87	681.91	106.82	495.69	509.29	1050.23	261.92	499.10	581.09	533.60	509.69
27174	14.27	-11.03	-14.33	343.84	179.51	681.41	97.21	532.43	538.47	995.08	205.91	513.95	556.56	558.04	538.65
27175	12.91	-14.38	-14.33	453.50	150.96	727.91	165.21	343.52	381.95	492.85	100.00	584.07	449.04	342.19	381.99
27176	12.60	-13.43	-14.33	497.97	147.26	703.39	202.18	373.20	407.16	555.50	122.81	554.01	450.58	369.80	407.15
27177	12.30	-12.48	-14.33	566.27	145.78	686.25	235.04	415.18	424.97	595.26	157.33	529.90	458.58	409.93	424.92
27178	13.85	-13.56	-14.33	421.23	144.56	718.64	144.28	376.16	419.52	581.93	84.76	555.82	456.38	386.21	419.56
27179	13.44	-12.81	-14.33	459.27	159.60	697.71	180.29	420.53	461.72	648.31	136.20	532.59	454.01	427.24	461.79
27180	13.05	-12.07	-14.33	527.97	152.92	687.18	215.74	471.04	487.17	677.20	163.26	517.52	464.56	474.29	487.19
27181	14.73	-12.67	-14.33	358.49	151.82	709.92	123.71	416.66	438.91	709.09	98.99	533.04	471.52	441.84	438.74
27182	14.25	-12.15	-14.33	388.64	158.52	691.91	142.61	467.90	491.47	777.23	139.99	518.48	468.38	487.73	491.41
27183	13.77	-11.64	-14.33	455.62	166.18	682.86	178.29	522.03	536.33	794.10	181.98	505.72	474.04	537.37	536.42
27184	0.70	-20.20	-11.67	54.47	39.80	684.60	21.15	291.01	194.82	235.86	49.47	693.20	81.81	183.78	194.87
27185	2.10	-20.10	-11.67	58.48	38.53	684.59	22.38	289.89	197.77	237.30	46.31	689.42	93.46	183.52	197.72
27186	3.49	-19.90	-11.67	65.92	36.63	683.95	24.46	288.24	203.00	239.67	41.89	682.34	105.68	184.48	202.69
27187	4.86	-19.62	-11.67	75.37	34.17	682.44	27.58	286.39	210.30	243.56	36.82	671.74	118.78	187.23	209.60
27188	6.20	-19.23	-11.67	85.54	31.17	680.16	31.65	284.20	219.61	249.37	31.81	657.73	132.73	191.86	218.51
27189	7.52	-18.76	-11.67	95.71	28.06	677.09	36.54	281.52	230.87	257.38	28.09	640.34	147.53	198.53	229.52
27190	8.80	-18.19	-11.67	105.44	25.80	673.10	42.03	278.36	244.04	268.00	27.55	619.59	163.41	207.61	242.76
27191	10.04	-17.54	-11.67	114.41	25.84	667.98	47.68	274.78	259.05	282.00	31.62	595.51	180.73	219.60	258.39
27192	11.23	-16.80	-11.67	122.38	29.15	661.37	52.77	270.88	275.59	300.61	39.81	568.22	199.97	235.18	276.34
27193	12.37	-15.98	-11.67	129.06	34.76	652.95	56.83	267.11	292.57	325.59	49.93	538.39	221.98	255.64	295.74
27194	13.44	-15.08	-11.67	133.85	40.94	642.98	60.41	264.77	307.23	360.07	60.47	508.14	247.22	284.04	314.14
27195	14.46	-14.11	-11.67	136.28	47.53	633.05	65.30	266.14	316.80	411.68	67.69	480.87	277.45	324.85	330.04
27196	15.40	-13.08	-11.67	137.36	56.85	626.39	72.51	273.39	321.50	493.08	70.09	458.80	317.45	382.62	346.13
27197	16.27	-11.98	-11.67	142.08	68.17	626.06	81.06	285.22	325.23	623.75	67.86	439.75	373.29	461.34	370.84
27198	17.06	-10.82	-11.67	159.30	77.00	633.96	88.71	298.10	328.69	832.29	61.08	422.36	437.02	565.68	402.05
27199	17.76	-9.62	-11.67	196.20	81.43	650.97	93.14	308.60	329.16	1145.06	66.70	412.99	472.65	702.76	421.59
27200	0.74	-21.03	-11.67	54.89	21.46	664.25	16.44	287.89	150.68	214.24	29.96	672.78	66.69	180.23	150.75
27201	2.22	-20.93	-11.67	56.84	19.44	664.12	17.61	286.16	153.82	217.00	25.49	669.31	77.94	180.83	153.64
27202	3.69	-20.72	-11.67	61.21	17.58	662.97	20.17	283.72	160.19	220.26	20.20	662.34	90.14	183.14	159.44
27203	5.14	-20.41	-11.67	67.04	16.19	661.01	23.81	280.92	169.59	224.69	16.02	652.03	103.46	187.52	168.09
27204	6.57	-19.99	-11.67	73.43	15.34	658.41	28.05	277.36	181.51	230.48	16.05	638.48	117.58	193.69	179.37
27205	7.96	-19.48	-11.67	79.95	15.85	655.07	32.68	272.80	195.56	237.55	21.99	621.67	132.39	201.62	193.25
27206	9.32	-18.87	-11.67	86.38	18.60	650.79	37.50	267.23	211.47	246.12	31.95	601.63	148.03	211.54	209.77
27207	10.62	-18.17	-11.67	92.55	23.62	645.33	42.13	260.72	228.95	256.71	44.32	578.44	164.79	223.92	229.00
27208	11.88	-17.37	-11.67	98.30	30.01	638.41	46.15	253.45	247.47	270.29	58.18	552.40	183.05	239.53	250.77
27209	13.07	-16.49	-11.67	103.15	36.28	629.86	49.69	246.10	265.73	288.61	72.64	524.41	203.39	260.12	274.17
27210	14.20	-15.53	-11.67	106.00	41.30	620.21	54.06	240.34	281.44	315.57	86.21	496.45	226.71	289.02	297.78
27211	15.26	-14.48	-11.67	105.93	46.53	611.22	60.69	238.66	292.76	359.15	96.93	471.00	256.43	330.49	322.02
27212	16.24	-13.37	-11.67	104.60	55.54	605.61	69.23	242.11	300.79	432.31	105.14	448.75	300.65	388.05	352.68
27213	17.14	-12.19	-11.67	109.40	67.74	605.24	79.17	249.12	309.39	561.45	111.38	426.86	371.08	467.24	398.37
27214	17.95	-10.95	-11.67	134.11	78.05	611.09	90.68	257.90	317.46	806.08	105.29	404.73	467.30	586.40	454.23
27215	18.68	-9.66	-11.67	19											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
27245	18.89	-12.62	-11.67	50.14	67.68	480.08	62.35	169.89	268.35	320.02	221.10	435.77	288.36	410.48	495.71
27246	19.75	-11.21	-11.67	80.72	89.81	467.75	85.62	169.04	289.54	541.62	322.09	466.62	471.06	519.40	624.24
27247	20.51	-9.75	-11.67	197.08	112.47	443.90	126.50	192.66	301.65	1378.77	345.31	644.79	741.93	977.28	750.18
27248	0.87	-23.55	-11.67	110.69	4.15	466.01	3.95	252.88	11.36	180.84	4.40	479.84	13.46	137.58	8.34
27249	2.60	-23.42	-11.67	103.94	2.74	455.73	11.22	252.43	29.02	185.12	2.93	474.25	27.18	146.87	18.97
27250	4.32	-23.17	-11.67	97.82	6.51	446.75	15.97	249.69	47.05	188.63	8.57	471.00	41.41	158.49	32.07
27251	6.01	-22.78	-11.67	92.80	9.83	442.51	28.65	246.84	66.25	193.86	16.00	472.80	57.20	173.16	49.09
27252	7.67	-22.28	-11.67	85.96	14.22	439.43	31.20	242.71	85.17	196.59	26.24	475.15	73.15	189.26	69.19
27253	9.29	-21.65	-11.67	77.51	19.02	435.93	35.20	237.20	104.00	196.29	38.99	476.97	88.69	206.06	93.12
27254	10.86	-20.91	-11.67	67.72	23.89	431.73	37.37	230.25	122.69	192.72	54.16	478.17	103.17	223.10	121.32
27255	12.37	-20.05	-11.67	57.23	28.21	426.63	37.51	221.64	141.05	185.72	71.23	478.83	115.76	240.12	154.27
27256	13.81	-19.09	-11.67	47.36	31.31	420.63	35.90	211.15	158.71	175.50	89.41	479.27	125.62	257.45	192.69
27257	15.18	-18.02	-11.67	40.06	33.03	414.00	33.96	198.93	175.23	163.22	107.64	480.04	132.31	276.37	238.13
27258	16.47	-16.85	-11.67	36.10	34.74	407.25	33.87	185.91	190.61	151.46	125.44	481.57	136.92	298.84	293.64
27259	17.66	-15.59	-11.67	33.88	39.26	400.66	36.14	173.75	206.14	145.04	145.20	484.50	143.08	325.39	363.45
27260	18.76	-14.25	-11.67	31.77	48.01	393.07	39.33	163.85	224.53	145.41	175.28	489.97	158.70	352.45	449.00
27261	19.76	-12.83	-11.67	32.33	61.22	379.91	43.42	155.96	248.02	173.25	234.30	520.34	189.44	377.20	544.83
27262	20.65	-11.34	-11.67	32.98	89.52	355.22	56.42	147.30	271.09	168.20	384.48	593.68	271.31	360.17	642.43
27263	21.43	-9.79	-11.67	168.96	181.73	299.94	144.80	178.59	302.12	1161.43	840.98	1380.14	826.72	1002.60	901.68
27264	0.70	-20.20	-13.00	96.26	161.73	748.89	55.07	295.99	234.85	303.22	165.92	756.41	129.21	224.30	234.86
27265	2.10	-20.10	-13.00	104.21	161.86	749.29	55.46	295.17	238.91	299.36	165.82	752.74	143.95	223.73	238.88
27266	3.49	-19.90	-13.00	118.58	159.94	749.16	56.15	294.43	244.35	296.99	163.06	745.71	159.70	224.26	244.21
27267	4.86	-19.62	-13.00	136.81	154.72	748.09	57.64	294.00	250.62	296.92	156.72	734.91	176.85	226.37	250.31
27268	6.20	-19.23	-13.00	156.50	146.41	746.24	60.16	293.60	258.23	299.34	147.05	720.53	195.12	230.04	257.72
27269	7.52	-18.76	-13.00	176.34	135.53	743.64	63.93	293.13	267.56	304.26	134.43	702.70	214.35	235.46	266.90
27270	8.80	-18.19	-13.00	195.50	122.50	740.17	69.08	292.73	278.95	312.02	119.02	681.45	234.64	243.09	278.23
27271	10.04	-17.54	-13.00	213.28	107.89	735.53	75.28	292.59	292.81	323.42	100.99	656.73	256.19	253.55	292.24
27272	11.23	-16.80	-13.00	228.94	92.91	729.19	81.34	292.89	309.75	339.78	80.99	628.32	279.12	267.50	309.63
27273	12.37	-15.98	-13.00	241.41	80.72	720.08	85.13	294.30	329.95	362.88	62.45	596.13	303.32	286.23	330.66
27274	13.44	-15.08	-13.00	248.20	76.51	707.63	85.55	298.97	350.45	395.92	53.56	561.69	327.62	313.51	352.30
27275	14.46	-14.11	-13.00	246.13	82.14	693.52	85.96	310.47	364.89	446.41	55.16	529.44	352.91	355.11	368.44
27276	15.40	-13.08	-13.00	235.98	97.58	682.84	91.31	330.38	367.66	523.12	58.37	504.46	385.62	415.69	375.05
27277	16.27	-11.98	-13.00	229.10	117.35	682.31	99.48	351.51	365.69	629.53	66.75	484.17	432.28	494.90	385.00
27278	17.06	-10.82	-13.00	242.06	129.55	690.06	108.04	370.83	372.30	763.03	90.51	457.28	476.59	599.99	412.02
27279	17.76	-9.62	-13.00	273.57	137.07	706.40	111.99	393.31	371.56	932.51	134.26	431.21	498.06	749.18	427.92
27280	0.74	-21.03	-13.00	82.42	138.53	745.53	49.18	302.04	203.42	275.43	141.34	752.95	111.24	230.06	203.43
27281	2.22	-20.93	-13.00	89.83	139.24	746.95	48.87	300.21	209.12	272.77	141.72	750.40	125.41	229.38	209.04
27282	3.69	-20.72	-13.00	103.46	137.55	746.93	49.22	298.59	215.75	271.43	139.07	743.66	141.41	230.38	215.42
27283	5.14	-20.41	-13.00	119.99	132.33	745.60	50.48	297.15	223.27	272.42	132.77	732.75	159.14	233.14	222.59
27284	6.57	-19.99	-13.00	137.28	124.21	743.60	52.42	295.11	232.49	275.21	123.52	718.28	177.73	237.07	231.48
27285	7.96	-19.48	-13.00	154.49	113.85	740.92	55.23	292.38	243.61	279.44	111.95	700.38	196.99	242.37	242.41
27286	9.32	-18.87	-13.00	171.01	101.68	737.40	59.03	289.17	256.72	285.29	98.59	679.12	217.03	249.55	255.61
27287	10.62	-18.17	-13.00	186.22	88.34	732.82	63.40	285.69	271.97	293.35	84.40	654.56	237.93	259.20	271.39
27288	11.88	-17.37	-13.00	199.40	75.45	726.76	67.17	282.24	289.49	304.50	72.01	626.74	259.64	272.08	290.01
27289	13.07	-16.49	-13.00	209.13	66.62	718.70	69.05	279.76	308.52	320.27	67.10	596.13	281.65	289.91	310.81
27290	14.20	-15.53	-13.00	212.45	66.25	708.81	70.35	280.54	326.06	344.34	72.72	564.41	303.31	316.31	330.95
27291	15.26	-14.48	-13.00	206.59	75.40	698.87	75.73	287.69	337.65	384.30	79.98	534.54	327.16	356.19	346.92
27292	16.24	-13.37	-13.00	194.36	93.14	692.42	85.68	301.00	342.13	448.64	79.41	508.24	361.30	412.80	361.57
27293	17.14	-12.19	-13.00	189.11	113.51	692.28	96.21	314.37	347.37	542.65	71.33	482.18	413.17	488.80	390.41
27294	17.95	-10.95	-13.00	205.32	127.55	695.50	108.02	330.91	362.21	679.32	67.28	448.59	468.79	608.43	441.79
27295	18.68	-9.66	-13.00	237.65	136.92	705.33	113.08	358.59	368.20	881.93	92.25	417.42	498.72	806.70	476.34
27296	0.78	-21.87	-13.00	64.56	94.21	723.28	36.48	303.10	162.44	247.24	96.15	730.87	84.64	229.95	162.42
27297	2.35	-21.76	-13.00	71.88	93.12	725.88	35.26	300.28	168.73	246.81	94.55	729.90	88.19	229.43	168.48
27298	3.90	-21.54	-13.00	83.61	91.51	724.71	35.77	298.41	175.76	248.28	91.91	722.84	114.98	232.02	174.94
27299	5.43	-21.20	-13.00	96.58	87.22	723.15	37.02	296.25	184.84	251.65	87.00	712.51	133.28	236.09	183.29
27300	6.94	-20.76	-13.00	109.85	80.85	721.36	38.52	292.58	196.06	255.53	80.70	698.99	151.92	240.66	193.95
27301	8.41	-20.20	-13.00	123.11	73.09	719.03	40.72	287.54	209.25	259.26	74.43	682.24	170.88	246.15	206.98
27302	9.83	-19.55	-13.00	135.87	64.33	716.04	43.85	281.43	224.20	262.98	69.81	662.37	190.20	253.07	222.45
27303	11.20	-18.79	-13.00	147.64	55.52	712.18	47.54	274.42	240.71	266.90	69.32	639.51	209.75	261.90	240.41
27304	12.52	-17.94	-13.00	157.82	48.76	707.21	51.08	266.84	258.45	271.50	75.52	613.92	229.13	273.37	260.76
27305	13.77	-17.00	-13.00	164.83	47.27	701.02	54.58	259.60	276.27	278.12	86.66	586.30	247.67	289.14	282.68
27306	14.95	-15.97	-13.00	165.81	52.86	694.07	60.43	254.73	291.89	290.58	104.38	558.06	265.32	312.23	304.57
27307	16.06	-14.85	-13.00	158.68	65.49	687.72	70.29	254.44	303.32	315.80	115.57	530.77	285.49	346.00	326.75
27308	17.08	-13.67	-13.00	147.03	84.45	683.73	81.31	258.16	312.31	360.64	118.31	504.35	316.98	392.09	356.78
27309	18.01	-12.41	-13.00	142.09	105.13	681.86	91.84	262.63	326.50	433.36	115.48	475.83	369.66	456.21	410.30
27310	18.85	-11.08	-13.00	155.59	122.08	677.92	105.17	275.40	351.69	565.05	107.25	441.79	438.58	579.76	492.42
27311	19.60	-9.70	-13.00	181.07	135.56	676.30	110.96	306.37	365.96	793.25	88.44	431.25	487.96	831.66	551.43
27312	0.83	-22.71	-13.00	53.41	41.97	673.06	22.93	297.47	100.57	219.46	42.99	681.46	55.02	222.27	100.34
27313	2.47	-22.59	-13.00	58.47	30.79	667.97	21.13	295.31	99.78	223.12	31.2				



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
27343	21.43	-9.79	-13.00	32.27	135.69	400.99	74.35	164.74	349.28	219.40	364.51	785.12	307.92	373.21	613.97
27344	0.70	-20.20	-14.33	186.88	435.81	773.54	134.20	296.72	271.74	389.11	438.37	780.86	221.03	270.32	271.74
27345	2.10	-20.10	-14.33	198.89	437.21	773.58	134.88	296.75	274.97	373.81	440.03	777.10	239.31	270.28	274.97
27346	3.49	-19.90	-14.33	221.54	433.54	773.45	136.08	297.29	278.97	361.34	436.03	770.31	259.13	271.05	278.96
27347	4.86	-19.62	-14.33	251.09	421.02	772.84	137.67	298.45	283.31	352.79	422.66	760.21	280.56	272.92	283.26
27348	6.20	-19.23	-14.33	283.56	400.62	771.77	139.60	300.12	288.56	347.92	400.80	746.90	303.19	275.85	288.48
27349	7.52	-18.76	-14.33	316.45	373.68	770.29	141.94	302.31	295.15	346.58	371.50	730.53	326.70	279.98	295.05
27350	8.80	-18.19	-14.33	347.99	340.72	768.36	144.71	305.21	303.40	349.26	334.89	711.23	350.93	285.66	303.29
27351	10.04	-17.54	-14.33	376.42	301.80	765.84	147.65	309.09	313.77	357.05	290.36	689.05	375.63	293.34	313.66
27352	11.23	-16.80	-14.33	399.79	256.96	762.44	149.84	314.21	327.13	371.95	236.66	663.96	400.38	303.48	327.06
27353	12.37	-15.98	-14.33	414.85	206.32	757.41	147.28	321.35	345.18	397.44	171.75	635.73	423.31	317.08	345.19
27354	13.44	-15.08	-14.33	414.13	162.70	750.28	135.25	332.53	366.48	439.81	105.63	605.14	441.64	336.94	366.56
27355	14.46	-14.11	-14.33	390.70	144.22	741.74	118.21	350.55	385.41	507.61	65.51	574.43	457.05	367.02	385.41
27356	15.40	-13.08	-14.33	346.35	153.43	734.99	111.10	376.48	391.56	606.16	71.13	547.52	482.38	410.03	391.42
27357	16.27	-11.98	-14.33	325.41	184.45	735.68	111.59	393.59	382.62	698.67	116.64	524.73	542.90	453.18	384.08
27358	17.06	-10.82	-14.33	374.51	200.93	740.40	127.90	391.37	382.85	729.10	176.93	496.33	592.09	491.16	389.02
27359	17.76	-9.62	-14.33	475.22	206.92	745.59	167.90	437.19	414.09	701.44	258.70	460.68	560.98	598.19	424.04
27360	0.74	-21.03	-14.33	172.52	366.55	783.99	91.20	321.62	281.46	361.53	368.48	791.15	164.60	295.18	281.46
27361	2.22	-20.93	-14.33	180.55	376.36	784.67	94.41	320.54	286.91	350.92	378.48	787.95	184.24	294.35	286.91
27362	3.69	-20.72	-14.33	199.09	377.83	784.95	98.90	320.03	291.41	344.08	379.33	781.38	206.84	294.52	291.37
27363	5.14	-20.41	-14.33	223.89	367.59	784.53	104.46	319.83	295.07	341.34	367.80	771.15	232.11	295.60	295.00
27364	6.57	-19.99	-14.33	251.20	350.12	783.72	110.44	319.40	299.40	340.55	348.13	757.57	258.86	297.11	299.29
27365	7.96	-19.48	-14.33	279.56	327.73	782.65	116.30	318.80	304.67	341.01	322.27	740.90	286.61	299.26	304.53
27366	9.32	-18.87	-14.33	307.69	300.97	781.24	121.60	318.28	311.02	343.08	290.38	721.26	315.19	302.44	310.87
27367	10.62	-18.17	-14.33	334.19	270.23	779.41	125.68	318.04	318.66	347.31	252.33	698.75	344.24	307.00	318.54
27368	11.88	-17.37	-14.33	357.27	235.93	776.90	127.04	318.32	327.98	354.74	207.85	673.42	373.14	313.40	327.95
27369	13.07	-16.49	-14.33	373.75	200.76	773.45	122.74	319.82	339.01	367.20	159.25	645.53	400.38	322.62	339.10
27370	14.20	-15.53	-14.33	378.08	173.18	769.05	112.08	324.06	349.96	388.17	116.54	615.88	424.52	336.79	350.16
27371	15.26	-14.48	-14.33	366.05	163.85	764.56	102.44	332.99	356.91	423.91	93.84	586.08	448.24	358.74	357.17
27372	16.24	-13.37	-14.33	345.31	177.39	762.05	104.34	345.55	356.54	475.34	91.14	557.67	482.18	389.46	357.52
27373	17.14	-12.19	-14.33	345.87	199.56	762.59	115.69	354.99	354.71	520.20	100.51	529.15	531.67	427.11	359.53
27374	17.95	-10.95	-14.33	391.61	210.51	763.56	135.06	358.58	367.28	526.89	139.25	495.68	565.33	479.34	380.82
27375	18.68	-9.66	-14.33	479.80	228.33	763.61	176.34	421.88	413.67	474.22	236.46	456.23	517.91	620.04	433.50
27376	0.78	-21.87	-14.33	158.88	301.26	793.45	73.02	317.55	269.57	331.26	302.54	800.45	130.87	290.83	269.57
27377	2.35	-21.76	-14.33	163.69	326.94	795.33	76.00	315.29	280.83	320.38	328.15	798.33	150.09	289.15	280.83
27378	3.90	-21.54	-14.33	181.34	332.89	795.73	80.09	315.17	284.91	317.29	333.25	791.82	174.14	290.35	284.87
27379	5.43	-21.20	-14.33	203.13	323.63	795.25	85.72	315.12	287.71	318.01	322.52	781.24	201.00	292.27	287.61
27380	6.94	-20.76	-14.33	226.71	309.52	794.66	91.10	313.99	291.28	317.53	305.87	767.33	228.40	293.92	291.14
27381	8.41	-20.20	-14.33	251.63	292.14	793.88	96.14	312.45	295.57	316.43	284.66	750.28	256.79	296.10	295.39
27382	9.83	-19.55	-14.33	276.81	271.64	792.87	100.62	310.73	300.66	314.99	258.80	730.19	285.92	299.16	300.49
27383	11.20	-18.79	-14.33	301.12	248.65	791.55	103.85	308.96	306.61	313.32	228.85	707.20	315.23	303.36	306.50
27384	12.52	-17.94	-14.33	323.00	224.21	789.79	104.50	307.40	313.48	311.66	196.09	681.51	343.84	309.14	313.51
27385	13.77	-17.00	-14.33	339.53	201.38	787.55	101.13	306.62	320.82	310.60	164.82	653.50	370.40	317.31	321.08
27386	14.95	-15.97	-14.33	346.45	186.26	785.00	95.11	307.71	327.22	312.18	142.55	623.89	394.14	329.30	327.87
27387	16.06	-14.85	-14.33	341.86	185.08	782.76	92.88	311.58	330.83	320.34	131.71	593.63	417.89	346.63	332.29
27388	17.08	-13.67	-14.33	333.86	196.64	781.62	99.33	316.95	331.98	335.22	120.95	563.13	448.43	369.55	336.03
27389	18.01	-12.41	-14.33	342.44	208.94	781.30	112.80	321.39	336.24	342.91	97.89	531.30	484.52	400.94	347.77
27390	18.85	-11.08	-14.33	386.20	215.76	779.14	134.11	325.18	354.88	313.83	92.11	494.77	500.74	454.13	381.25
27391	19.60	-9.70	-14.33	472.74	242.31	774.56	181.89	398.77	408.74	210.87	186.66	456.41	438.52	603.40	444.17
27392	0.83	-22.71	-14.33	138.49	220.97	790.14	67.56	312.31	230.45	291.79	221.66	797.03	106.85	284.06	230.46
27393	2.47	-22.59	-14.33	143.87	275.11	793.96	65.99	308.70	252.61	277.71	275.51	796.97	124.44	282.06	252.61
27394	4.11	-22.35	-14.33	161.36	279.16	791.48	71.32	311.72	253.28	285.01	278.83	788.22	152.95	287.42	253.12
27395	5.72	-21.99	-14.33	179.23	269.98	791.27	73.47	310.73	257.04	285.94	268.37	777.93	178.28	289.24	256.75
27396	7.30	-21.52	-14.33	199.43	260.90	790.76	74.35	308.08	261.30	283.27	257.27	764.12	203.88	290.45	260.90
27397	8.85	-20.93	-14.33	220.77	249.03	790.16	75.41	304.75	266.57	278.54	242.59	747.22	230.37	292.04	266.12
27398	10.35	-20.23	-14.33	242.30	235.48	789.38	76.63	300.81	272.57	271.74	225.66	727.27	257.08	294.20	272.20
27399	11.79	-19.42	-14.33	263.21	220.77	788.38	77.68	296.39	279.28	262.72	207.57	704.47	283.18	297.16	279.16
27400	13.17	-18.52	-14.33	282.29	206.21	787.11	77.85	291.73	286.44	251.23	190.67	679.07	307.43	301.26	286.85
27401	14.48	-17.51	-14.33	297.25	194.49	785.58	76.87	287.31	293.53	237.26	178.63	651.48	328.31	307.10	294.85
27402	15.71	-16.41	-14.33	304.87	189.41	784.01	76.82	283.94	299.70	221.87	173.49	622.29	345.14	315.58	302.56
27403	16.86	-15.22	-14.33	304.05	192.83	782.71	81.40	282.10	304.53	207.49	170.45	592.03	360.00	327.24	310.29
27404	17.92	-13.96	-14.33	300.71	200.79	781.83	91.53	281.07	309.61	194.62	158.66	560.76	376.89	341.49	321.39
27405	18.89	-12.62	-14.33	307.24	205.81	780.31	106.56	279.64	319.48	176.52	127.28	527.73	393.97	360.27	343.61
27406	19.75	-11.21	-14.33	343.12	211.54	773.82	132.13	277.74	344.39	122.51	81.41	492.12	390.23	393.09	388.48
27407	20.51	-9.75	-14.33	437.08	250.65	764.54	192.88	354.16	406.98	89.59	134.17	462.01	312.49	497.17	458.42
27408	0.87	-23.55	-14.33	126.90	102.61	768.26	61.56	325.76	149.99	182.94	102.80	775.09	78.57	287.73	149.73
27409	2.60	-23.42	-14.33	116.31	191.64	697.74	82.56	350.95	148.90	234.27	191.61	704.52	124.44	323.48	148.68
27410	4.32	-23.17	-14.33	124.23	178.05	701.32	80.97	351.30	159.67	243.73	178.27	704.90	146.70</		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
27441	-9.52	-9.60	-14.33	439.41	122.25	565.56	183.83	392.85	371.99	745.21	94.16	483.50	171.79	372.32	371.89
27442	-10.62	-9.54	-14.33	488.80	121.90	592.09	198.40	422.28	398.09	763.27	71.12	487.78	192.01	401.71	397.95
27443	-0.60	-11.68	-14.33	144.02	73.96	516.53	53.47	231.32	247.06	654.08	155.16	528.88	64.35	201.56	247.14
27444	-1.80	-11.64	-14.33	163.11	74.48	518.50	60.95	233.73	249.41	655.39	145.43	528.65	52.74	205.88	249.45
27445	-2.99	-11.58	-14.33	194.44	75.92	523.17	73.60	239.05	254.73	659.24	135.02	527.95	55.44	213.00	254.74
27446	-4.16	-11.50	-14.33	232.83	78.31	530.35	88.99	246.93	261.94	666.33	124.00	526.78	68.95	222.48	261.94
27447	-5.32	-11.40	-14.33	275.62	81.67	539.89	105.90	257.46	271.20	677.04	112.48	525.19	87.54	234.37	271.19
27448	-6.47	-11.28	-14.33	321.76	86.04	551.66	123.75	271.10	282.80	691.58	100.72	523.23	108.20	249.07	282.78
27449	-7.60	-11.15	-14.33	371.14	91.44	565.61	142.25	288.65	297.18	710.33	89.08	521.01	129.75	267.37	297.15
27450	-8.72	-10.99	-14.33	424.63	97.91	581.91	161.39	311.63	315.00	734.15	78.20	518.75	151.94	290.78	314.97
27451	-9.83	-10.82	-14.33	484.33	105.92	601.39	182.00	343.21	337.55	764.92	69.22	517.16	175.60	322.46	337.49
27452	-10.92	-10.63	-14.33	551.98	119.12	625.80	210.42	388.78	376.08	804.11	66.95	517.92	207.13	367.88	375.98
27453	-0.63	-13.48	-14.33	152.93	111.07	568.30	15.59	221.73	228.11	598.59	164.74	579.49	104.90	193.53	228.15
27454	-1.88	-13.42	-14.33	171.43	109.70	569.72	33.59	223.38	229.87	606.91	155.54	578.73	90.07	196.84	229.90
27455	-3.11	-13.32	-14.33	202.72	108.83	573.33	54.84	228.13	235.00	616.98	145.58	576.99	84.54	203.11	235.02
27456	-4.33	-13.19	-14.33	241.33	108.39	578.95	76.27	235.47	242.11	629.61	134.74	574.33	88.58	211.79	242.12
27457	-5.53	-13.03	-14.33	284.41	108.43	586.45	97.74	245.44	251.41	645.20	123.09	570.80	100.24	222.84	251.42
27458	-6.70	-12.83	-14.33	330.75	109.10	595.73	119.34	258.46	263.23	664.01	110.78	566.46	116.90	236.67	263.24
27459	-7.86	-12.61	-14.33	380.22	110.64	606.71	141.28	275.37	278.12	686.50	98.15	561.35	136.70	254.11	278.12
27460	-8.99	-12.35	-14.33	433.93	113.32	619.51	164.01	297.87	296.89	713.92	85.84	555.60	158.91	276.88	296.89
27461	-10.11	-12.06	-14.33	495.65	117.27	634.88	188.97	330.29	320.82	749.98	74.84	549.61	184.37	309.30	320.84
27462	-11.19	-11.74	-14.33	575.43	124.16	654.93	225.76	366.81	366.81	804.50	67.62	544.77	222.62	361.66	366.82
27463	-0.65	-15.28	-14.33	161.80	192.37	618.77	20.26	213.70	221.92	543.30	218.30	629.03	134.46	186.72	221.93
27464	-1.95	-15.20	-14.33	178.64	190.46	619.76	35.80	215.06	223.26	556.30	211.45	627.85	118.85	189.45	223.27
27465	-3.22	-15.07	-14.33	208.20	187.18	622.35	56.23	219.40	227.96	570.70	202.61	625.17	110.25	195.06	227.96
27466	-4.47	-14.90	-14.33	245.21	182.63	626.44	77.30	226.28	234.67	587.04	191.78	621.10	109.19	203.02	234.67
27467	-5.71	-14.67	-14.33	286.59	176.77	631.93	98.54	235.72	243.60	605.53	178.80	615.71	115.24	213.31	243.60
27468	-6.91	-14.40	-14.33	330.73	169.67	638.72	120.00	248.07	255.11	626.19	163.52	609.03	127.07	226.29	255.11
27469	-8.09	-14.08	-14.33	376.91	161.55	646.72	141.91	264.02	269.81	649.03	145.78	601.10	143.32	242.65	269.81
27470	-9.24	-13.72	-14.33	425.29	152.81	655.87	164.92	284.94	288.73	674.51	125.31	591.89	163.30	263.76	288.75
27471	-10.36	-13.31	-14.33	477.67	144.11	666.40	191.00	314.16	313.67	704.49	101.47	581.26	188.12	293.00	313.71
27472	-11.45	-12.86	-14.33	540.75	135.83	678.49	228.80	361.08	361.90	745.44	70.90	568.62	226.11	339.77	361.97
27473	-0.67	-17.07	-14.33	172.26	286.57	672.63	56.82	208.99	224.13	490.75	297.82	682.06	161.12	182.80	224.13
27474	-1.99	-16.99	-14.33	186.93	284.78	673.22	63.50	210.22	225.30	506.79	293.11	680.53	145.76	185.10	225.30
27475	-3.30	-16.84	-14.33	213.81	280.04	674.76	75.68	214.16	229.44	524.19	285.03	676.95	135.62	190.06	229.44
27476	-4.59	-16.62	-14.33	248.21	272.19	677.22	90.64	220.53	235.53	543.07	273.42	671.46	131.05	197.31	235.52
27477	-5.85	-16.34	-14.33	286.84	261.01	680.53	107.12	229.36	243.73	563.26	257.90	664.10	132.11	206.87	243.73
27478	-7.09	-15.99	-14.33	327.56	246.46	684.57	124.60	240.91	254.44	584.42	238.18	654.89	138.40	218.98	254.43
27479	-8.29	-15.58	-14.33	368.96	228.55	689.22	142.88	255.61	268.28	606.05	213.90	643.85	149.19	234.07	268.27
27480	-9.46	-15.11	-14.33	409.91	207.31	694.30	162.13	274.23	286.33	627.46	184.24	630.85	163.88	252.94	286.33
27481	-10.60	-14.58	-14.33	449.52	182.61	699.50	183.28	298.31	310.61	647.90	147.16	615.49	182.71	277.16	310.63
27482	-11.69	-14.00	-14.33	488.13	153.33	703.77	208.54	332.21	352.70	667.54	96.22	596.41	207.42	311.11	352.73
27483	-0.68	-18.88	-14.33	184.60	397.62	733.39	116.41	238.99	245.28	443.54	401.69	742.08	203.75	213.05	245.29
27484	-2.02	-18.79	-14.33	197.64	397.29	733.64	118.33	239.75	246.72	462.79	399.89	740.32	188.40	214.61	246.73
27485	-3.36	-18.61	-14.33	222.55	392.40	734.09	121.82	242.28	250.23	483.42	393.33	735.86	175.80	217.95	250.24
27486	-4.68	-18.35	-14.33	255.06	381.57	734.65	126.61	246.61	255.14	504.91	380.59	728.74	166.21	223.06	255.15
27487	-5.97	-18.01	-14.33	291.35	364.63	735.28	132.78	252.73	261.65	526.63	361.31	718.98	159.96	229.89	261.65
27488	-7.23	-17.59	-14.33	328.71	341.86	735.91	140.40	260.72	270.15	547.90	335.57	706.65	157.38	238.50	270.15
27489	-8.47	-17.09	-14.33	365.18	313.31	736.43	149.41	270.80	281.22	567.82	303.15	691.77	158.65	249.10	281.21
27490	-9.66	-16.51	-14.33	398.89	278.71	736.64	159.66	283.34	295.69	585.11	263.18	674.26	163.65	262.07	295.68
27491	-10.81	-15.87	-14.33	427.57	237.43	736.12	170.75	298.85	315.07	597.73	213.76	653.81	171.77	277.93	315.06
27492	-11.91	-15.15	-14.33	449.01	187.72	733.88	180.77	318.77	344.50	603.45	149.94	629.57	180.76	298.15	344.48
27493	-16.80	-9.56	-14.33	438.49	180.64	719.23	151.12	451.43	421.67	529.77	119.17	485.95	155.99	431.13	421.70
27494	-16.19	-10.65	-14.33	328.94	183.57	713.07	112.63	431.12	413.37	425.18	123.32	508.91	116.60	411.02	413.37
27495	-15.52	-11.69	-14.33	279.94	164.17	707.36	104.23	443.11	429.39	382.67	100.31	526.64	110.86	423.08	429.40
27496	-15.79	-9.48	-14.33	404.98	173.70	693.48	118.17	474.34	449.65	525.11	117.81	488.22	120.45	452.67	449.73
27497	-15.37	-10.42	-14.33	319.67	181.02	691.73	91.67	474.50	461.74	440.44	126.45	507.61	93.19	453.18	461.79
27498	-14.91	-11.34	-14.33	282.38	162.24	689.36	96.14	495.26	484.68	405.64	97.43	520.78	100.04	474.21	484.67
27499	-14.78	-9.40	-14.33	414.98	205.37	676.05	118.16	492.41	490.67	566.03	166.50	494.15	118.45	470.29	490.75
27500	-14.55	-10.21	-14.33	370.46	208.00	680.88	102.20	501.77	516.13	518.62	168.74	511.40	102.14	479.92	516.19
27501	-14.30	-11.00	-14.33	319.53	173.75	680.17	93.16	538.05	545.46	464.90	123.23	522.16	93.82	516.46	545.47
27502	-12.93	-14.37	-14.33	447.23	146.93	727.85	175.97	344.08	383.49	586.96	86.70	601.29	176.49	323.69	383.48
27503	-12.65	-13.39	-14.33	494.33	142.30	703.25	213.64	375.35	411.06	657.04	68.01	573.95	213.17	354.29	411.09
27504	-12.36	-12.43	-14.33	566.44	139.07	686.17	246.73	419.49	431.17	752.28	64.53	554.41	244.91	398.03	431.24
27505	-13.86	-13.54	-14.33	412.49	140.52	718.29	154.60	377.08	421.92	538.69	74.32	571.16	157.23	356.81	421.92
27506	-13.48	-12.78	-14.33	451.99	155.16	697.28	191.35	423.16	466.38	599.86	92.01	550.37	192.40	402.15	466.39
27507	-13.10	-12.03	-14.33	524.00	145.97	686.82	227.16	475.85	493.98	694.02	75.27	540.19	226.38	454.49	493.03
27508	-14.74	-12.66	-14.33	345.35	147.63	709.01	129.90	418.23	442.27	459.01	86.64	543.98	135.96	398.18	442.29
2															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
27539	-10.92	-10.63	-13.00	348.34	87.42	621.78	138.67	401.80	378.13	573.34	70.25	503.22	134.18	343.71	377.89
27540	-0.63	-13.48	-13.00	120.12	78.45	551.01	18.38	275.61	288.74	517.88	131.35	563.76	88.30	197.67	288.98
27541	-1.88	-13.42	-13.00	133.77	77.91	552.46	28.85	277.57	290.58	519.37	125.57	563.12	74.11	203.80	290.75
27542	-3.11	-13.32	-13.00	157.02	77.53	556.42	43.75	281.47	294.40	523.37	118.85	561.43	66.76	211.58	294.51
27543	-4.33	-13.19	-13.00	185.53	77.34	562.67	59.39	287.77	300.02	529.03	111.41	558.67	67.09	221.33	300.09
27544	-5.53	-13.03	-13.00	216.48	77.34	571.06	75.02	296.56	307.23	535.90	103.37	554.92	74.01	233.00	307.28
27545	-6.70	-12.83	-13.00	248.22	77.61	581.53	90.38	308.01	316.08	543.53	94.91	550.29	85.20	246.70	316.11
27546	-7.86	-12.61	-13.00	279.60	78.26	594.13	105.27	322.53	326.65	551.33	86.34	544.91	98.58	262.80	326.69
27547	-8.99	-12.35	-13.00	309.30	79.39	609.23	119.45	340.74	339.19	558.13	78.06	539.06	112.78	281.96	339.24
27548	-10.11	-12.06	-13.00	334.19	81.26	627.97	132.57	362.60	354.98	560.80	70.59	533.49	126.85	304.17	355.03
27549	-11.19	-11.74	-13.00	344.71	84.57	649.52	140.40	382.10	373.40	549.72	65.55	528.61	136.02	323.57	373.44
27550	-0.65	-15.28	-13.00	120.52	123.87	607.54	9.60	265.46	280.08	463.58	152.26	619.05	109.27	191.11	280.17
27551	-1.95	-15.20	-13.00	133.03	122.64	608.52	23.27	267.08	281.69	468.95	147.79	617.98	94.38	196.15	281.75
27552	-3.22	-15.07	-13.00	154.92	120.36	611.25	39.42	270.47	285.33	476.34	141.64	615.21	84.50	202.72	285.37
27553	-4.47	-14.90	-13.00	181.95	116.97	615.55	55.46	276.08	290.80	484.87	133.88	610.78	80.49	211.10	290.84
27554	-5.71	-14.67	-13.00	211.19	112.51	621.32	71.27	283.92	297.98	493.97	124.49	604.76	82.48	221.25	298.01
27555	-6.91	-14.40	-13.00	240.79	107.19	628.43	86.86	294.09	306.96	503.07	113.54	597.17	89.58	233.18	307.01
27556	-8.09	-14.08	-13.00	269.44	101.32	636.80	102.22	306.82	318.03	511.45	101.18	588.00	100.32	247.15	318.11
27557	-9.24	-13.72	-13.00	295.70	95.42	646.44	117.24	322.52	331.68	517.96	87.69	577.17	113.31	263.60	331.79
27558	-10.36	-13.31	-13.00	316.98	90.05	657.70	131.35	341.11	349.47	519.97	73.57	564.57	127.14	282.53	349.64
27559	-11.45	-12.86	-13.00	325.65	87.23	668.74	139.35	357.34	370.53	509.81	62.17	549.28	135.92	298.80	370.71
27560	-0.67	-17.07	-13.00	118.84	168.29	666.81	35.26	265.05	278.54	408.90	182.27	677.16	126.47	193.13	278.55
27561	-1.99	-16.99	-13.00	129.73	166.97	667.38	39.33	266.20	280.03	416.80	179.25	675.78	111.53	196.91	280.03
27562	-3.30	-16.84	-13.00	149.34	163.52	668.85	47.60	268.77	283.32	426.22	173.76	672.01	99.91	201.98	283.32
27563	-4.59	-16.62	-13.00	173.86	157.61	671.06	58.02	273.11	288.19	436.29	165.50	665.86	92.29	208.57	288.20
27564	-5.85	-16.34	-13.00	200.32	149.23	673.90	69.67	279.19	294.56	446.30	154.32	657.36	89.34	216.57	294.57
27565	-7.09	-15.99	-13.00	226.72	138.61	677.22	82.18	286.97	302.67	455.60	140.23	646.51	91.35	225.89	302.69
27566	-8.29	-15.58	-13.00	251.57	126.15	680.81	95.32	296.44	312.92	463.41	123.31	633.19	97.89	236.53	312.96
27567	-9.46	-15.11	-13.00	273.50	112.55	684.37	108.79	307.63	326.01	468.63	103.69	617.12	107.89	248.57	326.07
27568	-10.60	-14.58	-13.00	290.72	98.93	687.44	121.71	320.28	343.44	469.55	81.85	597.64	119.59	261.82	343.52
27569	-11.69	-14.00	-13.00	299.34	88.79	687.70	129.67	331.58	365.10	462.26	61.89	573.14	127.76	273.51	365.20
27570	-0.68	-18.88	-13.00	110.13	184.59	723.00	56.04	280.39	266.11	352.45	191.38	732.27	131.81	209.47	266.11
27571	-2.02	-18.79	-13.00	118.84	184.16	723.36	56.68	280.54	268.15	360.67	190.19	730.77	117.32	211.39	268.15
27572	-3.36	-18.61	-13.00	135.33	181.10	723.65	58.79	281.28	271.79	370.02	186.25	726.14	104.69	214.04	271.76
27573	-4.68	-18.35	-13.00	156.40	174.56	723.66	62.43	282.96	276.59	379.74	178.66	718.25	94.66	217.62	276.53
27574	-5.97	-18.01	-13.00	179.17	164.59	723.32	67.80	285.55	282.65	389.10	167.23	707.18	88.05	222.01	282.55
27575	-7.23	-17.59	-13.00	201.78	151.58	722.59	75.03	288.95	290.32	397.59	152.11	692.98	85.80	227.06	290.19
27576	-8.47	-17.09	-13.00	222.98	135.99	721.29	84.02	293.16	300.07	404.66	133.47	675.59	88.33	232.73	299.92
27577	-9.66	-16.51	-13.00	241.74	118.54	719.06	94.32	298.21	312.53	409.62	111.48	654.78	95.07	239.04	312.36
27578	-10.81	-15.87	-13.00	257.06	100.53	715.30	104.73	304.04	328.77	411.63	86.67	630.00	104.17	245.95	328.60
27579	-11.91	-15.15	-13.00	267.72	85.71	708.30	112.13	310.03	349.14	409.49	62.48	600.06	111.64	252.86	349.99
27580	-16.80	-9.56	-13.00	282.17	127.01	686.28	114.60	313.17	383.62	375.45	92.07	456.80	117.34	357.56	383.65
27581	-16.19	-10.65	-13.00	258.13	120.62	670.95	113.93	396.44	386.97	356.24	83.19	471.18	117.47	341.07	386.96
27582	-15.52	-11.69	-13.00	251.60	109.70	663.96	110.86	374.14	383.38	355.17	71.58	486.68	114.51	318.73	383.37
27583	-15.79	-9.48	-13.00	305.70	128.81	671.28	112.15	424.86	394.93	423.27	93.76	467.99	113.26	366.04	395.18
27584	-15.37	-10.42	-13.00	288.99	119.91	661.42	115.22	408.75	398.81	408.26	81.01	478.36	116.84	350.61	398.95
27585	-14.91	-11.34	-13.00	282.94	109.94	656.64	116.17	384.93	393.31	404.09	69.95	487.36	117.75	327.32	393.35
27586	-14.78	-9.40	-13.00	323.14	132.45	663.73	116.36	422.86	406.05	465.69	100.28	480.99	116.32	362.82	406.28
27587	-14.55	-10.21	-13.00	312.36	119.48	662.09	121.52	408.87	407.74	452.95	82.49	489.93	121.56	349.44	407.91
27588	-14.30	-11.00	-13.00	317.89	108.79	661.84	129.38	386.25	396.25	457.57	68.62	495.49	129.47	327.42	396.33
27589	-12.93	-14.37	-13.00	273.18	79.65	696.62	113.56	316.79	370.39	403.40	47.02	565.78	113.88	260.26	370.29
27590	-12.65	-13.39	-13.00	300.13	85.82	682.38	129.64	339.83	384.90	449.50	51.17	545.48	128.58	281.97	384.98
27591	-12.36	-12.43	-13.00	322.45	88.43	674.10	138.40	364.97	387.01	490.88	57.64	532.85	136.05	306.27	387.17
27592	-13.86	-13.54	-13.00	271.84	82.17	681.22	109.88	329.01	385.86	392.01	45.57	531.14	111.50	272.87	385.82
27593	-13.48	-12.78	-13.00	296.40	88.97	671.89	123.61	349.52	396.38	434.44	51.43	518.81	123.56	291.83	396.42
27594	-13.10	-12.03	-13.00	316.79	92.38	671.87	132.12	369.01	395.75	472.73	57.87	516.72	130.73	310.42	395.85
27595	-14.74	-12.66	-13.00	261.28	93.05	667.32	107.27	349.01	387.79	372.40	55.64	503.39	110.34	293.38	387.79
27596	-14.28	-12.13	-13.00	284.97	99.53	660.16	117.27	363.14	395.87	412.54	60.68	497.84	118.32	305.64	395.88
27597	-13.81	-11.61	-13.00	304.52	106.89	665.12	121.81	370.99	394.40	448.57	73.39	503.45	121.36	312.43	394.45
27598	-11.69	-9.49	-11.67	229.72	69.08	609.46	102.63	387.91	362.33	421.80	61.10	473.33	99.21	299.07	362.12
27599	-12.72	-9.44	-11.67	226.84	71.48	627.48	102.93	382.02	366.18	398.85	57.53	472.59	100.13	292.32	366.13
27600	-13.76	-9.39	-11.67	221.67	72.78	638.10	100.74	376.44	367.03	373.79	54.61	466.59	98.83	285.78	367.20
27601	-11.91	-10.47	-11.67	222.89	63.35	624.75	101.15	373.91	361.18	401.65	58.22	485.87	97.04	284.60	361.13
27602	-12.81	-10.33	-11.67	218.36	65.75	634.84	101.12	368.28	362.82	380.85	54.17	480.56	98.01	278.43	362.89
27603	-13.70	-10.18	-11.67	213.07	67.94	639.19	99.96	364.16	362.49	359.76	51.23	471.72	98.01	273.76	362.71
27604	-12.11	-11.46	-11.67	212.40	56.77	636.46	99.05	355.40	359.39	377.76	52.92	497.62	95.04	265.81	359.55
27605	-12.88	-11.21	-11.67	207.92	59.14	639.76	98.62	351.57	360.49	360.80	49.40	488.10	95.61	261.82	360.67
27606	-13.63	-10.96	-11.67	205.62	62.73	640.23	98.53	349.57	360.37	345.91	47.61	477.50	96.84	259.64	360.61
27607	-0.57	-9.89	-11.67	97.96	53.39	423.77									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
27637	-0.65	-15.28	-11.67	84.73	65.94	593.74	4.52	297.17	303.08	381.50	101.92	607.42	84.06	184.44	303.29
27638	-1.95	-15.20	-11.67	94.05	65.42	594.61	15.71	298.36	304.61	382.69	99.66	606.27	70.79	190.23	304.78
27639	-3.22	-15.07	-11.67	109.32	64.19	597.16	27.53	300.65	307.36	384.69	96.18	603.12	60.89	196.92	307.51
27640	-4.47	-14.90	-11.67	127.60	62.24	601.19	39.26	304.15	311.23	387.06	91.54	597.95	55.52	204.37	311.38
27641	-5.71	-14.67	-11.67	146.56	59.66	606.51	50.77	308.91	316.11	389.12	85.84	590.79	55.38	212.49	316.27
27642	-6.91	-14.40	-11.67	164.56	56.65	612.91	61.96	314.78	321.94	390.13	79.22	581.65	59.89	221.06	322.13
27643	-8.09	-14.08	-11.67	180.26	53.56	620.20	72.59	321.49	328.70	389.18	71.92	570.53	67.46	229.76	328.93
27644	-9.24	-13.72	-11.67	192.18	50.83	628.16	82.13	328.32	336.37	384.99	64.30	557.38	76.21	237.93	336.64
27645	-10.36	-13.31	-11.67	198.61	49.07	636.07	89.43	333.39	344.38	375.90	57.00	542.04	84.03	243.75	344.68
27646	-11.45	-12.86	-11.67	199.60	48.86	642.07	93.62	334.79	351.17	361.98	50.40	524.35	89.38	245.41	351.47
27647	-0.67	-17.07	-11.67	75.76	72.67	647.26	13.84	291.53	285.79	328.60	95.41	659.32	90.32	182.97	285.82
27648	-1.99	-16.99	-11.67	83.76	71.99	647.61	18.00	292.10	287.33	331.24	94.32	657.75	77.23	187.00	287.36
27649	-3.30	-16.84	-11.67	97.15	70.03	648.57	25.65	293.28	290.07	334.49	91.66	653.36	66.26	191.60	290.11
27650	-4.59	-16.62	-11.67	113.24	66.70	649.93	34.66	295.19	293.90	337.86	87.37	646.11	58.50	196.67	293.94
27651	-5.85	-16.34	-11.67	129.87	62.11	651.51	44.32	297.87	298.80	340.71	81.46	635.99	55.10	202.11	298.86
27652	-7.09	-15.99	-11.67	145.56	56.60	653.16	54.35	301.17	304.87	342.39	74.10	623.03	56.59	207.71	304.95
27653	-8.29	-15.58	-11.67	159.17	50.76	654.65	64.41	304.86	312.27	342.23	65.64	607.17	62.20	213.22	312.38
27654	-9.46	-15.11	-11.67	169.72	45.48	655.67	73.88	308.48	321.11	339.43	56.72	588.29	70.12	218.23	321.26
27655	-10.60	-14.58	-11.67	176.23	42.06	655.60	81.57	311.00	331.04	333.07	48.47	566.15	77.94	221.74	331.22
27656	-11.69	-14.00	-11.67	178.76	41.45	653.35	86.29	311.40	340.51	323.24	42.05	540.93	83.62	222.78	340.69
27657	-0.68	-18.88	-11.67	62.82	61.56	681.34	21.49	291.11	246.23	274.56	76.14	691.85	84.74	184.49	246.22
27658	-2.02	-18.79	-11.67	69.03	61.03	681.49	22.41	290.70	248.24	276.69	76.20	690.14	72.58	186.40	248.18
27659	-3.36	-18.61	-11.67	79.71	59.19	681.35	25.63	290.24	251.82	279.48	74.88	685.06	61.81	188.54	251.67
27660	-4.68	-18.35	-11.67	92.71	55.92	680.68	30.82	289.95	256.81	282.45	71.97	676.50	53.51	190.94	256.56
27661	-5.97	-18.01	-11.67	106.26	51.27	679.43	37.52	289.85	263.23	285.06	67.36	664.54	48.88	193.47	262.88
27662	-7.23	-17.59	-11.67	119.25	45.57	677.55	45.36	289.85	271.20	286.91	61.17	649.25	48.89	195.93	270.79
27663	-8.47	-17.09	-11.67	130.93	39.46	674.92	53.90	289.87	280.89	287.64	53.75	630.63	53.33	198.18	280.44
27664	-9.66	-16.51	-11.67	140.72	34.16	671.29	62.51	289.82	292.41	286.86	45.90	608.60	60.58	200.06	291.96
27665	-10.81	-15.87	-11.67	148.16	31.55	666.20	70.13	289.42	305.57	284.18	39.05	582.99	68.44	201.27	305.16
27666	-11.91	-15.15	-11.67	153.19	32.74	659.06	75.61	288.56	319.14	279.57	34.70	553.96	74.90	201.66	318.80
27667	-16.80	-9.56	-11.67	157.66	70.54	644.59	89.83	337.52	346.77	246.69	53.94	424.41	92.99	252.01	346.85
27668	-16.19	-10.65	-11.67	154.52	65.72	632.83	90.81	326.07	344.52	246.96	48.40	436.10	94.53	240.91	344.53
27669	-15.52	-11.69	-11.67	153.83	57.82	628.76	88.87	310.41	341.84	250.38	40.96	451.75	92.68	225.31	341.78
27670	-15.79	-9.48	-11.67	188.13	71.43	645.80	93.19	358.79	355.96	298.15	51.31	442.20	94.29	269.21	356.34
27671	-15.37	-10.42	-11.67	181.47	67.00	637.62	93.95	344.63	352.86	292.26	47.22	450.06	95.34	255.89	353.13
27672	-14.91	-11.34	-11.67	176.05	60.16	634.72	92.65	327.85	350.46	287.93	41.66	460.76	94.06	239.81	350.62
27673	-14.78	-9.40	-11.67	208.92	72.44	643.28	96.80	369.35	363.13	339.63	52.05	456.06	96.21	278.38	363.50
27674	-14.55	-10.21	-11.67	200.97	68.10	639.70	96.84	356.33	359.08	329.56	48.62	461.37	96.37	266.03	359.40
27675	-14.30	-11.00	-11.67	191.03	62.20	638.22	94.64	343.23	357.43	318.40	44.45	468.33	94.28	253.64	357.68
27676	-12.93	-14.37	-11.67	155.89	36.57	650.09	78.56	287.90	330.52	273.57	32.91	523.69	79.17	201.77	330.26
27677	-12.65	-13.39	-11.67	178.60	43.39	648.85	87.93	310.85	346.94	312.69	38.29	516.14	86.51	222.54	347.11
27678	-12.36	-12.43	-11.67	197.26	50.15	644.20	94.74	333.30	355.03	347.38	45.67	507.47	91.74	243.85	355.31
27679	-13.86	-13.54	-11.67	156.84	41.51	640.25	80.88	290.13	337.20	266.80	32.52	495.21	82.90	204.38	337.02
27680	-13.48	-12.78	-11.67	177.49	47.15	642.75	88.63	311.89	349.29	302.80	36.72	494.27	88.40	223.79	349.43
27681	-13.10	-12.03	-11.67	194.13	52.89	642.59	94.56	332.19	355.89	334.40	43.04	492.81	92.58	242.90	356.13
27682	-14.74	-12.66	-11.67	155.68	48.68	632.00	84.61	297.72	339.44	258.35	34.66	470.96	87.92	212.39	339.32
27683	-14.28	-12.13	-11.67	175.61	52.76	637.12	90.28	316.66	348.92	292.55	37.36	475.43	91.21	228.78	349.05
27684	-13.81	-11.61	-11.67	191.69	56.09	639.72	95.62	334.23	356.35	322.51	40.88	478.82	94.63	244.96	356.56
27685	-17.76	-9.62	-11.67	122.50	70.99	635.36	86.38	305.45	336.87	191.88	60.49	402.42	91.77	227.10	336.32
27686	-17.06	-10.82	-11.67	122.46	65.44	623.07	87.76	298.61	333.98	196.44	53.50	417.83	94.18	219.65	333.38
27687	-16.27	-11.98	-11.67	125.48	56.92	619.14	85.34	286.92	329.22	205.12	44.41	438.23	92.17	207.06	328.65
27688	-15.40	-13.08	-11.67	129.39	46.65	622.49	79.35	274.95	324.88	215.54	35.99	460.89	85.72	194.18	324.29
27689	-14.46	-14.11	-11.67	131.52	39.34	631.20	73.42	267.19	319.76	224.52	33.52	487.55	78.52	185.71	318.98
27690	-13.44	-15.08	-11.67	130.65	34.47	642.33	69.21	265.34	309.74	230.74	33.55	518.45	72.65	183.19	308.65
27691	-12.37	-15.98	-11.67	127.18	28.94	652.89	65.34	267.25	294.68	234.63	32.65	550.31	67.10	184.01	293.26
27692	-11.23	-16.80	-11.67	121.71	23.55	661.58	60.13	270.68	277.39	237.08	32.42	580.15	60.49	185.60	275.70
27693	-10.04	-17.54	-11.67	114.71	21.35	668.32	53.40	274.33	260.56	238.48	34.91	606.62	52.80	186.82	258.73
27694	-8.80	-18.19	-11.67	106.41	23.27	673.53	45.94	277.78	245.25	239.03	39.28	629.55	45.41	187.41	243.41
27695	-7.52	-18.76	-11.67	97.09	27.30	677.58	38.65	280.90	231.75	238.91	43.88	649.03	40.22	187.41	230.04
27696	-6.20	-19.23	-11.67	87.12	31.52	680.71	32.09	283.62	220.12	238.31	47.69	665.12	38.93	186.89	218.69
27697	-4.86	-19.62	-11.67	76.92	35.05	683.03	26.63	285.88	210.45	237.37	50.23	677.82	42.13	186.01	209.41
27698	-3.49	-19.90	-11.67	67.24	37.61	684.52	22.59	287.80	202.85	236.25	51.44	687.01	49.11	185.07	202.24
27699	-2.10	-20.10	-11.67	59.32	39.26	685.04	20.43	289.54	197.47	235.31	51.62	692.49	58.84	184.47	197.24
27700	-0.70	-20.20	-11.67	54.74	40.06	684.77	20.29	290.86	194.65	235.11	51.08	694.29	70.16	184.16	194.65
27701	-18.68	-9.66	-11.67	84.94	72.35	608.92	81.16	259.00	326.54	135.04	68.68	374.09	88.72	192.04	324.99
27702	-17.95	-10.95	-11.67	87.96	66.31	599.86	83.11	257.39	321.46	142.34	61.18	392.26	92.24	189.01	319.76
27703	-17.14	-12.19	-11.67	92.60	58.13	597.99	80.60	251.31	312.46	152.46	52.01	416.10	90.70	181.03	310.76
27704	-16.24	-13.37	-11.67	98.47	48.44	601.59	74.27	244.47	303.45	165.02	42.77	440.57	84.59	172.29	301.68
27705	-15.26	-14.48	-11.67	103.00	42.45	609.44	67.11	240.49	295.17	176.74	39.48	466.70	76.60	166.80	293.03
27706	-14.20	-15.53	-11.67	104.17											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
27735	-18.89	-12.62	-11.67	47.55	71.37	475.46	64.27	172.58	270.49	65.86	76.20	364.75	77.47	142.67	263.64
27736	-17.92	-13.96	-11.67	51.51	61.58	484.74	60.03	179.05	250.40	76.40	64.67	381.05	74.94	144.62	241.84
27737	-16.86	-15.22	-11.67	54.62	55.08	492.43	54.40	187.15	233.99	86.79	56.40	396.35	70.10	148.53	223.56
27738	-15.71	-16.41	-11.67	56.57	52.54	500.27	49.36	197.86	218.56	95.32	52.75	412.72	64.43	154.87	205.84
27739	-14.48	-17.51	-11.67	58.30	50.40	508.15	46.32	210.43	201.63	102.36	50.28	430.87	59.61	161.84	186.38
27740	-13.17	-18.52	-11.67	61.34	46.43	515.44	44.57	222.96	182.73	109.54	46.44	449.97	55.67	167.14	165.16
27741	-11.79	-19.42	-11.67	65.92	40.87	521.70	42.48	234.11	162.60	117.77	41.27	468.79	51.49	169.67	143.33
27742	-10.35	-20.23	-11.67	71.09	34.74	526.86	39.21	243.46	142.03	126.85	35.75	486.39	46.25	169.52	122.00
27743	-8.85	-20.93	-11.67	75.84	28.82	531.03	34.70	251.04	121.48	136.27	30.66	502.27	39.78	167.34	101.87
27744	-7.30	-21.52	-11.67	79.68	23.51	534.43	29.20	256.95	101.24	145.70	26.31	516.24	32.29	163.89	83.36
27745	-5.72	-21.99	-11.67	82.35	18.97	537.36	22.94	261.12	81.53	154.97	22.65	528.35	24.12	159.84	66.79
27746	-4.11	-22.35	-11.67	83.65	15.45	540.87	15.92	263.52	62.88	163.54	19.62	539.49	15.91	156.08	52.76
27747	-2.47	-22.59	-11.67	84.85	11.64	546.32	8.09	265.24	48.17	171.21	16.10	551.05	11.67	154.07	43.74
27748	-0.83	-22.71	-11.67	86.73	8.18	553.78	3.23	268.10	43.51	178.53	12.48	562.65	19.43	155.25	43.10
27749	-21.43	-9.79	-11.67	24.61	88.39	334.68	48.64	132.76	282.33	27.94	100.57	463.76	55.22	130.93	280.03
27750	-20.65	-11.34	-11.67	32.55	84.87	360.13	54.19	147.90	272.72	37.58	95.02	419.69	62.22	143.06	268.70
27751	-19.76	-12.83	-11.67	38.88	77.33	381.11	55.64	158.32	251.00	46.72	86.32	400.98	65.01	149.14	243.26
27752	-18.76	-14.25	-11.67	42.57	64.38	393.86	52.82	166.54	227.42	54.08	72.83	395.77	64.05	152.48	215.82
27753	-17.66	-15.59	-11.67	45.21	53.35	402.16	48.63	178.54	208.76	60.99	60.25	393.13	61.17	157.43	193.76
27754	-16.47	-16.85	-11.67	48.03	46.71	409.28	45.74	188.69	192.97	67.21	51.25	392.13	57.94	163.89	174.48
27755	-15.18	-18.02	-11.67	53.14	42.68	416.14	45.39	201.66	177.27	74.15	45.21	393.61	55.97	169.58	154.99
27756	-13.81	-19.09	-11.67	61.35	38.54	422.57	46.27	213.74	160.37	83.27	39.90	397.75	55.10	172.36	134.39
27757	-12.37	-20.05	-11.67	71.31	33.26	428.26	46.27	223.95	142.30	94.48	34.00	403.90	53.90	171.49	113.29
27758	-10.86	-20.91	-11.67	81.16	27.18	433.06	44.33	232.21	123.55	106.71	27.55	411.24	51.21	167.42	92.75
27759	-9.29	-21.65	-11.67	89.79	20.97	437.01	40.39	238.75	104.52	119.06	21.10	419.11	46.71	161.09	73.57
27760	-7.67	-22.28	-11.67	96.70	15.22	440.33	34.78	243.76	85.39	131.10	15.17	427.21	40.44	153.55	56.22
27761	-6.01	-22.78	-11.67	101.70	10.21	443.27	27.84	247.27	66.22	142.72	10.13	435.46	32.57	145.86	40.87
27762	-4.32	-23.17	-11.67	104.59	6.56	447.46	20.02	248.87	46.70	153.67	6.70	445.23	23.37	139.21	27.16
27763	-2.60	-23.42	-11.67	108.18	2.57	456.49	11.36	250.12	27.94	163.82	3.70	460.16	12.26	135.25	16.25
27764	-0.87	-23.55	-11.67	112.17	4.12	466.41	3.70	251.40	10.21	174.95	4.91	475.66	4.80	133.61	6.99
27765	-17.76	-9.62	-13.00	255.06	127.76	699.29	118.39	389.27	375.48	326.92	97.68	444.99	122.96	338.89	375.16
27766	-17.06	-10.82	-13.00	227.38	121.57	684.29	115.30	370.85	374.92	305.38	89.80	464.79	121.02	319.92	374.66
27767	-16.27	-11.98	-13.00	218.33	108.72	678.19	107.32	352.85	368.11	303.40	76.00	488.00	113.42	301.13	368.02
27768	-15.40	-13.08	-13.00	228.17	88.73	680.36	99.48	331.36	370.21	321.03	55.99	510.35	105.13	278.78	370.23
27769	-14.46	-14.11	-13.00	239.54	74.26	692.36	95.16	310.85	367.07	340.68	42.57	540.69	99.11	257.36	366.97
27770	-13.44	-15.08	-13.00	242.27	69.68	707.25	95.40	298.92	352.05	352.50	41.13	576.72	97.42	244.58	351.71
27771	-12.37	-15.98	-13.00	236.25	75.44	720.08	94.16	293.87	331.14	356.39	55.00	612.30	94.81	238.49	330.59
27772	-11.23	-16.80	-13.00	224.56	89.63	729.37	88.73	292.12	310.71	355.61	77.28	643.87	88.73	235.35	310.02
27773	-10.04	-17.54	-13.00	209.50	106.40	735.84	80.74	291.57	293.56	352.26	99.74	670.94	81.07	233.13	292.82
27774	-8.80	-18.19	-13.00	192.12	122.39	740.59	72.63	291.60	279.44	347.24	119.46	694.10	74.94	231.31	278.71
27775	-7.52	-18.76	-13.00	173.21	136.41	744.15	65.75	292.01	267.75	341.16	135.92	713.67	72.37	229.72	267.09
27776	-6.20	-19.23	-13.00	153.52	147.92	746.82	60.59	292.58	258.09	334.48	149.03	729.76	74.15	228.22	257.55
27777	-4.86	-19.62	-13.00	133.98	156.53	748.73	57.14	293.17	250.17	327.49	158.64	742.40	79.93	226.76	249.79
27778	-3.49	-19.90	-13.00	115.99	161.72	749.80	55.17	293.86	243.65	320.32	164.41	751.38	88.99	225.54	243.44
27779	-2.10	-20.10	-13.00	102.19	163.19	749.82	54.43	294.89	238.16	313.50	166.34	756.42	100.81	224.93	238.09
27780	-0.70	-20.20	-13.00	95.46	162.23	749.10	54.61	295.91	234.49	307.80	165.98	757.71	114.66	224.75	234.50
27781	-18.68	-9.66	-13.00	219.92	128.72	700.46	120.10	351.13	370.23	272.48	106.48	428.08	126.37	308.15	369.40
27782	-17.95	-10.95	-13.00	192.51	120.91	690.44	115.86	329.87	363.19	250.86	97.70	453.53	123.63	285.62	362.45
27783	-17.14	-12.19	-13.00	179.99	105.28	688.51	104.17	315.81	348.52	244.99	80.91	483.95	112.77	269.91	348.06
27784	-16.24	-13.37	-13.00	187.65	84.20	690.14	93.03	302.52	343.67	260.17	59.46	510.43	101.99	254.86	343.43
27785	-15.26	-14.48	-13.00	200.55	67.08	697.78	83.46	288.62	339.22	281.18	42.85	539.85	91.19	239.23	338.82
27786	-14.20	-15.53	-13.00	206.48	58.70	708.49	79.21	280.95	327.38	295.85	35.99	572.79	84.51	229.91	326.53
27787	-13.07	-16.49	-13.00	203.44	60.14	718.77	77.95	279.76	309.57	302.49	42.39	606.08	80.84	226.94	308.27
27788	-11.88	-17.37	-13.00	194.26	70.84	727.01	74.88	281.91	290.36	304.05	59.63	636.89	75.98	226.99	288.74
27789	-10.62	-18.17	-13.00	181.63	85.70	733.17	69.39	285.11	272.68	303.12	79.39	664.15	69.36	227.79	270.92
27790	-9.32	-18.87	-13.00	166.86	100.65	737.82	63.16	288.47	257.22	300.86	97.56	687.83	63.11	228.57	255.49
27791	-7.96	-19.48	-13.00	150.67	114.00	741.39	57.62	291.66	243.85	297.79	113.02	708.04	59.46	229.11	242.30
27792	-6.57	-19.99	-13.00	133.74	125.15	744.13	53.36	294.45	232.46	294.32	125.55	724.83	59.73	229.30	231.18
27793	-5.14	-20.41	-13.00	116.79	133.71	746.16	50.40	296.59	222.95	290.66	134.94	738.14	64.04	229.03	222.05
27794	-3.69	-20.72	-13.00	100.74	139.01	747.48	48.51	298.10	215.21	286.63	140.60	747.89	71.78	228.50	214.72
27795	-2.22	-20.93	-13.00	87.82	140.40	747.38	47.88	299.81	208.55	282.17	142.19	753.31	82.82	228.68	208.39
27796	-0.74	-21.03	-13.00	81.61	138.99	745.70	48.60	301.90	203.16	278.44	141.30	754.03	96.84	229.89	203.16
27797	-19.60	-9.70	-13.00	165.15	129.67	677.37	117.66	294.70	364.77	200.11	117.56	400.32	125.33	261.33	363.20
27798	-18.85	-11.08	-13.00	146.46	118.75	674.65	113.53	273.29	350.57	186.45	106.24	431.18	122.94	237.96	348.86
27799	-18.01	-12.41	-13.00	136.65	98.79	678.82	100.18	264.13	326.42	182.64	85.20	467.49	110.87	226.19	324.79
27800	-17.08	-13.67	-13.00	143.10	76.26	681.89	88.04	260.09	313.00	196.17	62.05	497.05	100.01	219.29	311.47
27801	-16.06	-14.85	-13.00	154.52	57.42	686.93	76.10	255.88	304.33	215.48	43.27	525.80	88.14	212.33	302.52
27802	-14.95	-15.97	-13.00	160.97	45.36	693.96	66.96	255.64	292.92	230.44	31.68	555.85	77.46	209.46	290.45
27803	-13.77	-17.00	-13.00	159.71	40.04	701.26	61.94	260.09	277.19	238.56	27.85	586.17	69.83	211.14	273.97
27804	-12.52	-17.94	-13.00</												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
27833	-17.66	-15.59	-13.00	50.51	64.42	490.31	61.74	190.10	221.26	70.11	72.80	429.81	78.83	172.43	205.34
27834	-16.47	-16.85	-13.00	52.88	53.51	493.79	54.63	203.72	204.92	79.13	60.53	437.53	73.85	181.19	186.29
27835	-15.18	-18.02	-13.00	54.87	47.46	497.04	48.29	218.02	188.59	87.45	52.66	445.93	68.67	189.70	167.29
27836	-13.81	-19.09	-13.00	57.95	42.77	500.07	43.73	231.36	171.01	96.69	46.40	455.07	64.46	196.15	147.38
27837	-12.37	-20.05	-13.00	62.20	37.80	502.75	39.92	242.89	152.26	107.59	40.19	464.64	60.56	199.90	127.04
27838	-10.86	-20.91	-13.00	66.49	32.72	504.99	35.74	252.55	132.77	119.73	34.07	474.22	55.99	201.34	107.03
27839	-9.29	-21.65	-13.00	69.96	28.03	506.82	30.91	260.52	112.83	132.61	28.56	483.50	50.29	201.15	87.88
27840	-7.67	-22.28	-13.00	72.37	24.00	508.29	25.60	266.90	92.57	146.09	24.04	492.30	43.39	199.97	69.78
27841	-6.01	-22.78	-13.00	73.66	20.93	509.86	19.97	271.60	72.09	160.34	20.85	500.85	35.17	198.34	52.82
27842	-4.32	-23.17	-13.00	73.82	17.70	510.95	14.21	273.94	51.21	176.13	17.81	508.57	25.87	196.18	36.61
27843	-2.60	-23.42	-13.00	72.46	19.91	521.49	10.80	269.76	27.61	193.34	20.04	525.43	16.98	192.04	18.90
27844	-0.87	-23.55	-13.00	76.69	1.17	554.06	8.81	274.32	17.68	196.65	4.32	563.12	10.62	196.46	17.45
27845	-17.76	-9.62	-14.33	469.15	204.52	743.88	179.41	436.24	415.43	535.43	150.77	483.75	186.39	418.20	415.39
27846	-17.06	-10.82	-14.33	360.78	195.40	738.77	135.22	392.49	383.83	434.35	139.41	512.10	140.77	374.26	383.81
27847	-16.27	-11.98	-14.33	309.63	177.66	734.35	117.05	395.23	384.06	391.85	121.22	536.25	124.42	376.78	384.11
27848	-15.40	-13.08	-14.33	333.90	147.23	734.10	117.71	377.41	393.30	426.30	88.52	559.09	125.13	358.69	393.40
27849	-14.46	-14.11	-14.33	380.92	138.91	741.35	127.84	350.84	386.64	484.27	81.17	588.28	131.65	331.78	386.70
27850	-13.44	-15.08	-14.33	405.67	158.28	750.20	145.72	332.50	367.13	520.94	112.72	620.16	146.60	313.13	367.12
27851	-12.37	-15.98	-14.33	407.46	203.66	757.46	156.38	321.07	345.52	535.43	173.18	650.52	156.03	301.30	345.46
27852	-11.23	-16.80	-14.33	393.45	255.88	762.57	156.96	313.68	327.33	535.06	235.53	677.66	156.80	293.39	327.24
27853	-10.04	-17.54	-14.33	370.98	302.16	766.02	152.88	308.36	313.80	526.96	288.30	701.35	154.42	287.45	313.70
27854	-8.80	-18.19	-14.33	343.25	342.35	768.60	148.26	304.34	303.21	514.12	332.90	722.05	153.34	282.74	303.11
27855	-7.52	-18.76	-14.33	312.21	376.36	770.59	144.14	301.38	294.71	498.22	370.10	739.83	154.84	279.01	294.62
27856	-6.20	-19.23	-14.33	279.65	404.08	772.11	140.90	299.20	287.86	480.43	400.23	754.64	159.35	276.01	287.78
27857	-4.86	-19.62	-14.33	247.45	424.95	773.22	138.56	297.62	282.39	461.58	422.91	766.38	166.78	273.60	282.33
27858	-3.49	-19.90	-14.33	218.30	437.48	773.83	136.92	296.64	277.90	442.25	436.84	774.88	176.87	271.87	277.88
27859	-2.10	-20.10	-14.33	196.45	440.48	773.90	135.66	296.39	273.91	423.26	441.04	779.98	189.41	270.82	273.90
27860	-0.70	-20.20	-14.33	185.92	437.20	773.68	134.54	296.63	271.23	405.55	438.90	781.86	204.24	270.49	271.23
27861	-18.68	-9.66	-14.33	477.44	232.03	762.95	191.94	419.73	414.07	522.44	189.76	479.43	200.40	404.96	413.97
27862	-17.95	-10.95	-14.33	383.47	206.74	762.38	147.91	358.66	367.08	435.62	159.42	513.36	154.36	343.37	367.02
27863	-17.14	-12.19	-14.33	335.11	192.55	761.58	126.11	356.00	354.86	395.58	146.44	543.37	133.09	340.11	354.94
27864	-16.24	-13.37	-14.33	334.82	169.46	761.37	113.43	346.38	357.13	404.72	124.86	570.52	120.65	329.83	357.31
27865	-15.26	-14.48	-14.33	356.18	156.65	764.22	112.36	333.38	357.56	436.20	114.46	599.01	117.09	316.10	357.70
27866	-14.20	-15.53	-14.33	368.50	167.32	768.94	122.71	324.14	350.42	459.45	131.36	628.96	124.21	306.10	350.45
27867	-13.07	-16.49	-14.33	364.52	196.53	773.46	132.51	319.68	339.32	467.42	168.83	658.14	131.99	300.82	339.24
27868	-11.88	-17.37	-14.33	348.62	233.33	776.98	135.12	318.00	328.20	464.55	212.74	685.06	133.71	298.26	328.07
27869	-10.62	-18.17	-14.33	326.20	269.09	779.52	131.92	317.58	318.80	456.06	253.92	709.15	130.62	296.90	318.63
27870	-9.32	-18.87	-14.33	300.32	301.12	781.39	126.10	317.76	311.04	444.80	290.01	730.36	126.16	296.09	310.87
27871	-7.96	-19.48	-14.33	272.76	328.92	782.83	119.26	318.29	304.54	432.22	320.96	748.67	122.40	295.62	304.38
27872	-6.57	-19.99	-14.33	244.96	352.09	783.93	112.18	318.95	299.11	419.28	346.64	764.00	120.59	295.31	298.98
27873	-5.14	-20.41	-14.33	218.29	370.01	784.75	105.43	319.51	294.63	406.61	366.57	776.24	121.60	294.93	294.53
27874	-3.69	-20.72	-14.33	194.46	380.28	785.17	99.66	319.85	290.85	394.26	378.38	785.17	126.08	294.46	290.80
27875	-2.22	-20.93	-14.33	177.47	378.24	784.85	95.24	320.57	286.38	382.45	377.63	790.36	134.69	294.49	286.37
27876	-0.74	-21.03	-14.33	171.46	367.26	784.05	91.67	321.79	281.22	372.16	368.06	791.99	147.65	295.27	281.22
27877	-19.60	-9.70	-14.33	471.94	252.48	776.04	200.78	396.63	407.87	499.55	222.09	472.11	209.42	385.99	407.72
27878	-18.85	-11.08	-14.33	381.33	213.78	778.59	151.59	324.98	353.66	415.23	178.61	510.38	158.34	313.39	353.52
27879	-18.01	-12.41	-14.33	334.83	201.03	780.58	127.62	322.23	335.63	376.16	167.28	544.79	134.13	309.56	335.64
27880	-17.08	-13.67	-14.33	325.28	186.88	781.15	111.87	317.83	331.95	375.14	155.93	575.17	118.48	303.99	332.08
27881	-16.06	-14.85	-14.33	332.81	175.68	782.54	104.49	312.13	331.07	392.01	147.80	604.97	109.69	297.05	331.19
27882	-14.95	-15.97	-14.33	336.96	178.32	784.96	106.46	307.95	327.50	406.34	154.26	634.80	108.88	291.57	327.51
27883	-13.77	-17.00	-14.33	329.83	195.29	787.61	111.52	306.62	321.07	410.46	175.68	663.80	111.41	288.91	320.95
27884	-12.52	-17.94	-14.33	313.44	219.96	789.90	113.25	307.22	313.70	406.52	204.58	690.94	111.33	288.13	313.51
27885	-11.20	-18.79	-14.33	291.93	246.05	791.66	110.74	308.66	306.81	398.59	234.23	715.59	107.62	288.19	306.58
27886	-9.83	-19.55	-14.33	268.09	270.44	793.00	105.69	310.37	300.79	389.23	261.50	737.49	102.15	288.53	300.56
27887	-8.41	-20.20	-14.33	243.44	292.07	794.02	99.55	312.09	295.61	379.63	285.45	756.48	96.83	288.95	295.40
27888	-6.94	-20.76	-14.33	219.15	310.27	794.81	93.14	313.67	291.22	370.48	305.56	772.44	93.17	289.32	291.06
27889	-5.43	-21.20	-14.33	196.38	324.89	795.40	86.83	314.91	287.54	362.37	321.80	785.25	92.20	289.49	287.43
27890	-3.90	-21.54	-14.33	175.84	334.26	795.87	81.03	315.10	284.67	355.58	332.37	794.85	94.50	288.81	284.61
27891	-2.35	-21.76	-14.33	160.24	327.87	795.43	77.45	315.23	280.58	348.41	326.77	800.44	101.61	288.40	280.58
27892	-0.78	-21.87	-14.33	157.84	301.47	793.48	74.18	317.81	269.45	341.92	301.60	801.26	114.09	290.62	269.46
27893	-20.51	-9.75	-14.33	436.54	267.78	766.90	213.77	353.95	404.57	451.13	250.10	452.13	220.93	347.56	404.27
27894	-19.75	-11.21	-14.33	340.60	211.04	774.16	153.29	277.93	342.21	359.92	191.10	494.84	159.31	270.15	341.73
27895	-18.89	-12.62	-14.33	302.53	195.74	779.95	125.03	280.58	318.38	327.91	177.48	533.05	130.98	271.18	317.91
27896	-17.92	-13.96	-14.33	294.61	187.91	781.60	106.90	282.04	309.29	327.15	172.39	565.55	113.43	270.89	308.82
27897	-16.86	-15.22	-14.33	296.81	180.30	782.66	94.56	282.80	304.56	337.54	167.35	596.50	100.90	269.81	304.05
27898	-15.71	-16.41	-14.33	296.64	178.65	784.08	88.76	284.34	299.86	346.64	168.00	626.65	93.30	269.46	299.25
27899	-14.48	-17.51	-14.33	288.34	186.03	785.72	87.59	287.48	293.76	348.88	177.47	655.71	89.31	270.68	293.02
27900	-13.17	-18.52	-14.33	273.11	200.03	787.26	86.89	291.71	286.68	345.61	193.27	683.03	85.61	272.98	285.87
27901	-11.79	-19.42</													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
27931	79.86	-0.55	17.16	20.36	15.72	8.28	14.05	14.44	37.07	98.21	25.44	9.06	14.07	6.22	37.23
27932	79.85	-1.65	17.16	19.21	39.38	7.25	23.01	19.40	42.24	92.18	40.67	7.21	23.04	14.29	43.84
27933	80.78	1.65	17.16	17.65	58.04	8.61	21.96	21.77	59.83	83.30	58.81	8.84	22.01	19.07	61.04
27934	80.79	0.55	17.16	18.38	20.93	8.13	13.60	14.22	50.47	86.88	28.03	9.95	13.60	8.61	50.59
27935	80.79	-0.55	17.16	18.38	20.93	8.13	13.60	14.22	50.47	86.87	28.03	9.95	13.60	8.62	50.59
27936	80.78	-1.65	17.16	17.65	58.04	8.61	21.96	21.78	59.83	83.29	58.81	8.84	22.02	19.07	61.04
27937	81.71	1.65	17.16	14.06	70.06	8.52	17.70	28.53	80.59	67.03	70.71	10.07	18.07	34.82	81.67
27938	81.73	0.55	17.16	14.66	23.73	7.54	8.47	15.10	66.66	66.95	29.90	12.06	8.48	23.64	66.76
27939	81.73	-0.55	17.16	14.67	23.73	7.54	8.48	15.10	66.66	66.95	29.90	12.06	8.48	23.64	66.76
27940	81.71	-1.65	17.16	14.06	70.06	8.52	17.71	28.53	80.59	67.03	70.71	10.07	18.07	34.83	81.67
27941	82.64	1.65	17.16	12.43	64.24	7.59	1.59	44.10	114.84	41.86	65.24	11.84	4.04	61.47	115.72
27942	82.67	0.55	17.16	9.68	20.89	7.65	13.39	20.02	99.63	37.46	28.35	14.91	13.39	45.02	99.71
27943	82.67	-0.55	17.16	9.69	20.89	7.65	13.39	20.02	99.63	37.46	28.34	14.91	13.39	45.02	99.71
27944	82.64	-1.65	17.16	12.44	64.23	7.59	1.60	44.11	114.84	41.86	65.23	11.84	4.04	61.48	115.72
27945	83.58	1.65	17.16	20.80	30.48	21.30	59.69	70.24	237.72	20.89	32.19	28.45	59.68	96.69	238.27
27946	83.60	0.55	17.16	10.67	11.08	13.72	79.99	32.20	233.17	10.54	17.96	24.97	79.98	70.23	233.23
27947	83.60	-0.55	17.16	10.68	11.08	13.72	79.98	32.21	233.17	10.55	17.96	24.97	79.98	70.24	233.23
27948	83.58	-1.65	17.16	20.81	30.48	21.29	59.69	70.25	237.72	20.90	32.19	28.45	59.68	96.70	238.27
27949	84.51	1.65	17.16	38.75	13.11	31.01	81.43	78.36	390.44	100.66	9.87	65.54	81.55	161.38	390.77
27950	84.54	0.55	17.16	26.11	10.80	16.13	80.00	35.88	392.67	95.46	7.65	64.83	80.02	146.65	392.70
27951	84.54	-0.55	17.16	26.11	10.80	16.12	80.00	35.90	392.67	95.46	7.65	64.83	80.02	146.66	392.70
27952	84.51	-1.65	17.16	38.76	13.11	31.00	81.43	78.37	390.44	100.67	9.87	65.53	81.55	161.39	390.78
27953	85.44	1.65	17.16	164.52	45.61	11.26	424.96	41.77	277.32	397.87	48.08	70.66	425.09	139.59	277.40
27954	85.48	0.55	17.16	104.67	32.72	9.24	428.05	19.56	277.57	378.65	38.90	72.84	428.06	136.73	277.57
27955	85.48	-0.55	17.16	104.69	32.72	9.24	428.05	19.57	277.57	378.66	38.90	72.84	428.06	136.73	277.58
27956	85.44	-1.65	17.16	164.55	45.61	11.26	424.97	41.78	277.32	397.89	48.08	70.66	425.10	139.59	277.41
27957	86.37	1.65	17.16	130.51	45.24	14.36	282.25	28.43	109.62	314.73	28.86	32.75	282.27	85.17	109.59
27958	86.41	0.55	17.16	88.49	40.03	13.75	285.44	15.59	110.10	300.73	19.84	32.95	285.45	82.62	110.10
27959	86.41	-0.55	17.16	88.50	40.03	13.75	285.44	15.60	110.10	300.74	19.84	32.95	285.45	82.62	110.10
27960	86.37	-1.65	17.16	130.54	45.24	14.36	282.26	28.45	109.62	314.75	28.87	32.75	282.27	85.17	109.59
27961	87.30	1.65	17.16	103.96	47.66	13.60	204.95	20.06	64.23	246.43	32.51	21.14	204.95	55.64	64.20
27962	87.35	0.55	17.16	74.79	45.18	13.31	208.17	12.78	64.98	236.23	28.32	21.10	208.17	53.84	64.98
27963	87.35	-0.55	17.16	74.80	45.18	13.31	208.17	12.79	64.98	236.23	28.32	21.10	208.17	53.84	64.98
27964	87.30	-1.65	17.16	103.98	47.67	13.61	204.95	20.07	64.23	246.45	32.52	21.14	204.95	55.64	64.20
27965	88.23	1.65	17.16	82.99	49.88	12.94	154.71	15.18	46.64	190.39	38.36	15.78	154.71	39.39	46.61
27966	88.29	0.55	17.16	63.08	49.00	12.84	157.48	10.88	47.32	182.96	37.04	15.74	157.48	38.18	47.31
27967	88.29	-0.55	17.16	63.09	49.00	12.84	157.48	10.88	47.32	182.97	37.04	15.74	157.49	38.18	47.31
27968	88.23	-1.65	17.16	83.00	49.88	12.94	154.71	15.19	46.64	190.40	38.36	15.78	154.71	39.40	46.61
27969	89.17	1.65	17.16	65.87	51.73	12.72	118.68	12.09	38.46	143.46	41.97	13.92	118.68	29.99	38.43
27970	89.22	0.55	17.16	52.42	51.80	12.69	120.73	9.24	38.97	137.97	42.12	13.90	120.73	29.10	38.96
27971	89.22	-0.55	17.16	52.42	51.80	12.69	120.73	9.24	38.97	137.97	42.12	13.90	120.73	29.10	38.96
27972	89.17	-1.65	17.16	65.88	51.73	12.72	118.68	12.10	38.46	143.47	41.97	13.92	118.68	29.99	38.43
27973	90.10	1.65	17.16	51.00	53.14	12.77	90.89	9.94	34.64	103.25	43.13	13.53	90.86	23.70	34.63
27974	90.16	0.55	17.16	41.95	53.68	12.75	92.15	7.74	35.00	99.07	44.00	13.52	92.14	22.93	35.00
27975	90.16	-0.55	17.16	41.95	53.69	12.75	92.15	7.74	35.00	99.07	44.00	13.52	92.14	22.93	35.00
27976	90.10	-1.65	17.16	51.01	53.14	12.77	90.89	9.94	34.64	103.26	43.13	13.53	90.87	23.70	34.63
27977	91.03	1.65	17.16	37.14	54.03	12.97	67.83	8.43	33.56	68.38	41.96	13.90	67.75	18.45	33.58
27978	91.10	0.55	17.16	31.05	54.73	12.96	68.35	6.51	33.81	65.11	43.08	13.90	68.34	17.61	33.81
27979	91.10	-0.55	17.16	31.05	54.73	12.96	68.35	6.51	33.81	65.11	43.08	13.90	68.34	17.61	33.82
27980	91.03	-1.65	17.16	37.14	54.03	12.97	67.83	8.44	33.57	68.38	41.96	13.90	67.76	18.45	33.58
27981	91.96	1.65	17.16	23.45	54.41	13.23	47.01	7.51	35.07	38.26	38.43	14.83	46.84	13.13	35.14
27982	92.04	0.55	17.16	19.42	55.02	13.22	46.83	5.70	35.27	35.77	39.51	14.86	46.81	12.00	35.27
27983	92.04	-0.55	17.16	19.42	55.02	13.22	46.83	5.71	35.27	35.78	39.50	14.86	46.81	12.00	35.28
27984	91.96	-1.65	17.16	23.46	54.42	13.23	47.01	7.51	35.07	38.26	38.43	14.83	46.84	13.13	35.14
27985	92.89	1.65	17.16	9.69	54.44	13.49	26.30	6.81	40.78	13.07	32.88	15.41	25.84	7.84	40.99
27986	92.97	0.55	17.16	7.09	54.80	13.48	25.23	4.89	40.89	11.36	33.31	15.45	25.18	5.96	40.92
27987	92.97	-0.55	17.16	7.09	54.80	13.48	25.23	4.89	40.89	11.36	33.31	15.45	25.18	5.96	40.92
27988	92.89	-1.65	17.16	9.69	54.44	13.49	26.30	6.81	40.78	13.07	32.87	15.41	25.84	7.84	40.99
27989	78.93	1.65	15.47	24.66	10.50	18.78	18.32	49.99	57.36	128.38	30.11	21.58	18.99	50.18	59.56
27990	78.93	0.55	15.47	25.02	9.37	21.41	14.11	43.13	58.36	130.97	29.83	25.13	14.22	43.55	58.62
27991	78.93	-0.55	15.47	25.02	9.37	21.41	14.12	43.13	58.36	130.97	29.83	25.13	14.22	43.55	58.62
27992	78.93	-1.65	15.47	24.66	10.50	18.78	18.33	50.00	57.36	128.37	30.11	21.58	18.99	50.18	59.56
27993	79.89	1.65	15.47	24.45	12.38	19.25	19.34	50.95	80.71	126.32	28.66	22.62	19.71	37.54	82.17
27994	79.90	0.55	15.47	24.44	10.40	21.63	15.68	42.96	81.43	128.60	27.98	26.20	15.74	26.16	81.61
27995	79.90	-0.55	15.47	24.44	10.40	21.63	15.69	42.96	81.43	128.60	27.98	26.20	15.74	26.16	81.61
27996	79.89	-1.65	15.47	24.45	12.38	19.25	19.35	50.96	80.72	126.32	28.66	22.62	19.71	37.55	82.17
27997	80.85	1.65	15.47	24.70	14.59	20.50	21.59	52.95	105.91	124.63	27.30	24.19	21.72	33.99	107.07
27998	80.86	0.55	15.47	24.15	12.05	21.84	18.76	42.63	105.73	126.30	26.10	27.58	18.78	14.09	105.87
27999	80.86	-0.55	15.47	24.15	12.05	21.84	18.76	42.63	105.73	126.30	26.10	27.58	18.78	14.09	105.87
28000	80.85	-1.65	15.47	24.70	14.59	20.50	21.59	52.95	105.91	124.63	27.30	24.19	21.73	34.00	107.07
28001	81.80	1.65	15.47	26.62	16.03	21.24	25.57	56.94	135.07	125.77	25.50	24.76	25.57	41.56	136.09
28002	81.82	0.55	15.47	25.01	13.95	21.87	23.40	42.50	133.63	126.69	24.22	28.38	23.40	18.57	133.75
28003	81.82	-0.55	15.47	25.01											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
28029	88.51	1.65	15.47	52.12	44.41	38.09	116.82	34.56	110.87	143.07	35.04	46.11	116.82	70.97	110.82
28030	88.56	0.55	15.47	38.74	43.62	37.86	119.12	28.90	112.18	139.68	33.95	46.15	119.12	69.16	112.18
28031	88.56	-0.55	15.47	38.75	43.62	37.86	119.12	28.90	112.18	139.68	33.95	46.15	119.12	69.16	112.18
28032	88.51	-1.65	15.47	52.12	44.42	38.10	116.83	34.57	110.88	143.08	35.04	46.11	116.82	70.97	110.83
28033	89.47	1.65	15.47	44.47	46.39	38.38	96.65	30.03	99.05	119.52	34.70	42.98	96.64	61.74	99.01
28034	89.53	0.55	15.47	34.08	46.31	38.27	98.40	25.32	100.05	116.78	34.63	43.02	98.40	60.09	100.05
28035	89.53	-0.55	15.47	34.08	46.32	38.27	98.40	25.32	100.05	116.78	34.63	43.02	98.40	60.09	100.05
28036	89.47	-1.65	15.47	44.48	46.40	38.38	96.66	30.04	99.05	119.53	34.70	42.98	96.64	61.74	99.01
28037	90.43	1.65	15.47	36.20	48.22	39.02	78.27	25.89	93.46	93.78	32.87	42.91	78.23	52.89	93.45
28038	90.49	0.55	15.47	28.36	48.55	38.96	79.41	21.65	94.20	91.53	33.36	42.98	79.41	51.21	94.20
28039	90.49	-0.55	15.47	28.36	48.55	38.96	79.41	21.66	94.21	91.53	33.36	42.98	79.41	51.21	94.20
28040	90.43	-1.65	15.47	36.21	48.23	39.02	78.27	25.90	93.47	93.78	32.87	42.91	78.23	52.89	93.46
28041	91.39	1.65	15.47	27.78	49.94	39.80	61.72	22.35	92.77	67.72	29.73	44.92	61.64	44.14	92.81
28042	91.45	0.55	15.47	21.94	50.44	39.76	62.29	18.21	93.33	65.80	30.43	45.03	62.28	42.20	93.34
28043	91.45	-0.55	15.47	21.94	50.44	39.76	62.29	18.21	93.33	65.80	30.43	45.03	62.28	42.20	93.34
28044	91.39	-1.65	15.47	27.78	49.94	39.80	61.72	22.35	92.77	67.72	29.73	44.92	61.64	44.14	92.81
28045	92.35	1.65	15.47	19.22	51.60	40.53	46.81	19.59	96.77	42.05	25.62	48.47	46.67	35.06	96.91
28046	92.42	0.55	15.47	14.86	52.10	40.49	46.85	15.25	97.30	40.31	26.25	48.63	46.83	32.56	97.31
28047	92.42	-0.55	15.47	14.86	52.10	40.49	46.85	15.25	97.30	40.31	26.25	48.63	46.83	32.56	97.31
28048	92.35	-1.65	15.47	19.22	51.61	40.53	46.81	19.60	96.78	42.06	25.62	48.47	46.67	35.06	96.91
28049	93.30	1.65	15.47	10.52	53.25	41.46	33.92	17.57	106.28	17.38	21.33	52.43	33.66	25.20	106.54
28050	93.38	0.55	15.47	7.00	53.71	41.39	33.37	12.82	106.67	15.42	21.48	52.63	33.34	21.63	106.70
28051	93.38	-0.55	15.47	7.00	53.72	41.39	33.37	12.82	106.67	15.42	21.48	52.63	33.34	21.63	106.70
28052	93.30	-1.65	15.47	10.53	53.25	41.46	33.92	17.57	106.28	17.38	21.33	52.43	33.66	25.20	106.55
28053	78.94	1.65	13.78	33.98	16.10	33.20	15.53	75.88	82.48	176.33	45.28	45.53	16.56	71.49	83.44
28054	78.94	0.55	13.78	33.61	15.16	33.38	15.21	71.53	83.69	177.49	44.09	45.54	15.33	67.60	83.81
28055	78.94	-0.55	13.78	33.61	15.16	33.38	15.21	71.54	83.69	177.49	44.08	45.54	15.33	67.60	83.81
28056	78.94	-1.65	13.78	33.98	16.10	33.20	15.54	75.88	82.49	176.32	45.28	45.53	16.57	71.49	83.44
28057	79.93	1.65	13.78	33.61	16.78	33.91	17.55	76.31	102.44	171.47	42.55	46.01	18.25	55.33	103.12
28058	79.93	0.55	13.78	32.75	15.95	34.25	17.48	71.62	104.41	172.49	41.42	46.26	17.56	49.17	104.49
28059	79.93	-0.55	13.78	32.75	15.95	34.25	17.48	71.62	104.41	172.49	41.42	46.26	17.56	49.17	104.49
28060	79.93	-1.65	13.78	33.61	16.78	33.91	17.56	76.32	102.44	171.47	42.55	46.01	18.25	55.33	103.12
28061	80.91	1.65	13.78	34.26	18.21	35.47	21.93	76.66	122.70	167.79	39.98	45.33	22.28	43.19	123.23
28062	80.92	0.55	13.78	32.59	17.44	35.69	22.25	71.49	125.21	168.66	38.78	45.75	22.28	33.80	125.28
28063	80.92	-0.55	13.78	32.59	17.44	35.69	22.25	71.49	125.21	168.66	38.78	45.75	22.29	33.80	125.28
28064	80.91	-1.65	13.78	34.27	18.21	35.47	21.94	76.66	122.70	167.79	39.98	45.33	22.29	43.19	123.23
28065	81.90	1.65	13.78	36.45	20.43	37.77	29.83	76.77	142.54	165.29	37.70	42.65	29.94	35.91	142.97
28066	81.91	0.55	13.78	33.40	19.60	37.67	30.61	71.27	145.36	165.83	36.33	42.89	30.62	23.00	145.42
28067	81.91	-0.55	13.78	33.40	19.60	37.67	30.61	71.27	145.36	165.83	36.33	42.89	30.62	23.01	145.42
28068	81.90	-1.65	13.78	36.45	20.43	37.77	29.84	76.77	142.55	165.28	37.70	42.65	29.94	35.92	142.97
28069	82.88	1.65	13.78	40.06	23.42	40.87	43.20	76.10	158.60	162.14	35.99	38.87	43.20	31.00	158.92
28070	82.90	0.55	13.78	34.90	22.50	40.53	44.55	71.01	161.34	161.94	34.49	38.56	44.55	16.12	161.38
28071	82.90	-0.55	13.78	34.90	22.50	40.53	44.55	71.01	161.34	161.94	34.49	38.56	44.55	16.13	161.38
28072	82.88	-1.65	13.78	40.06	23.42	40.87	43.21	76.11	158.61	162.14	35.99	38.87	43.20	31.01	158.92
28073	83.87	1.65	13.78	41.78	26.84	44.67	56.81	74.41	168.88	154.65	34.99	40.07	56.79	27.69	169.09
28074	83.89	0.55	13.78	34.79	25.82	44.31	58.31	70.21	171.28	153.58	33.46	39.53	58.31	13.63	171.31
28075	83.89	-0.55	13.78	34.80	25.82	44.31	58.31	70.21	171.28	153.58	33.46	39.53	58.31	13.64	171.31
28076	83.87	-1.65	13.78	41.78	26.84	44.67	56.81	74.41	168.89	154.65	34.99	40.07	56.80	27.70	169.09
28077	84.85	1.65	13.78	40.98	30.24	48.96	68.45	71.42	174.96	143.67	34.99	49.03	68.44	33.95	175.06
28078	84.88	0.55	13.78	32.99	29.14	48.60	70.25	67.46	177.02	142.05	33.49	48.88	70.25	24.82	177.03
28079	84.88	-0.55	13.78	33.00	29.14	48.60	70.25	67.46	177.02	142.05	33.49	48.88	70.25	24.82	177.04
28080	84.85	-1.65	13.78	40.99	30.24	48.96	68.45	71.43	174.96	143.67	35.00	49.03	68.44	33.96	175.07
28081	85.84	1.65	13.78	42.23	34.02	53.31	84.21	67.12	171.61	140.94	34.75	58.99	84.20	45.35	171.64
28082	85.87	0.55	13.78	32.72	32.83	52.98	85.95	63.49	173.56	138.67	33.23	59.31	85.95	40.26	173.56
28083	85.87	-0.55	13.78	32.72	32.83	52.98	85.95	63.49	173.56	138.67	33.23	59.32	85.95	40.26	173.56
28084	85.84	-1.65	13.78	42.24	34.02	53.32	84.22	67.13	171.61	140.94	34.75	58.99	84.21	45.35	171.64
28085	86.82	1.65	13.78	39.21	37.08	57.20	85.99	62.17	163.54	129.92	35.04	65.51	85.97	57.81	163.53
28086	86.86	0.55	13.78	30.20	36.08	56.89	87.84	58.62	165.44	127.96	33.78	65.98	87.84	54.89	165.43
28087	86.86	-0.55	13.78	30.20	36.08	56.89	87.84	58.62	165.44	127.96	33.78	65.98	87.84	54.89	165.44
28088	86.82	-1.65	13.78	39.22	37.09	57.20	85.99	62.17	163.54	129.93	35.04	65.51	85.97	57.81	163.53
28089	87.81	1.65	13.78	37.75	40.02	60.25	87.02	56.83	154.71	124.54	34.05	68.14	87.00	68.42	154.68
28090	87.85	0.55	13.78	29.11	39.32	60.01	88.84	55.05	156.40	122.94	33.15	68.51	88.84	66.40	156.40
28091	87.85	-0.55	13.78	29.12	39.32	60.01	88.84	55.05	156.40	122.94	33.15	68.51	88.84	66.40	156.40
28092	87.81	-1.65	13.78	37.76	40.02	60.25	87.02	56.84	154.72	124.55	34.05	68.14	87.00	68.43	154.69
28093	88.79	1.65	13.78	35.54	42.61	62.54	81.88	51.46	145.67	114.98	32.54	68.40	81.85	71.48	145.63
28094	88.84	0.55	13.78	27.68	42.30	62.38	83.46	47.59	147.07	113.59	32.12	68.66	83.46	69.70	147.06
28095	88.84	-0.55	13.78	27.68	42.30	62.38	83.46	47.59	147.07	113.60	32.12	68.66	83.46	69.71	147.07
28096	88.79	-1.65	13.78	35.55	42.61	62.54	81.88	51.47	145.67	114.98	32.54	68.40	81.85	71.48	145.64
28097	89.78	1.65	13.78	32.17	45.05	64.58	73.57	46.02	139.50	100.69	30.25	69.79	73.53	69.62	139.48
28098	89.83	0.55	13.78	25.36	45.08	64.48	74.81	42.14	140.62	99.41	30.24	70.02	74.81	67.84	140.62
28099	89.83	-0.55	13.78	25.36	45.08	64.48	74.81	42.14	140.62	99.41	30.24	70.02	74.81	67.84	140.62
28100	89.78	-1.65	13.78	32.18	45.06	64.58	73.57	46.03	139.51	100.69	30.25	6			



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
28127	80.99	-0.55	12.09	38.84	22.21	51.84	20.99	99.59	138.81	200.88	48.01	67.79	21.05	49.38	138.84
28128	80.98	-1.65	12.09	40.24	22.41	52.79	20.48	101.91	137.55	199.98	48.17	69.06	20.98	53.41	137.83
28129	81.99	1.65	12.09	39.80	24.31	56.33	26.68	101.06	151.07	189.38	45.44	65.29	26.88	40.25	151.27
28130	82.01	0.55	12.09	37.63	24.07	55.51	27.39	98.82	152.51	190.00	45.21	64.08	27.41	34.73	152.53
28131	82.01	-0.55	12.09	37.64	24.07	55.50	27.39	98.82	152.51	190.00	45.21	64.07	27.42	34.74	152.53
28132	81.99	-1.65	12.09	39.80	24.31	56.32	26.69	101.07	151.07	189.38	45.44	65.29	26.88	40.26	151.28
28133	83.00	1.65	12.09	39.18	26.63	60.56	34.07	99.43	162.27	177.77	43.06	61.61	34.11	29.71	162.41
28134	83.02	0.55	12.09	36.21	26.33	59.90	34.91	97.30	163.85	178.07	42.73	60.49	34.92	22.07	163.87
28135	83.02	-0.55	12.09	36.22	26.33	59.90	34.92	97.30	163.86	178.07	42.74	60.49	34.92	22.07	163.87
28136	83.00	-1.65	12.09	39.18	26.63	60.56	34.08	99.43	162.27	177.77	43.06	61.61	34.12	29.72	162.41
28137	84.01	1.65	12.09	38.23	29.24	65.25	42.29	96.74	170.50	165.46	41.08	60.49	42.27	24.89	170.59
28138	84.04	0.55	12.09	34.52	28.85	64.74	43.31	94.68	172.20	165.42	40.66	59.61	43.31	15.61	172.21
28139	84.04	-0.55	12.09	34.52	28.85	64.73	43.31	94.69	172.20	165.42	40.66	59.61	43.31	15.62	172.21
28140	84.01	-1.65	12.09	38.23	29.24	65.25	42.30	96.75	170.50	165.46	41.08	60.49	42.27	24.90	170.59
28141	85.02	1.65	12.09	37.12	32.05	70.16	50.69	92.99	174.74	153.90	39.24	63.07	50.65	29.58	174.79
28142	85.05	0.55	12.09	32.72	31.59	69.77	51.81	90.97	176.49	153.54	38.76	62.55	51.81	23.07	176.50
28143	85.05	-0.55	12.09	32.72	31.59	69.77	51.81	90.97	176.49	153.54	38.76	62.54	51.81	23.08	176.50
28144	85.02	-1.65	12.09	37.13	32.06	70.16	50.69	92.99	174.74	153.90	39.24	63.07	50.65	29.59	174.79
28145	86.04	1.65	12.09	35.21	34.82	75.06	56.22	88.18	176.00	141.51	37.55	68.36	56.18	40.94	176.02
28146	86.07	0.55	12.09	30.49	34.37	74.76	57.45	86.08	177.71	141.00	37.08	68.18	57.45	36.95	177.71
28147	86.07	-0.55	12.09	30.49	34.37	74.76	57.46	86.08	177.71	141.00	37.08	68.18	57.45	36.95	177.72
28148	86.04	-1.65	12.09	35.21	34.82	75.06	56.23	88.18	176.01	141.51	37.55	68.36	56.18	40.95	176.02
28149	87.05	1.65	12.09	33.72	37.63	79.72	60.77	82.52	174.77	131.44	35.52	74.43	60.72	53.15	174.76
28150	87.09	0.55	12.09	28.72	37.25	79.50	62.00	80.26	176.36	130.83	35.12	74.48	62.00	50.47	176.36
28151	87.09	-0.55	12.09	28.72	37.26	79.50	62.00	80.27	176.37	130.83	35.12	74.48	62.00	50.48	176.37
28152	87.05	-1.65	12.09	33.73	37.63	79.72	60.78	82.53	174.77	131.44	35.53	74.43	60.73	53.16	174.77
28153	88.06	1.65	12.09	31.73	40.35	84.08	61.78	76.35	172.16	120.10	33.30	80.30	61.73	62.77	172.15
28154	88.10	0.55	12.09	26.78	40.11	83.91	62.94	73.91	173.61	119.48	33.02	80.49	62.94	60.76	173.60
28155	88.10	-0.55	12.09	26.78	40.11	83.91	62.94	73.91	173.61	119.48	33.02	80.49	62.94	60.76	173.61
28156	88.06	-1.65	12.09	31.74	40.35	84.08	61.78	76.36	172.17	120.10	33.30	80.30	61.73	62.78	172.15
28157	89.07	1.65	12.09	29.64	43.07	88.14	60.77	69.83	169.80	108.33	30.64	86.30	60.71	69.09	169.78
28158	89.12	0.55	12.09	24.87	42.99	88.02	61.80	67.15	171.06	107.70	30.49	86.56	61.79	67.33	171.06
28159	89.12	-0.55	12.09	24.87	42.99	88.02	61.80	67.16	171.06	107.70	30.49	86.56	61.79	67.33	171.06
28160	89.07	-1.65	12.09	29.65	43.08	88.14	60.77	69.83	169.80	108.33	30.64	86.30	60.71	69.10	169.78
28161	90.08	1.65	12.09	27.20	45.82	91.91	58.09	63.11	168.50	94.81	27.70	93.12	58.02	71.42	168.49
28162	90.14	0.55	12.09	22.69	45.88	91.83	58.93	60.18	169.59	94.10	27.66	93.45	58.92	69.65	169.59
28163	90.14	-0.55	12.09	22.69	45.88	91.83	58.93	60.18	169.59	94.10	27.66	93.45	58.93	69.65	169.59
28164	90.08	-1.65	12.09	27.21	45.83	91.91	58.09	63.11	168.51	94.81	27.70	93.12	58.02	71.43	168.50
28165	91.09	1.65	12.09	24.25	48.63	95.35	54.58	56.24	169.03	79.22	24.64	101.84	54.51	70.25	169.04
28166	91.15	0.55	12.09	20.00	48.80	95.30	55.22	53.01	169.98	78.35	24.68	102.28	55.21	68.28	169.98
28167	91.15	-0.55	12.09	20.00	48.80	95.30	55.22	53.01	169.99	78.35	24.68	102.28	55.21	68.28	169.99
28168	91.09	-1.65	12.09	24.25	48.63	95.36	54.59	56.25	169.03	79.22	24.64	101.84	54.51	70.26	169.05
28169	92.10	1.65	12.09	20.77	51.53	98.40	51.11	49.26	171.71	61.80	21.77	113.35	51.03	66.12	171.76
28170	92.17	0.55	12.09	16.69	51.78	98.36	51.54	45.58	172.60	60.67	21.84	113.94	51.54	63.77	172.61
28171	92.17	-0.55	12.09	16.69	51.78	98.36	51.55	45.59	172.60	60.67	21.84	113.94	51.54	63.77	172.61
28172	92.10	-1.65	12.09	20.77	51.54	98.41	51.12	49.27	171.72	61.81	21.77	113.34	51.03	66.12	171.77
28173	93.12	1.65	12.09	16.89	54.55	101.11	48.40	42.24	176.56	42.97	19.57	128.45	48.32	59.40	176.65
28174	93.18	0.55	12.09	12.78	54.83	101.07	48.67	37.90	177.51	41.41	19.66	129.26	48.66	56.47	177.52
28175	93.18	-0.55	12.09	12.78	54.83	101.07	48.67	37.90	177.51	41.42	19.66	129.26	48.66	56.47	177.53
28176	93.12	-1.65	12.09	16.89	54.55	101.11	48.41	42.25	176.57	42.97	19.57	128.45	48.32	59.41	176.66
28177	94.13	1.65	12.09	13.11	57.62	103.81	47.10	35.64	183.72	23.29	18.72	148.08	47.04	50.62	183.86
28178	94.20	0.55	12.09	8.80	57.99	103.75	47.14	30.39	184.50	20.86	18.81	149.15	47.13	46.85	184.52
28179	94.20	-0.55	12.09	8.80	57.99	103.75	47.14	30.39	184.51	20.86	18.81	149.15	47.13	46.85	184.52
28180	94.13	-1.65	12.09	13.11	57.63	103.81	47.11	35.65	183.73	23.29	18.72	148.07	47.04	50.62	183.87
28181	78.97	1.65	10.41	49.40	23.53	64.07	11.80	128.10	129.90	258.83	59.35	99.46	14.38	94.85	130.20
28182	78.97	0.55	10.41	49.25	23.52	62.46	12.00	127.02	130.50	260.43	59.57	97.80	12.32	94.20	130.54
28183	78.97	-0.55	10.41	49.25	23.52	62.46	12.00	127.03	130.50	260.43	59.57	97.80	12.32	94.20	130.54
28184	78.97	-1.65	10.41	49.40	23.53	64.07	11.81	128.10	129.90	258.83	59.35	99.45	14.39	94.85	130.20
28185	80.01	1.65	10.41	46.87	24.22	66.19	13.88	128.18	142.19	242.15	55.83	97.93	15.47	75.81	142.41
28186	80.01	0.55	10.41	46.39	24.22	64.75	14.18	127.09	142.97	243.47	56.01	96.36	14.36	74.53	142.99
28187	80.01	-0.55	10.41	46.39	24.22	64.75	14.18	127.09	142.97	243.47	56.01	96.36	14.37	74.53	142.99
28188	80.01	-1.65	10.41	46.87	24.22	66.19	13.89	128.19	142.19	242.14	55.83	97.92	15.48	75.82	142.41
28189	81.04	1.65	10.41	44.64	25.43	69.67	17.25	127.50	153.79	225.99	52.41	94.61	18.09	58.54	153.95
28190	81.06	0.55	10.41	43.78	25.42	68.43	17.65	126.39	154.73	227.06	52.54	93.11	17.75	56.50	154.74
28191	81.06	-0.55	10.41	43.78	25.42	68.43	17.65	126.40	154.73	227.06	52.54	93.11	17.75	56.50	154.74
28192	81.04	-1.65	10.41	44.65	25.43	69.67	17.26	127.50	153.79	225.99	52.41	94.60	18.09	58.55	153.95
28193	82.08	1.65	10.41	42.61	27.08	74.22	21.71	125.95	164.22	210.16	49.15	90.21	22.09	43.18	164.33
28194	82.10	0.55	10.41	41.33	27.03	73.20	22.21	124.84	165.30	210.98	49.21	88.80	22.25	40.10	165.31
28195	82.10	-0.55	10.41	41.33	27.03	73.20	22.21	124.84	165.30	210.98	49.21	88.80	22.26	40.10	165.31
28196	82.08	-1.65	10.41	42.61	27.08	74.22	21.72	125.95	164.22	210.16	49.15	90.21	22.09	43.19	164.33
28197	83.12	1.65	10.41	40.66	29.07	79.54	27.01	123.43	173.00	194.61	46.08	85.90	27.14	30.86	173.07
28198	83.14	0.55	10.41	38.95	28.										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
28225	90.39	1.65	10.41	26.08	47.36	120.79	49.31	80.60	191.53	96.53	26.46	115.10	49.22	73.84	191.53
28226	90.44	0.55	10.41	22.89	47.41	120.67	49.90	78.32	192.58	96.05	26.33	115.42	49.89	72.16	192.58
28227	90.44	-0.55	10.41	22.89	47.41	120.67	49.90	78.33	192.58	96.05	26.33	115.42	49.89	72.16	192.58
28228	90.39	-1.65	10.41	26.09	47.37	120.80	49.32	80.61	191.54	96.53	26.46	115.09	49.22	73.84	191.54
28229	91.42	1.65	10.41	23.39	50.38	125.97	49.15	72.15	193.69	80.77	24.09	129.09	49.06	74.90	193.70
28230	91.48	0.55	10.41	20.12	50.49	125.88	49.63	69.53	194.67	80.07	23.98	129.64	49.62	73.04	194.67
28231	91.48	-0.55	10.41	20.12	50.49	125.88	49.63	69.54	194.67	80.08	23.98	129.64	49.62	73.05	194.68
28232	91.42	-1.65	10.41	23.40	50.38	125.97	49.16	72.16	193.70	80.77	24.09	129.08	49.07	74.90	193.71
28233	92.46	1.65	10.41	20.41	53.53	130.77	49.10	63.28	196.97	63.64	22.42	146.73	49.03	72.93	197.01
28234	92.52	0.55	10.41	16.98	53.68	130.71	49.49	60.20	197.94	62.64	22.33	147.56	49.48	70.74	197.95
28235	92.52	-0.55	10.41	16.98	53.68	130.71	49.49	60.20	197.95	62.64	22.33	147.56	49.48	70.74	197.95
28236	92.46	-1.65	10.41	20.42	53.53	130.77	49.11	63.29	196.98	63.64	22.42	146.73	49.03	72.94	197.02
28237	93.50	1.65	10.41	17.32	56.82	135.24	49.63	54.11	201.39	45.22	21.84	168.57	49.58	68.29	201.46
28238	93.57	0.55	10.41	13.60	56.99	135.20	49.96	50.36	202.46	43.75	21.78	169.72	49.95	65.59	202.46
28239	93.57	-0.55	10.41	13.60	56.99	135.20	49.96	50.36	202.46	43.75	21.78	169.72	49.95	65.59	202.47
28240	93.50	-1.65	10.41	17.32	56.83	135.25	49.64	54.11	201.40	45.22	21.84	168.56	49.58	68.30	201.47
28241	94.54	1.65	10.41	14.60	60.20	139.55	51.24	45.21	207.11	26.06	22.64	194.92	51.22	61.54	207.20
28242	94.61	0.55	10.41	10.58	60.44	139.51	51.42	40.59	207.99	23.70	22.61	196.45	51.42	58.19	208.00
28243	94.61	-0.55	10.41	10.58	60.44	139.51	51.42	40.59	208.00	23.70	22.61	196.45	51.42	58.20	208.01
28244	94.54	-1.65	10.41	14.60	60.21	139.56	51.24	45.21	207.12	26.07	22.64	194.91	51.22	61.55	207.22
28245	78.98	1.65	8.72	55.00	25.82	79.02	9.48	154.15	152.26	288.91	60.66	128.19	13.33	96.03	152.43
28246	78.98	0.55	8.72	54.96	25.86	77.19	9.36	153.68	152.91	290.72	60.91	126.55	9.88	95.90	152.93
28247	78.98	-0.55	8.72	54.96	25.86	77.19	9.37	153.68	152.91	290.72	60.91	126.54	9.89	95.90	152.93
28248	78.98	-1.65	8.72	55.00	25.82	79.02	9.49	154.16	152.26	288.91	60.66	128.18	13.35	96.03	152.43
28249	80.05	1.65	8.72	51.47	26.50	81.76	11.40	154.08	162.10	266.74	56.87	125.68	13.82	76.79	162.22
28250	80.05	0.55	8.72	51.20	26.54	80.11	11.43	153.58	162.87	268.23	57.08	124.10	11.73	76.20	162.89
28251	80.05	-0.55	8.72	51.20	26.54	80.11	11.43	153.58	162.88	268.23	57.08	124.10	11.73	76.20	162.89
28252	80.05	-1.65	8.72	51.47	26.50	81.76	11.41	154.08	162.10	266.74	56.87	125.67	13.83	76.80	162.22
28253	81.11	1.65	8.72	48.30	27.64	86.12	14.22	152.97	171.39	246.05	53.12	121.52	15.56	59.31	171.47
28254	81.12	0.55	8.72	47.77	27.65	84.69	14.37	152.44	172.28	247.24	53.27	120.00	14.53	58.13	172.29
28255	81.12	-0.55	8.72	47.77	27.65	84.69	14.38	152.44	172.28	247.24	53.27	120.00	14.54	58.13	172.29
28256	81.11	-1.65	8.72	48.30	27.64	86.11	14.23	152.98	171.39	246.04	53.12	121.52	15.56	59.32	171.47
28257	82.18	1.65	8.72	45.43	29.17	91.76	17.80	150.79	179.80	226.66	49.46	116.37	18.45	43.90	179.86
28258	82.19	0.55	8.72	44.63	29.15	90.57	18.06	150.21	180.80	227.60	49.55	114.90	18.14	41.92	180.81
28259	82.19	-0.55	8.72	44.63	29.15	90.56	18.07	150.21	180.80	227.60	49.55	114.90	18.14	41.92	180.81
28260	82.18	-1.65	8.72	45.43	29.16	91.75	17.81	150.80	179.81	226.66	49.46	116.37	18.46	43.91	179.86
28261	83.24	1.65	8.72	42.81	31.01	98.32	21.91	147.51	187.08	208.47	45.94	111.05	22.17	32.07	187.12
28262	83.26	0.55	8.72	41.74	30.95	97.35	22.26	146.86	188.17	209.18	45.97	109.65	22.29	28.93	188.18
28263	83.26	-0.55	8.72	41.74	30.95	97.35	22.26	146.86	188.17	209.18	45.97	109.65	22.29	28.94	188.18
28264	83.24	-1.65	8.72	42.81	31.01	98.32	21.92	147.51	187.09	208.47	45.94	111.04	22.18	32.08	187.12
28265	84.30	1.65	8.72	40.38	33.10	105.50	26.24	143.11	193.10	191.39	42.57	106.51	26.31	27.52	193.11
28266	84.33	0.55	8.72	39.05	33.01	104.72	26.67	142.38	194.25	191.90	42.54	105.21	26.67	23.54	194.25
28267	84.33	-0.55	8.72	39.05	33.01	104.72	26.67	142.38	194.25	191.90	42.54	105.21	26.68	23.55	194.25
28268	84.30	-1.65	8.72	40.38	33.09	105.49	26.25	143.12	193.11	191.39	42.58	106.50	26.31	27.54	193.12
28269	85.37	1.65	8.72	38.09	35.39	113.03	30.53	137.65	197.82	175.39	39.34	103.66	30.49	32.45	197.82
28270	85.40	0.55	8.72	36.53	35.29	112.41	31.01	136.80	199.00	175.72	39.25	102.53	31.00	29.07	199.00
28271	85.40	-0.55	8.72	36.53	35.29	112.41	31.01	136.81	199.01	175.72	39.26	102.53	31.01	29.07	199.01
28272	85.37	-1.65	8.72	38.09	35.39	113.02	30.54	137.66	197.83	175.39	39.35	103.66	30.50	32.46	197.83
28273	86.43	1.65	8.72	35.90	37.84	120.74	34.43	131.21	201.42	160.20	36.26	103.28	34.34	42.63	201.41
28274	86.47	0.55	8.72	34.13	37.73	120.25	34.94	130.22	202.60	160.40	36.12	102.36	34.93	40.13	202.60
28275	86.47	-0.55	8.72	34.13	37.73	120.25	34.94	130.22	202.60	160.40	36.12	102.36	34.93	40.13	202.60
28276	86.43	-1.65	8.72	35.90	37.84	120.73	34.44	131.22	201.43	160.20	36.26	103.28	34.35	42.64	201.42
28277	87.50	1.65	8.72	33.76	40.43	128.49	37.84	123.91	204.16	145.67	33.33	105.93	37.72	53.87	204.14
28278	87.54	0.55	8.72	31.81	40.34	128.11	38.36	122.75	205.32	145.74	33.15	105.26	38.35	51.93	205.31
28279	87.54	-0.55	8.72	31.81	40.34	128.11	38.36	122.75	205.32	145.74	33.15	105.26	38.35	51.93	205.32
28280	87.50	-1.65	8.72	33.76	40.43	128.49	37.85	123.92	204.17	145.67	33.33	105.93	37.73	53.87	204.15
28281	88.56	1.65	8.72	31.58	43.15	136.21	40.63	115.87	206.41	131.26	30.61	112.06	40.50	64.10	206.38
28282	88.60	0.55	8.72	29.48	43.08	135.91	41.14	114.51	207.52	131.20	30.41	111.66	41.12	62.47	207.52
28283	88.60	-0.55	8.72	29.48	43.08	135.91	41.14	114.51	207.52	131.20	30.41	111.66	41.13	62.48	207.52
28284	88.56	-1.65	8.72	31.58	43.15	136.21	40.64	115.88	206.42	131.26	30.62	112.05	40.51	64.10	206.39
28285	89.63	1.65	8.72	29.30	45.99	143.82	42.92	107.17	208.53	116.58	28.23	122.08	42.79	72.33	208.51
28286	89.67	0.55	8.72	27.05	45.96	143.58	43.39	105.58	209.59	116.39	28.00	121.98	43.38	70.84	209.59
28287	89.67	-0.55	8.72	27.05	45.96	143.58	43.40	105.58	209.59	116.39	28.01	121.98	43.38	70.84	209.59
28288	89.63	-1.65	8.72	29.30	46.00	143.82	42.93	107.17	208.54	116.58	28.23	122.08	42.80	72.34	208.52
28289	90.69	1.65	8.72	26.83	48.97	151.25	44.87	97.85	210.84	101.16	26.34	136.41	44.75	77.99	210.83
28290	90.74	0.55	8.72	24.41	48.97	151.07	45.30	96.00	211.86	100.80	26.12	136.64	45.28	76.48	211.86
28291	90.74	-0.55	8.72	24.42	48.97	151.07	45.30	96.01	211.86	100.80	26.12	136.64	45.29	76.48	211.86
28292	90.69	-1.65	8.72	26.84	48.98	151.26	44.88	97.86	210.85	101.17	26.34	136.40	44.76	77.99	210.84
28293	91.76	1.65	8.72	24.15	52.09	158.46	46.73	87.93	213.57	84.69	25.16	155.37	46.64	80.79	213.57
28294	91.81	0.55	8.72	21.53	52.13	158.32	47.11	85.75	214.56	84.09	24.95	155.97	47.10	79.13	214.56
28295	91.81	-0.55	8.72	21.53	52.13	158.32	47.11	85.76	214.57	84.09	24.96	155.96	47.10	79.13	214.

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
28323	82.28	-0.55	7.03	46.83	30.52	107.94	15.06	175.36	197.54	236.64	46.87	141.13	15.18	42.18	197.54
28324	82.27	-1.65	7.03	47.41	30.56	109.30	15.03	175.64	196.58	235.68	46.84	142.61	16.01	43.57	196.59
28325	83.36	1.65	7.03	44.49	32.35	117.33	18.57	171.58	202.80	216.03	43.18	136.30	19.01	33.47	202.80
28326	83.38	0.55	7.03	43.71	32.29	116.20	18.71	171.22	203.83	216.76	43.15	134.85	18.77	31.27	203.83
28327	83.38	-0.55	7.03	43.71	32.29	116.20	18.72	171.22	203.83	216.76	43.15	134.85	18.77	31.28	203.83
28328	83.36	-1.65	7.03	44.48	32.35	117.32	18.59	171.58	202.81	216.03	43.19	136.29	19.01	33.49	202.81
28329	84.45	1.65	7.03	41.91	34.40	126.11	22.37	166.31	208.15	198.13	39.75	130.32	22.50	30.30	208.15
28330	84.47	0.55	7.03	40.94	34.31	125.18	22.59	165.85	209.22	198.67	39.65	128.92	22.60	27.52	209.22
28331	84.47	-0.55	7.03	40.94	34.31	125.18	22.59	165.85	209.22	198.67	39.65	128.92	22.60	27.53	209.22
28332	84.45	-1.65	7.03	41.90	34.40	126.10	22.38	166.32	208.16	198.13	39.75	130.31	22.51	30.31	208.15
28333	85.54	1.65	7.03	39.59	36.65	135.34	26.22	159.91	212.65	181.68	36.57	125.52	26.19	35.23	212.63
28334	85.57	0.55	7.03	38.44	36.54	134.59	26.49	159.32	213.74	182.06	36.41	124.21	26.49	32.69	213.74
28335	85.57	-0.55	7.03	38.44	36.54	134.59	26.49	159.32	213.74	182.06	36.41	124.21	26.49	32.70	213.74
28336	85.54	-1.65	7.03	39.59	36.65	135.34	26.23	159.91	212.66	181.68	36.57	125.51	26.20	35.24	212.64
28337	86.63	1.65	7.03	37.45	39.08	144.82	29.98	152.47	216.39	166.34	33.72	122.88	29.87	44.93	216.36
28338	86.66	0.55	7.03	36.14	38.97	144.22	30.29	151.74	217.48	166.60	33.50	121.71	30.28	42.88	217.47
28339	86.66	-0.55	7.03	36.14	38.97	144.22	30.29	151.74	217.48	166.60	33.50	121.71	30.28	42.88	217.48
28340	86.63	-1.65	7.03	37.45	39.08	144.82	29.99	152.48	216.40	166.34	33.72	122.88	29.87	44.94	216.37
28341	87.72	1.65	7.03	35.38	41.67	154.41	33.54	144.12	219.54	151.66	31.27	123.56	33.39	56.04	219.51
28342	87.76	0.55	7.03	33.92	41.56	153.91	33.88	143.22	220.61	151.80	31.01	122.59	33.86	54.36	220.60
28343	87.76	-0.55	7.03	33.92	41.56	153.91	33.88	143.22	220.61	151.80	31.01	122.59	33.86	54.36	220.61
28344	87.72	-1.65	7.03	35.38	41.67	154.41	33.55	144.13	219.55	151.66	31.27	123.55	33.40	56.05	219.52
28345	88.81	1.65	7.03	33.29	44.40	164.01	36.89	134.98	222.30	137.17	29.33	128.74	36.73	66.78	222.27
28346	88.86	0.55	7.03	31.68	44.31	163.60	37.23	133.89	223.34	137.19	29.05	128.05	37.22	65.33	223.34
28347	88.86	-0.55	7.03	31.68	44.31	163.60	37.24	133.89	223.35	137.19	29.05	128.04	37.22	65.33	223.34
28348	88.81	-1.65	7.03	33.29	44.40	164.01	36.90	134.99	222.31	137.17	29.33	128.73	36.74	66.78	222.28
28349	89.90	1.65	7.03	31.06	47.28	173.59	40.06	125.12	224.89	122.31	28.04	139.54	39.91	76.13	224.86
28350	89.95	0.55	7.03	29.30	47.20	173.25	40.40	123.81	225.91	122.19	27.75	139.19	40.39	74.79	225.90
28351	89.95	-0.55	7.03	29.30	47.20	173.25	40.41	123.82	225.91	122.19	27.75	139.19	40.39	74.79	225.91
28352	89.90	-1.65	7.03	31.06	47.28	173.59	40.07	125.13	224.91	122.31	28.04	139.53	39.92	76.13	224.87
28353	91.00	1.65	7.03	28.63	50.30	183.13	43.15	114.60	227.49	106.61	27.49	156.70	43.02	83.41	227.45
28354	91.05	0.55	7.03	26.69	50.23	182.85	43.48	113.04	228.48	106.31	27.22	156.77	43.47	82.08	228.47
28355	91.05	-0.55	7.03	26.69	50.24	182.85	43.48	113.05	228.48	106.31	27.22	156.77	43.47	82.08	228.48
28356	91.00	-1.65	7.03	28.63	50.30	183.14	43.16	114.61	227.50	106.61	27.50	156.69	43.03	83.41	227.47
28357	92.09	1.65	7.03	25.99	53.47	192.64	46.29	103.40	230.19	89.67	27.76	180.45	46.20	88.11	230.17
28358	92.14	0.55	7.03	23.82	53.42	192.42	46.61	101.55	231.18	89.15	27.53	180.99	46.60	86.68	231.17
28359	92.14	-0.55	7.03	23.82	53.43	192.42	46.61	101.56	231.18	89.15	27.53	180.99	46.60	86.68	231.18
28360	92.09	-1.65	7.03	25.99	53.48	192.65	46.30	103.41	230.21	89.67	27.77	180.44	46.20	88.12	230.19
28361	93.18	1.65	7.03	23.24	56.82	202.11	49.62	91.54	233.04	71.36	28.83	210.47	49.58	89.87	233.03
28362	93.24	0.55	7.03	20.78	56.78	201.93	49.95	89.31	234.04	70.51	28.64	211.54	49.95	88.23	234.04
28363	93.24	-0.55	7.03	20.78	56.79	201.94	49.95	89.32	234.05	70.52	28.64	211.53	49.95	88.23	234.05
28364	93.18	-1.65	7.03	23.24	56.83	202.12	49.63	91.55	233.05	71.36	28.84	210.46	49.58	89.87	233.05
28365	94.27	1.65	7.03	20.62	60.37	211.49	53.29	79.11	235.94	51.80	30.61	245.97	53.30	88.45	235.96
28366	94.33	0.55	7.03	17.81	60.32	211.37	53.67	76.40	237.06	50.49	30.45	247.59	53.67	86.48	237.06
28367	94.33	-0.55	7.03	17.81	60.32	211.37	53.67	76.40	237.06	50.49	30.46	247.58	53.67	86.48	237.06
28368	94.27	-1.65	7.03	20.63	60.38	211.50	53.30	79.12	235.96	51.80	30.61	245.95	53.31	88.45	235.98
28369	95.36	1.65	7.03	18.53	64.09	220.69	57.57	66.54	239.14	31.90	32.99	285.75	57.62	83.93	239.19
28370	95.43	0.55	7.03	15.40	64.07	220.61	57.88	63.23	240.04	29.80	32.87	287.92	57.89	81.56	240.05
28371	95.43	-0.55	7.03	15.40	64.07	220.62	57.88	63.23	240.05	29.81	32.87	287.91	57.89	81.56	240.06
28372	95.36	-1.65	7.03	18.53	64.10	220.71	57.57	66.55	239.16	31.91	33.00	285.73	57.63	83.93	239.21
28373	79.01	1.65	5.34	60.34	27.77	108.48	5.95	206.65	194.42	311.73	53.03	183.83	12.37	81.99	194.44
28374	79.01	0.55	5.34	60.39	27.73	106.24	4.98	206.73	195.20	313.60	53.11	182.28	6.17	82.08	195.20
28375	79.01	-0.55	5.34	60.39	27.73	106.24	4.98	206.73	195.20	313.60	53.12	182.28	6.18	82.09	195.20
28376	79.01	-1.65	5.34	60.34	27.77	108.48	5.96	206.65	194.42	311.73	53.04	183.82	12.38	82.00	194.45
28377	80.13	1.65	5.34	55.48	28.48	112.57	7.78	206.11	201.28	282.34	49.15	179.87	11.98	67.71	201.29
28378	80.13	0.55	5.34	55.35	28.42	110.53	7.22	206.17	202.13	283.82	49.19	178.33	7.84	67.54	202.13
28379	80.13	-0.55	5.34	55.35	28.42	110.52	7.22	206.17	202.13	283.82	49.19	178.33	7.85	67.54	202.13
28380	80.13	-1.65	5.34	55.48	28.48	112.57	7.79	206.12	201.28	282.33	49.16	179.86	11.99	67.72	201.29
28381	81.24	1.65	5.34	51.32	29.61	119.02	10.25	204.08	207.75	256.65	45.32	174.51	12.69	54.72	207.75
28382	81.25	0.55	5.34	51.02	29.53	117.22	9.95	204.09	208.66	257.81	45.30	172.98	10.27	54.21	208.66
28383	81.25	-0.55	5.34	51.02	29.53	117.21	9.96	204.09	208.66	257.81	45.31	172.98	10.27	54.21	208.66
28384	81.24	-1.65	5.34	51.32	29.61	119.01	10.26	204.09	207.75	256.65	45.32	174.50	12.70	54.73	207.75
28385	82.36	1.65	5.34	47.80	31.11	127.34	13.23	200.59	213.70	234.17	41.65	168.10	14.52	43.54	213.70
28386	82.38	0.55	5.34	47.32	31.01	125.80	13.11	200.52	214.67	235.07	41.58	166.58	13.26	42.57	214.67
28387	82.38	-0.55	5.34	47.32	31.01	125.79	13.11	200.53	214.68	235.07	41.58	166.58	13.27	42.57	214.68
28388	82.36	-1.65	5.34	47.80	31.10	127.33	13.25	200.59	213.71	234.17	41.66	168.09	14.52	43.56	213.70
28389	83.48	1.65	5.34	44.85	32.91	137.01	16.60	195.67	219.06	214.45	38.25	161.09	17.20	35.60	219.04
28390	83.50	0.55	5.34	44.20	32.79	135.72	16.59	195.52	220.07	215.12	38.11	159.57	16.66	34.05	220.07
28391	83.50	-0.55	5.34	44.20	32.79	135.71	16.60	195.52	220.07	215.12	38.11	159.57	16.67	34.05	220.07
28392	83.48	-1.65	5.34	44.85	32.91	137.00	16.61	195.68	219.07	214.45	38.26	161.07	17.21	35.62	219.05
28393	84.60	1.65	5.34	42.39	34.97	147.58	20.22	189.41	223.77	197.04	35.22	154.01	20.44		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
28421	92.42	1.65	5.34	28.81	54.35	228.04	47.24	118.48	244.52	95.74	32.05	203.58	47.15	96.27	244.47
28422	92.47	0.55	5.34	26.96	54.22	227.70	47.53	116.87	245.47	95.30	31.84	203.98	47.52	95.06	245.47
28423	92.47	-0.55	5.34	26.96	54.22	227.71	47.54	116.87	245.48	95.30	31.84	203.97	47.53	95.06	245.47
28424	92.42	-1.65	5.34	28.81	54.36	228.05	47.26	118.49	244.54	95.74	32.05	203.56	47.16	96.27	244.50
28425	93.54	1.65	5.34	26.14	57.74	240.32	51.36	105.69	246.90	77.17	34.28	240.42	51.33	100.44	246.87
28426	93.59	0.55	5.34	24.03	57.62	240.04	51.69	103.77	247.88	76.41	34.13	241.45	51.68	99.11	247.87
28427	93.59	-0.55	5.34	24.03	57.62	240.05	51.69	103.77	247.88	76.41	34.13	241.45	51.69	99.11	247.88
28428	93.54	-1.65	5.34	26.14	57.75	240.33	51.37	105.70	246.92	77.17	34.29	240.40	51.34	100.45	246.90
28429	94.65	1.65	5.34	23.47	61.35	252.82	55.66	92.24	249.14	56.93	36.83	284.28	55.69	100.74	249.14
28430	94.71	0.55	5.34	21.06	61.20	252.62	56.05	89.92	250.22	55.73	36.74	285.98	56.06	99.16	250.22
28431	94.71	-0.55	5.34	21.07	61.20	252.62	56.06	89.92	250.23	55.73	36.74	285.97	56.06	99.16	250.23
28432	94.65	-1.65	5.34	23.47	61.36	252.84	55.67	92.25	249.16	56.94	36.84	284.25	55.70	100.74	249.16
28433	95.77	1.65	5.34	21.23	65.12	265.21	60.29	78.30	251.42	35.93	39.53	332.47	60.39	96.29	251.46
28434	95.84	0.55	5.34	18.56	65.00	265.08	60.64	75.52	252.28	34.02	39.46	334.85	60.65	94.38	252.29
28435	95.84	-0.55	5.34	18.56	65.01	265.08	60.64	75.52	252.29	34.02	39.47	334.84	60.65	94.39	252.30
28436	95.77	-1.65	5.34	21.23	65.13	265.23	60.30	78.31	251.44	35.93	39.54	332.43	60.39	96.30	251.48
28437	64.01	1.65	17.16	6.87	59.30	11.84	16.71	3.15	11.95	6.69	91.76	12.22	17.08	5.96	13.41
28438	63.93	0.55	17.16	5.99	60.30	11.77	16.08	3.00	11.58	5.92	93.88	12.16	16.13	6.46	11.76
28439	63.93	-0.55	17.16	5.99	60.30	11.77	16.08	3.00	11.59	5.92	93.87	12.16	16.13	6.46	11.77
28440	64.01	-1.65	17.16	6.87	59.29	11.84	16.71	3.15	11.95	6.69	91.75	12.22	17.08	5.96	13.42
28441	64.94	1.65	17.16	18.03	59.44	12.89	37.38	3.71	6.03	12.21	106.19	19.21	37.35	6.40	9.25
28442	64.86	0.55	17.16	16.68	60.11	12.85	37.77	3.50	5.53	10.72	108.69	19.41	37.76	5.78	6.01
28443	64.86	-0.55	17.16	16.68	60.11	12.85	37.77	3.50	5.53	10.72	108.69	19.41	37.76	5.78	6.02
28444	64.94	-1.65	17.16	18.03	59.44	12.89	37.38	3.71	6.03	12.21	106.18	19.21	37.35	6.40	9.25
28445	65.87	1.65	17.16	28.73	58.93	13.25	58.32	5.43	3.90	14.38	117.26	21.27	58.26	20.26	8.04
28446	65.80	0.55	17.16	26.54	59.05	13.22	59.31	5.08	3.32	9.02	119.72	21.54	59.30	19.88	4.08
28447	65.80	-0.55	17.16	26.54	59.05	13.22	59.31	5.08	3.32	9.02	119.72	21.53	59.30	19.88	4.09
28448	65.87	-1.65	17.16	28.73	58.92	13.25	58.32	5.43	3.90	14.38	117.25	21.27	58.26	20.25	8.05
28449	66.80	1.65	17.16	39.47	57.85	13.32	80.99	7.74	3.82	29.80	123.23	21.18	80.98	35.54	7.63
28450	66.74	0.55	17.16	35.83	57.12	13.29	82.54	7.19	3.39	23.51	125.42	21.43	82.54	35.48	4.06
28451	66.74	-0.55	17.16	35.83	57.11	13.29	82.54	7.19	3.39	23.51	125.42	21.43	82.54	35.48	4.06
28452	66.80	-1.65	17.16	39.47	57.85	13.32	80.99	7.74	3.82	29.80	123.22	21.18	80.99	35.53	7.64
28453	67.73	1.65	17.16	51.11	56.34	13.36	107.43	10.32	6.04	61.80	123.30	21.05	107.53	51.18	8.45
28454	67.68	0.55	17.16	45.04	54.33	13.30	109.54	9.34	5.91	55.74	124.75	21.28	109.55	51.43	6.24
28455	67.68	-0.55	17.16	45.04	54.33	13.30	109.54	9.34	5.91	55.74	124.75	21.28	109.55	51.42	6.24
28456	67.73	-1.65	17.16	51.11	56.34	13.36	107.43	10.32	6.04	61.80	123.29	21.05	107.53	51.18	8.46
28457	68.67	1.65	17.16	64.82	54.49	13.56	140.67	13.39	12.26	107.87	116.47	22.45	140.90	68.52	13.26
28458	68.61	0.55	17.16	54.85	50.69	13.44	143.22	11.44	12.37	101.48	116.54	22.68	143.24	69.00	12.49
28459	68.61	-0.55	17.16	54.85	50.69	13.44	143.22	11.44	12.37	101.48	116.53	22.68	143.24	68.99	12.49
28460	68.67	-1.65	17.16	64.82	54.49	13.56	140.67	13.39	12.26	107.86	116.46	22.45	140.90	68.51	13.26
28461	69.60	1.65	17.16	81.97	52.26	14.13	185.90	17.78	26.98	168.17	101.06	27.63	186.31	91.21	27.32
28462	69.55	0.55	17.16	66.03	46.13	13.82	188.54	13.74	27.18	161.00	98.80	27.99	188.59	91.91	27.22
28463	69.55	-0.55	17.16	66.03	46.13	13.82	188.54	13.74	27.18	161.00	98.79	27.99	188.59	91.91	27.22
28464	69.60	-1.65	17.16	81.97	52.26	14.13	185.90	17.78	26.98	168.16	101.05	27.62	186.31	91.21	27.32
28465	70.53	1.65	17.16	103.94	49.50	14.71	254.46	25.11	66.62	244.12	74.67	39.84	255.20	126.37	66.83
28466	70.49	0.55	17.16	79.27	40.30	14.07	256.59	16.88	66.52	235.77	68.10	40.74	256.68	127.47	66.54
28467	70.49	-0.55	17.16	79.27	40.30	14.07	256.59	16.88	66.52	235.77	68.10	40.74	256.68	127.47	66.54
28468	70.53	-1.65	17.16	103.95	49.51	14.71	254.46	25.11	66.62	244.10	74.67	39.84	255.20	126.36	66.83
28469	71.46	1.65	17.16	132.07	47.70	9.80	380.34	37.20	215.71	336.53	42.69	83.20	381.97	187.52	216.58
28470	71.42	0.55	17.16	94.36	31.73	9.42	381.54	20.63	215.02	326.25	22.43	88.12	381.72	190.00	215.12
28471	71.42	-0.55	17.16	94.36	31.73	9.42	381.54	20.63	215.02	326.24	22.43	88.12	381.72	190.00	215.12
28472	71.46	-1.65	17.16	132.08	47.70	9.80	380.34	37.20	215.71	336.51	42.69	83.19	381.98	187.50	216.58
28473	72.39	1.65	17.16	31.14	13.23	23.53	75.35	67.61	317.14	83.82	15.59	92.30	76.41	205.87	318.96
28474	72.36	0.55	17.16	24.26	9.63	20.32	73.79	38.14	317.52	79.53	11.02	100.99	73.92	201.31	317.73
28475	72.36	-0.55	17.16	24.26	9.63	20.32	73.79	38.15	317.53	79.53	11.02	100.98	73.92	201.30	317.73
28476	72.39	-1.65	17.16	31.14	13.23	23.53	75.35	67.62	317.14	83.81	15.59	92.29	76.42	205.85	318.96
28477	73.32	1.65	17.16	23.33	23.10	15.19	47.32	58.96	182.80	41.64	35.33	46.22	47.87	121.93	185.29
28478	73.30	0.55	17.16	14.27	8.33	14.38	64.48	33.03	177.27	48.48	33.28	49.72	64.50	106.49	177.53
28479	73.30	-0.55	17.16	14.28	8.33	14.38	64.48	33.03	177.27	48.48	33.28	49.72	64.50	106.49	177.53
28480	73.32	-1.65	17.16	23.34	23.10	15.19	47.32	58.96	182.80	41.64	35.32	46.22	47.87	121.93	185.29
28481	74.26	1.65	17.16	14.83	50.45	8.16	5.70	38.01	74.61	18.58	56.62	5.47	15.29	94.05	78.75
28482	74.23	0.55	17.16	8.74	16.57	7.42	7.33	20.80	59.77	7.60	40.74	8.77	8.23	85.17	60.20
28483	74.23	-0.55	17.16	8.74	16.57	7.42	7.33	20.80	59.77	7.61	40.74	8.77	8.23	85.17	60.20
28484	74.26	-1.65	17.16	14.84	50.45	8.16	5.70	38.01	74.61	18.58	56.62	5.47	15.30	94.04	78.75
28485	75.19	1.65	17.16	14.17	54.05	10.32	19.44	25.55	43.68	48.67	57.64	9.55	25.47	69.15	49.05
28486	75.17	0.55	17.16	13.22	18.68	7.25	11.17	15.65	29.70	43.87	37.36	9.23	12.00	63.81	30.38
28487	75.17	-0.55	17.16	13.23	18.68	7.25	11.17	15.65	29.70	43.87	37.36	9.23	12.00	63.81	30.38
28488	75.19	-1.65	17.16	14.17	54.05	10.32	19.44	25.55	43.68	48.67	57.64	9.55	25.48	69.15	49.05
28489	76.12	1.65	17.16	16.33	41.91	10.25	22.76	20.35	24.51	71.40	45.03	9.94	27.98	51.43	30.95
28490	76.11	0.55	17.16	17.50	15.94	7.98	15.01	14.47	14.36	71.89	32.67	8.70	15.65	47.32	15.37
28491	76.11	-0.55	17.16	17.50	15.94	7.98	15.01	14.47	14.36	71.89	32.67	8.70	15.65	47.32	15.37
28492	76.12	-1.65	17.16	16.34	41.91	10.25	22.77	20.35	24.51	71.40	45.03	9.94	27.98	51.43	30.95
28493	77.05	1.65	17.16	17.95</											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
28519	67.37	-0.55	15.47	31.67	48.96	40.48	80.53	26.40	8.81	98.73	95.63	78.80	80.54	133.02	10.10
28520	67.43	-1.65	15.47	35.84	50.05	40.74	78.74	27.78	9.55	99.65	94.74	77.57	78.86	131.98	17.42
28521	68.39	1.65	15.47	42.90	47.83	40.50	99.02	32.73	17.68	128.61	93.80	77.56	99.23	158.33	22.05
28522	68.34	0.55	15.47	37.01	45.58	40.05	101.26	30.55	17.63	127.67	93.90	78.75	101.29	160.05	18.18
28523	68.34	-0.55	15.47	37.01	45.58	40.05	101.26	30.55	17.63	127.67	93.89	78.74	101.29	160.05	18.18
28524	68.39	-1.65	15.47	42.90	47.83	40.50	99.02	32.73	17.69	128.61	93.79	77.55	99.24	158.32	22.06
28525	69.35	1.65	15.47	48.34	45.30	40.47	119.31	37.58	34.51	151.71	88.45	83.00	119.68	180.72	36.60
28526	69.30	0.55	15.47	40.66	41.64	39.62	121.83	34.18	34.89	150.54	87.29	84.39	121.87	183.02	35.13
28527	69.30	-0.55	15.47	40.67	41.64	39.62	121.83	34.18	34.89	150.54	87.29	84.39	121.87	183.01	35.13
28528	69.35	-1.65	15.47	48.34	45.30	40.47	119.31	37.58	34.51	151.70	88.45	82.99	119.69	180.71	36.60
28529	70.30	1.65	15.47	49.90	41.80	39.76	132.25	42.12	62.66	159.31	78.72	97.05	132.91	193.62	63.97
28530	70.26	0.55	15.47	41.23	36.86	38.33	134.70	37.41	63.25	157.46	75.98	99.40	134.77	196.21	63.40
28531	70.26	-0.55	15.47	41.23	36.86	38.33	134.70	37.41	63.25	157.46	75.98	99.40	134.77	196.20	63.40
28532	70.30	-1.65	15.47	49.90	41.80	39.76	132.26	42.12	62.66	159.30	78.72	97.04	132.91	193.61	63.98
28533	71.26	1.65	15.47	44.50	35.13	34.85	104.12	45.86	80.56	133.79	70.44	99.32	105.17	174.64	82.01
28534	71.23	0.55	15.47	37.87	30.88	33.45	105.81	40.90	81.05	130.29	67.66	102.84	105.94	175.80	81.21
28535	71.23	-0.55	15.47	37.87	30.88	33.45	105.81	40.90	81.05	130.28	67.66	102.84	105.94	175.80	81.21
28536	71.26	-1.65	15.47	44.50	35.14	34.86	104.12	45.86	80.57	133.78	70.43	99.32	105.18	174.63	82.01
28537	72.22	1.65	15.47	55.34	29.39	27.71	109.47	48.89	87.38	157.89	57.08	73.87	111.27	143.68	89.67
28538	72.19	0.55	15.47	46.93	26.17	27.06	109.00	42.73	86.53	152.01	54.27	76.24	109.21	140.83	86.80
28539	72.19	-0.55	15.47	46.93	26.17	27.06	109.00	42.73	86.53	152.00	54.27	76.24	109.22	140.82	86.80
28540	72.22	-1.65	15.47	55.34	29.39	27.71	109.47	48.89	87.38	157.88	57.07	73.87	111.28	143.67	89.67
28541	73.18	1.65	15.47	47.32	20.95	23.96	70.83	53.76	94.99	158.87	46.11	34.64	73.26	142.09	98.72
28542	73.15	0.55	15.47	42.64	19.86	23.82	70.32	41.41	92.37	156.20	44.29	33.16	70.62	134.97	92.81
28543	73.15	-0.55	15.47	42.64	19.86	23.82	70.33	41.41	92.37	156.20	44.29	33.15	70.63	134.97	92.81
28544	73.18	-1.65	15.47	47.33	20.96	23.96	70.83	53.76	94.99	158.86	46.11	34.64	73.26	142.09	98.72
28545	74.14	1.65	15.47	33.25	15.58	23.04	34.62	55.47	72.67	141.51	40.78	18.39	37.43	136.55	78.52
28546	74.12	0.55	15.47	32.50	15.43	21.49	32.60	41.75	69.16	141.34	39.71	14.53	32.97	129.01	69.89
28547	74.12	-0.55	15.47	32.50	15.43	21.49	32.60	41.75	69.17	141.34	39.71	14.53	32.97	129.01	69.89
28548	74.14	-1.65	15.47	33.25	15.58	23.04	34.62	55.47	72.68	141.50	40.78	18.39	37.43	136.54	78.52
28549	75.10	1.65	15.47	28.16	13.58	24.36	25.71	52.74	40.08	132.92	38.03	21.71	28.05	124.14	48.93
28550	75.08	0.55	15.47	28.24	13.17	21.21	23.34	41.70	36.33	133.57	37.33	20.34	23.67	118.85	37.57
28551	75.08	-0.55	15.47	28.24	13.17	21.21	23.34	41.70	36.33	133.57	37.33	20.34	23.67	118.85	37.57
28552	75.10	-1.65	15.47	28.17	13.58	24.36	25.72	52.75	40.08	132.91	38.03	21.71	28.06	124.13	48.93
28553	76.05	1.65	15.47	26.42	11.99	23.84	21.77	50.47	14.26	130.45	35.55	23.27	23.57	105.41	28.42
28554	76.04	0.55	15.47	26.70	11.34	21.40	18.83	41.99	10.46	131.72	35.00	22.92	19.09	101.35	13.47
28555	76.04	-0.55	15.47	26.70	11.34	21.40	18.83	41.99	10.46	131.72	35.00	22.92	19.09	101.35	13.47
28556	76.05	-1.65	15.47	26.42	11.99	23.84	21.77	50.48	14.27	130.44	35.55	23.27	23.58	105.41	28.42
28557	77.01	1.65	15.47	25.58	10.42	21.83	19.46	49.58	13.18	130.09	33.46	22.59	20.84	85.63	24.70
28558	77.01	0.55	15.47	26.06	9.91	21.41	15.77	42.52	13.26	132.07	33.15	23.81	15.98	81.70	15.11
28559	77.01	-0.55	15.47	26.06	9.91	21.41	15.77	42.53	13.26	132.07	33.15	23.81	15.98	81.70	15.11
28560	77.01	-1.65	15.47	25.58	10.42	21.83	19.47	49.58	13.18	130.09	33.46	22.59	20.85	85.63	24.69
28561	77.97	1.65	15.47	25.04	9.76	19.77	18.36	49.55	34.86	129.68	31.70	21.65	19.37	66.89	39.19
28562	77.97	0.55	15.47	25.57	9.19	21.34	14.15	42.97	35.74	132.16	31.52	24.39	14.31	62.23	36.28
28563	77.97	-0.55	15.47	25.57	9.19	21.34	14.15	42.97	35.74	132.16	31.52	24.39	14.31	62.23	36.28
28564	77.97	-1.65	15.47	25.04	9.76	19.77	18.37	49.55	34.86	129.68	31.70	21.65	19.38	66.88	39.19
28565	63.18	1.65	13.78	5.80	60.42	61.97	10.99	18.05	19.35	13.99	52.94	110.30	10.64	46.79	29.21
28566	63.11	0.55	13.78	5.25	60.92	61.40	10.31	17.45	17.74	13.20	53.71	111.11	10.27	45.22	19.21
28567	63.11	-0.55	13.78	5.25	60.92	61.39	10.31	17.45	17.75	13.20	53.70	111.11	10.27	45.22	19.23
28568	63.18	-1.65	13.78	5.80	60.42	61.97	10.99	18.05	19.37	13.99	52.93	110.28	10.65	46.79	29.24
28569	64.17	1.65	13.78	11.68	57.37	67.53	19.92	25.42	11.21	36.23	60.42	145.37	20.13	95.01	25.28
28570	64.10	0.55	13.78	10.96	57.74	67.14	19.89	24.75	8.92	35.36	61.40	147.53	19.92	94.21	11.75
28571	64.10	-0.55	13.78	10.96	57.74	67.14	19.89	24.75	8.93	35.36	61.40	147.53	19.92	94.21	11.78
28572	64.17	-1.65	13.78	11.68	57.37	67.53	19.92	25.42	11.23	36.23	60.41	145.35	20.13	95.01	25.32
28573	65.15	1.65	13.78	17.94	54.32	70.03	30.14	32.45	6.74	65.77	67.76	159.53	30.61	138.08	23.73
28574	65.09	0.55	13.78	16.98	54.58	69.72	30.55	31.75	3.00	65.22	68.65	162.33	30.60	138.22	8.23
28575	65.09	-0.55	13.78	16.98	54.58	69.72	30.55	31.75	3.02	65.22	68.65	162.32	30.61	138.22	8.27
28576	65.15	-1.65	13.78	17.94	54.31	70.03	30.14	32.45	6.76	65.77	67.75	159.51	30.62	138.07	23.77
28577	66.14	1.65	13.78	24.25	51.34	70.16	41.09	39.04	5.98	99.36	73.94	158.04	41.68	175.28	22.86
28578	66.08	0.55	13.78	22.98	51.37	69.84	41.90	38.27	2.41	99.34	74.79	160.93	41.96	176.39	7.81
28579	66.08	-0.55	13.78	22.98	51.37	69.84	41.90	38.27	2.43	99.34	74.79	160.93	41.96	176.39	7.84
28580	66.14	-1.65	13.78	24.25	51.34	70.15	41.09	39.04	6.00	99.35	73.94	158.03	41.68	175.27	22.89
28581	67.12	1.65	13.78	30.15	48.41	68.74	52.13	45.13	5.69	131.83	78.57	147.98	52.78	204.98	21.55
28582	67.07	0.55	13.78	28.52	48.06	68.33	53.32	44.20	2.46	132.35	79.26	150.68	53.40	206.97	7.41
28583	67.07	-0.55	13.78	28.52	48.06	68.33	53.32	44.20	2.47	132.35	79.26	150.68	53.40	206.97	7.44
28584	67.12	-1.65	13.78	30.15	48.40	68.74	52.13	45.13	5.70	131.82	78.56	147.97	52.78	204.97	21.58
28585	68.11	1.65	13.78	35.19	45.47	66.47	62.24	50.72	5.22	159.31	81.16	135.33	62.96	225.74	19.91
28586	68.06	0.55	13.78	33.20	44.61	65.87	63.79	49.53	2.31	160.22	81.55	137.79	63.86	228.45	6.86
28587	68.06	-0.55	13.78	33.20	44.61	65.87	63.79	49.52	2.32	160.22	81.55	137.79	63.87	228.44	6.88
28588	68.11	-1.65	13.78	35.19	45.47	66.47	62.25	50.72	5.23	159.30	81.15	135.32	62.97	225.73	19.94
28589	69.09	1.65	13.78	38.99	42.44	63.57	69.55	55.85	8.71	178.63	81.55	123.26	70.36	235.59	19.81
28590	69.05	0.55	13.78	36.77	40.97	62.70	71.31	54.35	8.02	179.64	81.50	125.59	71.40	238.71	10.0

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
28617	75.99	1.65	13.78	38.84	18.64	35.89	20.80	74.14	24.28	195.35	54.00	39.02	22.61	128.94	30.11
28618	75.98	0.55	13.78	39.06	17.15	34.61	20.97	69.69	23.07	197.08	52.05	38.32	21.20	127.97	23.93
28619	75.98	-0.55	13.78	39.06	17.16	34.61	20.98	69.69	23.07	197.08	52.05	38.32	21.20	127.97	23.93
28620	75.99	-1.65	13.78	38.84	18.64	35.89	20.81	74.14	24.28	195.34	54.00	39.02	22.62	128.94	30.10
28621	76.97	1.65	13.78	36.63	17.01	34.37	17.00	74.75	43.43	188.37	50.92	42.18	18.56	109.67	46.21
28622	76.97	0.55	13.78	36.76	15.76	33.55	16.85	70.49	42.94	189.88	49.30	41.78	17.04	108.25	43.31
28623	76.97	-0.55	13.78	36.76	15.76	33.55	16.85	70.49	42.94	189.88	49.30	41.78	17.04	108.25	43.30
28624	76.97	-1.65	13.78	36.63	17.01	34.37	17.00	74.75	43.43	188.37	50.92	42.18	18.57	109.67	46.21
28625	77.96	1.65	13.78	35.03	16.18	33.39	15.37	75.35	62.85	182.02	48.07	44.26	16.69	90.05	64.38
28626	77.96	0.55	13.78	34.97	15.09	33.14	15.01	71.15	63.19	183.34	46.70	44.06	15.17	87.68	63.38
28627	77.96	-0.55	13.78	34.97	15.09	33.14	15.01	71.15	63.19	183.34	46.70	44.06	15.18	87.68	63.38
28628	77.96	-1.65	13.78	35.03	16.18	33.39	15.37	75.35	62.85	182.02	48.07	44.26	16.69	90.05	64.38
28629	62.77	1.65	12.09	7.27	64.73	93.56	8.35	27.80	12.74	28.40	39.62	221.74	10.58	86.42	31.83
28630	62.70	0.55	12.09	6.90	65.05	92.79	7.22	27.21	9.63	27.24	40.17	224.53	7.54	84.91	13.78
28631	62.70	-0.55	12.09	6.90	65.05	92.79	7.22	27.21	9.64	27.24	40.17	224.52	7.54	84.90	13.83
28632	62.77	-1.65	12.09	7.27	64.73	93.56	8.34	27.80	12.77	28.40	39.62	221.71	10.59	86.42	31.89
28633	63.78	1.65	12.09	12.50	60.94	100.14	14.38	38.86	7.79	60.39	45.44	259.54	17.21	159.14	30.52
28634	63.72	0.55	12.09	12.02	61.17	99.61	13.96	38.29	2.68	59.30	46.09	263.82	14.33	158.94	10.32
28635	63.72	-0.55	12.09	12.02	61.17	99.61	13.96	38.29	2.72	59.30	46.09	263.81	14.34	158.93	10.38
28636	63.78	-1.65	12.09	12.50	60.93	100.13	14.37	38.85	7.83	60.38	45.44	259.51	17.23	159.13	30.58
28637	64.80	1.65	12.09	20.15	57.19	102.34	20.96	48.66	11.29	105.35	52.12	266.56	23.93	220.36	30.81
28638	64.73	0.55	12.09	19.68	57.43	101.94	20.96	48.14	9.21	104.86	52.59	271.41	21.31	221.52	13.33
28639	64.73	-0.55	12.09	19.68	57.43	101.93	20.95	48.14	9.21	104.86	52.59	271.40	21.32	221.52	13.38
28640	64.80	-1.65	12.09	20.15	57.18	102.34	20.96	48.66	11.31	105.35	52.11	266.53	23.95	220.34	30.87
28641	65.81	1.65	12.09	27.94	53.50	100.93	27.56	56.88	16.36	151.60	59.07	250.10	30.48	264.79	31.69
28642	65.75	0.55	12.09	27.51	53.67	100.52	27.89	56.37	15.23	152.00	59.43	254.79	28.22	267.10	17.75
28643	65.75	-0.55	12.09	27.51	53.67	100.52	27.89	56.37	15.24	151.99	59.42	254.78	28.23	267.10	17.78
28644	65.81	-1.65	12.09	27.94	53.49	100.93	27.56	56.88	16.37	151.60	59.06	250.08	30.50	264.77	31.74
28645	66.82	1.65	12.09	35.30	49.89	97.17	33.76	63.77	20.03	194.93	65.39	220.56	36.48	292.70	32.21
28646	66.76	0.55	12.09	34.91	49.93	96.66	34.37	63.22	19.21	196.18	65.66	224.67	34.68	295.84	20.98
28647	66.76	-0.55	12.09	34.91	49.93	96.66	34.37	63.21	19.21	196.18	65.66	224.66	34.68	295.84	21.00
28648	66.82	-1.65	12.09	35.30	49.89	97.17	33.75	63.76	20.03	194.92	65.38	220.55	36.50	292.68	32.24
28649	67.83	1.65	12.09	41.50	46.35	92.11	38.96	69.64	21.95	229.96	70.68	186.22	41.51	304.72	31.95
28650	67.78	0.55	12.09	41.15	46.19	91.43	39.81	69.00	21.19	231.87	70.89	189.61	40.09	308.36	22.57
28651	67.78	-0.55	12.09	41.15	46.19	91.43	39.81	68.99	21.19	231.86	70.89	189.60	40.10	308.36	22.59
28652	67.83	-1.65	12.09	41.50	46.35	92.11	38.95	69.63	21.95	229.95	70.68	186.20	41.52	304.70	31.98
28653	68.84	1.65	12.09	46.32	42.87	86.49	42.52	74.90	22.50	254.69	74.55	152.65	44.99	303.10	31.02
28654	68.80	0.55	12.09	46.01	42.46	85.62	43.54	74.14	21.72	256.96	74.68	155.33	43.82	306.90	22.87
28655	68.80	-0.55	12.09	46.01	42.46	85.62	43.54	74.14	21.72	256.95	74.67	155.32	43.83	306.89	22.88
28656	68.84	-1.65	12.09	46.32	42.87	86.49	42.52	74.90	22.50	254.67	74.54	152.64	45.01	303.08	31.04
28657	69.85	1.65	12.09	49.91	39.48	80.74	44.14	79.81	22.31	270.24	76.61	122.55	46.64	291.05	29.80
28658	69.81	0.55	12.09	49.65	38.82	79.66	45.27	78.92	21.48	272.66	76.62	124.47	45.55	294.70	22.47
28659	69.81	-0.55	12.09	49.65	38.82	79.66	45.27	78.91	21.48	272.66	76.62	124.47	45.56	294.70	22.48
28660	69.85	-1.65	12.09	49.91	39.48	80.74	44.14	79.81	22.31	270.23	76.60	122.54	46.66	291.04	29.81
28661	70.86	1.65	12.09	52.10	36.13	74.98	42.45	84.45	22.76	277.05	77.08	96.41	45.07	271.14	29.34
28662	70.83	0.55	12.09	51.98	35.25	73.71	43.61	83.42	21.88	279.50	76.98	97.47	43.90	274.38	22.75
28663	70.83	-0.55	12.09	51.98	35.25	73.71	43.61	83.41	21.88	279.50	76.97	97.47	43.91	274.38	22.75
28664	70.86	-1.65	12.09	52.11	36.13	74.98	42.45	84.45	22.76	277.04	77.08	96.41	45.09	271.12	29.35
28665	71.88	1.65	12.09	53.65	32.91	69.30	39.60	88.63	24.92	279.61	75.92	74.79	42.37	246.56	30.50
28666	71.85	0.55	12.09	53.65	31.91	67.89	40.67	87.43	24.05	281.99	75.67	74.80	40.98	249.24	24.77
28667	71.85	-0.55	12.09	53.65	31.91	67.90	40.67	87.43	24.04	281.99	75.67	74.80	40.99	249.23	24.77
28668	71.88	-1.65	12.09	53.66	32.91	69.31	39.60	88.62	24.92	279.60	75.92	74.79	42.39	246.55	30.50
28669	72.89	1.65	12.09	53.83	29.76	63.89	33.86	92.16	29.40	277.35	73.73	59.80	36.83	220.86	33.90
28670	72.86	0.55	12.09	54.02	28.76	62.40	34.82	90.75	28.61	279.73	73.38	58.65	35.17	222.88	29.17
28671	72.86	-0.55	12.09	54.02	28.76	62.40	34.82	90.75	28.61	279.73	73.38	58.65	35.17	222.88	29.17
28672	72.89	-1.65	12.09	53.83	29.76	63.89	33.87	92.16	29.39	277.34	73.72	59.80	36.85	220.85	33.89
28673	73.90	1.65	12.09	53.10	26.89	58.97	27.93	95.03	37.29	272.34	70.79	54.17	31.03	195.26	40.63
28674	73.88	0.55	12.09	53.42	25.97	57.43	28.71	93.40	36.64	274.67	70.42	52.18	29.07	196.68	37.05
28675	73.88	-0.55	12.09	53.42	25.97	57.43	28.71	93.40	36.64	274.67	70.42	52.18	29.07	196.68	37.04
28676	73.90	-1.65	12.09	53.10	26.89	58.98	27.94	95.03	37.29	272.33	70.79	54.17	31.05	195.26	40.63
28677	74.91	1.65	12.09	51.45	24.40	54.74	22.41	97.21	47.90	264.74	67.55	56.61	25.53	171.33	50.27
28678	74.89	0.55	12.09	51.85	23.60	53.17	23.04	95.36	47.41	266.99	67.19	54.48	23.40	172.19	47.70
28679	74.89	-0.55	12.09	51.85	23.60	53.17	23.04	95.36	47.41	266.99	67.19	54.48	23.41	172.19	47.70
28680	74.91	-1.65	12.09	51.45	24.40	54.74	22.42	97.21	47.90	264.73	67.55	56.61	25.55	171.33	50.26
28681	75.92	1.65	12.09	49.08	22.41	51.47	17.74	98.92	60.80	254.78	64.21	62.27	20.76	148.82	62.43
28682	75.91	0.55	12.09	49.45	21.75	49.92	18.18	96.90	60.52	256.86	63.92	60.34	18.53	149.16	60.71
28683	75.91	-0.55	12.09	49.45	21.75	49.92	18.18	96.90	60.52	256.86	63.92	60.34	18.54	149.16	60.71
28684	75.92	-1.65	12.09	49.08	22.41	51.48	17.74	98.92	60.80	254.77	64.21	62.27	20.77	148.82	62.42
28685	76.93	1.65	12.09	46.58	21.05	49.36	14.75	100.27	75.40	243.49	60.89	67.36	17.48	127.15	76.49
28686	76.93	0.55	12.09	46.81	20.54	47.87	15.04	98.15	75.39	245.31	60.69	65.62	15.37	126.93	75.52
28687	76.93	-0.55	12.09	46.81	20.54	47.88	15.04	98.15	75.39	245.31	60.69	65.62	15.37	126.93	75.52
28688	76.93	-1.65	12.09	46.58	21.05	49.36	14.75	100.27	75.39	243.48	60.89	67.36	17.50		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
28715	67.50	-0.55	10.41	59.99	49.59	115.83	25.39	88.38	44.65	359.36	57.64	226.58	26.22	404.30	45.41
28716	67.55	-1.65	10.41	59.74	49.39	116.63	25.16	88.72	45.05	356.12	57.98	222.96	31.82	399.75	51.42
28717	68.59	1.65	10.41	64.48	45.31	108.35	26.72	93.55	49.39	378.61	65.08	168.10	32.85	379.46	54.34
28718	68.55	0.55	10.41	64.82	45.40	107.37	27.10	93.12	49.04	382.28	64.80	170.52	27.83	383.87	49.62
28719	68.55	-0.55	10.41	64.82	45.40	107.37	27.10	93.12	49.04	382.27	64.79	170.52	27.85	383.86	49.62
28720	68.59	-1.65	10.41	64.48	45.31	108.35	26.72	93.55	49.39	378.60	65.07	168.08	32.89	379.44	54.35
28721	69.63	1.65	10.41	67.00	41.43	100.69	27.13	98.51	53.12	386.84	70.64	125.12	32.98	350.94	57.04
28722	69.59	0.55	10.41	67.41	41.39	99.53	27.59	98.00	52.80	390.67	70.48	126.38	28.28	355.04	53.25
28723	69.59	-0.55	10.41	67.41	41.39	99.54	27.59	98.00	52.80	390.67	70.48	126.37	28.30	355.04	53.25
28724	69.63	-1.65	10.41	67.00	41.43	100.69	27.13	98.50	53.12	386.83	70.64	125.12	33.02	350.92	57.05
28725	70.67	1.65	10.41	67.89	37.82	93.64	26.45	103.62	56.87	385.05	74.23	94.81	32.17	318.34	59.98
28726	70.63	0.55	10.41	68.35	37.66	92.32	26.95	103.05	56.56	388.86	74.19	94.80	27.63	322.00	56.92
28727	70.63	-0.55	10.41	68.36	37.66	92.33	26.95	103.05	56.56	388.85	74.18	94.80	27.64	321.99	56.92
28728	70.67	-1.65	10.41	67.89	37.82	93.65	26.45	103.61	56.87	385.04	74.22	94.81	32.20	318.32	59.98
28729	71.70	1.65	10.41	67.50	34.50	87.12	24.45	108.67	61.32	376.19	75.91	77.61	30.13	284.39	63.76
28730	71.67	0.55	10.41	68.01	34.25	85.66	24.93	108.04	61.04	379.85	75.97	76.33	25.62	287.53	61.32
28731	71.67	-0.55	10.41	68.01	34.25	85.66	24.93	108.04	61.04	379.84	75.97	76.33	25.63	287.52	61.32
28732	71.70	-1.65	10.41	67.50	34.50	87.13	24.45	108.67	61.31	376.18	75.91	77.62	30.16	284.38	63.76
28733	72.74	1.65	10.41	66.23	31.52	81.10	21.80	113.38	67.05	363.21	75.91	72.71	27.44	250.91	68.95
28734	72.72	0.55	10.41	66.77	31.22	79.51	22.23	112.70	66.84	366.63	76.04	70.54	22.92	253.49	67.06
28735	72.72	-0.55	10.41	66.77	31.22	79.51	22.23	112.69	66.84	366.63	76.04	70.54	22.93	253.48	67.05
28736	72.74	-1.65	10.41	66.23	31.52	81.10	21.80	113.38	67.05	363.20	75.91	72.71	27.47	250.90	68.95
28737	73.78	1.65	10.41	64.17	28.90	75.61	18.61	117.52	74.31	347.53	74.62	76.27	24.21	219.26	75.76
28738	73.76	0.55	10.41	64.73	28.60	73.93	18.98	116.76	74.19	350.69	74.79	73.84	19.68	221.28	74.35
28739	73.76	-0.55	10.41	64.73	28.60	73.93	18.98	116.76	74.19	350.68	74.79	73.84	19.69	221.27	74.35
28740	73.78	-1.65	10.41	64.17	28.91	75.62	18.61	117.52	74.31	347.52	74.62	76.27	24.24	219.25	75.76
28741	74.82	1.65	10.41	61.55	26.72	70.85	15.55	120.99	83.26	330.35	72.40	83.32	20.99	189.92	84.35
28742	74.80	0.55	10.41	62.07	26.46	69.09	15.83	120.15	83.24	333.20	72.60	81.00	16.52	191.40	83.36
28743	74.80	-0.55	10.41	62.07	26.46	69.09	15.83	120.15	83.24	333.20	72.60	81.00	16.54	191.40	83.36
28744	74.82	-1.65	10.41	61.55	26.73	70.85	15.55	120.99	83.26	330.34	72.40	83.32	21.02	189.91	84.34
28745	75.86	1.65	10.41	58.54	25.05	67.05	13.08	123.76	93.66	312.38	69.55	90.40	18.19	163.02	94.47
28746	75.84	0.55	10.41	58.99	24.85	65.26	13.29	122.84	93.77	314.91	69.77	88.29	13.96	163.98	93.86
28747	75.84	-0.55	10.41	58.99	24.85	65.26	13.29	122.84	93.77	314.91	69.77	88.29	13.96	163.98	93.86
28748	75.86	-1.65	10.41	58.54	25.05	67.06	13.09	123.76	93.66	312.37	69.55	90.40	18.21	163.01	94.46
28749	76.89	1.65	10.41	55.37	23.93	64.53	11.50	125.86	105.18	294.16	66.33	93.77	16.00	138.37	105.76
28750	76.89	0.55	10.41	55.68	23.81	62.73	11.65	124.88	105.44	296.38	66.56	93.85	12.23	138.82	105.50
28751	76.89	-0.55	10.41	55.68	23.81	62.73	11.65	124.88	105.44	296.38	66.56	93.85	12.24	138.82	105.50
28752	76.89	-1.65	10.41	55.37	23.93	64.53	11.50	125.87	105.18	294.16	66.32	95.76	16.02	138.36	105.76
28753	77.93	1.65	10.41	52.26	23.42	63.50	11.03	127.31	117.40	276.20	62.88	98.80	14.65	115.69	117.82
28754	77.93	0.55	10.41	52.37	23.37	61.77	11.17	126.27	117.83	278.09	63.12	97.03	11.64	115.61	117.88
28755	77.93	-0.55	10.41	52.37	23.37	61.77	11.18	126.28	117.83	278.09	63.12	97.03	11.64	115.61	117.88
28756	77.93	-1.65	10.41	52.26	23.42	63.50	11.03	127.32	117.40	276.20	62.88	98.80	14.66	115.69	117.82
28757	61.95	1.65	8.72	19.91	77.00	179.59	8.23	54.40	10.11	118.57	90.16	646.82	25.87	242.81	57.09
28758	61.88	0.55	8.72	19.46	76.52	178.90	5.28	53.87	7.27	115.77	88.09	658.64	9.72	241.82	20.42
28759	61.88	-0.55	8.72	19.46	76.52	178.89	5.27	53.87	7.30	115.77	88.09	658.62	9.76	241.82	20.54
28760	61.95	-1.65	8.72	19.91	76.99	179.56	8.21	54.40	10.17	118.57	90.16	646.73	25.91	242.79	57.21
28761	63.02	1.65	8.72	29.64	73.08	186.42	12.43	76.81	23.67	193.52	76.62	667.88	33.41	415.35	51.67
28762	62.95	0.55	8.72	29.24	72.86	186.10	10.31	76.70	22.26	192.58	76.51	679.74	14.69	418.32	27.13
28763	62.95	-0.55	8.72	29.24	72.86	186.09	10.31	76.70	22.26	192.58	76.51	679.71	14.74	418.31	27.20
28764	63.02	-1.65	8.72	29.63	73.08	186.40	12.42	76.80	23.69	193.51	76.63	667.80	33.47	415.32	51.78
28765	64.08	1.65	8.72	56.33	69.86	179.16	15.35	94.27	37.53	361.56	68.62	580.93	31.90	537.03	50.97
28766	64.02	0.55	8.72	56.38	70.00	178.76	14.10	94.41	36.43	363.16	69.94	590.20	16.88	541.90	38.21
28767	64.02	-0.55	8.72	56.38	70.00	178.76	14.10	94.41	36.43	363.16	69.95	590.18	16.92	541.89	38.24
28768	64.08	-1.65	8.72	56.33	69.85	179.15	15.34	94.26	37.53	361.54	68.63	580.86	31.97	537.00	51.04
28769	65.14	1.65	8.72	75.65	65.06	164.07	16.75	100.92	49.86	474.36	53.54	443.33	29.95	559.66	57.38
28770	65.09	0.55	8.72	76.00	65.39	163.43	16.01	101.00	49.04	477.66	55.01	449.92	17.97	564.83	49.93
28771	65.09	-0.55	8.72	76.00	65.39	163.43	16.00	101.00	49.04	477.66	55.01	449.90	18.01	564.82	49.95
28772	65.14	-1.65	8.72	75.65	65.05	164.06	16.74	100.91	49.86	474.34	53.55	443.28	30.01	559.63	57.42
28773	66.21	1.65	8.72	86.96	59.69	149.86	17.31	103.69	60.07	534.93	43.94	321.77	28.82	535.48	65.14
28774	66.16	0.55	8.72	87.49	60.11	149.03	16.84	103.63	59.50	539.20	44.60	326.32	18.45	540.49	60.08
28775	66.16	-0.55	8.72	87.49	60.11	149.03	16.83	103.63	59.50	539.19	44.60	326.31	18.49	540.48	60.09
28776	66.21	-1.65	8.72	86.96	59.68	149.86	17.30	103.68	60.07	534.91	43.94	321.74	28.88	535.45	65.16
28777	67.27	1.65	8.72	92.26	54.28	137.85	17.46	106.36	68.35	558.37	45.22	226.71	28.33	492.14	72.17
28778	67.23	0.55	8.72	92.90	54.71	136.86	17.13	106.17	67.98	563.18	44.81	229.62	18.62	496.87	68.41
28779	67.23	-0.55	8.72	92.90	54.71	136.86	17.12	106.16	67.98	563.18	44.81	229.61	18.66	496.85	68.41
28780	67.27	-1.65	8.72	92.26	54.28	137.85	17.45	106.35	68.34	558.34	45.22	226.69	28.40	492.11	72.19
28781	68.34	1.65	8.72	93.52	49.15	127.75	17.33	110.31	75.17	557.51	53.12	157.71	28.03	442.73	78.19
28782	68.30	0.55	8.72	94.22	49.53	126.61	17.06	110.02	74.95	562.61	52.30	159.12	18.53	447.11	75.28
28783	68.30	-0.55	8.72	94.22	49.53	126.61	17.06	110.01	74.94	562.60	52.29	159.11	18.56	447.10	75.29
28784	68.34	-1.65	8.72	93.52	49.15	127.75	17.32	110.30	75.17	557.49	53.11	157.70	28.09	442.70	78.20
28785	69.40	1.65	8.72	92.21	44.46	119.01	16.88	115.59	81.11	541.58	61.70	113.15	27.53	393.19	83.51
28786	69.36	0.55	8.72	92.											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
28813	76.85	1.65	8.72	63.10	26.07	79.15	8.33	151.32	132.26	338.26	67.84	126.60	15.18	140.36	132.58
28814	76.85	0.55	8.72	63.44	26.07	77.14	7.98	150.90	132.66	340.83	68.14	124.75	9.04	141.09	132.69
28815	76.85	-0.55	8.72	63.44	26.07	77.15	7.98	150.90	132.66	340.83	68.14	124.75	9.06	141.09	132.69
28816	76.85	-1.65	8.72	63.10	26.07	79.15	8.33	151.32	132.26	338.26	67.85	126.59	15.21	140.36	132.58
28817	77.92	1.65	8.72	58.88	25.66	78.14	8.47	153.23	142.20	312.72	64.36	128.59	13.89	117.12	142.44
28818	77.92	0.55	8.72	59.06	25.69	76.18	8.22	152.78	142.72	314.88	64.64	126.87	9.02	117.43	142.75
28819	77.92	-0.55	8.72	59.06	25.69	76.18	8.22	152.78	142.72	314.88	64.64	126.86	9.02	117.43	142.75
28820	77.92	-1.65	8.72	58.89	25.66	78.14	8.48	153.23	142.20	312.71	64.36	128.59	13.91	117.12	142.44
28821	61.54	1.65	7.03	11.42	84.23	253.05	12.79	78.26	5.77	43.04	164.09	1142.05	54.78	423.23	83.97
28822	61.47	0.55	7.03	11.07	82.66	253.09	7.44	77.95	3.15	41.67	163.03	1161.70	19.24	424.73	28.24
28823	61.47	-0.55	7.03	11.07	82.66	253.08	7.43	77.95	3.20	41.67	163.03	1161.66	19.30	424.72	28.41
28824	61.54	-1.65	7.03	11.42	84.22	253.00	12.77	78.25	5.85	43.03	164.09	1141.92	54.84	423.20	84.14
28825	62.63	1.65	7.03	100.41	90.52	249.48	22.56	136.59	27.08	643.32	209.96	1039.64	41.34	853.59	47.33
28826	62.57	0.55	7.03	100.82	89.90	249.53	21.02	137.39	25.32	645.72	212.80	1053.29	23.79	858.66	28.26
28827	62.57	-0.55	7.03	100.82	89.90	249.53	21.02	137.38	25.32	645.72	212.79	1053.25	23.83	858.65	28.33
28828	62.63	-1.65	7.03	100.40	90.51	249.45	22.54	136.58	27.09	643.31	209.96	1039.54	41.42	853.55	47.46
28829	63.72	1.65	7.03	136.41	84.37	209.53	22.49	133.79	50.35	848.87	164.93	677.84	32.70	822.31	56.70
28830	63.66	0.55	7.03	137.27	84.33	208.96	22.05	134.37	48.81	853.47	168.33	686.30	23.28	827.16	49.53
28831	63.66	-0.55	7.03	137.27	84.33	208.96	22.04	134.37	48.81	853.47	168.34	686.27	23.31	827.15	49.55
28832	63.72	-1.65	7.03	136.41	84.36	209.51	22.48	133.78	50.35	848.85	164.94	677.75	32.78	822.26	56.76
28833	64.81	1.65	7.03	147.29	76.54	184.10	19.42	124.02	68.25	899.23	117.16	440.70	27.54	721.46	71.67
28834	64.76	0.55	7.03	148.21	76.84	183.22	19.23	124.23	67.12	904.46	120.75	446.25	20.19	725.71	67.50
28835	64.76	-0.55	7.03	148.21	76.84	183.21	19.23	124.22	67.12	904.45	120.75	446.23	20.23	725.70	67.51
28836	64.81	-1.65	7.03	147.29	76.54	184.08	19.40	124.01	68.24	899.20	117.17	440.64	27.62	721.41	71.70
28837	65.90	1.65	7.03	146.53	68.46	167.26	16.22	118.43	81.64	882.98	76.80	284.76	25.04	619.66	84.17
28838	65.85	0.55	7.03	147.45	68.96	166.22	15.92	118.36	80.91	888.51	80.12	288.20	17.03	623.56	81.18
28839	65.85	-0.55	7.03	147.45	68.96	166.22	15.91	118.36	80.91	888.50	80.12	288.18	17.07	623.54	81.19
28840	65.90	-1.65	7.03	146.54	68.46	167.26	16.20	118.42	81.64	882.95	76.81	284.72	25.13	619.60	84.19
28841	67.00	1.65	7.03	140.46	60.84	155.14	13.71	118.62	91.94	837.48	50.95	183.75	24.48	530.39	94.02
28842	66.95	0.55	7.03	141.37	61.42	153.99	13.15	118.39	91.52	843.25	52.90	185.30	14.65	534.06	91.74
28843	66.95	-0.55	7.03	141.37	61.42	153.99	13.14	118.39	91.52	843.24	52.91	185.30	14.70	534.04	91.75
28844	67.00	-1.65	7.03	140.46	60.83	155.14	13.68	118.61	91.93	837.45	50.95	183.73	24.57	530.35	94.03
28845	68.09	1.65	7.03	132.07	53.98	145.43	11.90	123.25	100.25	779.66	44.87	124.66	24.77	454.55	101.99
28846	68.04	0.55	7.03	133.00	54.54	144.18	11.06	122.96	100.05	785.61	44.71	124.30	13.09	457.98	100.24
28847	68.04	-0.55	7.03	133.00	54.54	144.19	11.05	122.96	100.05	785.60	44.70	124.30	13.14	457.97	100.24
28848	68.09	-1.65	7.03	132.07	53.98	145.44	11.88	123.24	100.25	779.63	44.87	124.66	24.86	454.51	101.99
28849	69.18	1.65	7.03	122.88	48.01	136.91	10.59	130.50	107.38	717.85	51.67	101.64	25.02	390.33	108.79
28850	69.14	0.55	7.03	123.81	48.48	135.55	9.50	130.20	107.33	723.83	50.59	99.69	12.02	393.48	107.49
28851	69.14	-0.55	7.03	123.81	48.48	135.56	9.50	130.20	107.33	723.81	50.59	99.70	12.08	393.47	107.49
28852	69.18	-1.65	7.03	122.88	48.00	136.92	10.57	130.50	107.38	717.82	51.67	101.65	25.10	390.30	108.79
28853	70.27	1.65	7.03	113.66	42.89	128.97	9.54	138.89	113.93	656.47	60.30	103.83	24.76	335.69	115.03
28854	70.24	0.55	7.03	114.58	43.25	127.49	8.27	138.62	113.98	662.28	59.31	101.28	11.16	338.51	114.10
28855	70.24	-0.55	7.03	114.58	43.25	127.49	8.27	138.61	113.98	662.27	59.31	101.28	11.22	338.51	114.10
28856	70.27	-1.65	7.03	113.67	42.89	128.98	9.52	138.89	113.92	656.44	60.29	103.84	24.83	335.67	115.03
28857	71.36	1.65	7.03	104.81	38.59	121.37	8.59	147.41	120.31	597.89	66.68	115.91	23.88	288.89	121.15
28858	71.33	0.55	7.03	105.69	38.84	119.76	7.20	147.18	120.44	603.35	66.05	113.41	10.29	291.34	120.54
28859	71.33	-0.55	7.03	105.69	38.84	119.76	7.20	147.18	120.44	603.34	66.05	113.41	10.35	291.33	120.54
28860	71.36	-1.65	7.03	104.81	38.59	121.38	8.58	147.41	120.31	597.86	66.68	115.92	23.95	288.87	121.15
28861	72.45	1.65	7.03	96.49	35.03	114.10	7.71	155.43	126.86	543.36	70.26	129.08	22.49	248.51	127.48
28862	72.43	0.55	7.03	97.31	35.19	112.34	6.24	155.24	127.06	548.34	69.97	126.78	9.39	250.58	127.13
28863	72.43	-0.55	7.03	97.31	35.19	112.35	6.24	155.23	127.06	548.33	69.97	126.78	9.43	250.58	127.13
28864	72.45	-1.65	7.03	96.49	35.03	114.11	7.70	155.42	126.85	543.34	70.25	129.08	22.55	248.49	127.47
28865	73.54	1.65	7.03	88.77	32.17	107.33	6.92	162.55	133.76	493.39	71.41	140.31	20.76	213.45	134.21
28866	73.52	0.55	7.03	89.51	32.26	105.42	5.41	162.40	134.03	497.82	71.38	138.22	8.47	215.15	134.08
28867	73.52	-0.55	7.03	89.51	32.26	105.43	5.41	162.40	134.03	497.81	71.38	138.22	8.51	215.15	134.08
28868	73.54	-1.65	7.03	88.77	32.17	107.34	6.91	162.55	133.75	493.37	71.41	140.31	20.81	213.44	134.21
28869	74.63	1.65	7.03	81.64	29.97	101.36	6.30	168.58	141.11	448.06	70.72	148.84	18.86	182.81	141.44
28870	74.62	0.55	7.03	82.28	30.02	99.32	4.81	168.45	141.46	451.92	70.84	146.91	7.64	184.16	141.50
28871	74.62	-0.55	7.03	82.28	30.02	99.32	4.81	168.45	141.46	451.92	70.84	146.91	7.67	184.16	141.49
28872	74.63	-1.65	7.03	81.65	29.97	101.37	6.29	168.58	141.11	448.05	70.72	148.84	18.90	182.80	141.44
28873	75.72	1.65	7.03	75.10	28.40	96.61	5.92	173.39	148.91	407.20	68.69	154.60	16.94	155.85	149.15
28874	75.71	0.55	7.03	75.61	28.43	94.46	4.54	173.28	149.34	410.51	68.90	152.80	6.99	156.87	149.37
28875	75.71	-0.55	7.03	75.61	28.43	94.46	4.54	173.28	149.34	410.50	68.90	152.80	7.02	156.87	149.37
28876	75.72	-1.65	7.03	75.10	28.40	96.61	5.92	173.39	148.91	407.19	68.69	154.59	16.97	155.85	149.14
28877	76.81	1.65	7.03	69.12	27.45	93.51	5.89	176.95	157.07	370.49	65.77	157.72	15.15	131.93	157.23
28878	76.81	0.55	7.03	69.49	27.48	91.32	4.74	176.84	157.58	373.27	66.00	156.02	6.66	132.63	157.60
28879	76.81	-0.55	7.03	69.49	27.48	91.32	4.74	176.84	157.58	373.27	66.00	156.02	6.68	132.63	157.60
28880	76.81	-1.65	7.03	69.12	27.45	93.51	5.90	176.95	157.07	370.48	65.77	157.71	15.18	131.93	157.23
28881	77.90	1.65	7.03	63.71	27.09	92.46	6.37	179.23	165.42	337.53	62.28	158.39	13.66	110.48	165.53
28882	77.90	0.55	7.03	63.91	27.11	90.31	5.52	179.11	166.03	339.85	62.51	156.76	6.85	110.88	166.04
28883	77.90	-0.55	7.03	63.91	27.11	90.31	5.52	179.11	166.03	339.85					



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
28911	67.79	-0.55	5.34	172.47	59.50	164.29	7.27	133.09	125.06	994.40	52.56	105.21	9.38	377.04	125.18
28912	67.83	-1.65	5.34	171.49	58.86	165.54	8.47	133.44	125.18	988.66	50.53	107.53	20.42	375.10	126.26
28913	68.95	1.65	5.34	152.01	51.31	157.59	6.85	145.16	132.60	872.05	45.24	116.20	22.51	319.87	133.41
28914	68.92	0.55	5.34	153.00	51.88	156.23	4.61	144.87	132.65	878.00	44.78	113.42	8.26	321.69	132.74
28915	68.92	-0.55	5.34	153.00	51.88	156.24	4.59	144.87	132.64	877.99	44.78	113.42	8.36	321.68	132.73
28916	68.95	-1.65	5.34	152.01	51.31	157.60	6.82	145.15	132.59	872.01	45.23	116.21	22.61	319.83	133.41
28917	70.07	1.65	5.34	135.33	45.10	149.45	6.10	156.90	139.41	770.60	51.79	133.29	23.66	274.78	140.01
28918	70.04	0.55	5.34	136.31	45.55	147.97	3.08	156.69	139.58	776.54	50.55	130.74	8.03	276.46	139.64
28919	70.04	-0.55	5.34	136.31	45.55	147.97	3.06	156.69	139.57	776.53	50.55	130.74	8.12	276.45	139.64
28920	70.07	-1.65	5.34	135.33	45.10	149.47	6.07	156.89	139.41	770.56	51.78	133.30	23.75	274.75	140.00
28921	71.19	1.65	5.34	120.95	40.06	141.14	5.70	167.92	145.97	682.16	58.87	149.71	23.65	237.21	146.39
28922	71.16	0.55	5.34	121.88	40.38	139.50	2.29	167.80	146.22	687.83	57.85	147.45	7.86	238.72	146.27
28923	71.16	-0.55	5.34	121.89	40.38	139.51	2.27	167.80	146.22	687.82	57.85	147.45	7.94	238.72	146.26
28924	71.19	-1.65	5.34	120.95	40.06	141.15	5.68	167.92	145.96	682.13	58.87	149.71	23.73	237.20	146.38
28925	72.30	1.65	5.34	108.48	36.03	132.85	5.40	177.83	152.49	605.04	63.36	163.10	22.73	205.39	152.79
28926	72.28	0.55	5.34	109.34	36.23	131.04	1.92	177.78	152.82	610.24	62.74	161.07	7.54	206.70	152.86
28927	72.28	-0.55	5.34	109.34	36.23	131.04	1.90	177.78	152.82	610.23	62.73	161.07	7.60	206.69	152.85
28928	72.30	-1.65	5.34	108.48	36.03	132.86	5.38	177.83	152.49	605.01	63.36	163.09	22.79	205.38	152.78
28929	73.42	1.65	5.34	97.61	32.88	124.91	5.10	186.41	159.14	537.84	65.18	173.20	21.19	178.03	159.34
28930	73.40	0.55	5.34	98.38	32.99	122.93	1.75	186.42	159.54	542.46	64.88	171.33	7.05	179.14	159.56
28931	73.40	-0.55	5.34	98.38	32.99	122.93	1.73	186.42	159.53	542.45	64.88	171.33	7.10	179.14	159.56
28932	73.42	-1.65	5.34	97.61	32.88	124.93	5.08	186.41	159.13	537.82	65.18	173.19	21.24	178.03	159.33
28933	74.54	1.65	5.34	88.10	30.52	117.81	4.80	193.52	165.96	479.32	64.88	180.24	19.32	154.22	166.10
28934	74.52	0.55	5.34	88.75	30.56	115.65	1.67	193.57	166.44	483.32	64.80	178.49	6.45	155.12	166.45
28935	74.52	-0.55	5.34	88.75	30.56	115.66	1.66	193.57	166.43	483.32	64.80	178.49	6.50	155.12	166.45
28936	74.54	-1.65	5.34	88.10	30.52	117.82	4.79	193.52	165.96	479.31	64.88	180.23	19.36	154.22	166.09
28937	75.66	1.65	5.34	79.74	28.88	112.09	4.55	199.11	172.98	428.38	63.06	184.55	17.31	133.23	173.07
28938	75.65	0.55	5.34	80.26	28.89	109.80	1.74	199.19	173.53	431.77	63.11	182.88	5.85	133.93	173.54
28939	75.65	-0.55	5.34	80.26	28.89	109.80	1.74	199.20	173.53	431.77	63.11	182.88	5.88	133.93	173.54
28940	75.66	-1.65	5.34	79.74	28.88	112.10	4.54	199.11	172.98	428.37	63.06	184.54	17.34	133.22	173.07
28941	76.77	1.65	5.34	72.40	27.91	108.35	4.48	203.16	180.13	384.04	60.24	186.42	15.34	114.48	180.19
28942	76.77	0.55	5.34	72.77	27.90	105.98	2.22	203.26	180.76	386.86	60.34	184.81	5.39	114.99	180.76
28943	76.77	-0.55	5.34	72.77	27.90	105.98	2.22	203.26	180.76	386.86	60.34	184.80	5.41	114.99	180.76
28944	76.77	-1.65	5.34	72.40	27.91	108.35	4.48	203.16	180.13	384.03	60.24	186.41	15.36	114.48	180.19
28945	77.89	1.65	5.34	65.96	27.56	107.05	4.87	205.67	187.32	345.41	56.80	186.10	13.61	97.52	187.36
28946	77.89	0.55	5.34	66.17	27.53	104.70	3.30	205.77	188.02	347.72	56.90	184.52	5.39	97.83	188.03
28947	77.89	-0.55	5.34	66.17	27.53	104.70	3.30	205.77	188.02	347.72	56.91	184.52	5.40	97.83	188.03
28948	77.89	-1.65	5.34	65.96	27.56	107.06	4.88	205.67	187.33	345.41	56.80	186.09	13.62	97.52	187.36
28949	78.91	2.50	17.16	16.40	27.93	2.66	41.92	34.61	28.54	83.78	28.44	4.54	42.84	35.31	36.50
28950	79.84	2.50	17.16	18.49	60.73	4.50	41.50	36.31	48.99	82.22	60.97	4.48	41.48	33.74	53.57
28951	80.76	2.50	17.16	19.33	91.71	8.10	39.91	40.07	72.05	77.23	91.82	7.16	40.63	39.62	75.39
28952	81.69	2.50	17.16	16.66	116.35	10.04	35.16	49.01	99.97	67.17	116.36	8.37	37.35	55.25	102.97
28953	82.61	2.50	17.16	10.08	116.10	7.76	24.17	70.02	139.35	49.08	116.06	4.62	27.14	85.46	142.03
28954	83.54	2.50	17.16	11.99	55.02	25.67	25.53	106.17	246.50	20.49	55.16	31.36	26.33	129.62	248.02
28955	84.46	2.50	17.16	53.37	17.67	44.19	82.71	115.55	387.52	108.67	14.74	67.21	82.98	181.37	388.31
28956	85.39	2.50	17.16	226.38	61.45	13.34	419.96	61.90	276.88	425.30	60.92	67.70	420.24	144.32	277.08
28957	86.31	2.50	17.16	175.21	53.15	15.25	276.86	40.69	108.68	334.46	40.11	32.49	276.88	88.95	108.61
28958	87.24	2.50	17.16	135.71	51.75	14.04	199.62	27.44	63.06	260.52	38.76	21.18	199.62	58.18	63.00
28959	88.16	2.50	17.16	105.26	51.44	13.10	150.25	19.78	45.68	200.51	40.63	15.82	150.26	41.06	45.61
28960	89.09	2.50	17.16	81.32	51.80	12.78	115.46	15.27	37.77	150.86	42.01	13.93	115.45	31.20	37.71
28961	90.01	2.50	17.16	61.72	52.49	12.81	88.92	12.44	34.18	108.89	42.12	13.53	88.86	24.76	34.14
28962	90.94	2.50	17.16	44.51	53.15	13.00	66.94	10.62	33.26	72.78	40.63	13.88	66.78	19.59	33.29
28963	91.86	2.50	17.16	28.41	53.66	13.26	47.11	9.58	34.84	41.64	37.31	14.79	46.72	14.62	35.01
28964	92.79	2.50	17.16	12.74	54.14	13.53	27.52	8.95	40.34	15.42	32.19	15.39	26.53	10.05	40.78
28965	78.91	3.10	17.16	11.52	34.16	14.00	69.59	78.28	31.51	68.40	42.65	19.78	70.53	79.08	48.26
28966	79.83	3.10	17.16	16.75	76.04	13.35	69.40	80.58	54.45	68.33	79.97	17.94	69.46	79.44	64.60
28967	80.74	3.10	17.16	21.90	116.76	12.22	68.30	84.26	81.42	67.96	119.04	17.09	70.40	86.06	88.77
28968	81.66	3.10	17.16	26.26	150.95	11.02	64.11	91.02	115.08	67.25	152.22	17.56	69.80	99.83	121.43
28969	82.58	3.10	17.16	28.33	166.62	11.15	51.94	105.90	162.11	64.68	167.04	18.44	60.54	124.44	168.13
28970	83.50	3.10	17.16	26.84	82.16	27.66	20.54	132.15	255.07	55.75	82.10	39.08	27.58	160.90	258.09
28971	84.42	3.10	17.16	64.88	23.22	52.49	82.41	143.16	384.86	116.35	20.81	68.22	82.73	199.50	386.07
28972	85.33	3.10	17.16	274.81	75.16	14.44	414.74	77.22	276.62	451.37	73.01	64.88	415.15	149.17	276.93
28973	86.25	3.10	17.16	209.21	61.46	16.13	271.11	49.94	107.61	352.05	50.65	32.24	271.13	92.55	107.51
28974	87.17	3.10	17.16	160.20	56.06	14.52	194.11	32.89	61.67	273.16	44.79	21.27	194.11	60.37	61.58
28975	88.09	3.10	17.16	122.04	53.04	13.26	145.60	23.18	44.62	209.03	42.84	15.86	145.60	42.42	44.52
28976	89.00	3.10	17.16	93.14	51.79	12.84	112.36	17.69	37.07	157.12	41.84	13.95	112.34	32.21	36.97
28977	89.92	3.10	17.16	70.09	51.76	12.84	87.10	14.38	33.71	113.74	40.90	13.53	87.02	25.67	33.65
28978	90.84	3.10	17.16	50.42	52.18	13.02	66.21	12.34	32.94	76.63	39.07	13.87	65.97	20.59	32.99
28979	91.76	3.10	17.16	32.51	52.76	13.28	47.35	11.20	34.65	44.67	35.99	14.75	46.76	15.91	34.90
28980	92.67	3.10	17.16	15.42	53.74	13.57	28.78	10.79	40.11	17.63	31.68	15.33	27.36	12.02	40.78
28981	78.93	2.50	15.47	24.34	12.02	15.76	21.49	62.97	55.42	125.01	32.27	17.54	22.66	62.86	59.76
28982	79.88	2.50</													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
29009	90.26	3.10	15.47	51.84	47.25	39.17	74.97	35.04	91.37	99.52	31.44	42.72	74.82	57.21	91.32
29010	91.20	3.10	15.47	39.71	48.48	39.91	60.05	31.18	91.23	72.72	27.75	44.63	59.79	49.14	91.37
29011	92.15	3.10	15.47	28.26	50.10	40.65	46.64	28.61	95.55	46.75	24.01	48.01	46.17	41.34	95.99
29012	93.09	3.10	15.47	17.53	52.06	41.66	35.06	27.36	104.51	22.63	20.60	51.91	34.25	33.84	105.38
29013	78.94	2.50	13.78	34.65	17.31	33.97	15.36	82.30	81.13	174.83	46.49	46.99	17.59	77.38	83.01
29014	79.92	2.50	13.78	35.10	17.78	34.56	17.10	83.00	100.20	170.21	43.69	47.20	18.66	63.72	101.55
29015	80.90	2.50	13.78	36.93	19.04	36.21	21.09	83.69	119.79	166.78	41.19	46.28	21.92	54.21	120.85
29016	81.87	2.50	13.78	40.81	21.21	38.80	28.53	83.92	139.12	164.69	39.14	43.81	28.79	48.72	139.95
29017	82.85	2.50	13.78	46.58	24.29	42.05	41.30	82.65	154.97	162.50	37.64	40.47	41.32	44.05	155.58
29018	83.83	2.50	13.78	50.27	28.11	45.43	54.94	79.68	165.35	156.16	36.89	41.08	54.90	39.28	165.75
29019	84.81	2.50	13.78	50.00	31.88	49.48	65.84	76.54	171.82	145.67	37.09	49.18	65.81	43.38	172.03
29020	85.79	2.50	13.78	52.94	35.73	53.78	81.71	71.94	168.71	144.06	36.85	58.55	81.69	51.63	168.77
29021	86.76	2.50	13.78	49.24	38.50	57.59	83.32	66.84	160.75	132.61	36.76	64.85	83.28	61.66	160.72
29022	87.74	2.50	13.78	47.34	41.00	60.56	84.42	61.77	152.25	126.76	35.28	67.61	84.37	71.20	152.18
29023	88.72	2.50	13.78	44.33	43.04	62.74	79.61	56.48	143.65	116.93	33.13	68.02	79.54	73.95	143.56
29024	89.70	2.50	13.78	39.88	45.03	64.70	71.77	51.04	137.90	102.50	30.28	69.47	71.68	72.10	137.84
29025	90.68	2.50	13.78	34.48	47.14	66.59	63.04	45.77	135.72	84.71	26.92	72.92	62.90	67.56	135.73
29026	91.66	2.50	13.78	28.56	49.42	68.30	54.59	40.92	137.17	64.88	23.32	78.70	54.41	61.28	137.29
29027	92.63	2.50	13.78	22.38	51.87	69.76	47.25	36.72	142.09	44.10	19.84	87.04	47.00	53.54	142.36
29028	93.61	2.50	13.78	16.28	54.46	71.50	41.75	33.17	149.89	23.59	16.99	98.77	41.46	44.17	150.34
29029	78.94	3.10	13.78	35.23	17.62	35.38	16.08	88.86	80.41	173.44	45.58	49.25	19.24	83.52	83.23
29030	79.91	3.10	13.78	36.63	17.94	36.01	17.66	89.58	99.32	169.11	42.83	49.24	19.76	71.56	101.36
29031	80.88	3.10	13.78	39.72	18.93	37.62	21.42	90.25	119.00	166.04	40.36	48.00	22.45	63.38	120.58
29032	81.85	3.10	13.78	45.10	20.79	40.30	28.58	90.33	138.37	164.41	38.32	45.66	28.85	58.49	139.59
29033	82.82	3.10	13.78	52.49	23.55	43.54	40.58	88.50	154.30	163.16	36.85	42.62	40.55	53.74	155.18
29034	83.79	3.10	13.78	58.05	28.17	46.39	54.48	84.22	163.42	158.60	37.03	42.29	54.43	47.48	163.98
29035	84.76	3.10	13.78	56.91	33.20	50.07	63.46	80.80	168.90	147.10	38.68	49.26	63.39	50.04	169.18
29036	85.74	3.10	13.78	61.16	37.21	54.23	79.25	76.02	165.91	146.73	38.53	58.08	79.20	56.55	165.98
29037	86.71	3.10	13.78	56.77	39.69	57.95	80.74	70.79	158.11	134.82	38.11	64.13	80.67	64.77	158.06
29038	87.68	3.10	13.78	54.57	41.80	60.85	81.97	65.94	149.96	128.60	36.21	67.03	81.88	73.47	149.84
29039	88.65	3.10	13.78	50.98	43.38	62.93	77.48	60.72	141.75	118.52	33.53	67.62	77.37	76.00	141.62
29040	89.62	3.10	13.78	45.77	44.97	64.83	70.11	55.30	136.38	104.01	30.22	69.14	69.96	74.23	136.28
29041	90.59	3.10	13.78	39.58	46.80	66.67	61.88	50.10	134.50	86.26	26.56	72.56	61.67	69.97	134.51
29042	91.56	3.10	13.78	32.94	48.91	68.36	53.94	45.44	136.14	66.60	22.85	78.23	53.65	64.13	136.31
29043	92.54	3.10	13.78	26.23	51.26	69.84	47.06	41.57	141.18	46.18	19.46	86.42	46.69	57.07	141.58
29044	93.51	3.10	13.78	19.96	53.87	71.62	41.89	38.82	148.81	26.59	16.75	97.93	41.44	49.01	149.46
29045	78.95	2.50	12.09	42.88	20.59	50.49	13.64	105.18	105.84	219.07	54.22	74.09	17.14	89.36	107.00
29046	79.96	2.50	12.09	42.20	21.22	51.81	15.76	105.45	121.26	208.77	51.09	73.40	17.96	72.90	122.11
29047	80.96	2.50	12.09	42.24	22.55	54.23	19.76	105.18	136.11	198.82	48.17	70.91	20.88	58.81	136.74
29048	81.97	2.50	12.09	42.81	24.50	57.55	25.75	104.22	149.45	188.62	45.53	67.04	26.17	47.11	149.91
29049	82.97	2.50	12.09	43.20	26.93	61.53	32.98	102.39	160.47	177.50	43.28	63.19	33.06	38.07	160.79
29050	83.98	2.50	12.09	43.04	29.69	66.00	40.94	99.63	168.42	165.63	41.49	61.77	40.88	34.06	168.62
29051	84.98	2.50	12.09	42.69	32.64	70.73	49.20	95.78	172.40	154.49	39.81	63.86	49.10	36.93	172.50
29052	85.99	2.50	12.09	40.99	35.42	75.47	54.54	91.07	173.63	142.23	38.16	68.66	54.43	46.02	173.66
29053	86.99	2.50	12.09	39.77	38.13	80.04	59.07	85.63	172.53	132.33	36.06	74.39	58.96	56.77	172.51
29054	88.00	2.50	12.09	37.67	40.67	84.31	60.16	79.70	170.13	121.00	33.69	80.07	60.03	65.58	170.09
29055	89.00	2.50	12.09	35.34	43.19	88.31	59.31	73.47	168.01	109.25	30.86	85.96	59.18	71.57	167.96
29056	90.01	2.50	12.09	32.57	45.74	92.03	56.89	67.07	166.96	95.83	27.77	92.67	56.73	73.93	166.94
29057	91.01	2.50	12.09	29.28	48.40	95.44	53.68	60.59	167.68	80.46	24.60	101.24	53.50	73.02	167.71
29058	92.02	2.50	12.09	25.55	51.18	98.46	50.51	54.14	170.48	63.41	21.68	112.53	50.31	69.38	170.59
29059	93.02	2.50	12.09	21.57	54.13	101.16	48.03	47.89	175.32	45.17	19.48	127.34	47.84	63.44	175.53
29060	94.03	2.50	12.09	17.71	57.22	103.89	46.75	42.22	181.71	26.55	18.60	146.62	46.61	55.71	182.01
29061	78.95	3.10	12.09	43.35	20.81	52.31	12.85	108.24	105.01	217.29	54.26	76.38	18.00	91.87	106.75
29062	79.95	3.10	12.09	43.30	21.38	53.55	14.84	108.52	120.07	207.29	51.18	75.60	18.18	76.52	121.34
29063	80.95	3.10	12.09	44.09	22.76	55.82	18.66	108.17	134.56	197.64	48.38	73.02	20.41	63.47	135.49
29064	81.94	3.10	12.09	45.45	24.81	58.90	24.44	107.06	147.67	187.82	45.86	69.00	25.13	52.71	148.35
29065	82.94	3.10	12.09	46.63	27.43	62.58	31.64	105.05	158.45	177.15	43.73	64.89	31.79	44.41	158.93
29066	83.94	3.10	12.09	46.93	30.19	66.81	39.37	102.24	166.39	165.53	41.91	63.15	39.28	40.76	166.70
29067	84.94	3.10	12.09	47.28	33.07	71.33	47.79	98.32	170.33	155.03	40.14	64.74	47.63	42.65	170.49
29068	85.94	3.10	12.09	45.62	35.87	75.91	52.96	93.67	171.46	142.79	38.55	69.01	52.78	50.19	171.51
29069	86.94	3.10	12.09	44.60	38.51	80.36	57.48	88.43	170.46	133.06	36.42	74.38	57.29	59.86	170.43
29070	87.93	3.10	12.09	42.37	40.91	84.55	58.62	82.70	168.22	121.75	33.95	79.85	58.42	67.99	168.16
29071	88.93	3.10	12.09	39.84	43.25	88.48	57.95	76.73	166.31	110.02	30.99	85.62	57.73	73.72	166.24
29072	89.93	3.10	12.09	36.83	45.64	92.15	55.77	70.60	165.47	96.72	27.77	92.23	55.52	76.12	165.44
29073	90.93	3.10	12.09	33.28	48.15	95.52	52.84	64.44	166.37	81.57	24.52	100.64	52.56	75.48	166.42
29074	91.93	3.10	12.09	29.33	50.83	98.52	49.95	58.40	169.27	64.86	21.57	111.71	49.65	72.29	169.44
29075	92.92	3.10	12.09	25.24	53.67	101.22	47.74	52.71	174.18	47.16	19.38	126.22	47.46	67.03	174.49
29076	93.92	3.10	12.09	21.54	56.78	103.96	46.57	48.12	180.35	29.66	18.49	145.09	46.35	60.56	180.80
29077	78.97	2.50	10.41	49.65	23.55	66.33	11.51	129.63	129.03	256.65	59.11	101.81	16.80	95.84	129.72
29078	80.00	2.50	10.41	47.58	24.22	68.23	13.46	129.74	141.08	240.34	55.64	100.16	16.85	77.66	141.58
29079	81.03	2.50	10.41	45.89	25.45	71.43	16.67	129.06	152.45	224.55	52.28	96.74	18.53	61.39	152.81
29080	82.06	2.50	10.41	44.41	27.16	75.68	20.99								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
29107	93.31	3.10	10.41	25.12	56.27	135.36	48.85	63.59	198.72	49.21	22.05	165.39	48.66	75.42	198.93
29108	94.34	3.10	10.41	22.88	59.74	139.62	50.29	56.87	203.38	32.36	22.77	190.67	50.23	70.65	203.67
29109	78.98	2.50	8.72	55.08	25.76	81.57	9.71	154.83	151.34	286.44	60.32	130.48	17.04	96.25	151.73
29110	80.04	2.50	8.72	51.88	26.45	84.06	11.42	154.80	161.01	264.72	56.60	127.88	16.31	77.68	161.29
29111	81.10	2.50	8.72	49.07	27.62	88.11	14.05	153.74	170.14	244.42	52.92	123.65	16.89	60.99	170.33
29112	82.15	2.50	8.72	46.58	29.19	93.43	17.47	151.62	178.40	225.39	49.35	118.43	18.90	46.61	178.53
29113	83.21	2.50	8.72	44.32	31.08	99.69	21.45	148.42	185.56	207.52	45.91	113.01	22.03	36.09	185.63
29114	84.27	2.50	8.72	42.22	33.21	106.59	25.68	144.15	191.48	190.71	42.64	108.31	25.80	32.40	191.51
29115	85.33	2.50	8.72	40.23	35.53	113.90	29.89	138.86	196.15	174.95	39.49	105.25	29.77	36.77	196.15
29116	86.39	2.50	8.72	38.29	37.99	121.43	33.73	132.62	199.74	159.96	36.47	104.59	33.51	46.02	199.72
29117	87.45	2.50	8.72	36.37	40.56	129.05	37.12	125.56	202.52	145.60	33.60	106.89	36.84	56.57	202.48
29118	88.50	2.50	8.72	34.38	43.25	136.65	39.93	117.78	204.83	131.36	30.92	112.64	39.63	66.40	204.78
29119	89.56	2.50	8.72	32.27	46.05	144.17	42.26	109.39	207.02	116.88	28.55	122.25	41.97	74.47	206.97
29120	90.62	2.50	8.72	29.97	48.99	151.52	44.28	100.44	209.40	101.71	26.66	136.12	44.01	80.14	209.37
29121	91.68	2.50	8.72	27.51	52.06	158.67	46.21	90.96	212.17	85.55	25.47	154.59	45.99	83.14	212.16
29122	92.74	2.50	8.72	24.96	55.30	165.57	48.32	81.00	215.41	68.31	25.17	177.78	48.18	83.40	215.45
29123	93.79	2.50	8.72	22.58	58.74	172.23	50.83	70.79	219.05	50.19	25.90	205.62	50.78	81.10	219.14
29124	94.85	2.50	8.72	20.60	62.41	178.70	53.92	60.84	222.55	32.01	27.68	237.81	53.96	76.53	222.69
29125	78.98	3.10	8.72	55.13	25.69	83.98	9.93	155.45	150.44	283.95	59.94	132.72	19.78	96.39	151.04
29126	80.03	3.10	8.72	52.25	26.39	86.24	11.44	155.45	159.94	262.68	56.29	130.04	18.24	78.44	160.37
29127	81.08	3.10	8.72	49.77	27.59	90.02	13.88	154.44	168.90	242.77	52.69	125.74	17.98	62.47	169.20
29128	82.13	3.10	8.72	47.60	29.20	95.05	17.15	152.39	177.03	224.10	49.20	120.45	19.24	48.99	177.22
29129	83.18	3.10	8.72	45.66	31.13	101.02	21.01	149.27	184.07	206.55	45.85	114.94	21.85	39.47	184.19
29130	84.24	3.10	8.72	43.84	33.30	107.67	25.13	145.12	189.91	190.00	42.65	110.11	25.29	36.35	189.96
29131	85.29	3.10	8.72	42.11	35.64	114.76	29.27	139.98	194.53	174.48	39.58	106.84	29.07	40.38	194.54
29132	86.34	3.10	8.72	40.37	38.10	122.12	33.06	133.93	198.12	159.68	36.63	105.90	32.69	48.94	198.09
29133	87.39	3.10	8.72	38.63	40.66	129.59	36.43	127.09	200.93	145.50	33.80	107.87	35.98	58.95	200.88
29134	88.44	3.10	8.72	36.78	43.32	137.09	39.25	119.57	203.29	131.42	31.16	113.23	38.78	68.45	203.22
29135	89.50	3.10	8.72	34.80	46.08	144.51	41.63	111.47	205.55	117.13	28.82	122.42	41.16	76.37	205.48
29136	90.55	3.10	8.72	32.64	48.97	151.79	43.70	102.85	207.98	102.20	26.93	135.84	43.29	82.08	207.94
29137	91.60	3.10	8.72	30.32	52.01	158.87	45.70	93.76	210.79	86.35	25.73	153.80	45.36	85.27	210.78
29138	92.65	3.10	8.72	27.95	55.22	165.71	47.87	84.30	214.04	69.52	25.40	176.43	47.64	85.88	214.09
29139	93.70	3.10	8.72	25.78	58.60	172.33	50.44	74.75	217.71	52.01	26.10	203.65	50.35	84.09	217.84
29140	94.76	3.10	8.72	24.24	62.33	178.76	53.42	65.91	221.01	35.00	27.84	235.17	53.49	80.48	221.21
29141	78.99	2.50	7.03	58.84	27.26	96.49	8.26	180.45	172.75	305.33	58.25	159.08	17.49	91.02	172.94
29142	80.08	2.50	7.03	54.79	27.97	99.63	9.79	180.24	180.74	279.23	54.39	155.61	16.17	73.85	180.86
29143	81.16	2.50	7.03	51.28	29.12	104.66	12.07	178.76	188.28	255.68	50.56	150.66	15.99	58.49	188.36
29144	82.25	2.50	7.03	48.23	30.64	111.22	15.01	176.04	195.20	234.37	46.82	144.70	17.10	45.47	195.24
29145	83.33	2.50	7.03	45.59	32.46	118.93	18.41	172.10	201.34	215.03	43.26	138.34	19.35	36.41	201.35
29146	84.42	2.50	7.03	43.27	34.54	127.42	22.10	166.97	206.64	197.40	39.91	132.28	22.37	33.89	206.62
29147	85.50	2.50	7.03	41.18	36.81	136.41	25.86	160.74	211.11	181.16	36.82	127.36	25.77	38.59	211.07
29148	86.59	2.50	7.03	39.26	39.24	145.70	29.56	153.52	214.85	166.01	34.04	124.54	29.29	47.73	214.79
29149	87.67	2.50	7.03	37.39	41.83	155.12	33.09	145.40	218.02	151.50	31.65	124.93	32.73	58.39	217.95
29150	88.76	2.50	7.03	35.48	44.55	164.60	36.43	136.52	220.82	137.18	29.75	129.74	36.05	68.84	220.74
29151	89.84	2.50	7.03	33.44	47.40	174.08	39.60	126.96	223.45	122.51	28.46	140.06	39.24	78.04	223.37
29152	90.93	2.50	7.03	31.23	50.40	183.54	42.70	116.78	226.08	107.04	27.89	156.65	42.40	85.32	226.01
29153	92.01	2.50	7.03	28.85	53.55	192.97	45.86	105.99	228.80	90.43	28.11	179.74	45.64	90.16	228.75
29154	93.10	2.50	7.03	26.41	56.88	202.37	49.19	94.64	231.64	72.56	29.12	209.04	49.08	92.20	231.63
29155	94.18	2.50	7.03	24.17	60.44	211.67	52.81	82.90	234.49	53.66	30.85	243.78	52.83	91.24	234.53
29156	95.27	2.50	7.03	22.36	64.27	220.79	56.81	71.12	236.83	34.80	33.18	282.79	56.94	87.31	236.93
29157	78.99	3.10	7.03	58.81	27.24	99.15	8.96	180.63	171.77	302.70	57.96	161.23	20.88	90.90	172.05
29158	80.07	3.10	7.03	55.02	27.96	102.07	10.22	180.46	179.63	277.10	54.17	157.71	18.76	74.22	179.82
29159	81.15	3.10	7.03	51.77	29.14	106.81	12.27	179.05	187.06	253.98	50.42	152.73	17.71	59.44	187.17
29160	82.23	3.10	7.03	48.98	30.69	113.06	15.01	176.41	193.86	233.05	46.77	146.74	18.02	47.17	193.93
29161	83.30	3.10	7.03	46.58	32.55	120.47	18.27	172.57	199.92	214.02	43.30	140.33	19.63	38.94	199.94
29162	84.38	3.10	7.03	44.49	34.64	128.69	21.84	167.59	205.17	196.64	40.04	134.21	22.22	36.93	205.14
29163	85.46	3.10	7.03	42.61	36.93	137.46	25.52	161.53	209.61	180.62	37.03	129.17	25.36	41.48	209.56
29164	86.54	3.10	7.03	40.87	39.38	146.55	29.16	154.50	213.35	165.66	34.32	126.17	28.72	50.20	213.27
29165	87.62	3.10	7.03	39.16	41.95	155.83	32.65	146.61	216.55	151.31	31.98	126.30	32.09	60.49	216.44
29166	88.70	3.10	7.03	37.41	44.66	165.18	35.97	137.98	219.38	137.15	30.11	130.74	35.38	70.68	219.26
29167	89.78	3.10	7.03	35.53	47.49	174.56	39.15	128.70	222.05	122.67	28.83	140.58	38.59	79.77	221.93
29168	90.86	3.10	7.03	33.48	50.47	183.93	42.27	118.83	224.70	107.44	28.24	156.59	41.79	87.04	224.60
29169	91.94	3.10	7.03	31.30	53.61	193.29	45.43	108.41	227.44	91.14	28.42	179.02	45.09	92.01	227.36
29170	93.01	3.10	7.03	29.09	56.92	202.61	48.77	97.52	230.27	73.69	29.38	207.60	48.60	94.32	230.25
29171	94.09	3.10	7.03	27.11	60.44	211.85	52.40	86.36	233.15	55.39	31.06	241.57	52.42	93.78	233.21
29172	95.17	3.10	7.03	25.77	64.34	220.90	56.25	75.59	235.31	37.66	33.36	279.80	56.45	90.69	235.47
29173	79.01	2.50	5.34	60.30	27.85	111.61	7.18	206.55	193.31	309.17	52.95	186.03	17.76	81.90	193.37
29174	80.12	2.50	5.34	56.68	28.58	115.44	8.57	206.06	200.07	280.30	49.13	182.04	16.10	67.98	200.09
29175	81.23	2.50	5.34	51.77	29.74	121.56	10.70	204.10	206.44	255.06	45.37	176.67	15.48	55.47	206.45
29176	82.34	2.50	5.34	48.50	31.26	129.52	13.45	200.69	212.32	232.95	41.79	170.25	16.12	44.93	212.31
29177	83.45	2.50	5.34	45.79	33.09	138.85	16.65	195.90	217.62	213.53	38.48	163.22	17.93	37.75	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]
29205	64.12	2.50	17.16	8.05	58.13	11.96	17.35	3.40	12.38	7.62	88.61	12.34	18.13	5.33	15.28
29206	65.04	2.50	17.16	19.87	58.64	12.97	36.69	4.03	6.73	14.18	103.36	18.87	36.60	7.26	12.38
29207	65.96	2.50	17.16	31.63	58.89	13.31	56.77	5.90	4.65	19.72	114.34	20.84	56.62	20.77	11.39
29208	66.89	2.50	17.16	44.15	59.04	13.38	78.60	8.47	4.42	36.87	120.71	20.77	78.60	35.60	10.72
29209	67.81	2.50	17.16	58.70	59.32	13.45	104.14	11.57	6.30	69.34	121.86	20.68	104.36	50.84	10.76
29210	68.74	2.50	17.16	77.00	59.95	13.76	136.58	15.75	12.15	116.25	117.11	22.08	137.08	67.85	14.23
29211	69.66	2.50	17.16	100.95	60.89	14.58	181.49	22.41	26.66	177.97	105.22	27.08	182.38	90.31	27.40
29212	70.59	2.50	17.16	132.66	61.86	15.61	250.67	33.87	66.60	256.16	84.82	38.58	252.29	125.10	67.08
29213	71.51	2.50	17.16	174.40	66.29	10.39	378.05	53.25	216.62	352.02	64.03	76.56	381.68	184.84	218.64
29214	72.44	2.50	17.16	40.35	19.17	28.22	76.86	96.17	316.75	90.43	22.87	80.98	79.10	213.36	320.92
29215	73.36	2.50	17.16	16.52	43.07	14.63	18.44	87.28	192.94	19.76	46.74	43.37	25.53	146.44	199.22
29216	74.29	2.50	17.16	11.44	93.83	12.21	25.55	59.38	99.03	30.93	94.14	12.42	39.36	111.85	109.50
29217	75.21	2.50	17.16	12.25	91.93	15.68	35.03	42.99	64.08	54.57	91.93	17.60	48.95	83.99	76.05
29218	76.14	2.50	17.16	14.12	67.72	13.82	39.32	36.52	38.80	69.25	67.75	16.13	50.74	65.69	51.83
29219	77.06	2.50	17.16	14.44	37.47	10.15	41.00	34.38	18.54	77.87	37.70	12.40	48.56	52.32	34.52
29220	77.99	2.50	17.16	14.83	5.38	6.00	41.73	33.99	12.27	82.40	7.34	8.12	45.40	42.10	28.09
29221	64.23	3.10	17.16	9.23	56.88	12.10	17.99	3.68	12.79	8.52	85.80	12.44	19.07	4.74	16.83
29222	65.14	3.10	17.16	21.46	57.66	13.04	36.13	4.33	7.31	15.84	100.15	18.57	35.94	8.12	14.57
29223	66.06	3.10	17.16	34.04	58.68	13.37	55.39	6.33	5.22	23.63	111.00	20.46	55.15	21.26	13.63
29224	66.98	3.10	17.16	47.95	59.96	13.45	76.39	9.09	4.87	42.31	117.76	20.40	76.38	35.62	12.78
29225	67.90	3.10	17.16	64.73	61.84	13.56	100.99	12.58	6.46	75.45	119.96	20.34	101.32	50.41	12.35
29226	68.81	3.10	17.16	86.55	64.86	13.97	132.34	17.59	11.90	123.17	117.44	21.72	133.06	67.04	14.86
29227	69.73	3.10	17.16	116.34	68.81	15.07	176.91	25.98	26.09	186.84	109.24	26.60	178.20	89.28	27.16
29228	70.65	3.10	17.16	155.49	73.43	16.49	246.53	40.70	66.41	267.01	94.80	37.38	248.90	123.89	67.14
29229	71.57	3.10	17.16	208.98	81.99	10.98	375.53	65.52	217.71	367.56	81.66	70.42	380.89	182.54	220.80
29230	72.49	3.10	17.16	48.17	25.69	31.93	76.90	118.06	316.55	96.88	30.81	70.57	79.84	221.22	322.85
29231	73.40	3.10	17.16	17.05	66.31	12.84	22.22	110.12	203.58	38.39	66.87	53.36	41.38	178.77	214.79
29232	74.32	3.10	17.16	18.91	138.21	13.91	49.58	91.08	123.54	54.49	138.63	40.59	75.19	149.09	143.44
29233	75.23	3.10	17.16	17.46	121.74	14.89	60.87	80.89	82.25	61.46	123.56	38.20	84.53	125.36	103.47
29234	76.16	3.10	17.16	14.01	88.55	14.61	65.46	77.47	52.19	64.93	92.10	32.47	83.44	108.12	74.72
29235	77.07	3.10	17.16	10.33	48.96	14.35	67.52	76.64	28.81	66.96	55.65	26.90	78.54	94.52	54.27
29236	77.99	3.10	17.16	8.58	8.02	14.24	68.93	76.99	17.61	68.02	27.34	22.66	73.77	84.46	44.03
29237	63.70	2.50	15.47	6.90	56.95	35.98	14.06	10.47	22.56	7.45	66.75	43.50	12.81	18.74	31.72
29238	64.65	2.50	15.47	14.83	55.24	39.30	26.71	14.18	14.81	22.31	75.93	66.66	26.18	44.85	27.97
29239	65.60	2.50	15.47	23.10	53.74	40.81	41.67	18.83	10.20	44.61	83.89	76.22	41.51	73.59	26.28
29240	66.56	2.50	15.47	31.82	52.48	41.17	58.10	24.04	8.81	71.49	90.00	77.45	58.18	102.74	25.03
29241	67.51	2.50	15.47	40.95	51.52	41.09	76.08	29.61	10.50	100.91	93.46	75.93	76.35	130.55	24.14
29242	68.46	2.50	15.47	49.98	50.89	41.12	95.63	35.54	17.68	129.87	93.69	75.95	96.11	155.95	26.44
29243	69.41	2.50	15.47	57.50	50.32	41.62	115.47	41.87	33.75	153.31	90.23	81.12	116.28	177.56	38.33
29244	70.36	2.50	15.47	60.22	48.61	41.66	128.49	48.00	61.43	161.82	82.84	93.90	129.89	190.11	64.35
29245	71.31	2.50	15.47	52.79	41.53	36.74	101.31	52.19	79.34	138.44	74.89	94.63	103.48	173.07	82.47
29246	72.27	2.50	15.47	66.80	35.23	28.87	109.26	57.09	87.70	166.41	62.26	71.32	112.98	147.96	92.54
29247	73.22	2.50	15.47	53.17	26.33	24.60	68.75	68.51	96.35	161.48	52.02	38.02	73.49	151.87	104.08
29248	74.17	2.50	15.47	34.88	19.90	25.92	35.38	71.35	73.52	141.20	46.38	26.10	40.17	146.31	85.04
29249	75.12	2.50	15.47	28.30	14.83	28.02	27.19	67.45	41.23	131.99	41.76	26.23	30.84	131.76	57.28
29250	76.07	2.50	15.47	26.04	12.66	26.39	23.69	63.91	16.05	128.68	38.52	25.26	26.46	112.49	37.99
29251	77.02	2.50	15.47	24.93	11.77	22.58	22.10	62.31	14.16	127.40	36.16	22.29	24.20	93.46	32.38
29252	77.97	2.50	15.47	24.37	11.61	18.47	21.55	62.16	34.09	126.40	34.21	19.25	23.13	76.52	42.24
29253	63.81	3.10	15.47	7.87	56.06	36.40	14.70	11.31	23.64	8.43	65.08	43.58	12.91	20.93	36.19
29254	64.75	3.10	15.47	16.11	54.44	39.57	26.44	15.04	15.97	23.51	74.12	65.49	25.62	46.31	33.29
29255	65.70	3.10	15.47	25.00	53.37	41.02	40.66	19.76	11.66	45.81	81.92	74.60	40.42	74.15	31.83
29256	66.64	3.10	15.47	34.62	52.78	41.40	56.36	25.18	10.16	72.56	88.18	75.76	56.49	102.27	30.38
29257	67.59	3.10	15.47	44.94	52.83	41.41	73.57	31.17	11.36	101.78	92.17	74.30	73.99	129.01	28.89
29258	68.53	3.10	15.47	55.45	53.59	41.66	92.38	37.84	17.72	130.67	93.47	74.30	93.10	153.40	29.83
29259	69.48	3.10	15.47	64.52	54.79	42.58	111.57	45.29	32.97	154.32	91.82	79.14	112.75	174.16	39.71
29260	70.42	3.10	15.47	68.44	54.77	43.26	124.52	52.74	60.06	163.85	86.72	90.71	126.54	186.35	64.41
29261	71.37	3.10	15.47	59.38	47.76	38.32	97.99	57.46	77.77	142.19	79.38	89.90	100.97	171.10	82.31
29262	72.31	3.10	15.47	76.57	41.80	30.17	107.66	63.78	86.81	174.24	68.19	69.34	112.64	151.59	93.46
29263	73.26	3.10	15.47	54.66	37.74	24.94	60.99	78.70	92.49	156.83	64.26	39.15	66.15	156.91	101.96
29264	74.20	3.10	15.47	36.23	34.60	25.69	31.59	81.30	66.12	138.74	62.22	27.92	35.20	149.75	78.96
29265	75.14	3.10	15.47	29.04	23.73	26.80	22.30	78.07	35.92	130.39	53.81	25.74	24.90	134.63	53.48
29266	76.09	3.10	15.47	26.36	18.68	25.24	18.39	75.01	12.66	126.69	48.03	24.11	20.42	116.54	36.47
29267	77.03	3.10	15.47	25.04	16.69	22.38	16.84	73.75	15.06	124.97	44.27	22.15	18.57	99.49	32.61
29268	77.98	3.10	15.47	24.50	15.74	19.09	16.63	73.98	33.86	123.80	41.40	20.33	18.32	85.20	41.92
29269	63.29	2.50	13.78	6.56	59.89	62.77	11.78	18.93	21.34	15.30	51.36	109.31	10.99	49.06	38.79
29270	64.27	2.50	13.78	12.66	56.83	68.07	19.90	26.37	13.89	37.46	59.35	142.41	20.36	96.12	36.58
29271	65.24	2.50	13.78	19.20	53.95	70.46	29.52	33.42	9.92	66.46	66.62	155.73	30.60	137.87	35.42
29272	66.22	2.50	13.78	25.89	51.31	70.60	39.90	40.11	8.91	99.34	72.86	154.12	41.24	173.76	34.18
29273	67.20	2.50	13.78	32.24	48.89	69.32	50.40	46.42	8.40	131.09	77.69	144.30	51.89	202.25	32.24
29274	68.18	2.50	13.78	37.74	46.66	67.29	60.03	52.34	7.70	158.03	80.69	131.98	61.67	222.04	29.82
29275	69.16	2.50	13.78	41.86	44.44	64.73	66.95	57.85	9.66	177.19	81.67	120.10	68.85	231.30	28.35
29276	70.14	2.50	13.78	44.81	41.86	61.19	68.56	62.97	14.22	188.06	80.91	106.77	70.89	227.79	29.01
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Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
29303	64.88	2.50	12.09	20.77	56.83	102.91	20.95	49.40	13.75	105.93	51.55	259.92	27.22	218.75	45.05
29304	65.89	2.50	12.09	28.51	53.26	101.51	27.10	57.60	17.85	151.01	58.62	243.69	33.41	261.60	44.48
29305	66.89	2.50	12.09	35.81	49.84	97.88	32.89	64.54	21.15	193.17	65.05	214.94	38.91	288.37	43.44
29306	67.90	2.50	12.09	41.96	46.58	93.04	37.76	70.53	22.97	227.31	70.42	181.58	43.48	299.71	41.86
29307	68.90	2.50	12.09	46.74	43.44	87.69	41.09	75.95	23.55	251.53	74.37	149.03	46.65	297.87	39.88
29308	69.91	2.50	12.09	50.25	40.39	82.21	42.58	81.05	23.44	266.86	76.56	119.98	48.18	286.04	37.86
29309	70.91	2.50	12.09	52.27	37.29	76.68	40.85	85.88	23.93	273.63	77.18	95.02	46.70	266.65	36.66
29310	71.92	2.50	12.09	53.69	34.22	71.17	38.17	90.29	26.00	276.35	76.15	74.81	44.28	242.89	36.98
29311	72.92	2.50	12.09	53.60	31.01	65.88	32.58	94.15	30.21	274.13	73.96	61.42	39.08	218.15	39.34
29312	73.93	2.50	12.09	52.69	28.00	61.05	26.92	97.31	37.81	269.22	70.97	56.86	33.62	193.40	44.83
29313	74.93	2.50	12.09	50.90	25.33	56.82	21.58	99.82	48.21	261.71	67.70	59.46	28.27	170.30	53.30
29314	75.94	2.50	12.09	48.55	23.15	53.55	17.13	101.79	60.91	251.96	64.32	64.89	23.53	148.55	64.45
29315	76.94	2.50	12.09	46.22	21.58	51.38	14.33	103.32	75.23	241.02	60.90	69.77	20.08	127.70	77.64
29316	77.95	2.50	12.09	44.27	20.71	50.34	13.19	104.45	90.36	229.88	57.51	72.89	17.94	107.81	92.02
29317	62.98	3.10	12.09	8.39	64.10	95.66	10.71	29.52	18.80	32.28	37.94	214.35	15.68	91.07	55.57
29318	63.98	3.10	12.09	13.78	60.07	101.56	15.43	40.45	14.59	63.35	44.13	247.85	23.32	159.65	55.65
29319	64.97	3.10	12.09	21.31	56.47	103.44	20.97	50.11	15.73	106.43	50.89	253.28	29.89	217.07	54.79
29320	65.97	3.10	12.09	28.98	53.01	102.03	26.69	58.28	19.13	150.36	58.05	237.23	35.87	258.34	53.52
29321	66.97	3.10	12.09	36.21	49.77	98.53	32.11	65.27	22.12	191.36	64.54	209.25	41.02	283.95	51.63
29322	67.97	3.10	12.09	42.30	46.75	93.89	36.66	71.36	23.84	224.61	69.97	176.88	45.22	294.62	49.24
29323	68.97	3.10	12.09	47.02	43.90	88.77	39.76	76.91	24.45	248.30	73.98	145.34	48.13	292.55	46.57
29324	69.96	3.10	12.09	50.48	41.13	83.53	41.13	82.17	24.37	263.41	76.26	117.36	49.53	280.92	43.98
29325	70.96	3.10	12.09	52.33	38.23	78.18	39.37	87.17	24.88	270.11	76.98	93.54	48.08	262.01	42.24
29326	71.96	3.10	12.09	53.67	35.26	72.83	36.82	91.80	26.83	273.10	76.01	74.79	45.87	239.13	41.95
29327	72.96	3.10	12.09	53.27	32.23	67.67	31.12	95.95	30.95	270.68	74.10	62.96	40.62	215.28	43.68
29328	73.96	3.10	12.09	52.27	29.30	62.91	25.68	99.36	38.51	266.04	71.36	59.40	35.28	191.27	48.38
29329	74.96	3.10	12.09	50.36	26.39	58.66	20.40	102.19	48.69	258.65	68.10	62.21	29.94	169.02	55.92
29330	75.95	3.10	12.09	48.04	23.98	55.42	16.15	104.44	61.14	249.13	64.65	67.53	25.25	148.10	66.24
29331	76.95	3.10	12.09	45.88	22.15	53.27	13.51	106.17	75.09	238.54	61.08	72.26	21.70	128.14	78.62
29332	77.95	3.10	12.09	44.24	21.06	52.21	12.43	107.44	89.86	227.76	57.57	75.27	19.27	109.24	92.32
29333	62.46	2.50	10.41	9.59	70.11	132.85	9.11	40.07	13.14	44.75	44.95	378.92	23.49	145.54	59.50
29334	63.49	2.50	10.41	19.16	65.92	139.57	12.83	55.34	17.17	114.40	40.88	414.52	29.15	254.21	58.12
29335	64.52	2.50	10.41	29.79	61.59	139.23	16.59	67.71	25.41	181.41	40.44	395.90	34.02	333.64	56.88
29336	65.56	2.50	10.41	41.89	57.45	134.04	19.90	77.20	33.45	254.15	44.18	345.42	36.25	382.99	56.53
29337	66.59	2.50	10.41	52.06	53.25	126.17	22.71	83.91	40.20	312.39	50.83	280.64	37.60	399.64	57.56
29338	67.62	2.50	10.41	59.38	49.14	117.76	24.89	89.21	45.58	351.63	58.50	218.02	38.59	393.49	59.07
29339	68.65	2.50	10.41	64.00	45.20	109.72	26.25	94.16	49.85	373.51	65.49	164.80	39.11	373.36	60.57
29340	69.68	2.50	10.41	66.42	41.49	102.30	26.54	99.21	53.55	381.51	70.87	123.50	38.87	345.27	62.12
29341	70.71	2.50	10.41	67.25	38.05	95.47	25.82	104.41	57.26	379.78	74.28	94.97	37.81	313.29	64.11
29342	71.74	2.50	10.41	66.78	34.85	89.15	23.82	109.55	61.66	371.13	75.83	79.50	35.62	280.08	67.08
29343	72.78	2.50	10.41	65.47	31.95	83.28	21.23	114.35	67.34	358.47	75.76	75.73	32.79	247.38	71.57
29344	73.81	2.50	10.41	63.41	29.34	77.93	18.12	118.59	74.51	343.17	74.45	79.62	29.41	216.51	77.74
29345	74.84	2.50	10.41	60.83	27.11	73.26	15.17	122.17	83.30	326.41	72.19	86.53	25.97	187.90	85.73
29346	75.87	2.50	10.41	57.93	25.33	69.52	12.82	125.06	93.51	308.88	69.31	93.34	22.80	161.73	95.31
29347	76.90	2.50	10.41	54.95	24.11	67.00	11.30	127.26	104.80	291.12	66.06	98.46	20.08	137.81	106.11
29348	77.93	2.50	10.41	52.13	23.50	65.91	10.82	128.79	116.79	273.61	62.62	101.30	18.00	115.89	117.74
29349	62.56	3.10	10.41	10.15	70.08	133.96	10.74	40.90	16.38	47.75	45.49	370.64	28.54	147.73	72.06
29350	63.59	3.10	10.41	19.69	65.65	140.27	14.06	55.92	19.39	116.18	40.61	404.29	35.29	253.00	70.38
29351	64.61	3.10	10.41	30.10	61.27	139.79	17.39	68.10	26.73	181.47	40.16	385.78	40.50	329.75	67.92
29352	65.64	3.10	10.41	41.91	57.07	134.67	20.29	77.51	34.31	252.18	44.22	336.69	42.58	377.39	65.89
29353	66.66	3.10	10.41	51.83	52.91	126.99	22.76	84.26	40.80	308.83	51.10	273.74	43.54	393.30	65.33
29354	67.69	3.10	10.41	58.96	48.88	118.81	24.67	89.67	46.04	346.99	58.79	212.93	44.11	386.99	65.51
29355	68.71	3.10	10.41	63.47	45.08	111.00	25.85	94.72	50.23	368.26	65.65	161.44	44.25	367.08	65.90
29356	69.74	3.10	10.41	65.79	41.53	103.80	26.01	99.87	53.90	376.04	70.86	121.85	43.70	339.46	66.53
29357	70.76	3.10	10.41	66.56	38.23	97.18	25.25	105.15	57.57	374.39	74.10	95.13	42.38	308.13	67.72
29358	71.79	3.10	10.41	66.03	35.13	91.04	23.24	110.36	61.93	365.95	75.54	81.33	39.99	275.66	70.00
29359	72.81	3.10	10.41	64.70	32.26	85.31	20.74	115.23	67.54	353.70	75.38	78.61	37.02	243.75	73.84
29360	73.84	3.10	10.41	62.63	29.62	80.07	17.72	119.58	74.58	338.76	73.99	82.82	33.47	213.68	79.43
29361	74.86	3.10	10.41	60.10	27.34	75.50	14.90	123.26	83.23	322.47	71.70	89.62	29.82	185.82	86.89
29362	75.89	3.10	10.41	57.32	25.49	71.82	12.64	126.26	93.26	305.40	68.81	96.19	26.32	160.39	95.98
29363	76.91	3.10	10.41	54.53	24.18	69.32	11.18	128.56	104.38	288.09	65.59	101.10	23.18	137.19	106.37
29364	77.94	3.10	10.41	51.99	23.51	68.18	10.69	130.16	116.18	271.01	62.17	103.77	20.58	115.99	117.63
29365	62.05	2.50	8.72	20.61	77.94	180.55	11.11	55.15	13.29	122.78	93.91	630.99	38.13	244.38	83.36
29366	63.11	2.50	8.72	30.21	73.22	186.90	14.95	76.98	25.60	195.09	76.08	651.56	48.93	411.33	73.23
29367	64.16	2.50	8.72	56.26	69.60	179.75	17.04	94.11	39.02	359.25	66.62	568.06	45.90	530.22	65.15
29368	65.22	2.50	8.72	75.15	64.56	164.97	17.86	100.82	50.95	469.66	51.51	434.18	42.12	552.39	66.91
29369	66.28	2.50	8.72	86.21	59.09	151.04	18.08	103.78	60.81	528.88	43.23	315.46	39.92	528.43	72.06
29370	67.34	2.50	8.72	91.36	53.69	139.25	18.06	106.64	68.81	551.55	45.97	222.70	38.92	485.48	77.47
29371	68.40	2.50	8.72	92.53	48.65	129.36	17.83	110.71	75.46	550.32	54.32	155.83	38.34	436.56	82.34
29372	69.45	2.50	8.72	91.17	44.08	120.82	17.32	116.07	81.27	534.34	62.71	113.45	37.57	387.62	86.75
29373	70.51	2.50	8.72	88.27	40.02	113.19	16.43	122.24	86.79	509.76	69.04	94.06	36.28	341.18	91.09
29374	71.57	2.50	8.72	84.52	36.45</										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
29401	65.97	2.50	7.03	145.26	67.73	168.74	16.90	118.52	82.60	874.99	72.19	280.03	34.98	613.97	88.50
29402	67.06	2.50	7.03	139.16	60.01	156.78	14.73	118.92	92.48	829.17	48.56	181.72	35.53	525.12	97.37
29403	68.14	2.50	7.03	130.75	53.21	147.21	13.25	123.66	100.49	771.13	45.48	125.29	36.74	449.65	104.56
29404	69.23	2.50	7.03	121.55	47.36	138.85	12.17	130.92	107.42	709.33	53.30	104.41	37.39	385.86	110.71
29405	70.31	2.50	7.03	112.36	42.41	131.08	11.26	139.28	113.82	648.24	61.69	107.38	37.01	331.73	116.39
29406	71.40	2.50	7.03	103.57	38.26	123.66	10.38	147.74	120.11	590.21	67.55	119.40	35.64	285.46	122.05
29407	72.48	2.50	7.03	95.35	34.83	116.59	9.52	155.69	126.56	536.40	70.65	132.29	33.50	245.63	128.00
29408	73.57	2.50	7.03	87.75	32.05	110.01	8.71	162.77	133.37	487.23	71.48	143.25	30.86	211.10	134.41
29409	74.65	2.50	7.03	80.78	29.90	104.22	8.03	168.76	140.62	442.72	70.57	151.55	27.97	180.96	141.37
29410	75.74	2.50	7.03	74.41	28.36	99.59	7.53	173.56	148.30	402.64	68.44	157.13	25.02	154.46	148.84
29411	76.82	2.50	7.03	68.63	27.42	96.55	7.30	177.11	156.33	366.65	65.48	160.11	22.18	130.98	156.70
29412	77.91	2.50	7.03	63.44	27.06	95.45	7.48	179.41	164.54	334.35	62.00	160.68	19.59	109.97	164.81
29413	61.73	3.10	7.03	12.88	88.55	252.97	21.44	79.28	10.71	52.81	171.61	1085.97	101.16	421.62	152.70
29414	62.81	3.10	7.03	99.34	91.69	249.23	26.00	134.31	32.21	634.75	205.00	997.23	74.51	835.47	81.96
29415	63.89	3.10	7.03	134.13	84.29	211.14	23.94	132.23	54.50	834.23	157.09	652.78	54.38	806.44	74.47
29416	64.96	3.10	7.03	144.76	75.55	186.55	20.56	123.45	71.15	883.31	107.36	424.80	45.66	708.11	83.04
29417	66.04	3.10	7.03	143.92	66.95	170.17	17.77	118.59	83.45	866.34	67.75	275.23	43.77	607.70	92.64
29418	67.12	3.10	7.03	137.76	59.18	158.36	15.87	119.21	92.93	820.16	46.68	179.69	44.91	519.34	100.61
29419	68.20	3.10	7.03	129.31	52.46	148.93	14.61	124.05	100.67	761.92	46.35	125.94	46.43	444.35	107.05
29420	69.28	3.10	7.03	120.12	46.76	140.70	13.65	131.33	107.42	700.23	54.80	107.10	46.97	381.10	112.55
29421	70.36	3.10	7.03	110.98	41.97	133.08	12.78	139.65	113.70	639.57	62.81	110.80	46.19	327.55	117.68
29422	71.44	3.10	7.03	102.28	37.96	125.84	11.90	148.06	119.88	582.21	68.15	122.75	44.21	281.89	122.89
29423	72.52	3.10	7.03	94.17	34.64	118.94	11.02	155.95	126.25	529.22	70.83	135.37	41.36	242.65	128.48
29424	73.60	3.10	7.03	86.71	31.94	112.54	10.16	162.98	132.97	480.92	71.36	146.07	37.97	208.68	134.59
29425	74.67	3.10	7.03	79.89	29.83	106.91	9.41	168.93	140.12	437.29	70.29	154.16	34.31	179.05	141.28
29426	75.75	3.10	7.03	73.71	28.31	102.40	8.81	173.70	147.69	398.03	68.07	159.57	30.62	153.03	148.52
29427	76.83	3.10	7.03	68.13	27.38	99.41	8.45	177.25	155.60	362.78	65.10	162.42	27.04	129.99	156.19
29428	77.91	3.10	7.03	63.17	27.03	98.26	8.43	179.56	163.69	331.14	61.66	162.90	23.74	109.41	164.10
29429	61.22	2.50	5.34	359.84	153.25	435.25	78.53	278.81	39.20	2245.32	664.74	2423.26	82.50	1789.08	99.91
29430	62.33	2.50	5.34	333.98	122.40	256.94	57.51	190.14	36.72	2001.46	417.74	964.84	56.52	1189.82	60.25
29431	63.44	2.50	5.34	291.27	105.24	215.31	38.91	141.94	72.53	1707.10	290.26	537.46	37.84	859.07	81.62
29432	64.55	2.50	5.34	252.69	90.74	195.74	25.72	121.06	93.17	1468.34	195.27	317.06	25.85	662.48	98.90
29433	65.67	2.50	5.34	220.18	78.02	184.08	17.30	117.71	106.89	1275.75	123.47	192.92	22.76	533.89	111.10
29434	66.78	2.50	5.34	192.99	67.07	175.25	12.57	123.73	117.07	1116.06	73.58	128.57	26.58	442.10	120.32
29435	67.89	2.50	5.34	170.07	57.96	167.32	10.36	133.93	125.32	980.35	48.19	110.80	31.75	372.40	127.83
29436	69.00	2.50	5.34	150.59	50.52	159.53	9.46	145.55	132.51	863.42	46.30	120.07	35.37	317.26	134.41
29437	70.11	2.50	5.34	133.93	44.50	151.57	9.01	157.18	139.16	762.09	53.62	136.86	36.85	272.39	140.55
29438	71.22	2.50	5.34	119.62	39.65	143.47	8.63	168.10	145.59	674.11	60.30	152.88	36.46	235.10	146.58
29439	72.34	2.50	5.34	107.26	35.78	135.41	8.22	177.91	152.01	597.72	64.23	165.96	34.74	203.56	152.70
29440	73.45	2.50	5.34	96.54	32.75	127.72	7.77	186.40	158.56	531.38	65.60	175.83	32.19	176.50	159.03
29441	74.56	2.50	5.34	87.20	30.47	120.85	7.29	193.45	165.29	473.76	65.00	182.72	29.21	152.98	165.60
29442	75.67	2.50	5.34	79.04	28.88	115.31	6.85	199.00	172.20	423.70	63.02	186.92	26.08	132.26	172.41
29443	76.78	2.50	5.34	71.90	27.95	111.65	6.53	203.03	179.24	380.15	60.13	188.71	23.00	113.79	179.38
29444	77.89	2.50	5.34	65.68	27.62	110.34	6.56	205.54	186.33	342.24	56.68	188.33	20.16	97.11	186.42
29445	61.31	3.10	5.34	357.11	153.70	431.50	76.17	276.06	34.07	2233.67	659.13	2375.38	92.44	1776.24	135.72
29446	62.42	3.10	5.34	331.13	122.99	257.39	54.89	188.60	39.89	1988.21	416.66	945.74	54.60	1182.13	77.06
29447	63.52	3.10	5.34	289.02	105.59	216.43	36.89	141.40	74.62	1696.53	287.52	525.00	36.18	854.14	89.09
29448	64.63	3.10	5.34	250.84	90.53	197.15	24.55	121.18	94.53	1459.33	189.93	309.75	26.53	658.71	103.31
29449	65.73	3.10	5.34	218.56	77.31	185.62	17.22	118.15	107.69	1267.24	116.90	189.85	27.72	530.58	114.15
29450	66.84	3.10	5.34	191.43	66.13	176.88	13.62	124.26	117.45	1107.24	68.20	129.34	34.82	438.95	122.49
29451	67.95	3.10	5.34	168.51	57.03	169.07	12.20	134.43	125.41	971.06	46.57	114.02	41.58	369.38	129.32
29452	69.05	3.10	5.34	149.03	49.76	161.40	11.64	145.96	132.40	853.97	47.64	123.77	45.66	314.44	135.35
29453	70.16	3.10	5.34	132.42	43.94	153.61	11.25	157.48	138.91	752.92	55.30	140.27	46.89	269.85	141.06
29454	71.26	3.10	5.34	118.21	39.28	145.70	10.81	168.28	145.22	665.60	61.47	155.92	45.89	232.87	146.75
29455	72.37	3.10	5.34	105.99	35.55	137.85	10.27	177.99	151.54	590.09	64.86	168.71	43.36	201.66	152.61
29456	73.47	3.10	5.34	95.44	32.63	130.38	9.69	186.39	157.99	524.72	65.83	178.37	39.94	174.92	158.72
29457	74.58	3.10	5.34	86.29	30.42	123.71	9.08	193.37	164.62	468.08	64.98	185.11	36.09	151.69	165.12
29458	75.69	3.10	5.34	78.32	28.88	118.33	8.50	198.88	171.44	418.93	62.88	189.20	32.13	131.26	171.77
29459	76.79	3.10	5.34	71.40	27.97	114.76	8.04	202.89	178.38	376.22	59.95	190.92	28.26	113.06	178.60
29460	77.90	3.10	5.34	65.40	27.67	113.42	7.86	205.40	185.35	339.03	56.51	190.49	24.68	96.66	185.50
29461	78.90	3.95	17.16	6.60	6.12	23.22	12.11	129.64	36.92	48.52	11.03	25.82	13.15	129.98	54.02
29462	79.81	3.95	17.16	7.45	8.62	27.40	11.24	130.72	72.65	48.11	11.18	28.59	12.03	129.95	81.68
29463	80.71	3.95	17.16	9.68	11.69	32.97	11.99	134.49	111.59	49.32	12.88	34.01	12.22	136.70	117.11
29464	81.61	3.95	17.16	15.01	11.04	36.52	13.38	142.40	153.96	54.02	12.15	39.03	13.39	151.21	157.65
29465	82.52	3.95	17.16	25.03	7.13	37.03	15.47	152.87	203.35	63.62	8.43	43.02	15.47	170.82	205.99
29466	83.42	3.95	17.16	44.63	13.47	39.99	28.85	166.43	271.51	83.79	12.56	49.69	28.92	195.89	273.57
29467	84.32	3.95	17.16	81.36	34.55	60.18	79.87	184.42	382.76	126.81	32.97	69.27	80.10	229.85	384.65
29468	85.23	3.95	17.16	347.37	102.72	16.82	405.63	104.30	275.87	495.75	99.10	59.83	406.23	161.83	276.39
29469	86.13	3.95	17.16	263.52	79.42	17.40	258.57	63.82	103.71	384.98	71.62	31.66	258.55	98.92	103.53
29470	87.04	3.97	17.16	193.68	65.45	14.90	180.76	40.11	58.22	291.39	56.84	20.93	180.73	63.24	58.06
29471	87.94	3.97	17.16												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
29499	83.99	6.18	17.16	303.27	271.21	64.68	86.33	242.08	337.82	355.78	272.41	66.27	86.36	264.16	341.69
29500	84.85	6.18	17.16	450.71	343.83	28.07	209.58	122.31	212.87	532.56	343.91	37.35	208.63	144.70	212.98
29501	85.70	6.18	17.16	324.92	128.95	16.63	164.12	67.72	79.42	398.52	124.48	23.66	163.80	84.09	78.96
29502	86.55	6.19	17.16	247.32	86.97	14.95	127.77	47.84	46.79	310.67	80.72	18.11	127.72	59.91	46.38
29503	87.41	6.19	17.16	191.18	63.61	13.69	103.99	36.29	35.84	243.26	54.84	15.07	103.99	45.70	35.31
29504	88.26	6.20	17.16	147.70	51.60	13.14	86.45	29.16	31.45	188.22	39.89	13.77	86.38	36.95	30.95
29505	89.11	6.20	17.16	112.65	45.77	13.06	72.45	24.72	29.94	141.74	30.77	13.48	72.15	31.30	29.62
29506	89.96	6.20	17.16	83.07	43.99	13.20	60.38	22.02	30.37	101.34	25.92	13.76	59.62	27.35	30.41
29507	90.82	6.21	17.16	56.88	45.11	13.46	49.14	20.62	32.86	65.55	25.04	14.45	47.51	24.38	33.56
29508	91.67	6.21	17.16	32.56	48.98	13.82	37.91	20.55	38.69	33.71	28.92	14.98	34.55	22.67	40.62
29509	78.86	7.25	17.16	48.39	6.46	24.27	1.64	179.08	19.96	66.97	17.07	28.92	15.53	177.81	43.64
29510	79.68	7.25	17.16	162.82	24.90	40.19	17.07	214.04	56.45	166.42	27.71	46.94	39.40	213.31	78.05
29511	80.50	7.25	17.16	21.59	6.79	22.03	1.14	265.93	105.93	48.54	14.29	35.73	4.56	266.30	124.18
29512	81.32	7.26	17.16	142.12	17.87	18.36	42.82	249.92	121.12	160.63	18.42	26.11	44.86	252.32	131.92
29513	82.14	7.26	17.16	24.52	7.67	59.51	23.91	295.13	183.04	41.36	8.36	63.42	26.73	302.32	191.13
29514	82.96	7.26	17.16	127.00	57.74	84.93	32.27	341.96	299.07	149.64	59.63	87.24	32.47	355.66	307.05
29515	83.78	7.26	17.16	599.11	169.80	21.52	236.26	215.70	248.55	662.28	169.47	24.76	238.88	226.99	252.79
29516	84.59	7.26	17.16	448.79	193.40	18.21	159.28	121.97	129.32	501.98	193.62	21.10	160.04	129.19	129.71
29517	85.41	7.27	17.16	340.02	149.01	15.97	134.12	71.74	74.72	392.22	145.91	18.77	133.97	78.50	74.15
29518	86.23	7.27	17.16	263.72	92.48	14.93	105.88	50.89	44.84	311.98	86.62	16.52	105.84	57.30	44.16
29519	87.05	7.27	17.16	206.85	66.40	13.77	87.92	39.74	33.70	248.65	57.90	14.54	87.94	45.67	32.98
29520	87.87	7.27	17.16	162.11	51.18	13.27	75.60	32.76	29.54	195.96	39.19	13.64	75.53	38.28	28.87
29521	88.69	7.27	17.16	125.38	43.09	13.19	65.93	28.31	28.44	150.55	26.88	13.45	65.61	33.38	27.99
29522	89.51	7.27	17.16	94.03	40.16	13.33	57.51	25.60	29.26	110.43	20.20	13.73	56.69	30.03	29.24
29523	90.33	7.28	17.16	66.11	41.41	13.59	49.53	24.25	32.01	74.28	20.73	14.34	47.78	27.74	32.77
29524	91.15	7.28	17.16	40.11	46.25	13.97	41.40	24.31	37.95	41.41	28.24	14.86	37.94	26.71	40.12
29525	78.92	3.95	15.47	25.67	17.09	22.52	19.32	97.02	51.51	119.74	34.92	28.71	22.11	95.94	57.31
29526	79.85	3.95	15.47	29.02	18.52	23.84	18.76	97.87	71.85	119.33	32.74	29.17	20.91	90.98	76.16
29527	80.78	3.95	15.47	34.93	20.42	24.46	20.69	100.99	96.71	121.23	31.74	27.76	21.69	91.56	100.20
29528	81.71	3.96	15.47	45.30	19.58	27.96	25.77	105.89	123.35	127.52	30.48	28.84	26.01	97.24	126.14
29529	82.64	3.96	15.47	62.08	18.39	34.53	35.39	108.01	152.88	140.15	29.15	33.01	35.39	101.50	155.04
29530	83.57	3.96	15.47	88.28	27.33	39.57	59.26	101.52	183.94	162.97	32.94	37.04	59.33	96.21	185.48
29531	84.50	3.96	15.47	126.09	43.89	31.45	111.46	77.89	181.82	201.21	43.41	43.59	111.73	69.72	182.62
29532	85.43	3.96	15.47	96.05	47.92	35.83	100.16	71.74	172.16	156.45	47.80	61.74	100.29	75.39	172.33
29533	86.36	3.96	15.47	110.29	54.21	41.52	131.66	69.78	152.63	182.72	50.47	65.13	131.73	92.13	152.45
29534	87.29	3.96	15.47	105.60	51.36	40.42	121.33	62.47	122.10	177.50	45.56	52.90	121.32	87.82	121.81
29535	88.23	3.97	15.47	92.25	48.39	39.10	103.95	54.07	103.50	157.08	39.95	45.46	103.91	78.22	103.18
29536	89.16	3.97	15.47	76.83	46.68	38.87	87.27	46.90	93.65	131.10	34.70	42.57	87.15	68.80	93.38
29537	90.09	3.97	15.47	61.70	46.42	39.30	72.26	41.32	89.54	103.71	30.08	42.50	72.02	60.50	89.43
29538	91.02	3.97	15.47	47.52	47.25	40.01	58.79	37.28	89.83	76.58	25.97	44.33	58.36	53.06	90.02
29539	91.95	3.97	15.47	34.34	48.81	40.76	46.70	34.76	94.37	50.47	22.57	47.58	45.96	46.21	95.03
29540	92.88	3.97	15.47	22.22	50.80	41.84	36.47	33.76	103.81	26.58	20.43	51.37	35.22	39.99	105.15
29541	78.90	5.05	15.47	27.78	15.44	32.51	14.12	133.91	53.40	115.15	29.32	43.30	18.49	132.16	64.07
29542	79.81	5.06	15.47	40.93	15.43	39.19	10.93	128.00	75.98	119.26	29.53	47.45	14.60	122.14	83.22
29543	80.72	5.06	15.47	41.86	14.54	37.99	9.25	125.08	104.59	120.11	29.28	43.89	12.86	117.00	109.70
29544	81.63	5.06	15.47	49.18	15.25	40.05	17.29	135.42	137.23	123.62	26.68	43.50	18.11	128.09	141.14
29545	82.54	5.07	15.47	79.66	17.16	48.60	36.71	139.39	169.12	147.81	23.77	49.46	36.70	133.93	172.17
29546	83.45	5.07	15.47	128.19	32.17	51.66	64.10	122.94	187.79	192.12	34.84	50.51	64.16	117.72	189.91
29547	84.36	5.07	15.47	158.22	63.25	38.98	101.87	87.93	169.10	221.96	63.83	43.77	102.05	78.95	170.06
29548	85.27	5.08	15.47	108.87	59.99	37.03	84.17	81.05	158.34	160.88	60.62	54.14	84.18	80.85	158.47
29549	86.18	5.08	15.47	134.44	61.79	42.65	119.20	81.58	142.92	194.27	58.78	60.03	119.27	96.17	142.58
29550	87.09	5.08	15.47	126.61	56.97	41.08	108.83	72.90	114.59	185.98	51.79	50.51	108.80	90.84	114.08
29551	87.99	5.09	15.47	110.20	50.61	39.56	94.24	63.56	98.12	164.06	42.25	44.48	94.15	81.60	97.57
29552	88.90	5.09	15.47	91.97	46.64	39.17	80.36	55.74	89.75	137.40	34.27	42.09	80.16	72.83	89.29
29553	89.81	5.10	15.47	74.28	45.00	39.52	67.89	49.78	86.66	109.67	27.90	42.12	67.49	65.29	86.44
29554	90.72	5.10	15.47	57.80	45.18	40.18	56.66	45.61	87.62	82.37	23.14	43.85	55.97	58.84	87.87
29555	91.63	5.10	15.47	42.61	46.65	40.95	46.59	43.16	92.51	56.24	20.33	46.89	45.46	53.25	93.47
29556	92.54	5.11	15.47	28.70	48.79	42.15	38.14	42.27	101.80	32.50	19.74	50.60	36.34	48.36	103.74
29557	78.89	6.15	15.47	32.59	12.99	40.29	3.93	168.87	54.04	111.32	31.90	54.65	12.84	166.06	71.54
29558	79.77	6.16	15.47	59.24	13.10	49.93	3.73	154.98	78.12	124.50	30.96	61.29	8.72	149.15	89.23
29559	80.65	6.16	15.47	51.01	14.99	43.85	4.72	144.30	104.65	122.47	30.32	53.65	10.07	136.69	112.00
29560	81.54	6.16	15.47	53.58	20.00	42.03	5.02	161.72	139.45	121.54	30.95	49.82	10.08	154.78	145.17
29561	82.42	6.17	15.47	109.72	40.58	49.50	22.47	162.70	172.20	167.67	46.86	53.70	22.89	156.82	176.67
29562	83.30	6.17	15.47	160.75	65.65	47.20	48.88	134.96	186.38	216.23	69.18	47.25	48.88	127.87	189.73
29563	84.18	6.18	15.47	159.60	44.67	39.41	86.54	111.47	174.76	209.51	46.13	40.87	87.22	104.17	176.56
29564	85.06	6.18	15.47	150.11	44.63	39.17	96.29	99.61	156.87	196.53	43.47	47.86	96.88	98.63	157.09
29565	85.94	6.18	15.47	159.07	73.04	41.74	103.97	92.82	132.31	208.36	70.87	50.94	104.05	99.89	131.79
29566	86.82	6.19	15.47	144.98	61.62	41.11	95.16	81.96	107.09	193.38	56.48	46.76	95.10	92.64	106.34
29567	87.71	6.19	15.47	125.51	52.50	39.88	83.53	72.19	92.55	169.73	43.99	42.99	83.37	84.31	91.75
29568	88.59	6.19	15.47	105.23	46.35	39.50	72.68	64.20	85.52	142.95	33.56	41.41	72.35	76.67	84.83
29569	89.47	6.20	15.47	85.75	43.29	39.79	62.95	58.15	83.38	115.45	25.46	41.64	62.30	70.22	83.04
29570	90.35	6.20	15.47	67.											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
29597	86.60	3.96	13.78	67.65	41.36	58.54	76.38	77.10	153.70	138.28	39.77	62.76	76.26	69.49	153.62
29598	87.55	3.96	13.78	64.86	42.97	61.30	77.65	72.55	146.02	131.37	37.42	65.89	77.50	76.96	145.83
29599	88.51	3.97	13.78	60.50	43.83	63.25	73.76	67.47	138.46	120.98	33.95	66.81	73.57	79.24	138.24
29600	89.47	3.97	13.78	54.31	44.78	65.04	67.21	62.12	133.69	106.39	29.95	68.47	66.96	77.69	133.53
29601	90.43	3.97	13.78	47.08	46.15	66.82	59.89	57.05	132.28	88.81	25.85	71.85	59.54	73.95	132.28
29602	91.39	3.97	13.78	39.50	47.99	68.48	52.82	52.67	134.23	69.51	21.98	77.34	52.36	68.91	134.48
29603	92.34	3.97	13.78	32.01	50.19	69.98	46.76	49.21	139.38	49.70	18.69	85.22	46.17	62.93	139.97
29604	93.30	3.97	13.78	25.15	52.61	71.86	42.44	46.99	147.61	31.08	16.37	96.33	41.75	56.30	148.61
29605	78.92	5.05	13.78	39.10	18.42	43.67	9.47	116.95	78.01	167.63	45.18	62.31	17.76	109.81	84.80
29606	79.86	5.06	13.78	44.36	18.21	45.67	10.99	117.20	96.52	164.67	42.37	62.78	16.74	102.06	101.38
29607	80.79	5.06	13.78	52.74	19.10	47.92	14.65	116.64	115.07	163.66	40.13	61.64	17.53	95.85	118.70
29608	81.73	5.06	13.78	63.43	22.08	49.56	21.11	113.54	132.92	165.23	39.46	58.18	22.07	88.98	135.65
29609	82.67	5.07	13.78	74.53	28.05	50.30	31.15	108.59	147.46	166.58	41.06	52.73	31.20	81.46	149.46
29610	83.60	5.07	13.78	80.93	32.92	51.15	44.48	102.40	155.83	163.60	41.66	48.84	44.26	74.03	157.13
29611	84.54	5.07	13.78	80.44	35.21	53.35	54.29	98.37	160.99	153.98	40.41	50.90	54.04	73.80	161.65
29612	85.48	5.08	13.78	89.61	41.08	56.41	69.92	92.49	156.01	157.83	42.21	56.07	69.77	74.42	156.18
29613	86.41	5.08	13.78	81.33	43.68	59.41	69.52	86.20	147.18	143.14	41.98	60.84	69.28	76.50	147.05
29614	87.35	5.08	13.78	77.99	44.41	61.94	71.08	81.88	140.01	135.49	38.77	64.15	70.81	82.21	139.71
29615	88.29	5.09	13.78	72.56	44.33	63.71	67.96	76.90	133.31	124.56	34.38	65.53	67.63	84.03	132.97
29616	89.22	5.09	13.78	65.21	44.37	65.37	62.65	71.67	129.43	109.93	29.47	67.41	62.21	82.83	129.17
29617	90.16	5.09	13.78	56.84	45.09	67.06	56.70	66.82	128.74	92.68	24.76	70.72	56.11	79.89	128.71
29618	91.10	5.10	13.78	48.21	46.51	68.67	50.99	62.78	131.14	74.01	20.67	75.91	50.22	75.97	131.49
29619	92.03	5.10	13.78	39.82	48.46	70.22	46.14	59.79	136.47	55.11	17.56	83.33	45.21	71.41	137.31
29620	92.97	5.10	13.78	32.08	50.69	72.26	42.79	57.89	144.38	37.53	15.61	93.89	41.73	66.33	145.82
29621	78.91	6.15	13.78	42.32	17.91	49.32	6.53	134.09	76.46	163.98	43.62	71.92	17.70	125.84	86.40
29622	79.82	6.16	13.78	49.50	17.29	51.88	6.80	134.06	95.19	161.95	41.09	72.38	15.41	119.67	102.36
29623	80.73	6.16	13.78	62.26	19.00	54.61	8.75	132.80	114.38	163.20	39.76	71.50	13.43	113.96	119.69
29624	81.64	6.16	13.78	76.91	23.73	55.24	15.74	126.05	131.53	168.25	40.23	67.01	16.80	103.79	135.44
29625	82.55	6.17	13.78	85.64	28.74	53.84	25.75	119.45	144.36	168.21	40.78	59.15	25.52	94.86	147.17
29626	83.46	6.17	13.78	90.95	33.30	53.98	38.30	114.51	151.01	164.49	41.34	53.80	37.80	89.60	152.78
29627	84.37	6.17	13.78	97.32	44.02	55.46	47.55	108.06	152.52	163.22	48.27	53.04	47.13	85.19	153.45
29628	85.28	6.18	13.78	99.26	48.57	58.01	57.55	102.57	147.92	158.93	49.75	56.00	57.18	84.36	148.28
29629	86.19	6.18	13.78	94.07	45.04	60.62	62.10	96.46	140.66	148.23	42.75	59.77	61.70	85.14	140.59
29630	87.10	6.18	13.78	90.04	45.67	62.67	63.45	91.71	133.33	139.71	39.84	62.45	63.00	88.21	132.96
29631	88.01	6.19	13.78	83.52	44.57	64.24	61.31	86.56	127.48	128.12	34.51	64.14	60.77	89.20	127.03
29632	88.92	6.19	13.78	75.20	43.73	65.77	57.42	81.42	124.49	113.51	28.80	66.19	56.73	88.28	124.14
29633	89.83	6.20	13.78	65.98	43.79	67.36	53.01	76.82	124.52	96.77	23.53	69.40	52.13	86.16	124.45
29634	90.74	6.20	13.78	56.61	44.76	68.93	48.80	73.12	127.37	78.93	19.24	74.23	47.71	83.39	127.76
29635	91.65	6.20	13.78	47.59	46.38	70.53	45.33	70.51	132.84	61.08	16.29	81.11	44.02	80.21	133.86
29636	92.56	6.21	13.78	39.41	48.39	72.75	43.03	69.15	140.51	44.67	14.69	90.94	41.61	76.82	142.26
29637	78.89	7.25	13.78	45.91	16.99	54.79	11.60	150.13	74.33	160.03	43.12	82.18	20.49	140.73	87.93
29638	79.77	7.25	13.78	56.10	16.52	57.20	10.21	149.45	92.75	159.80	40.68	82.09	17.27	135.31	102.63
29639	80.65	7.25	13.78	73.18	20.16	59.38	8.12	146.38	110.85	164.07	40.43	80.52	12.46	128.64	118.17
29640	81.52	7.26	13.78	89.46	26.97	58.56	9.61	136.29	125.96	171.11	42.07	74.65	10.37	115.50	131.29
29641	82.40	7.26	13.78	93.44	35.13	55.78	16.26	128.49	137.66	168.05	45.54	65.04	15.36	105.72	141.52
29642	83.28	7.26	13.78	98.13	41.08	56.25	26.96	127.14	144.76	164.13	48.03	59.42	25.80	104.84	147.40
29643	84.16	7.26	13.78	113.93	44.80	57.68	42.60	118.37	142.10	172.55	48.30	56.81	41.92	96.88	143.63
29644	85.04	7.26	13.78	106.64	46.79	59.86	47.30	111.55	136.63	158.99	47.52	57.50	46.60	93.06	137.30
29645	85.92	7.26	13.78	104.59	48.11	62.07	52.94	107.04	131.79	152.20	45.58	59.79	52.29	94.33	131.84
29646	86.79	7.27	13.78	100.19	46.57	63.56	54.62	101.76	125.56	143.31	40.60	61.50	53.92	95.01	125.24
29647	87.67	7.27	13.78	92.95	44.50	64.86	53.80	96.32	120.89	131.35	34.48	63.05	52.98	94.90	120.41
29648	88.55	7.27	13.78	83.98	42.83	66.24	51.59	91.20	118.89	116.93	28.08	65.07	50.59	94.00	118.49
29649	89.43	7.27	13.78	74.28	42.26	67.73	48.88	86.82	119.65	100.88	22.36	68.06	47.67	92.57	119.53
29650	90.31	7.27	13.78	64.53	42.80	69.26	46.25	83.45	122.93	84.06	17.88	72.44	44.82	90.85	123.31
29651	91.18	7.27	13.78	55.22	44.11	70.94	44.18	81.22	128.45	67.38	15.01	78.69	42.54	88.97	129.51
29652	92.06	7.28	13.78	46.66	45.70	73.35	43.16	80.09	136.08	51.94	13.67	87.69	41.40	86.89	137.94
29653	78.94	3.95	12.09	44.15	20.87	55.69	11.73	113.47	103.69	214.14	53.61	80.83	19.45	96.16	106.44
29654	79.93	3.95	12.09	45.24	21.30	56.82	13.58	113.74	118.39	204.73	50.52	79.90	18.66	82.52	120.41
29655	80.91	3.95	12.09	47.37	22.60	58.82	17.21	113.22	132.51	195.69	47.78	77.11	19.87	70.89	134.00
29656	81.90	3.95	12.09	49.98	24.76	61.48	22.66	111.79	145.14	186.54	45.50	72.86	23.67	61.17	146.23
29657	82.88	3.96	12.09	52.09	27.53	64.64	29.58	109.45	155.33	176.49	43.66	68.34	29.75	53.60	156.09
29658	83.87	3.96	12.09	52.85	30.54	68.35	36.87	106.51	163.03	165.27	42.10	65.87	36.69	50.10	163.51
29659	84.86	3.96	12.09	54.19	33.66	72.44	45.20	102.62	166.99	155.73	40.49	66.44	44.92	51.06	167.25
29660	85.84	3.96	12.09	52.65	36.43	76.73	50.19	98.15	167.95	143.73	38.91	69.77	49.88	56.79	168.04
29661	86.83	3.96	12.09	51.74	39.04	80.96	54.62	93.16	166.88	134.18	36.82	74.46	54.30	64.82	166.86
29662	87.81	3.96	12.09	49.34	41.20	84.99	55.92	87.76	164.87	122.93	34.18	79.51	55.58	71.93	164.79
29663	88.80	3.96	12.09	46.53	43.27	88.80	55.54	82.19	163.29	111.26	31.06	85.01	55.17	77.27	163.19
29664	89.78	3.97	12.09	43.19	45.39	92.37	53.79	76.51	162.79	98.19	27.68	91.39	53.38	79.78	162.74
29665	90.77	3.97	12.09	39.30	47.68	95.66	51.36	70.85	163.95	83.47	24.33	99.49	50.90	79.60	164.02
29666	91.75	3.97	12.09	35.05	50.18	98.63	48.96	65.42	167.02	67.38	21.36	110.13	48.47	77.19	167.26
29667	92.74	3.97	12.09	30.74	52.89	101.34	47.20	60.51	171.95	50.53	19.18	124.08	46.73	73.00	172.41
29668	93.73	3.97	12.09	26.86	55.78										



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
29695	88.31	6.19	12.09	63.44	42.87	89.93	47.39	98.94	152.72	115.24	30.89	83.57	46.34	88.57	152.57
29696	89.25	6.19	12.09	59.47	44.25	93.15	47.04	94.41	153.24	103.07	27.19	88.86	45.94	91.30	153.15
29697	90.18	6.19	12.09	54.96	45.91	96.18	46.21	90.05	155.21	89.79	23.69	95.71	45.05	92.43	155.31
29698	91.12	6.20	12.09	50.18	47.88	99.01	45.40	86.10	158.72	75.68	20.73	104.74	44.23	92.15	159.11
29699	92.06	6.20	12.09	45.43	50.10	101.72	45.03	82.84	163.70	61.34	18.67	116.64	43.94	90.79	164.46
29700	93.00	6.20	12.09	41.08	52.60	104.64	45.37	80.81	169.86	47.90	17.82	132.17	44.50	89.07	170.99
29701	78.90	7.25	12.09	48.81	18.96	73.02	11.86	136.70	95.78	196.92	48.52	106.27	24.75	115.00	104.73
29702	79.81	7.25	12.09	55.76	19.35	73.33	10.93	136.59	108.46	191.09	46.12	104.21	20.25	107.07	115.25
29703	80.72	7.25	12.09	62.28	21.64	73.61	10.71	134.75	120.15	185.29	44.36	99.92	16.26	99.01	125.29
29704	81.63	7.26	12.09	67.60	25.18	73.99	12.72	132.59	130.31	178.47	43.33	94.01	14.20	92.36	134.17
29705	82.53	7.26	12.09	72.69	29.19	75.04	17.61	129.91	137.98	171.83	42.76	87.98	16.45	87.14	140.77
29706	83.44	7.26	12.09	76.52	33.20	76.50	23.81	126.01	142.75	164.91	42.33	82.37	21.96	82.69	144.66
29707	84.35	7.26	12.09	76.21	36.71	78.77	29.01	123.07	145.85	154.82	41.78	78.82	27.07	82.42	147.06
29708	85.26	7.26	12.09	77.86	39.15	81.55	34.77	119.59	146.83	147.43	40.21	77.56	33.02	84.13	147.51
29709	86.17	7.26	12.09	76.32	40.39	84.54	38.55	115.64	146.31	137.70	37.46	78.15	36.89	86.99	146.58
29710	87.07	7.26	12.09	73.88	41.40	87.62	41.13	111.74	145.89	127.73	34.18	80.21	39.53	90.95	145.91
29711	87.98	7.27	12.09	70.61	42.27	90.67	42.48	107.75	146.00	117.12	30.48	83.40	40.90	94.64	145.89
29712	88.89	7.27	12.09	66.59	43.32	93.66	42.99	103.78	147.11	105.61	26.74	87.79	41.39	97.42	147.03
29713	89.80	7.27	12.09	62.04	44.70	96.52	43.07	100.01	149.51	93.24	23.29	93.69	41.46	99.11	149.60
29714	90.70	7.27	12.09	57.26	46.45	99.24	43.12	96.71	153.23	80.29	20.44	101.61	41.55	99.81	153.62
29715	91.61	7.27	12.09	52.51	48.47	101.94	43.49	94.15	158.13	67.26	18.47	112.16	42.04	99.77	158.89
29716	92.52	7.27	12.09	48.03	50.60	104.93	44.53	92.63	164.25	54.95	17.72	126.01	43.36	99.40	165.39
29717	78.96	3.95	10.41	50.24	23.33	72.25	10.88	133.44	126.73	250.50	57.91	108.36	21.37	98.10	128.44
29718	79.97	3.95	10.41	49.34	23.97	73.66	12.41	133.61	138.21	235.25	54.61	106.42	19.60	82.04	139.46
29719	80.98	3.95	10.41	48.89	25.28	76.20	15.18	132.94	149.02	220.44	51.48	102.73	19.35	67.98	149.93
29720	81.99	3.95	10.41	48.64	27.13	79.69	19.13	131.41	158.71	205.89	48.54	97.92	21.05	56.30	159.36
29721	83.01	3.96	10.41	48.32	29.37	83.96	23.92	128.99	166.88	191.55	45.80	93.06	24.52	48.05	167.32
29722	84.02	3.96	10.41	47.94	31.86	88.81	29.21	125.67	173.10	177.71	43.23	89.24	29.14	44.75	173.38
29723	85.03	3.96	10.41	46.95	34.42	94.08	34.05	121.51	177.52	163.90	40.75	87.46	33.68	47.28	177.66
29724	86.05	3.96	10.41	45.99	36.98	99.57	38.58	116.58	180.35	151.09	38.16	88.13	38.09	54.10	180.39
29725	87.06	3.96	10.41	44.46	39.46	105.16	41.87	111.00	182.04	138.20	35.45	91.17	41.33	62.64	182.01
29726	88.07	3.96	10.41	42.80	41.94	110.73	44.24	104.90	183.17	125.68	32.62	96.37	43.67	70.92	183.11
29727	89.08	3.96	10.41	40.75	44.45	116.18	45.59	98.40	184.30	112.66	29.75	103.72	45.02	77.51	184.24
29728	90.10	3.96	10.41	38.41	47.05	121.44	46.29	91.62	185.95	98.93	26.99	113.50	45.72	81.89	185.93
29729	91.11	3.97	10.41	35.80	49.79	126.41	46.70	84.65	188.42	84.27	24.58	126.18	46.16	83.82	188.47
29730	92.12	3.97	10.41	33.03	52.69	131.07	47.20	77.65	191.85	68.66	22.87	142.31	46.74	83.41	192.03
29731	93.13	3.97	10.41	30.33	55.78	135.46	48.16	70.93	196.23	52.44	22.20	162.35	47.84	81.06	196.54
29732	94.15	3.97	10.41	28.16	59.08	139.73	49.95	65.35	201.63	36.95	22.88	186.60	49.83	77.58	202.08
29733	78.95	5.05	10.41	50.90	22.95	77.98	10.72	137.00	124.28	244.29	56.55	115.05	24.65	100.18	127.08
29734	79.94	5.05	10.41	51.09	23.57	78.97	11.72	137.23	135.20	230.12	53.43	112.82	21.66	86.02	137.28
29735	80.93	5.06	10.41	51.73	24.97	80.92	13.94	136.60	145.44	216.29	50.50	108.88	19.93	73.83	146.97
29736	81.92	5.06	10.41	52.47	26.99	83.73	17.39	135.10	154.57	202.68	47.82	103.81	20.16	63.94	155.67
29737	82.92	5.06	10.41	53.06	29.46	87.29	21.77	132.79	162.19	189.26	45.40	98.57	22.50	57.19	162.95
29738	83.91	5.07	10.41	53.31	32.09	91.48	26.66	129.68	168.07	176.16	43.05	94.16	26.36	54.52	168.56
29739	84.90	5.07	10.41	52.86	34.63	96.17	31.32	125.87	172.39	163.08	40.63	91.54	30.55	56.49	172.66
29740	85.89	5.07	10.41	52.42	37.20	101.20	35.70	121.41	175.13	150.89	38.22	91.17	34.77	61.98	175.24
29741	86.89	5.08	10.41	51.04	39.63	106.42	38.91	116.37	176.90	138.42	35.65	93.13	37.91	69.19	176.89
29742	87.88	5.08	10.41	49.57	41.96	111.68	41.41	110.93	178.28	126.35	32.84	97.29	40.40	76.60	178.21
29743	88.87	5.08	10.41	47.59	44.29	116.89	43.03	105.13	179.70	113.81	29.99	103.65	42.02	82.82	179.62
29744	89.86	5.09	10.41	45.27	46.71	121.94	44.08	99.13	181.61	100.69	27.25	112.43	43.10	87.32	181.57
29745	90.86	5.09	10.41	42.69	49.28	126.76	44.88	93.05	184.26	86.83	24.87	124.04	43.97	89.82	184.34
29746	91.85	5.09	10.41	39.97	52.02	131.30	45.76	87.07	187.78	72.26	23.17	138.94	44.99	90.39	188.02
29747	92.84	5.09	10.41	37.34	54.98	135.62	47.01	81.56	192.13	57.39	22.48	157.56	46.47	89.39	192.57
29748	93.83	5.10	10.41	35.07	58.15	139.86	48.91	77.04	197.14	43.42	23.08	180.19	48.68	87.35	197.76
29749	78.93	6.15	10.41	51.73	22.30	84.47	11.46	140.72	121.13	236.80	54.67	123.01	27.51	102.14	125.32
29750	79.90	6.15	10.41	53.01	22.96	84.99	11.76	141.02	131.35	223.90	51.82	120.45	23.49	90.00	134.51
29751	80.87	6.16	10.41	54.70	24.53	86.32	13.09	140.48	140.93	211.21	49.20	116.21	20.38	79.69	143.28
29752	81.84	6.16	10.41	56.39	26.79	88.41	15.77	139.07	149.39	198.75	46.85	110.87	19.07	71.45	151.11
29753	82.80	6.16	10.41	57.74	29.42	91.21	19.52	136.92	156.43	186.37	44.67	105.21	20.08	65.95	157.64
29754	83.77	6.17	10.41	58.47	32.13	94.70	23.88	134.13	161.90	174.05	42.55	100.23	23.00	63.91	162.70
29755	84.74	6.17	10.41	58.72	34.92	98.75	28.20	130.68	165.93	162.04	40.54	96.72	26.74	65.40	166.41
29756	85.70	6.17	10.41	58.40	37.41	103.23	32.23	126.77	168.70	150.27	38.26	95.23	30.57	69.93	168.94
29757	86.67	6.18	10.41	57.41	39.59	107.99	35.56	122.34	170.68	138.56	35.60	95.93	33.86	76.08	170.74
29758	87.64	6.18	10.41	56.06	41.79	112.88	38.14	117.58	172.32	126.97	32.91	98.82	36.47	82.67	172.27
29759	88.61	6.18	10.41	54.19	43.94	117.77	40.05	112.53	174.06	115.05	30.10	103.93	38.44	88.55	173.98
29760	89.57	6.19	10.41	51.95	46.19	122.56	41.50	107.34	176.25	102.67	27.42	111.44	39.98	93.18	176.22
29761	90.54	6.19	10.41	49.45	48.60	127.17	42.72	102.14	179.10	89.73	25.12	121.66	41.35	96.26	179.19
29762	91.51	6.19	10.41	46.81	51.20	131.56	44.01	97.15	182.68	76.31	23.48	135.01	42.86	97.81	182.96
29763	92.48	6.20	10.41	44.25	53.99	135.79	45.61	92.68	186.97	62.81	22.82	151.88	44.79	98.11	187.47
29764	93.44	6.20	10.41	42.12	57.04	139.97	47.64	89.32	191.72	50.44	23.38	172.49	47.26	97.71	192.43
29765	78.92	7.25	10.41	52.68	21.41	91.40	13.48	144.17	117.10	228.14	52.37	131.96	29.78		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]		
29793	91.45	3.96	8.72	34.74	51.88	159.22	44.77	98.62	208.22	87.76	26.14	152.31	44.20	88.87	208.21
29794	92.49	3.97	8.72	32.61	55.03	165.97	47.04	89.97	211.49	71.66	25.78	173.88	46.65	90.08	211.56
29795	93.53	3.97	8.72	30.68	58.39	172.50	49.67	81.41	215.11	55.12	26.42	199.94	49.51	89.15	215.30
29796	94.57	3.97	8.72	29.35	61.98	178.89	52.87	73.77	219.22	39.48	28.14	230.20	52.96	86.66	219.53
29797	78.96	5.05	8.72	55.43	25.19	94.53	11.52	158.02	146.07	272.27	57.90	143.07	28.18	96.70	147.72
29798	79.98	5.05	8.72	53.89	25.95	95.95	12.15	158.22	154.80	253.08	54.60	140.06	24.44	81.48	156.00
29799	81.00	5.06	8.72	52.75	27.29	98.64	13.67	157.44	163.03	235.03	51.39	135.52	21.71	68.48	163.88
29800	82.02	5.06	8.72	51.88	29.08	102.47	16.10	155.69	170.48	217.99	48.31	129.98	20.44	58.28	171.07
29801	83.04	5.06	8.72	51.12	31.19	107.25	19.26	153.01	176.97	201.89	45.35	124.13	20.90	51.89	177.35
29802	84.06	5.07	8.72	50.34	33.50	112.80	22.83	149.42	182.42	186.61	42.52	118.75	22.83	50.37	182.63
29803	85.08	5.07	8.72	49.52	35.94	118.93	26.55	145.00	186.84	172.18	39.80	114.62	25.68	53.66	186.91
29804	86.10	5.07	8.72	48.49	38.39	125.47	30.06	139.82	190.41	158.29	37.12	112.47	28.80	60.37	190.37
29805	87.12	5.07	8.72	47.38	40.88	132.28	33.32	133.99	193.35	144.95	34.51	112.91	31.91	68.67	193.24
29806	88.14	5.08	8.72	46.02	43.41	139.22	36.17	127.59	195.92	131.69	32.04	116.45	34.74	77.02	195.77
29807	89.16	5.08	8.72	44.49	46.03	146.18	38.71	120.74	198.42	118.31	29.81	123.58	37.35	84.47	198.27
29808	90.18	5.08	8.72	42.75	48.77	153.07	41.03	113.52	201.06	104.48	27.99	134.70	39.83	90.36	200.94
29809	91.20	5.09	8.72	40.88	51.66	159.81	43.31	106.05	203.99	90.04	26.78	150.10	42.34	94.38	203.95
29810	92.22	5.09	8.72	39.00	54.73	166.38	45.72	98.52	207.26	75.03	26.38	169.93	45.05	96.43	207.36
29811	93.24	5.09	8.72	37.33	58.03	172.78	48.41	91.27	210.85	59.89	26.97	194.11	48.11	96.70	211.10
29812	94.26	5.10	8.72	36.07	61.56	179.07	51.52	84.83	214.62	45.83	28.60	222.38	51.63	95.50	215.04
29813	78.95	6.15	8.72	55.75	24.73	101.84	13.16	159.65	142.59	263.58	56.28	150.67	32.08	96.65	145.11
29814	79.94	6.15	8.72	55.07	25.56	102.74	13.27	159.99	150.75	245.93	53.28	147.44	27.39	83.30	152.61
29815	80.94	6.16	8.72	54.76	27.01	104.77	14.13	159.40	158.43	229.25	50.37	142.74	23.53	72.18	159.78
29816	81.94	6.16	8.72	54.63	28.92	107.85	15.87	157.91	165.40	213.41	47.57	137.06	20.95	63.82	166.35
29817	82.93	6.16	8.72	54.52	31.14	111.87	18.43	155.55	171.51	198.36	44.91	131.01	20.09	58.96	172.15
29818	83.93	6.17	8.72	54.33	33.54	116.68	21.51	152.38	176.70	184.04	42.34	125.30	20.97	58.17	177.08
29819	84.92	6.17	8.72	53.95	35.96	122.15	24.85	148.47	180.99	170.36	39.80	120.64	23.14	61.30	181.17
29820	85.92	6.17	8.72	53.35	38.40	128.11	28.13	143.89	184.55	157.23	37.30	117.70	25.91	67.29	184.56
29821	86.92	6.18	8.72	52.55	40.86	134.41	31.24	138.74	187.57	144.49	34.87	117.09	28.87	74.79	187.46
29822	87.91	6.18	8.72	51.47	43.32	140.91	34.07	133.10	190.30	131.87	32.50	119.34	31.76	82.58	190.12
29823	88.91	6.18	8.72	50.18	45.85	147.50	36.68	127.06	192.95	119.17	30.36	124.93	34.54	89.78	192.75
29824	89.90	6.19	8.72	48.67	48.50	154.07	39.14	120.74	195.71	106.14	28.59	134.29	37.28	95.81	195.55
29825	90.90	6.19	8.72	47.04	51.31	160.54	41.58	114.28	198.70	92.68	27.41	147.72	40.09	100.33	198.64
29826	91.89	6.19	8.72	45.40	54.31	166.88	44.13	107.85	201.96	78.86	27.01	165.39	43.10	103.25	202.05
29827	92.89	6.19	8.72	43.94	57.52	173.11	46.91	101.79	205.48	65.16	27.57	187.25	46.41	104.68	205.76
29828	93.89	6.20	8.72	42.94	61.02	179.26	49.94	96.68	209.06	52.74	29.15	213.07	50.02	105.00	209.56
29829	78.93	7.25	8.72	56.21	24.15	109.86	15.36	161.22	138.28	253.50	54.35	159.37	35.06	96.25	141.91
29830	79.90	7.25	8.72	56.38	25.06	110.24	15.04	161.74	145.78	237.62	51.70	155.91	29.62	84.88	148.51
29831	80.87	7.25	8.72	56.83	26.62	111.63	15.27	161.37	152.85	222.49	49.13	151.06	24.87	75.68	154.87
29832	81.83	7.25	8.72	57.38	28.64	113.96	16.26	160.17	159.30	208.02	46.66	145.25	21.18	69.09	160.76
29833	82.80	7.26	8.72	57.85	30.94	117.21	18.06	158.20	165.00	194.17	44.28	139.04	19.06	65.61	166.02
29834	83.77	7.26	8.72	58.19	33.37	121.25	20.52	155.49	169.91	180.94	41.96	133.02	18.82	65.49	170.56
29835	84.73	7.26	8.72	58.19	35.84	125.99	23.32	152.15	174.09	168.14	39.67	127.85	20.18	68.57	174.44
29836	85.70	7.26	8.72	58.01	38.26	131.29	26.26	148.22	177.65	155.89	37.37	124.12	22.58	74.04	177.77
29837	86.67	7.26	8.72	57.49	40.64	137.00	29.15	143.79	180.76	143.86	35.06	122.40	25.40	80.89	180.71
29838	87.63	7.26	8.72	56.71	43.03	142.98	31.90	138.95	183.64	132.01	32.82	123.22	28.36	88.20	183.47
29839	88.60	7.26	8.72	55.66	45.48	149.11	34.53	133.77	186.45	120.09	30.78	127.06	31.34	95.19	186.23
29840	89.57	7.27	8.72	54.39	48.04	155.27	37.09	128.37	189.34	107.95	29.09	134.37	34.37	101.34	189.14
29841	90.53	7.27	8.72	53.00	50.78	161.40	39.66	122.88	192.39	95.55	27.96	145.49	37.52	106.35	192.28
29842	91.50	7.27	8.72	51.61	53.75	167.45	42.31	117.52	195.62	83.01	27.60	160.61	40.83	110.12	195.67
29843	92.47	7.27	8.72	50.38	56.93	173.44	45.13	112.56	198.98	70.73	28.14	179.72	44.36	112.68	199.23
29844	93.43	7.27	8.72	49.45	60.28	179.43	48.26	108.33	202.70	59.55	29.76	202.66	48.24	114.17	203.18
29845	78.98	3.95	7.03	58.75	27.18	103.78	10.15	180.91	169.98	297.90	57.38	165.07	25.52	90.60	170.46
29846	80.05	3.95	7.03	55.41	29.94	106.33	11.01	180.81	177.61	273.22	53.74	161.49	22.38	74.79	177.93
29847	81.12	3.95	7.03	52.61	32.96	110.60	12.66	179.52	184.82	250.89	50.13	156.46	20.23	61.02	185.02
29848	82.19	3.95	7.03	50.25	36.76	116.34	15.07	177.03	191.44	230.62	46.64	150.43	19.41	49.95	191.55
29849	83.25	3.96	7.03	48.26	32.67	123.24	18.05	173.40	197.36	212.15	43.33	143.97	20.03	42.97	197.39
29850	84.32	3.96	7.03	46.53	34.80	131.00	21.41	168.66	202.50	195.25	40.21	137.74	21.90	41.68	202.47
29851	85.39	3.96	7.03	44.98	37.12	139.36	24.92	162.91	206.89	179.62	37.34	132.51	24.57	46.08	206.81
29852	86.45	3.96	7.03	43.53	39.56	148.12	28.45	156.23	210.63	164.99	34.75	129.20	27.67	54.22	210.50
29853	87.52	3.96	7.03	42.08	42.13	157.11	31.87	148.74	213.85	150.94	32.50	128.85	30.90	63.96	213.69
29854	88.59	3.96	7.03	40.57	44.81	166.24	35.16	140.55	216.74	137.08	30.69	132.61	34.15	73.77	216.55
29855	89.65	3.96	7.03	38.93	47.62	175.43	38.33	131.76	219.46	122.95	29.42	141.57	37.39	82.67	219.27
29856	90.72	3.96	7.03	37.14	50.56	184.65	41.45	122.45	222.15	108.14	28.80	156.49	40.66	89.96	221.98
29857	91.79	3.96	7.03	35.23	53.67	193.87	44.63	112.67	224.90	92.40	28.92	177.68	44.06	95.16	224.78
29858	92.86	3.97	7.03	33.35	56.97	203.06	47.97	102.54	227.72	75.68	29.79	204.89	47.68	97.93	227.69
29859	93.92	3.97	7.03	31.68	60.49	212.17	51.58	92.30	230.56	58.37	31.40	237.41	51.58	98.11	230.65
29860	94.99	3.97	7.03	30.65	64.28	221.14	55.60	82.65	233.60	42.00	33.71	274.18	55.89	96.01	233.84
29861	78.97	5.05	7.03	58.76	27.09	110.92	12.04	181.33	167.04	290.32	56.49	171.20	31.06	90.11	167.85
29862	80.02	5.05	7.03	56.09	27.90	112.94	12.41	181.36	174.30	267.08	53.07	167.52	26.78	75.64	174.86
29863	81.07	5.06	7.03	53.95	29.19	116.54	13.52	180.25	181.17	245.99	49.72	162.42	23.39	63.39	181.53

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
29891	93.31	6.19	7.03	44.32	60.46	213.34	48.73	110.98	221.03	68.03	32.60	223.37	48.58	111.67	221.14
29892	94.33	6.19	7.03	43.81	64.28	221.89	52.37	103.94	223.67	55.00	34.81	254.93	52.90	112.19	224.08
29893	78.95	7.25	7.03	59.09	26.82	128.39	16.77	182.15	158.89	270.31	54.01	187.34	39.48	88.35	160.76
29894	79.94	7.25	7.03	57.97	27.77	129.34	16.42	182.50	165.21	250.89	51.26	183.42	33.50	77.16	166.56
29895	80.94	7.25	7.03	57.26	29.21	131.56	16.55	181.86	171.23	233.03	48.55	178.22	28.27	68.35	172.17
29896	81.94	7.25	7.03	56.82	31.03	134.98	17.29	180.26	176.83	216.57	45.94	172.09	24.00	62.44	177.44
29897	82.93	7.26	7.03	56.55	33.11	139.48	18.68	177.76	181.94	201.33	43.44	165.46	21.01	59.97	182.28
29898	83.93	7.26	7.03	56.33	35.37	144.93	20.64	174.42	186.55	187.13	41.07	158.84	19.61	61.13	186.66
29899	84.93	7.26	7.03	56.11	37.72	151.17	23.02	170.31	190.66	173.83	38.85	152.80	19.86	65.51	190.58
29900	85.92	7.26	7.03	55.80	40.14	158.05	25.65	165.52	194.35	161.18	36.79	148.00	21.46	72.22	194.10
29901	86.92	7.26	7.03	55.37	42.63	165.41	28.43	160.14	197.68	148.97	34.93	145.26	23.96	80.25	197.31
29902	87.91	7.26	7.03	54.79	45.19	173.14	31.29	154.24	200.77	136.91	33.35	145.44	27.01	88.72	200.30
29903	88.91	7.26	7.03	54.04	47.84	181.12	34.21	147.94	203.69	124.77	32.13	149.50	30.42	96.96	203.18
29904	89.91	7.26	7.03	53.15	50.62	189.27	37.20	141.33	206.52	112.33	31.40	158.22	34.13	104.42	206.03
29905	90.90	7.27	7.03	52.20	53.60	197.52	40.31	134.53	209.28	99.51	31.26	172.09	38.09	110.71	208.89
29906	91.90	7.27	7.03	51.29	56.82	205.80	43.53	127.72	211.98	86.42	31.84	191.20	42.25	115.56	211.77
29907	92.90	7.27	7.03	50.55	60.30	214.06	46.91	121.12	214.60	73.47	33.17	215.15	46.57	118.78	214.66
29908	93.89	7.27	7.03	50.17	64.05	222.35	50.56	115.05	217.48	61.76	35.42	243.34	51.12	120.41	217.89
29909	79.00	3.95	5.34	60.15	28.03	119.69	9.81	206.19	190.30	301.86	52.55	191.94	26.66	81.43	190.45
29910	80.09	3.95	5.34	56.18	28.81	122.90	10.48	205.82	196.77	274.51	48.93	187.91	23.22	68.50	196.85
29911	81.19	3.95	5.34	52.91	30.04	128.22	11.93	204.05	202.90	250.53	45.40	182.52	20.71	57.21	202.92
29912	82.28	3.95	5.34	50.25	31.62	135.31	14.10	200.91	208.57	229.46	42.06	176.10	19.41	48.20	208.54
29913	83.37	3.95	5.34	48.11	33.51	143.77	16.85	196.45	213.71	210.90	38.99	169.06	19.50	42.70	213.64
29914	84.47	3.96	5.34	46.38	35.65	153.23	20.01	190.76	218.28	194.42	36.28	161.92	20.88	42.05	218.17
29915	85.56	3.96	5.34	44.97	37.98	163.36	23.43	183.93	222.31	179.64	34.00	155.35	23.23	46.41	222.15
29916	86.66	3.96	5.34	43.75	40.47	173.91	26.99	176.10	225.84	166.09	32.23	150.33	26.22	54.42	225.64
29917	87.75	3.96	5.34	42.62	43.10	184.71	30.64	167.39	228.97	153.28	31.07	148.18	29.59	64.42	228.73
29918	88.85	3.96	5.34	41.46	45.87	195.67	34.34	157.98	231.80	140.65	30.57	150.61	33.22	75.10	231.53
29919	89.94	3.96	5.34	40.17	48.76	206.81	38.08	147.98	234.44	127.59	30.78	159.48	37.03	85.51	234.15
29920	91.04	3.96	5.34	38.69	51.80	218.18	41.88	137.53	236.96	113.54	31.65	176.27	41.02	94.84	236.69
29921	92.13	3.96	5.34	37.00	54.98	229.86	45.76	126.65	239.41	98.06	33.10	201.62	45.18	102.29	239.18
29922	93.22	3.96	5.34	35.20	58.35	241.83	49.74	115.38	241.77	81.05	35.04	235.06	49.52	107.08	241.62
29923	94.32	3.97	5.34	33.51	61.95	253.97	53.86	103.79	243.95	63.00	37.35	275.28	54.01	108.60	243.94
29924	95.41	3.97	5.34	32.31	65.79	265.90	58.20	92.30	246.09	45.34	39.93	319.81	58.69	106.27	246.29
29925	78.99	5.05	5.34	60.10	28.26	127.64	12.14	205.82	187.14	294.39	52.16	198.05	32.79	80.90	187.40
29926	80.06	5.05	5.34	56.77	29.09	130.31	12.38	205.58	193.32	268.59	48.76	193.99	28.22	68.98	193.47
29927	81.14	5.06	5.34	54.10	30.37	134.92	13.30	204.00	199.19	245.90	45.48	188.60	24.53	58.88	199.25
29928	82.22	5.06	5.34	52.01	32.02	141.21	14.96	201.13	204.64	225.90	42.38	182.19	21.97	51.26	204.62
29929	83.29	5.06	5.34	50.39	33.96	148.87	17.26	197.02	209.62	208.20	39.56	175.16	20.78	47.15	209.52
29930	84.37	5.06	5.34	49.13	36.13	157.57	20.05	191.76	214.09	192.44	37.06	168.00	21.05	47.44	213.92
29931	85.44	5.07	5.34	48.13	38.48	167.02	23.18	185.43	218.07	178.22	34.97	161.33	22.58	51.99	217.83
29932	86.52	5.07	5.34	47.27	40.98	176.99	26.51	178.18	221.61	165.15	33.35	156.07	25.03	59.71	221.30
29933	87.60	5.07	5.34	46.46	43.61	187.31	29.98	170.12	224.78	152.75	32.26	153.42	28.10	69.26	224.41
29934	88.67	5.07	5.34	45.60	46.35	197.90	33.53	161.40	227.67	140.52	31.77	154.96	31.57	79.54	227.25
29935	89.75	5.08	5.34	44.61	49.22	208.74	37.16	152.17	230.37	127.93	31.88	162.45	35.35	89.67	229.93
29936	90.82	5.08	5.34	43.45	52.23	219.87	40.86	142.52	232.94	114.48	32.60	177.35	39.39	98.89	232.50
29937	91.90	5.08	5.34	42.13	55.39	231.31	44.64	132.53	235.40	99.82	33.85	200.35	43.65	106.46	235.02
29938	92.98	5.08	5.34	40.72	58.74	243.03	48.52	122.25	237.74	83.90	35.59	231.14	48.11	111.69	237.49
29939	94.05	5.09	5.34	39.45	62.33	254.86	52.50	111.81	239.90	67.28	37.74	268.54	52.69	114.02	239.87
29940	95.13	5.09	5.34	38.47	66.17	266.42	56.62	101.45	241.75	51.23	40.21	310.21	57.36	112.76	242.05
29941	78.98	6.15	5.34	60.15	28.57	136.90	14.70	205.36	183.22	285.27	51.66	205.54	38.09	80.16	183.66
29942	80.03	6.15	5.34	57.54	29.46	139.02	14.58	205.26	189.06	261.36	48.57	201.43	32.56	69.42	189.33
29943	81.08	6.16	5.34	55.55	30.80	142.89	15.06	203.92	194.63	240.24	45.58	196.04	27.88	60.67	194.75
29944	82.14	6.16	5.34	54.07	32.50	148.33	16.21	201.37	199.84	221.54	42.78	189.67	24.25	54.54	199.83
29945	83.19	6.16	5.34	53.00	34.48	155.10	18.01	197.68	204.62	204.90	40.23	182.67	21.91	51.82	204.51
29946	84.24	6.16	5.34	52.21	36.68	162.94	20.36	192.92	208.97	190.00	37.99	175.49	21.07	52.99	208.75
29947	85.30	6.17	5.34	51.62	39.04	171.61	23.10	187.18	212.90	176.48	36.10	168.74	21.71	57.79	212.56
29948	86.35	6.17	5.34	51.11	41.54	180.90	26.13	180.60	216.43	163.99	34.62	163.20	23.55	65.31	216.00
29949	87.40	6.17	5.34	50.62	44.14	190.65	29.34	173.28	219.64	152.11	33.60	159.99	26.26	74.47	219.12
29950	88.45	6.18	5.34	50.05	46.86	200.78	32.69	165.37	222.60	140.38	33.08	160.52	29.57	84.37	222.01
29951	89.51	6.18	5.34	49.35	49.69	211.23	36.14	156.99	225.36	128.36	33.10	166.40	33.31	94.22	224.73
29952	90.56	6.18	5.34	48.49	52.65	222.02	39.68	148.25	227.96	115.62	33.63	179.04	37.40	103.33	227.34
29953	91.61	6.18	5.34	47.49	55.78	233.14	43.32	139.23	230.41	101.91	34.68	199.22	41.77	111.05	229.88
29954	92.67	6.19	5.34	46.44	59.10	244.51	47.05	130.00	232.70	87.21	36.18	226.77	46.35	116.74	232.34
29955	93.72	6.19	5.34	45.48	62.65	255.95	50.91	120.69	234.81	72.07	38.16	260.69	51.08	119.89	234.74
29956	94.77	6.19	5.34	44.86	66.51	267.05	54.81	111.63	236.55	57.78	40.54	298.88	55.77	119.97	236.93
29957	78.96	7.25	5.34	60.37	28.97	147.30	17.45	204.79	178.57	274.65	51.07	214.41	42.33	79.16	179.26
29958	79.99	7.25	5.34	58.54	29.92	148.86	17.08	204.87	184.03	252.94	48.35	210.24	36.03	69.75	184.47
29959	81.01	7.25	5.34	57.24	31.31	151.99	17.19	203.79	189.27	233.64	45.71	204.86	30.56	62.47	189.50
29960	82.04	7.25	5.34	56.37	33.04	156.56	17.88	201.61	194.19	216.43	43.24	198.52	26.05	57.86	194.25
29961	83.07	7.26	5.34	55.81	35.05	162.41	19.18	198.39	198.78						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]
29989	64.79	5.11	17.16	13.26	50.30	12.57	20.46	5.46	14.68	11.69	72.02	12.87	21.29	5.65	22.59
29990	65.67	5.11	17.16	27.34	53.04	13.33	33.68	6.02	9.58	22.03	84.22	17.40	32.80	12.17	21.38
29991	66.55	5.10	17.16	42.76	57.40	13.58	49.04	8.28	7.43	36.39	95.02	18.87	48.35	23.36	20.37
29992	67.44	5.10	17.16	60.95	63.48	13.66	65.98	11.54	6.71	59.92	103.83	18.82	66.00	35.37	18.96
29993	68.32	5.09	17.16	83.95	71.82	13.84	85.59	16.01	7.32	94.98	111.08	18.77	86.41	47.71	17.32
29994	69.20	5.09	17.16	114.82	83.79	14.42	110.09	22.74	10.69	143.32	118.40	19.78	111.65	61.59	16.80
29995	70.08	5.09	17.16	158.90	101.94	15.79	144.32	34.27	21.22	208.98	129.13	23.07	146.65	80.37	23.47
29996	70.96	5.08	17.16	226.88	139.62	16.97	200.21	56.97	55.73	301.87	158.95	28.83	204.01	112.04	57.01
29997	71.84	5.08	17.16	360.76	172.60	15.02	357.01	110.82	214.97	465.15	181.76	45.52	368.91	179.48	222.57
29998	72.72	5.07	17.16	78.47	62.22	37.31	69.95	204.87	326.22	115.55	69.67	44.01	73.63	268.54	341.40
29999	73.60	5.07	17.16	31.65	81.53	29.77	13.12	166.80	212.00	41.55	92.49	33.01	14.74	212.68	223.94
30000	74.48	5.07	17.16	24.00	99.18	16.74	18.87	141.57	133.30	59.45	112.88	18.44	21.20	176.17	142.91
30001	75.37	5.06	17.16	55.85	43.13	4.88	8.95	150.18	103.77	90.92	52.78	13.58	11.74	176.48	117.65
30002	76.25	5.06	17.16	9.50	7.69	11.26	2.77	158.53	74.40	46.34	15.33	15.28	5.98	175.08	95.33
30003	77.13	5.06	17.16	62.87	26.81	3.67	25.40	139.06	25.08	70.32	41.61	3.71	26.98	146.70	53.66
30004	78.01	5.05	17.16	23.90	22.11	6.49	35.13	134.34	12.60	47.92	55.99	8.52	35.12	136.93	37.97
30005	65.23	6.21	17.16	15.89	45.79	12.93	21.48	7.08	15.81	13.49	62.10	13.16	21.26	8.57	25.39
30006	66.08	6.21	17.16	30.73	49.78	13.56	31.74	7.44	11.00	25.72	73.37	16.61	30.09	14.96	24.40
30007	66.94	6.20	17.16	47.42	56.42	13.77	44.36	9.69	8.79	42.99	84.50	17.76	43.33	24.67	23.26
30008	67.79	6.20	17.16	67.30	65.38	13.84	58.41	13.06	7.91	68.28	94.93	17.71	58.55	34.93	21.68
30009	68.64	6.20	17.16	92.25	77.17	14.04	74.55	17.67	8.23	103.10	105.47	17.63	75.88	45.25	19.82
30010	69.49	6.19	17.16	124.81	93.25	14.63	94.31	24.26	10.87	148.69	118.16	18.28	96.68	56.30	18.72
30011	70.35	6.19	17.16	168.64	118.11	15.70	120.56	34.26	19.86	207.16	138.56	20.10	123.81	69.78	23.40
30012	71.20	6.18	17.16	231.67	158.27	17.05	160.19	51.07	49.48	285.06	174.54	23.30	164.47	89.38	51.48
30013	72.05	6.18	17.16	338.58	357.34	23.75	211.76	98.85	168.98	407.00	381.46	27.39	217.53	139.49	176.99
30014	72.91	6.18	17.16	226.03	278.71	46.19	98.05	203.75	285.56	271.58	298.83	46.22	101.72	245.00	303.82
30015	73.76	6.17	17.16	13.74	9.63	32.78	29.74	219.68	235.89	37.79	14.81	33.17	35.53	252.39	257.54
30016	74.61	6.17	17.16	13.54	12.22	14.06	18.01	177.97	128.38	46.16	13.59	15.95	22.55	200.66	146.65
30017	75.46	6.16	17.16	108.98	21.81	11.92	48.67	177.89	89.82	140.69	30.97	11.95	58.93	194.70	109.67
30018	76.32	6.16	17.16	10.16	11.12	13.57	2.17	198.97	79.30	44.60	19.14	15.14	7.20	209.93	107.68
30019	77.17	6.16	17.16	139.82	28.39	8.47	20.31	155.53	30.02	141.74	36.42	15.65	27.75	160.49	63.92
30020	78.02	6.15	17.16	49.88	16.95	7.56	2.87	138.46	10.17	67.24	36.66	16.63	2.86	139.57	39.19
30021	65.75	7.28	17.16	18.48	40.75	13.28	22.16	9.09	17.02	15.23	51.01	13.46	20.22	12.23	27.87
30022	66.57	7.28	17.16	33.94	46.30	13.81	29.51	9.27	12.41	29.51	61.96	15.87	26.83	17.94	26.61
30023	67.39	7.27	17.16	51.59	55.17	13.98	39.19	11.42	10.16	49.08	73.80	16.69	37.85	25.98	25.38
30024	68.21	7.27	17.16	72.71	66.83	14.06	50.19	14.80	9.17	75.51	86.26	16.62	50.70	34.32	23.72
30025	69.03	7.27	17.16	99.06	81.62	14.26	62.88	19.51	9.38	109.79	100.24	16.51	65.24	42.54	22.22
30026	69.85	7.27	17.16	133.06	101.33	14.80	78.50	26.18	11.95	153.05	118.26	16.84	82.59	51.00	21.80
30027	70.67	7.27	17.16	178.61	129.62	15.83	99.89	36.28	21.01	207.77	144.90	17.80	105.86	60.93	27.47
30028	71.49	7.27	17.16	242.86	185.00	16.49	131.01	54.82	47.61	279.81	201.02	18.13	139.90	77.12	53.15
30029	72.31	7.26	17.16	338.50	223.78	18.79	157.82	99.27	98.02	381.63	242.93	19.63	171.61	118.62	106.45
30030	73.12	7.26	17.16	464.09	197.12	21.08	239.41	183.65	212.16	518.20	214.80	21.18	261.54	204.49	230.99
30031	73.94	7.26	17.16	90.44	68.51	59.27	34.12	292.54	266.06	113.72	77.86	68.25	41.15	318.97	293.37
30032	74.76	7.26	17.16	39.50	16.73	35.48	21.98	256.70	157.56	46.33	20.57	43.63	22.12	275.70	181.54
30033	75.58	7.26	17.16	110.28	8.02	13.30	43.37	227.10	98.43	133.35	13.78	21.66	55.40	237.44	124.61
30034	76.40	7.25	17.16	10.40	13.47	15.08	1.39	246.54	84.22	42.78	22.12	31.59	7.90	253.59	119.47
30035	77.22	7.25	17.16	176.46	35.53	15.45	19.82	196.19	36.24	178.19	38.99	28.81	31.86	200.79	74.17
30036	78.04	7.25	17.16	66.29	19.28	10.01	2.60	173.78	7.99	79.19	25.84	18.76	2.60	174.25	42.50
30037	64.02	3.97	15.47	9.28	54.24	37.14	15.88	12.89	25.58	9.84	62.78	43.69	13.09	24.67	43.02
30038	64.95	3.97	15.47	18.08	53.11	40.05	26.07	16.65	18.08	25.42	70.73	63.43	24.74	48.92	40.55
30039	65.88	3.97	15.47	27.87	52.72	41.39	38.97	21.46	13.87	47.71	78.39	71.64	38.58	75.07	39.21
30040	66.81	3.97	15.47	38.71	53.25	41.78	53.37	27.14	12.19	74.11	84.87	72.62	53.57	101.25	37.45
30041	67.74	3.97	15.47	50.61	54.92	41.93	69.18	33.68	12.81	102.81	89.71	71.22	69.85	125.97	35.26
30042	68.67	3.97	15.47	63.06	57.86	42.49	86.50	41.29	17.91	131.30	92.80	71.10	87.63	148.39	34.68
30043	69.61	3.96	15.47	74.33	61.62	43.96	104.43	50.17	31.66	155.17	93.96	75.17	106.24	167.39	41.83
30044	70.54	3.96	15.47	79.17	64.64	45.34	116.09	59.19	57.16	165.41	93.01	84.31	119.01	178.56	63.85
30045	71.47	3.96	15.47	69.01	58.48	40.89	90.17	64.78	73.90	147.04	86.98	81.63	94.15	166.04	80.59
30046	72.40	3.96	15.47	90.79	54.83	31.68	103.15	71.90	83.34	183.12	79.07	62.25	109.28	152.01	91.86
30047	73.33	3.96	15.47	61.83	36.85	24.98	56.98	90.45	87.20	155.35	65.31	33.78	63.90	160.03	98.67
30048	74.26	3.96	15.47	42.83	23.13	22.31	35.49	96.71	60.75	139.73	54.66	22.12	42.79	155.39	76.00
30049	75.19	3.96	15.47	31.90	16.54	22.35	26.45	96.60	35.22	130.60	46.26	20.27	33.33	143.05	55.51
30050	76.12	3.95	15.47	26.55	14.81	22.06	21.17	94.21	12.88	125.07	40.64	20.83	26.86	126.86	40.63
30051	77.05	3.95	15.47	24.47	15.16	20.19	18.84	93.59	15.50	122.24	38.18	21.83	23.08	112.52	36.13
30052	77.98	3.95	15.47	24.13	16.40	20.18	19.29	95.52	34.39	120.80	37.01	25.24	22.57	103.02	44.05
30053	64.36	5.11	15.47	11.25	51.43	38.28	17.24	15.60	28.13	12.05	57.98	43.94	13.00	30.50	50.99
30054	65.27	5.10	15.47	20.76	50.90	40.81	25.30	19.33	21.03	28.27	65.36	60.27	23.18	52.90	49.14
30055	66.18	5.10	15.47	31.61	51.57	42.00	36.17	24.18	16.86	50.41	72.73	67.10	35.55	76.38	47.76
30056	67.09	5.10	15.47	43.84	53.74	42.40	48.52	30.11	14.94	76.09	79.61	67.79	48.90	99.49	45.65
30057	68.00	5.09	15.47	57.46	57.65	42.70	62.13	37.19	14.95	103.75	85.76	66.39	63.27	121.00	42.84
30058	68.91	5.09	15.47	72.00	63.41	43.53	77.05	45.68	18.53	131.28	91.34	65.93	78.91	140.14	40.91
30059	69.81	5.08	15.47	85.77	70.77	45.28	92.58	55.78	29.78	155.13	96.75	68.38	95.41	156.04	44.94
30060	70.72	5.08	15.47	93.56	75.85	47.06	104.21	66.55	52.64	167.79	99.25	73.6			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
30087	66.99	7.27	15.47	37.72	48.64	43.55	29.45	31.39	22.57	55.37	59.83	56.78	28.55	78.60	59.79
30088	67.84	7.27	15.47	51.56	54.10	43.97	37.05	37.40	20.30	78.63	67.92	56.73	38.41	94.34	57.48
30089	68.69	7.27	15.47	67.23	62.07	44.45	45.63	44.98	19.71	103.25	77.00	55.33	48.84	108.28	54.83
30090	69.54	7.27	15.47	84.64	72.58	45.42	55.01	54.50	21.74	128.25	87.61	54.12	59.95	120.04	53.17
30091	70.39	7.27	15.47	103.12	85.58	46.95	64.41	66.65	29.47	152.52	100.43	53.54	71.23	129.81	55.85
30092	71.24	7.26	15.47	119.85	96.23	48.57	70.50	82.44	46.61	173.42	111.16	52.84	79.45	138.69	68.59
30093	72.08	7.26	15.47	123.36	105.23	48.93	69.20	102.07	73.67	180.85	120.47	50.50	80.09	148.72	94.17
30094	72.93	7.26	15.47	91.23	100.48	45.29	35.24	116.54	83.71	153.10	116.70	44.98	47.05	152.74	104.86
30095	73.78	7.26	15.47	129.44	89.32	39.36	43.02	124.42	78.07	194.73	106.45	40.92	58.49	151.60	101.36
30096	74.63	7.26	15.47	99.93	64.51	31.91	24.32	162.73	77.62	168.17	82.27	42.06	42.08	185.99	105.02
30097	75.48	7.26	15.47	33.87	47.19	30.63	5.35	172.13	56.60	117.69	64.34	45.48	21.09	189.63	88.98
30098	76.33	7.25	15.47	27.69	33.35	27.41	5.31	158.21	26.55	117.26	50.57	46.62	20.83	169.26	67.02
30099	77.18	7.25	15.47	36.67	22.18	26.03	7.25	175.00	9.72	116.59	41.94	49.57	22.33	179.98	60.61
30100	78.03	7.25	15.47	22.77	17.62	26.67	11.04	197.03	26.48	105.70	37.35	50.41	18.12	196.95	64.11
30101	63.60	3.97	13.78	8.46	57.87	64.98	13.79	21.58	26.02	18.66	49.09	106.12	12.10	55.64	56.10
30102	64.56	3.97	13.78	14.86	55.20	69.53	20.03	29.03	19.14	40.40	56.05	134.11	21.11	99.04	54.82
30103	65.51	3.97	13.78	21.88	52.88	71.58	28.08	36.08	15.36	68.05	63.09	144.98	30.63	137.02	53.81
30104	66.47	3.97	13.78	29.24	51.08	71.72	36.97	42.91	13.86	98.92	69.38	142.92	40.24	169.14	52.01
30105	67.43	3.97	13.78	36.40	49.88	70.72	46.03	49.59	12.99	128.58	74.64	133.69	49.71	194.17	49.17
30106	68.39	3.97	13.78	42.72	49.20	69.20	54.35	56.11	12.02	153.89	78.49	122.16	58.41	211.12	45.65
30107	69.35	3.96	13.78	47.47	48.67	67.27	60.27	62.36	12.20	172.42	80.72	110.71	64.89	218.63	42.61
30108	70.30	3.96	13.78	50.70	47.43	64.24	61.58	68.19	14.34	184.02	81.17	97.74	67.03	215.35	41.08
30109	71.26	3.96	13.78	54.92	45.86	60.06	62.72	74.21	18.16	195.99	79.66	83.07	69.26	206.21	41.82
30110	72.22	3.96	13.78	51.69	41.43	55.06	50.92	80.28	19.86	195.35	76.24	66.71	58.69	192.26	43.09
30111	73.18	3.96	13.78	52.97	37.04	50.09	45.46	85.30	16.57	202.15	71.14	51.64	54.08	175.46	42.56
30112	74.14	3.96	13.78	47.47	31.64	45.21	33.23	90.75	10.71	199.50	65.80	41.89	42.35	163.36	41.20
30113	75.10	3.96	13.78	41.70	26.99	42.17	23.25	94.13	9.93	193.51	61.26	41.82	32.31	150.05	39.42
30114	76.05	3.95	13.78	37.85	23.34	40.03	17.29	96.16	25.74	187.12	56.99	45.38	25.81	135.18	43.58
30115	77.01	3.95	13.78	35.66	20.49	38.60	14.52	97.91	43.42	181.13	52.59	49.20	22.09	120.27	53.93
30116	77.97	3.95	13.78	35.08	18.75	38.09	13.49	99.47	61.25	175.66	48.66	52.30	19.84	106.48	67.81
30117	63.93	5.10	13.78	10.04	55.79	67.19	15.39	24.51	29.84	21.89	46.43	103.12	13.01	61.92	67.80
30118	64.87	5.10	13.78	16.71	53.52	71.01	20.07	31.92	23.29	43.25	52.95	125.89	21.59	101.80	67.12
30119	65.80	5.10	13.78	24.03	51.75	72.72	26.60	38.90	19.41	69.50	59.66	134.29	30.49	135.92	66.07
30120	66.74	5.09	13.78	31.79	50.75	72.85	34.02	45.77	17.53	98.32	65.94	131.72	39.20	164.26	63.92
30121	67.68	5.09	13.78	39.45	50.62	72.07	41.67	52.67	16.40	125.87	71.51	123.04	47.64	185.84	60.62
30122	68.61	5.09	13.78	46.33	51.23	70.92	48.71	59.61	15.28	149.53	76.04	112.32	55.35	200.01	56.60
30123	69.55	5.08	13.78	51.65	51.95	69.42	53.76	66.42	14.74	167.38	79.17	101.44	61.23	205.86	52.91
30124	70.49	5.08	13.78	55.07	51.83	66.64	54.60	72.88	15.52	179.28	80.63	89.05	63.18	202.73	50.42
30125	71.42	5.08	13.78	61.37	49.77	63.21	57.27	80.51	19.27	192.78	78.97	76.39	67.34	195.84	50.92
30126	72.36	5.07	13.78	55.26	44.08	58.79	45.10	87.86	21.51	191.07	74.64	63.40	56.67	185.02	52.13
30127	73.30	5.07	13.78	54.91	42.54	53.74	38.34	93.78	16.30	195.74	73.53	52.30	51.07	170.78	49.83
30128	74.23	5.07	13.78	50.01	37.54	48.51	27.71	100.51	10.56	194.41	69.16	46.48	41.25	160.80	48.02
30129	75.17	5.06	13.78	42.94	29.93	44.72	19.26	106.19	11.05	188.83	61.76	47.69	33.24	151.03	46.46
30130	76.11	5.06	13.78	37.38	24.62	42.65	13.83	110.84	25.08	181.82	55.89	51.96	27.42	140.64	49.16
30131	77.04	5.06	13.78	34.88	21.90	42.05	10.78	113.63	42.11	176.02	52.05	56.46	23.07	129.13	57.41
30132	77.98	5.05	13.78	35.09	19.75	42.47	9.42	115.77	59.89	171.41	48.46	60.18	20.10	118.78	69.84
30133	64.34	6.21	13.78	11.81	53.31	69.71	16.92	28.33	33.54	25.83	43.52	99.46	13.88	69.33	77.71
30134	65.25	6.20	13.78	18.52	51.48	72.71	20.06	35.52	27.20	46.50	49.42	116.54	21.92	104.64	77.22
30135	66.16	6.20	13.78	25.95	50.38	74.05	24.91	42.34	23.17	70.96	55.80	122.15	30.16	134.24	76.01
30136	67.07	6.20	13.78	33.89	50.23	74.15	30.68	49.18	20.94	97.35	62.00	119.03	38.00	158.23	73.63
30137	67.98	6.19	13.78	41.83	51.16	73.57	36.71	56.21	19.55	122.43	67.82	111.03	45.41	175.94	70.17
30138	68.89	6.19	13.78	49.15	52.98	72.76	42.28	63.49	18.34	144.19	72.97	101.41	52.10	187.07	66.07
30139	69.80	6.18	13.78	55.03	54.93	71.70	46.24	70.91	17.46	161.23	77.02	91.67	57.25	191.30	62.31
30140	70.71	6.18	13.78	58.79	55.01	69.81	47.07	78.30	17.67	173.30	78.42	81.56	59.48	188.78	59.84
30141	71.62	6.18	13.78	62.83	59.51	66.97	45.27	86.76	19.34	184.08	83.74	71.50	59.07	182.88	58.96
30142	72.53	6.17	13.78	61.27	55.59	63.08	38.17	94.49	20.68	188.14	80.70	62.51	53.71	174.37	58.77
30143	73.44	6.17	13.78	56.18	44.97	58.23	31.38	103.21	17.83	188.31	71.21	56.32	48.65	165.97	57.33
30144	74.35	6.17	13.78	51.36	40.78	53.33	21.93	110.06	12.43	187.86	67.86	54.88	40.52	157.39	55.23
30145	75.26	6.16	13.78	45.14	35.16	48.53	14.05	117.67	11.01	184.09	62.90	57.01	33.73	151.62	53.37
30146	76.17	6.16	13.78	37.14	28.15	46.32	8.57	126.07	23.05	175.87	56.20	61.44	27.67	147.33	54.85
30147	77.08	6.16	13.78	33.87	23.42	46.50	7.11	130.02	40.40	170.22	51.13	66.04	23.74	139.44	61.45
30148	77.99	6.15	13.78	35.06	19.47	47.70	6.65	132.81	58.39	166.52	46.83	69.90	21.12	132.34	72.58
30149	64.84	7.28	13.78	13.51	50.44	72.42	18.34	32.88	36.97	30.15	40.34	95.35	14.60	76.90	85.81
30150	65.72	7.27	13.78	20.15	49.31	74.57	19.96	39.83	30.69	49.94	45.79	106.62	21.98	107.31	84.80
30151	66.59	7.27	13.78	27.45	48.85	75.54	23.08	46.44	26.55	72.32	51.83	109.48	29.59	131.95	83.42
30152	67.47	7.27	13.78	35.31	49.50	75.62	27.08	53.17	24.02	96.01	57.91	105.96	36.63	151.32	80.93
30153	68.35	7.27	13.78	43.26	51.39	75.27	31.34	60.26	22.41	118.42	63.94	98.97	43.09	165.09	77.57
30154	69.23	7.27	13.78	50.72	54.27	74.85	35.20	67.81	21.11	138.08	69.65	91.05	48.71	173.29	73.82
30155	70.11	7.27	13.78	58.88	57.28	74.40	37.76	75.79	20.07	153.99	74.50	83.57	52.92	176.09	70.41
30156	70.98	7.26	13.78	60.73	59.59	73.53	38.02	84.00	19.69	165.75	78.05	76.87	54.89	174.14	67.90
30157	71.86	7.26	13.78	62.46	58.93	71.39	34.70	91.96	19.22	174.12	78.50	70.70	53.46	168.44	65.87
30158	72.74	7.26	13.78	67.25	57.83	68.02	32.60	101.33	19.94	184.01	78.25	66.3			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
30185	67.36	5.09	12.09	37.33	49.30	101.36	28.77	68.67	25.87	182.60	61.43	182.02	48.71	262.40	77.14
30186	68.32	5.08	12.09	43.02	47.24	97.53	31.92	75.08	27.14	211.58	66.89	154.51	51.89	269.97	72.80
30187	69.29	5.08	12.09	47.41	45.46	93.36	33.97	81.12	27.67	232.67	70.99	128.28	53.86	266.99	68.31
30188	70.25	5.08	12.09	50.60	43.71	89.12	34.71	87.02	27.63	246.58	73.51	105.98	54.64	256.32	64.07
30189	71.22	5.07	12.09	51.72	41.79	84.63	32.52	92.63	28.16	253.07	74.78	88.41	52.80	239.83	60.66
30190	72.18	5.07	12.09	52.82	39.58	79.97	30.30	98.06	29.87	256.68	74.55	76.59	50.83	220.50	58.52
30191	73.14	5.07	12.09	51.61	35.85	75.24	25.34	103.22	33.10	254.87	72.23	71.16	46.26	200.67	57.96
30192	74.11	5.06	12.09	49.98	32.34	70.71	20.55	107.82	39.69	250.92	69.43	71.51	41.47	180.85	59.88
30193	75.07	5.06	12.09	47.79	29.15	66.65	15.98	111.98	48.92	244.57	66.48	75.40	36.34	162.64	64.53
30194	76.04	5.06	12.09	45.58	25.97	63.53	12.58	115.52	60.43	236.46	62.95	80.33	31.61	145.83	71.98
30195	77.00	5.05	12.09	44.12	23.21	61.59	10.56	118.38	73.52	227.35	59.16	84.58	27.54	130.31	81.88
30196	77.97	5.05	12.09	44.11	21.41	60.78	9.71	120.29	87.44	218.14	55.61	87.23	24.00	115.85	93.48
30197	63.90	6.20	12.09	12.07	59.36	103.77	17.00	37.47	33.07	45.67	33.91	185.76	26.64	107.32	95.80
30198	64.84	6.20	12.09	17.53	56.14	106.92	18.75	47.49	28.33	73.56	39.14	201.82	35.54	159.62	97.28
30199	65.78	6.20	12.09	24.42	53.29	107.45	21.14	56.36	26.63	109.48	45.53	199.95	42.41	201.58	96.03
30200	66.72	6.19	12.09	31.22	50.79	105.96	23.89	64.14	26.97	144.28	52.49	184.88	48.19	230.10	93.22
30201	67.65	6.19	12.09	37.51	48.81	103.29	26.59	71.18	28.08	176.00	58.83	163.08	52.42	246.59	89.03
30202	68.59	6.19	12.09	42.81	47.33	100.02	28.80	77.74	29.03	201.93	64.14	139.40	55.26	252.09	84.14
30203	69.53	6.18	12.09	46.88	46.16	96.49	30.08	84.03	29.51	221.05	68.22	117.59	56.80	248.59	79.09
30204	70.47	6.18	12.09	49.74	45.20	92.86	30.12	90.23	29.66	233.88	71.14	99.94	56.98	238.53	74.30
30205	71.41	6.18	12.09	50.91	42.88	89.01	28.51	96.16	30.03	240.77	71.65	87.45	55.60	223.87	70.25
30206	72.35	6.17	12.09	51.08	40.80	84.89	25.65	102.13	31.44	243.75	71.61	80.53	52.92	207.05	67.37
30207	73.29	6.17	12.09	50.14	38.71	80.60	21.29	107.56	34.59	243.33	70.97	78.89	48.61	189.54	65.95
30208	74.23	6.17	12.09	48.07	34.72	76.21	17.05	112.96	40.50	239.81	68.06	81.11	43.96	173.01	66.57
30209	75.16	6.16	12.09	45.72	30.67	72.42	13.44	117.88	49.04	234.22	64.64	85.50	39.10	157.66	69.70
30210	76.10	6.16	12.09	43.75	26.99	69.33	11.16	122.11	59.76	227.38	61.14	90.12	34.64	143.75	75.51
30211	77.04	6.16	12.09	42.85	23.65	67.41	9.93	125.86	72.04	219.31	57.46	93.91	30.40	131.54	83.81
30212	77.98	6.15	12.09	44.15	21.26	66.70	9.39	128.26	85.40	211.20	53.97	96.16	26.34	120.01	94.10
30213	64.38	7.27	12.09	13.55	56.81	107.29	19.11	41.71	37.49	51.72	32.32	172.65	29.25	113.81	105.61
30214	65.29	7.27	12.09	18.81	54.14	109.26	19.91	51.20	32.49	77.81	37.37	181.30	38.09	158.54	106.74
30215	66.20	7.27	12.09	25.23	51.65	109.25	21.19	59.63	30.16	110.21	43.31	176.54	44.95	193.44	105.45
30216	67.10	7.27	12.09	31.43	49.57	107.75	22.84	67.16	29.71	140.82	49.78	162.22	50.74	216.35	102.49
30217	68.01	7.27	12.09	37.11	48.08	105.44	24.45	74.13	30.20	168.39	55.71	143.65	54.91	228.95	98.14
30218	68.92	7.27	12.09	41.86	47.13	102.74	25.66	80.76	30.86	190.95	60.76	124.67	57.52	232.37	93.12
30219	69.83	7.26	12.09	45.46	46.51	99.89	26.11	87.19	31.32	207.83	64.77	108.34	58.68	228.37	87.94
30220	70.73	7.26	12.09	47.86	45.85	96.90	25.52	93.51	31.62	219.41	67.62	96.38	58.44	219.00	83.05
30221	71.64	7.26	12.09	49.14	45.08	93.76	23.93	99.84	31.93	226.51	69.38	89.55	56.97	206.41	78.81
30222	72.55	7.26	12.09	48.30	43.07	90.35	20.81	105.94	33.40	229.02	69.33	87.45	53.71	191.97	75.48
30223	73.46	7.26	12.09	47.87	40.00	86.45	18.10	111.53	36.64	230.04	67.82	88.83	50.53	177.01	73.50
30224	74.37	7.26	12.09	45.58	36.18	82.26	14.96	117.78	41.47	227.26	65.31	92.41	46.02	164.05	73.15
30225	75.27	7.26	12.09	43.19	32.08	78.87	13.04	123.15	49.01	222.60	62.23	97.16	41.33	151.62	74.93
30226	76.18	7.25	12.09	41.61	27.80	75.83	12.46	127.94	58.91	217.07	58.70	101.43	37.13	140.82	79.22
30227	77.09	7.25	12.09	41.53	23.77	73.85	12.55	132.40	70.35	210.22	55.08	104.64	33.06	131.84	85.95
30228	78.00	7.25	12.09	44.32	20.64	73.03	12.47	135.29	82.87	203.43	51.58	106.32	28.86	123.21	94.70
30229	62.75	3.97	10.41	11.05	69.53	135.96	13.35	42.42	21.31	52.26	45.47	355.76	36.26	150.64	88.87
30230	63.77	3.97	10.41	20.53	65.20	141.52	16.03	57.01	22.95	118.96	40.16	385.56	43.66	250.33	86.66
30231	64.78	3.97	10.41	30.58	60.65	140.75	18.72	68.83	28.96	181.34	39.61	366.89	49.59	322.13	83.36
30232	65.79	3.97	10.41	41.84	56.40	135.75	21.01	78.08	35.74	248.32	44.14	320.15	51.72	366.54	79.61
30233	66.80	3.96	10.41	51.29	52.30	128.39	22.93	84.89	41.77	301.99	51.31	260.59	52.37	381.06	77.15
30234	67.82	3.96	10.41	58.09	48.44	120.61	24.40	90.46	46.74	338.13	58.94	203.24	52.47	374.51	75.54
30235	68.83	3.96	10.41	62.35	44.86	113.21	25.23	95.71	50.80	358.29	65.53	155.11	52.09	355.09	74.34
30236	69.84	3.96	10.41	64.52	41.56	106.39	25.18	101.03	54.41	365.71	70.42	118.91	51.02	328.42	73.60
30237	70.85	3.96	10.41	65.18	38.50	100.11	24.29	106.43	58.07	364.22	73.42	95.58	49.21	298.37	73.59
30238	71.87	3.96	10.41	64.57	35.56	94.26	22.28	111.75	62.38	356.28	74.69	84.73	46.42	267.33	74.79
30239	72.88	3.96	10.41	63.24	32.75	88.80	19.89	116.75	67.80	344.81	74.40	83.78	43.09	236.93	77.58
30240	73.89	3.96	10.41	61.17	30.10	83.77	17.01	121.24	74.63	330.63	72.98	88.50	39.14	208.35	82.20
30241	74.91	3.95	10.41	58.76	27.73	79.36	14.39	125.10	83.06	315.18	70.72	95.13	35.06	181.89	88.81
30242	75.92	3.95	10.41	56.20	25.74	75.78	12.30	128.28	92.82	298.99	67.88	101.31	31.08	157.80	97.11
30243	76.93	3.95	10.41	53.76	24.26	73.31	10.96	130.74	103.61	282.54	64.67	105.84	27.37	135.93	106.78
30244	77.94	3.95	10.41	51.72	23.43	72.11	10.46	132.47	115.05	266.29	61.30	108.22	24.08	116.06	117.38
30245	63.07	5.10	10.41	12.38	68.68	139.03	16.55	44.89	27.64	59.14	45.38	333.67	45.00	154.51	106.18
30246	64.06	5.09	10.41	21.75	64.21	143.41	18.59	58.80	27.92	123.06	39.12	356.40	53.26	245.59	105.43
30247	65.05	5.09	10.41	31.19	59.54	142.19	20.61	70.06	32.19	180.75	38.73	336.97	60.42	309.53	102.19
30248	66.04	5.09	10.41	41.58	55.30	137.36	22.15	79.04	37.78	241.84	43.94	293.69	63.06	348.78	97.15
30249	67.04	5.09	10.41	50.28	51.35	130.54	23.36	85.93	43.08	290.77	51.35	239.56	63.70	361.09	92.79
30250	68.03	5.08	10.41	56.52	47.76	123.38	24.21	91.75	47.65	323.72	58.72	188.01	63.40	354.26	89.14
30251	69.02	5.08	10.41	60.41	44.52	116.62	24.55	97.28	51.53	342.15	64.84	145.64	62.39	335.76	86.00
30252	70.01	5.08	10.41	62.33	41.56	110.38	24.15	102.82	55.07	349.04	69.26	115.16	60.59	310.77	83.48
30253	71.01	5.07	10.41	62.87	38.75	104.64	23.14	108.41	58.64	347.93	71.85	97.30	58.09	282.84	81.86
30254	72.00	5.07	10.41	62.18	35.98	99.24	21.15	113.88	62.80	340.88	72.84	90.71	54.61	254.15	81.56
30255	72.99	5.07	10.41	60.84	33.37	94.14	18.86	119.03	68.13	330.56	72.60	92.02	50.63	226.14	83.00
30256	73.98	5.06	10.41												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
30283	69.55	7.26	10.41	54.38	43.44	124.64	23.96	101.16	52.65	299.23	59.94	127.24	78.15	285.43	106.34
30284	70.48	7.26	10.41	55.83	41.09	119.83	23.04	107.09	56.01	305.20	63.48	112.40	75.18	265.29	101.28
30285	71.42	7.26	10.41	56.07	38.74	115.30	21.73	112.91	59.58	305.09	65.59	107.14	71.30	243.03	97.34
30286	72.36	7.26	10.41	55.56	36.39	110.93	20.18	118.55	63.55	300.92	66.48	108.49	66.81	220.40	94.79
30287	73.30	7.26	10.41	54.36	33.87	106.72	18.51	123.95	68.28	293.61	66.27	113.32	61.67	198.57	93.85
30288	74.23	7.26	10.41	52.95	31.12	102.74	17.07	128.86	74.15	284.59	65.04	119.29	56.35	178.01	94.77
30289	75.17	7.26	10.41	51.52	28.26	99.05	15.97	133.37	81.09	274.21	63.07	124.90	50.90	159.46	97.50
30290	76.11	7.25	10.41	50.50	25.55	95.99	15.22	137.27	89.10	262.98	60.62	129.36	45.44	142.82	102.01
30291	77.04	7.25	10.41	50.24	23.30	93.63	14.64	140.41	98.02	251.43	57.89	132.14	40.10	128.03	108.05
30292	77.98	7.25	10.41	50.90	21.82	92.10	14.08	142.77	107.48	239.72	55.09	133.02	34.89	115.05	115.22
30293	62.33	3.97	8.72	22.51	79.24	183.18	16.77	57.26	20.46	133.28	99.70	586.10	59.97	247.64	122.58
30294	63.37	3.97	8.72	31.72	73.39	188.22	20.31	77.52	30.57	199.78	74.75	605.02	75.71	398.89	107.80
30295	64.41	3.97	8.72	55.88	68.69	181.27	21.05	93.61	42.76	351.79	61.19	529.94	71.18	508.71	92.22
30296	65.45	3.96	8.72	73.49	63.09	167.32	20.86	100.46	53.53	454.87	46.70	406.59	65.64	529.20	88.01
30297	66.49	3.96	8.72	83.76	57.44	154.10	20.45	103.92	62.44	509.78	42.32	296.23	62.27	505.81	88.71
30298	67.53	3.96	8.72	88.44	52.15	142.92	20.01	107.30	69.77	530.09	48.05	210.53	60.38	464.30	90.71
30299	68.57	3.96	8.72	89.35	47.38	133.57	19.49	111.77	75.97	527.92	56.78	150.24	58.86	417.27	92.80
30300	69.61	3.96	8.72	87.91	43.16	125.52	18.78	117.34	81.51	512.12	64.34	114.33	56.99	370.47	94.90
30301	70.65	3.96	8.72	85.03	39.42	118.37	17.77	123.60	86.84	488.56	69.60	100.24	54.43	326.30	97.32
30302	71.69	3.96	8.72	81.40	36.13	111.85	16.49	130.00	92.35	461.24	72.58	101.19	51.21	285.70	100.43
30303	72.73	3.96	8.72	77.35	33.23	105.82	15.00	136.14	98.39	432.47	73.62	108.90	47.42	248.90	104.53
30304	73.77	3.96	8.72	73.18	30.72	100.34	13.50	141.70	105.16	403.84	73.12	118.03	43.30	215.83	109.77
30305	74.81	3.95	8.72	69.02	28.61	95.54	12.13	146.49	112.73	376.08	71.46	126.17	39.02	186.30	116.16
30306	75.85	3.95	8.72	65.03	26.98	91.68	11.05	150.40	121.07	349.63	68.99	132.32	34.78	159.96	123.60
30307	76.89	3.95	8.72	61.33	25.88	89.02	10.34	153.39	130.03	324.69	65.98	136.13	30.70	136.45	131.89
30308	77.93	3.95	8.72	58.04	25.39	87.80	10.09	155.42	139.36	301.30	62.65	137.56	26.91	115.40	140.72
30309	62.64	5.10	8.72	24.36	80.12	185.69	21.12	59.31	27.14	142.98	103.52	542.44	75.51	247.88	143.55
30310	63.66	5.09	8.72	32.96	73.02	189.49	24.56	78.06	35.34	203.34	71.33	557.35	94.94	384.04	131.25
30311	64.68	5.09	8.72	55.18	67.44	182.70	24.71	93.09	46.05	342.56	55.27	489.43	90.85	484.05	113.81
30312	65.70	5.09	8.72	71.42	61.49	169.56	23.99	100.04	55.61	437.57	42.96	376.55	85.06	502.42	106.80
30313	66.72	5.08	8.72	80.82	55.82	157.09	23.17	104.01	63.62	487.75	42.63	275.28	81.17	479.76	104.44
30314	67.74	5.08	8.72	85.00	50.72	146.56	22.40	107.94	70.35	505.66	50.06	197.66	78.41	440.24	103.47
30315	68.76	5.08	8.72	85.70	46.25	137.77	21.58	112.83	76.19	502.87	58.39	144.99	75.65	395.78	102.90
30316	69.78	5.07	8.72	84.23	42.34	130.23	20.61	118.64	81.51	487.72	64.94	116.11	72.33	351.76	102.74
30317	70.80	5.07	8.72	81.48	38.89	123.54	19.41	124.96	86.70	465.69	69.26	107.03	68.27	310.36	103.30
30318	71.82	5.07	8.72	78.05	35.82	117.44	18.05	131.36	92.08	440.40	71.54	110.12	63.62	272.39	104.88
30319	72.84	5.07	8.72	74.28	33.05	111.80	16.57	137.45	97.92	413.88	72.11	118.11	58.51	238.04	107.67
30320	73.86	5.06	8.72	70.45	30.59	106.66	15.13	142.98	104.45	387.51	71.38	126.80	53.17	207.20	111.80
30321	74.88	5.06	8.72	66.71	28.48	102.15	13.85	147.76	111.71	361.93	69.67	134.30	47.76	179.68	117.22
30322	75.90	5.06	8.72	63.22	26.79	98.47	12.80	151.71	119.68	337.51	67.25	139.84	42.45	155.19	123.78
30323	76.92	5.05	8.72	60.11	25.62	95.85	12.02	154.75	128.22	314.42	64.35	143.15	37.35	133.39	131.26
30324	77.94	5.05	8.72	57.50	25.07	94.50	11.55	156.86	137.11	292.69	61.19	144.18	32.54	113.97	139.35
30325	63.01	6.20	8.72	26.42	79.98	188.30	25.11	61.76	34.77	153.75	103.13	493.37	88.32	246.00	156.55
30326	64.01	6.19	8.72	33.94	71.93	190.57	28.47	78.60	40.56	205.39	66.04	500.18	111.32	363.30	151.13
30327	65.01	6.19	8.72	53.85	65.73	183.97	28.33	92.40	49.30	329.22	49.21	438.82	108.67	451.01	134.86
30328	66.00	6.19	8.72	68.37	59.60	171.82	27.36	99.45	57.42	414.01	40.32	338.38	103.66	466.45	126.25
30329	67.00	6.19	8.72	76.68	54.06	160.35	26.30	104.06	64.48	458.20	43.36	249.07	99.60	445.07	120.99
30330	67.99	6.18	8.72	80.29	49.25	150.69	25.23	108.69	70.63	473.43	51.23	182.48	95.77	408.76	116.89
30331	68.99	6.18	8.72	80.81	45.11	142.62	24.10	114.08	76.13	470.41	58.63	139.99	91.42	368.23	113.48
30332	69.98	6.18	8.72	79.43	41.51	135.69	22.85	120.15	81.27	456.67	64.10	119.61	86.35	328.21	110.95
30333	70.98	6.17	8.72	76.94	38.30	129.53	21.48	126.54	86.32	437.04	67.55	115.76	80.63	290.59	109.56
30334	71.98	6.17	8.72	73.86	35.40	123.89	20.02	132.90	91.56	414.57	69.28	120.80	74.46	256.06	109.55
30335	72.97	6.17	8.72	70.54	32.76	118.69	18.55	138.91	97.20	391.06	69.62	128.93	68.04	224.78	111.00
30336	73.97	6.16	8.72	67.19	30.33	113.91	17.19	144.37	103.43	367.58	68.81	137.08	61.55	196.69	113.94
30337	74.96	6.16	8.72	64.00	28.19	109.70	15.99	149.13	110.32	344.73	67.15	143.88	55.14	171.61	118.29
30338	75.96	6.16	8.72	61.15	26.44	106.21	14.99	153.09	117.84	322.82	64.89	148.75	48.92	149.33	123.85
30339	76.96	6.15	8.72	58.77	25.20	103.64	14.17	156.19	125.86	301.96	62.21	151.50	42.96	129.56	130.38
30340	77.95	6.15	8.72	56.97	24.61	102.15	13.53	158.38	134.20	282.24	59.30	152.09	37.31	112.06	137.58
30341	63.47	7.27	8.72	28.24	78.20	190.93	28.26	64.73	42.81	163.16	97.59	442.39	95.50	242.67	163.38
30342	64.43	7.27	8.72	34.62	70.18	191.09	31.32	79.36	45.78	206.13	60.70	434.89	120.76	338.14	166.23
30343	65.40	7.27	8.72	51.84	63.64	184.67	31.28	91.72	52.29	312.26	44.29	378.74	121.45	410.26	153.27
30344	66.37	7.27	8.72	64.28	57.57	173.82	30.43	98.86	58.89	384.41	38.64	293.18	118.56	421.79	143.79
30345	67.33	7.27	8.72	71.29	52.32	163.68	29.32	104.24	65.01	421.42	43.23	219.37	114.78	402.49	135.91
30346	68.30	7.26	8.72	74.33	47.85	155.13	28.05	109.65	70.61	434.00	50.50	167.12	109.90	370.82	128.93
30347	69.27	7.26	8.72	74.78	44.01	147.94	26.67	115.56	75.81	431.43	56.82	137.06	103.97	335.60	122.98
30348	70.23	7.26	8.72	73.64	40.65	141.71	25.21	121.87	80.77	419.97	61.42	125.72	97.27	300.71	118.36
30349	71.20	7.26	8.72	71.58	37.65	136.13	23.71	128.30	85.67	403.59	64.35	126.54	90.09	267.74	115.29
30350	72.17	7.26	8.72	69.02	34.87	131.01	22.22	134.57	90.73	384.68	65.82	133.05	82.67	237.31	113.87
30351	73.13	7.26	8.72	66.29	32.27	126.24	20.82	140.46	96.15	364.78	66.09	141.09	75.23	209.61	114.11
30352	74.10	7.26	8.72	63.58	29.86	121.84	19.57	145.81	102.04	344.70	65.40	148.60	67.86	184.66	115.91
30353	75.07	7.25	8.72	61.10	27.69	117.93	18.49	150.48	108.49						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
30381	70.59	5.07	7.03	103.56	40.28	142.36	19.08	141.49	112.81	593.47	65.76	126.64	78.02	305.58	123.65
30382	71.64	5.07	7.03	95.56	36.82	135.79	17.85	149.61	118.64	541.04	68.95	138.20	72.46	263.64	126.70
30383	72.69	5.06	7.03	88.25	33.89	129.59	16.63	157.18	124.65	493.20	70.12	149.65	66.28	227.74	130.56
30384	73.73	5.06	7.03	81.64	31.45	123.88	15.48	163.92	130.98	449.91	69.74	159.16	59.86	196.72	135.27
30385	74.78	5.06	7.03	75.72	29.49	118.84	14.44	169.65	137.67	410.93	68.23	166.26	53.48	169.70	140.78
30386	75.83	5.06	7.03	70.48	28.04	114.77	13.52	174.30	144.73	375.88	65.91	170.88	47.30	146.01	146.97
30387	76.88	5.05	7.03	65.91	27.14	111.93	12.76	177.80	152.08	344.36	63.05	173.13	41.45	125.11	153.69
30388	77.93	5.05	7.03	62.01	26.82	110.59	12.22	180.15	159.57	315.97	59.86	173.16	35.99	106.57	160.72
30389	62.57	6.19	7.03	19.65	100.86	253.67	42.44	82.10	28.21	97.27	199.54	850.04	200.36	390.78	241.32
30390	63.59	6.19	7.03	94.42	92.16	249.49	39.50	124.91	51.03	583.24	175.53	806.22	153.64	731.47	143.94
30391	64.62	6.19	7.03	122.93	79.47	217.71	34.86	124.85	67.46	751.68	109.13	536.78	127.97	710.60	128.66
30392	65.64	6.19	7.03	130.34	68.51	196.24	31.64	119.64	78.69	786.32	62.29	351.12	120.02	622.32	129.00
30393	66.67	6.18	7.03	127.97	59.78	181.77	29.53	118.15	87.16	762.69	43.80	233.19	117.47	531.57	129.70
30394	67.69	6.18	7.03	121.43	52.95	171.28	27.84	121.15	94.21	715.75	46.96	164.93	114.45	452.98	129.02
30395	68.72	6.18	7.03	113.43	47.54	162.92	26.23	127.20	100.46	661.55	54.99	134.74	109.48	387.61	127.94
30396	69.74	6.17	7.03	105.24	43.10	155.71	24.62	134.79	106.27	607.25	61.47	130.38	102.82	333.36	127.35
30397	70.77	6.17	7.03	97.43	39.38	149.14	23.01	142.86	111.89	555.84	65.64	138.24	95.09	287.90	127.71
30398	71.79	6.17	7.03	90.23	36.19	143.00	21.46	150.75	117.50	508.44	67.80	149.42	86.85	249.34	129.22
30399	72.82	6.17	7.03	83.70	33.44	137.23	19.99	158.07	123.28	465.29	68.38	160.04	78.51	216.26	131.89
30400	73.84	6.16	7.03	77.86	31.12	131.92	18.66	164.58	129.32	426.25	67.75	168.75	70.34	187.61	135.61
30401	74.86	6.16	7.03	72.71	29.22	127.24	17.46	170.14	135.69	391.04	66.21	175.16	62.49	162.62	140.28
30402	75.89	6.16	7.03	68.24	27.81	123.41	16.40	174.67	142.36	359.27	64.02	179.24	55.07	140.70	145.71
30403	76.91	6.15	7.03	64.45	26.94	120.66	15.48	178.13	149.29	330.59	61.36	181.07	48.12	121.39	151.72
30404	77.94	6.15	7.03	61.33	26.65	119.20	14.73	180.49	156.34	304.63	58.43	180.80	41.67	104.35	158.10
30405	63.01	7.27	7.03	21.13	102.79	252.06	49.76	81.87	39.39	107.50	195.27	739.54	231.08	355.92	248.01
30406	64.00	7.27	7.03	89.10	89.39	248.12	45.89	118.60	58.00	543.63	147.20	704.91	189.22	660.14	170.71
30407	65.00	7.27	7.03	113.61	75.68	219.49	41.24	119.30	70.70	689.17	84.01	470.27	167.37	639.24	158.82
30408	66.00	7.27	7.03	119.21	65.02	200.12	38.02	116.57	79.80	714.32	49.11	310.29	157.92	559.37	153.76
30409	66.99	7.26	7.03	116.54	57.06	187.04	35.49	117.49	87.22	690.41	42.64	212.72	150.21	479.60	147.70
30410	67.99	7.26	7.03	110.60	50.98	177.42	33.15	122.05	93.72	648.29	48.50	160.76	141.14	411.25	141.60
30411	68.99	7.26	7.03	103.63	46.12	169.67	30.90	128.80	99.65	601.21	55.20	141.87	130.82	354.38	136.60
30412	69.98	7.26	7.03	96.64	42.08	162.95	28.76	136.54	105.22	554.58	60.20	142.64	119.91	306.91	133.22
30413	70.98	7.26	7.03	90.02	38.62	156.84	26.75	144.45	110.62	510.55	63.38	151.55	108.95	266.81	131.57
30414	71.97	7.26	7.03	83.95	35.62	151.13	24.92	152.06	116.01	469.86	65.03	162.21	98.27	232.51	131.57
30415	72.97	7.26	7.03	78.47	33.00	145.79	23.27	159.07	121.51	432.65	65.44	171.93	88.08	202.85	133.03
30416	73.97	7.26	7.03	73.63	30.74	140.89	21.80	165.29	127.23	398.78	64.86	179.77	78.47	177.00	135.74
30417	74.96	7.25	7.03	69.42	28.90	136.55	20.51	170.64	133.20	368.02	63.51	185.43	69.46	154.36	139.50
30418	75.96	7.25	7.03	65.87	27.52	132.96	19.36	175.02	139.44	340.08	61.60	188.91	61.07	134.47	144.10
30419	76.96	7.25	7.03	62.98	26.68	130.29	18.33	178.41	145.87	314.66	59.28	190.29	53.29	116.98	149.32
30420	77.95	7.25	7.03	60.74	26.45	128.73	17.45	180.79	152.40	291.49	56.71	189.71	46.09	101.65	154.95
30421	61.49	3.97	5.34	351.50	153.33	424.76	71.23	270.92	23.50	2194.92	661.21	2266.78	108.61	1734.42	178.31
30422	62.58	3.97	5.34	326.12	124.27	258.09	50.57	185.65	45.77	1956.20	421.33	904.39	53.56	1160.78	96.57
30423	63.68	3.96	5.34	284.62	106.10	218.42	33.93	140.20	78.36	1671.79	282.87	500.33	35.34	841.49	99.57
30424	64.77	3.96	5.34	247.11	89.73	199.76	23.42	121.35	96.89	1439.32	178.29	296.45	31.57	650.12	110.44
30425	65.86	3.96	5.34	215.14	75.61	188.49	18.19	118.96	109.01	1248.17	103.58	184.79	40.09	523.22	119.47
30426	66.96	3.96	5.34	188.05	64.22	179.92	16.24	125.25	118.03	1087.43	59.09	131.24	51.08	432.06	126.40
30427	68.05	3.96	5.34	165.12	55.35	172.27	15.61	135.37	125.49	950.72	45.43	119.97	58.88	362.95	132.02
30428	69.15	3.96	5.34	145.73	48.46	164.81	15.21	146.73	132.14	834.03	50.42	130.41	62.41	308.62	137.06
30429	70.24	3.96	5.34	129.32	43.03	157.28	14.70	158.05	138.40	734.26	57.91	146.38	62.35	264.74	141.97
30430	71.34	3.96	5.34	115.40	38.69	149.68	14.04	168.64	144.52	648.77	63.06	161.38	59.79	228.49	147.05
30431	72.43	3.96	5.34	103.53	35.21	142.17	13.27	178.15	150.68	575.33	65.54	173.65	55.70	197.98	152.43
30432	73.53	3.95	5.34	93.35	32.46	135.05	12.46	186.38	156.96	512.07	65.91	182.94	50.80	171.89	158.16
30433	74.62	3.95	5.34	84.58	30.36	128.71	11.64	193.23	163.42	457.42	64.72	189.40	45.59	149.25	164.24
30434	75.71	3.95	5.34	77.01	28.89	123.59	10.88	198.66	170.06	410.07	62.46	193.29	40.39	129.36	170.61
30435	76.81	3.95	5.34	70.48	28.03	120.15	10.22	202.62	176.82	368.95	59.51	194.87	35.41	111.67	177.18
30436	77.90	3.95	5.34	64.89	27.75	118.77	9.80	205.13	183.60	333.14	56.13	194.34	30.78	95.79	183.84
30437	61.77	5.09	5.34	344.73	154.85	416.60	66.43	263.98	8.53	2138.33	669.29	2107.00	121.03	1670.89	201.81
30438	62.85	5.09	5.34	318.64	127.03	259.84	46.13	181.18	54.48	1906.76	424.42	843.48	51.70	1128.57	110.20
30439	63.92	5.08	5.34	277.83	106.21	221.94	31.67	138.55	84.13	1632.53	266.86	464.56	39.33	821.91	111.36
30440	65.00	5.08	5.34	240.76	87.20	204.13	24.53	121.64	100.26	1403.24	152.19	277.63	50.04	634.72	121.07
30441	66.08	5.08	5.34	208.72	72.06	193.26	22.25	120.22	110.67	1210.44	80.29	178.85	67.95	509.01	128.27
30442	67.15	5.08	5.34	181.51	60.94	184.96	21.68	126.84	118.59	1048.15	48.80	135.68	81.04	418.83	133.01
30443	68.23	5.07	5.34	158.71	52.80	177.56	21.24	136.91	125.35	911.99	47.67	129.69	87.04	351.07	136.56
30444	69.30	5.07	5.34	139.72	46.65	170.40	20.52	148.03	131.54	797.79	55.10	140.86	87.33	298.29	139.88
30445	70.38	5.07	5.34	123.89	41.83	163.24	19.55	159.00	137.47	701.64	61.21	156.02	83.87	255.96	143.47
30446	71.46	5.07	5.34	110.63	37.95	156.07	18.44	169.24	143.32	620.23	64.70	170.08	78.21	221.15	147.54
30447	72.53	5.06	5.34	99.45	34.80	149.05	17.27	178.43	149.22	550.87	65.99	181.58	71.46	191.92	152.14
30448	73.61	5.06	5.34	89.96	32.27	142.42	16.12	186.39	155.25	491.43	65.63	190.28	64.31	166.95	157.25
30449	74.68	5.06	5.34	81.88	30.33	136.53	15.03	193.04	161.44	440.22	64.07	196.31	57.20	145.30	162.81
30450	75.76	5.06	5.34	74.98	28.95	131.76	14.02	198.31	167.79	395.91	61.70	199.88	50.3		



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
30479	72.81	7.26	5.34	88.21	34.42	166.57	25.07	179.26	145.10	482.65	63.27	202.37	97.56	174.95	151.12
30480	73.83	7.26	5.34	81.03	32.22	160.93	23.32	186.47	150.47	435.21	62.43	209.68	86.04	153.30	154.69
30481	74.86	7.25	5.34	75.04	30.50	155.94	21.77	192.53	155.96	394.10	60.89	214.64	75.52	134.43	158.92
30482	75.89	7.25	5.34	70.09	29.29	151.84	20.40	197.41	161.56	358.24	58.84	217.42	65.95	117.86	163.64
30483	76.91	7.25	5.34	66.05	28.63	148.90	19.20	201.08	167.24	326.81	56.43	218.19	57.27	103.24	168.71
30484	77.94	7.25	5.34	62.85	28.53	147.33	18.20	203.54	172.94	299.12	53.80	217.12	49.41	90.36	173.96
30485	90.68	8.10	17.16	46.99	44.06	14.15	43.61	27.48	37.06	48.60	28.18	14.83	40.44	30.05	39.27
30486	90.28	8.70	17.16	52.85	41.95	14.37	45.39	30.07	36.63	54.86	28.00	14.89	42.66	32.69	38.78
30487	89.89	8.10	17.16	73.82	38.24	13.75	49.52	27.26	31.39	81.81	17.81	14.31	47.90	30.50	32.14
30488	89.52	8.70	17.16	79.69	35.46	13.95	49.39	29.65	30.85	87.72	15.71	14.36	48.05	32.64	31.54
30489	89.10	8.10	17.16	102.64	36.91	13.48	54.92	28.54	28.39	117.84	15.87	13.75	54.20	32.28	28.31
30490	88.75	8.70	17.16	108.72	34.38	13.66	52.66	30.94	27.62	123.25	13.09	13.82	52.16	34.16	27.48
30491	88.31	8.10	17.16	135.03	40.89	13.35	60.33	31.32	27.25	157.53	24.47	13.48	60.12	35.26	26.71
30492	87.99	8.70	17.16	141.97	39.29	13.54	55.54	33.86	26.18	162.91	23.45	13.58	55.54	36.99	25.59
30493	87.52	8.10	17.16	173.13	50.77	13.44	66.31	36.02	28.01	202.44	39.24	13.61	66.37	39.89	27.25
30494	87.23	8.70	17.16	180.94	50.21	13.65	58.43	38.98	26.47	207.60	39.47	13.69	58.71	41.81	25.69
30495	86.73	8.10	17.16	220.23	67.83	13.95	73.85	43.81	31.68	255.29	60.05	14.31	74.03	47.46	30.88
30496	86.46	8.70	17.16	229.58	68.00	14.23	60.89	47.83	28.94	260.94	61.02	14.36	61.34	50.26	28.14
30497	85.94	8.10	17.16	282.64	97.32	15.17	83.66	57.97	40.75	322.05	92.67	15.84	83.90	61.38	40.06
30498	85.70	8.70	17.16	294.12	92.12	15.99	60.94	63.89	34.16	329.13	88.04	16.27	61.44	66.04	33.44
30499	85.15	8.10	17.16	372.96	132.16	18.56	90.69	87.20	56.98	415.81	130.53	19.51	91.05	90.77	56.54
30500	84.94	8.70	17.16	379.57	121.18	20.09	58.92	92.62	43.28	417.61	119.52	20.53	59.28	94.91	42.72
30501	84.37	8.10	17.16	499.96	172.81	23.40	99.33	144.32	87.44	547.75	173.87	24.65	99.39	149.39	87.59
30502	84.17	8.70	17.16	489.43	146.08	26.83	66.39	137.59	69.00	529.25	146.14	27.27	66.46	140.35	69.01
30503	83.58	8.10	17.16	719.70	199.97	24.78	222.72	238.83	225.32	772.87	202.59	24.25	226.28	246.75	230.08
30504	83.41	8.70	17.16	656.59	327.64	26.17	68.19	222.08	209.72	698.27	336.54	26.64	66.87	225.96	215.40
30505	82.79	8.10	17.16	158.79	73.66	99.74	25.66	402.19	306.09	178.19	76.61	106.09	26.06	413.45	316.17
30506	82.65	8.70	17.16	358.12	231.52	81.00	64.15	375.93	306.54	380.22	240.79	89.89	65.62	382.40	318.67
30507	82.00	8.10	17.16	56.83	15.55	60.01	15.85	358.03	200.72	76.92	15.27	68.08	15.83	364.24	211.29
30508	81.88	8.70	17.16	118.86	48.01	73.54	5.92	405.60	222.48	133.78	52.33	87.56	5.87	410.56	236.27
30509	81.21	8.10	17.16	108.72	38.13	27.90	37.28	315.41	134.32	125.05	38.31	41.76	38.47	317.30	148.33
30510	81.12	8.70	17.16	67.54	22.01	45.92	8.79	374.02	149.57	82.86	28.14	65.87	8.96	375.74	167.08
30511	80.42	8.10	17.16	25.85	7.89	22.56	4.06	311.27	102.58	49.58	16.58	47.20	6.25	311.27	125.05
30512	80.36	8.70	17.16	32.61	10.26	24.47	10.10	350.82	102.98	52.77	19.87	56.84	11.41	350.51	128.40
30513	79.63	8.10	17.16	183.66	26.02	43.69	14.59	250.80	57.36	186.48	26.84	54.69	39.42	250.35	83.29
30514	79.60	8.70	17.16	193.44	23.60	46.20	11.18	282.61	61.76	196.29	23.62	60.29	35.52	282.35	90.44
30515	78.84	8.10	17.16	54.94	3.96	26.49	4.12	210.65	20.46	70.56	5.08	31.56	15.85	209.13	49.73
30516	78.83	8.70	17.16	51.51	5.40	26.13	6.96	235.96	23.79	66.66	10.57	31.76	14.64	234.28	57.97
30517	91.15	8.10	15.47	49.64	40.78	43.65	42.31	66.97	93.77	53.21	17.09	48.11	39.76	72.55	96.39
30518	90.76	8.70	15.47	54.77	38.69	44.14	42.89	72.40	91.86	58.51	16.25	47.67	40.42	77.61	94.32
30519	90.33	8.10	15.47	65.93	38.57	42.02	45.25	67.21	85.21	75.38	13.45	44.74	43.38	73.86	86.39
30520	89.97	8.70	15.47	70.83	36.48	42.41	44.56	72.35	83.17	79.86	12.13	44.40	42.70	78.12	84.21
30521	89.51	8.10	15.47	83.94	37.77	41.10	48.88	69.21	79.48	99.73	14.74	42.31	47.52	76.10	79.61
30522	89.18	8.70	15.47	88.77	36.03	41.44	46.65	74.31	77.21	103.40	13.58	42.11	45.27	79.86	77.24
30523	88.69	8.10	15.47	103.66	39.79	40.50	52.87	73.27	76.70	125.40	22.10	40.84	51.93	79.63	76.14
30524	88.38	8.70	15.47	108.81	38.59	40.86	48.85	78.40	74.02	128.68	21.60	40.76	47.87	83.03	73.41
30525	87.87	8.10	15.47	125.16	45.41	40.29	57.15	79.60	77.17	152.00	33.12	40.34	56.56	84.74	76.25
30526	87.59	8.70	15.47	130.38	44.85	40.71	51.09	84.94	73.76	154.68	33.19	40.30	50.47	88.06	72.84
30527	87.05	8.10	15.47	148.18	55.00	40.76	61.58	88.71	81.77	178.98	47.05	40.92	61.26	92.01	80.79
30528	86.79	8.70	15.47	153.31	54.82	41.37	52.84	94.52	76.95	181.06	47.28	40.96	52.53	95.74	76.04
30529	86.23	8.10	15.47	171.54	67.65	42.45	65.29	101.45	92.06	205.12	62.99	42.89	65.21	102.52	91.32
30530	86.00	8.70	15.47	176.12	68.10	43.59	53.73	107.88	84.49	206.34	63.70	43.31	53.71	107.05	83.90
30531	85.41	8.10	15.47	189.93	82.65	46.08	67.44	118.39	109.66	225.30	80.60	46.78	67.63	117.17	109.51
30532	85.20	8.70	15.47	194.40	82.58	48.41	53.51	124.81	97.46	226.24	80.78	48.26	53.85	122.00	97.57
30533	84.59	8.10	15.47	191.55	91.15	52.11	65.62	135.70	133.47	227.54	91.43	52.67	66.21	131.96	134.50
30534	84.41	8.70	15.47	200.11	96.43	53.85	50.30	141.40	116.78	233.12	97.20	53.66	51.02	136.60	118.21
30535	83.77	8.10	15.47	143.86	83.99	46.42	26.83	134.45	142.35	181.35	86.72	46.27	26.08	126.83	144.91
30536	83.61	8.70	15.47	172.16	62.04	51.08	42.80	146.33	128.01	206.68	63.35	51.77	43.54	139.16	131.13
30537	82.96	8.10	15.47	224.95	80.41	39.48	33.39	138.01	146.91	266.65	84.91	43.61	33.62	128.95	151.38
30538	82.82	8.70	15.47	206.27	59.16	43.03	37.76	155.38	138.23	244.48	62.73	49.83	38.63	147.11	143.51
30539	82.14	8.10	15.47	169.59	62.21	48.74	5.05	188.97	153.48	212.54	70.07	62.37	3.57	181.80	160.48
30540	82.03	8.70	15.47	185.93	62.74	43.85	8.79	186.21	144.55	225.72	69.67	61.45	7.07	178.56	152.37
30541	81.32	8.10	15.47	98.93	41.45	48.85	15.30	201.98	130.29	149.84	52.32	67.72	16.52	194.96	139.57
30542	81.23	8.70	15.47	127.91	38.53	50.87	18.15	210.64	124.31	172.81	48.72	74.61	18.09	203.48	134.56
30543	80.50	8.10	15.47	71.54	19.75	56.15	13.36	192.58	102.31	131.29	34.36	75.21	15.76	185.40	114.10
30544	80.44	8.70	15.47	81.96	24.02	59.85	23.79	211.29	103.07	136.83	38.09	83.41	25.15	204.15	116.15
30545	79.68	8.10	15.47	85.61	12.99	60.36	17.51	207.87	77.64	135.65	33.17	78.67	18.46	201.54	94.95
30546	79.64	8.70	15.47	97.42	13.28	59.90	20.74	227.62	78.54	142.11	34.97	82.77	28.40	221.21	97.00
30547	78.86	8.10	15.47	44.86	14.21	48.17	20.84	227.20	50.96	108.19	35.31	68.40	24.16	222.62	78.49
30548	78.85	8.70	15.47	49.16	14.35	49.29	29.88	247.62	50.34	108.31	38.20	73.81	32.30	242.66	79.24
30549	91.62	8.10	13.78	52.71	43.60	73.90	42.65	88.84	131.41	58.15	12.91	85.03	40.71	94.80	133.16
30550	91.25	8.70	13.78	57											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
30577	79.72	8.10	13.78	61.09	16.24	60.64	18.13	159.48	89.43	158.26	40.40	89.81	22.44	145.34	101.54
30578	79.69	8.70	13.78	63.52	16.12	62.70	25.75	163.84	85.88	156.97	39.73	95.83	28.35	149.59	99.81
30579	78.87	8.10	13.78	48.87	16.25	58.63	20.33	160.32	71.84	157.13	42.67	90.55	26.12	150.05	88.23
30580	78.86	8.70	13.78	50.77	15.44	61.14	28.85	164.51	69.49	155.16	41.48	97.24	32.66	153.58	88.04
30581	92.09	8.10	12.09	53.68	49.10	105.13	43.33	102.01	158.44	60.84	17.67	120.87	41.94	107.43	159.44
30582	91.73	8.70	12.09	57.80	48.09	105.26	42.58	108.85	154.69	65.24	17.90	116.91	41.05	113.09	155.50
30583	91.21	8.10	12.09	58.00	47.11	102.12	42.06	102.98	153.19	72.09	18.47	108.51	40.36	106.66	153.86
30584	90.87	8.70	12.09	61.74	45.91	102.26	40.93	109.19	149.12	75.54	18.51	105.78	39.04	111.27	149.64
30585	90.33	8.10	12.09	62.57	45.15	99.44	41.15	105.01	148.27	84.04	20.28	99.19	39.25	105.71	148.60
30586	90.02	8.70	12.09	66.10	44.08	99.59	39.52	110.91	144.09	86.68	20.13	97.47	37.36	109.76	144.35
30587	89.45	8.10	12.09	67.21	43.58	96.80	40.38	107.83	144.34	96.04	22.98	92.30	38.37	104.32	144.42
30588	89.16	8.70	12.09	70.67	42.62	97.01	38.20	113.42	140.08	98.12	22.70	91.47	35.87	107.91	140.15
30589	88.57	8.10	12.09	71.67	42.40	94.09	39.55	111.12	141.59	107.63	26.35	87.31	37.48	102.23	141.55
30590	88.30	8.70	12.09	74.89	41.56	94.43	36.93	116.34	137.11	109.05	25.99	87.26	34.47	105.55	137.11
30591	87.69	8.10	12.09	75.56	41.58	91.32	38.38	114.64	139.97	118.48	30.07	83.80	36.25	99.42	139.96
30592	87.45	8.70	12.09	78.53	40.84	91.81	35.30	119.47	135.13	119.28	29.61	84.52	32.69	102.69	135.22
30593	86.81	8.10	12.09	78.66	40.93	88.51	36.50	118.17	139.25	128.53	33.76	81.58	34.26	96.05	139.43
30594	86.59	8.70	12.09	81.43	40.33	89.20	33.07	122.62	133.95	128.87	33.26	83.09	30.24	99.49	134.32
30595	85.93	8.10	12.09	80.91	40.20	85.74	33.67	121.63	138.99	138.01	37.09	80.64	31.25	92.71	139.52
30596	85.73	8.70	12.09	83.45	39.68	86.66	30.09	125.71	133.21	137.91	36.54	83.02	26.92	96.48	134.02
30597	85.05	8.10	12.09	82.41	38.81	83.07	29.99	125.25	138.63	147.24	39.50	81.18	27.30	90.59	139.69
30598	84.88	8.70	12.09	84.63	38.85	84.29	26.33	128.88	132.41	146.62	39.43	84.48	22.64	94.55	133.85
30599	84.17	8.10	12.09	80.05	36.85	80.74	24.27	127.90	137.31	153.85	41.38	83.69	21.04	88.77	139.06
30600	84.02	8.70	12.09	83.03	35.89	82.27	22.21	131.50	131.08	153.51	40.00	87.75	17.81	93.39	133.36
30601	83.29	8.10	12.09	81.27	34.34	79.03	19.62	130.90	134.80	164.02	42.66	88.30	16.24	89.70	137.44
30602	83.16	8.70	12.09	82.52	33.02	80.71	17.97	134.50	128.81	161.92	40.85	92.65	12.88	94.62	132.16
30603	82.41	8.10	12.09	76.03	30.24	77.92	14.68	134.79	130.66	169.37	42.77	94.27	11.81	94.08	134.40
30604	82.31	8.70	12.09	78.50	29.70	79.77	14.03	137.26	124.58	167.89	41.52	98.75	9.20	97.57	129.21
30605	81.53	8.10	12.09	71.42	25.60	77.18	12.27	137.09	123.53	175.75	42.63	100.48	12.34	98.45	128.60
30606	81.45	8.70	12.09	73.32	25.15	79.54	13.29	139.87	117.78	173.42	41.36	105.47	11.75	102.11	123.94
30607	80.65	8.10	12.09	65.19	21.38	77.33	12.57	139.22	114.56	181.54	42.99	106.80	16.57	104.34	121.23
30608	80.59	8.70	12.09	66.49	21.12	79.93	14.98	141.62	109.73	178.43	41.86	111.88	17.37	107.11	117.77
30609	79.77	8.10	12.09	58.47	18.53	77.55	14.37	140.99	103.98	186.73	44.32	111.53	21.70	111.36	112.69
30610	79.74	8.70	12.09	60.14	17.91	80.44	17.33	143.15	99.98	183.37	42.84	116.83	22.92	113.24	110.34
30611	78.89	8.10	12.09	50.31	17.91	77.70	15.97	141.21	92.35	191.48	46.38	114.15	26.73	118.16	103.66
30612	78.88	8.70	12.09	51.32	17.08	80.92	19.07	143.43	89.34	187.41	44.69	119.79	28.06	119.31	102.63
30613	92.56	8.10	10.41	54.21	54.73	140.05	44.67	110.76	179.11	63.09	24.05	156.63	43.90	115.33	179.68
30614	92.21	8.70	10.41	58.10	54.11	139.98	43.69	117.69	175.00	67.37	24.46	151.12	42.79	120.75	175.40
30615	91.65	8.10	10.41	56.12	52.00	136.04	42.40	112.68	175.21	73.16	23.56	140.47	40.99	113.38	175.60
30616	91.33	8.70	10.41	59.62	51.09	136.07	41.28	118.83	170.73	76.45	23.79	136.63	39.66	117.75	171.00
30617	90.74	8.10	10.41	58.30	49.28	132.07	40.32	115.46	171.08	84.15	24.01	127.57	38.33	110.89	171.29
30618	90.44	8.70	10.41	61.62	48.45	132.21	38.96	121.19	166.52	86.66	24.09	125.27	36.64	114.72	166.66
30619	89.83	8.10	10.41	60.58	46.87	128.04	38.30	118.87	167.37	95.38	25.37	117.76	35.83	107.75	167.43
30620	89.55	8.70	10.41	63.81	46.11	128.33	36.69	124.18	162.81	97.35	25.33	116.85	33.77	111.13	162.85
30621	88.92	8.10	10.41	62.77	44.71	123.93	36.30	122.57	164.18	106.51	27.43	110.73	33.42	103.73	164.17
30622	88.66	8.70	10.41	65.82	44.02	124.42	34.55	127.39	159.55	107.82	27.33	111.06	31.11	106.85	159.56
30623	88.01	8.10	10.41	64.69	42.72	119.76	34.21	126.32	161.45	117.32	29.90	106.17	30.97	98.89	161.47
30624	87.77	8.70	10.41	67.53	42.08	120.49	32.32	130.66	156.67	118.03	29.68	107.61	28.37	101.95	156.76
30625	87.10	8.10	10.41	66.20	40.83	115.60	31.87	129.99	159.07	127.86	32.52	103.82	28.28	93.51	159.22
30626	86.89	8.70	10.41	68.88	40.25	116.60	29.91	133.88	154.10	128.07	32.19	106.26	25.44	96.68	154.38
30627	86.19	8.10	10.41	67.21	38.91	111.54	29.16	133.49	156.81	138.24	35.08	103.53	25.24	88.09	157.20
30628	86.00	8.70	10.41	69.66	38.38	112.86	27.27	136.92	151.63	137.92	34.69	106.83	22.25	91.49	152.22
30629	85.28	8.10	10.41	67.46	36.89	107.76	26.04	136.64	154.38	148.41	37.49	105.21	21.82	83.16	155.12
30630	85.11	8.70	10.41	69.77	36.30	109.40	24.37	139.69	149.04	147.63	36.86	109.21	18.81	86.88	150.05
30631	84.37	8.10	10.41	67.65	34.51	104.34	22.88	139.62	151.47	159.05	39.46	108.62	18.62	79.89	152.68
30632	84.22	8.70	10.41	69.59	34.18	106.34	21.34	142.25	146.02	157.61	39.02	113.16	15.47	83.71	147.59
30633	83.46	8.10	10.41	66.23	31.75	101.44	19.51	142.16	147.70	169.02	41.12	113.49	15.82	78.57	149.50
30634	83.33	8.70	10.41	68.24	31.61	103.87	18.57	144.41	142.24	167.21	40.73	118.44	13.23	82.27	144.51
30635	82.55	8.10	10.41	65.03	28.93	99.22	16.79	144.17	142.81	179.73	42.78	119.37	15.11	79.51	145.35
30636	82.45	8.70	10.41	66.60	28.69	102.03	16.66	146.27	137.60	177.10	42.16	124.52	13.53	83.10	140.72
30637	81.64	8.10	10.41	62.54	26.07	97.73	15.05	145.87	136.90	189.97	44.43	125.62	16.98	83.13	140.33
30638	81.56	8.70	10.41	64.06	25.75	100.83	15.71	147.64	132.09	186.79	43.60	130.76	16.41	85.97	136.26
30639	80.73	8.10	10.41	59.71	23.43	96.81	14.55	146.86	129.83	200.25	46.16	131.34	20.87	88.63	134.36
30640	80.67	8.70	10.41	61.04	22.96	100.24	15.85	148.49	125.50	196.37	45.07	136.53	20.91	90.74	130.94
30641	79.82	8.10	10.41	56.46	21.47	96.56	14.98	147.09	121.86	210.50	48.11	136.08	25.80	95.71	127.75
30642	79.78	8.70	10.41	57.38	20.92	100.25	16.67	148.56	118.14	205.78	46.83	141.33	26.19	96.85	125.15
30643	78.91	8.10	10.41	53.53	20.60	96.89	15.80	146.50	113.28	220.80	50.36	139.30	31.06	104.20	120.88
30644	78.89	8.70	10.41	54.15	19.98	100.82	17.68	147.81	110.18	215.24	48.89	144.70	31.64	104.20	119.10
30645	93.03	8.10	8.72	54.66	59.69	179.49	46.49	117.66	196.15	65.23	30.05	194.06	46.35	121.33	196.54
30646	92.70	8.70	8.72	58.45	59.32	179.49	45.38	124.57	191.88	69.53	30.44	187.52	45.16	126.45	192.16
30647	92.09	8.10	8.72	55.37	56.38	173.70	43.62	121.10</							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
30675	78.92	8.10	8.72	56.71	23.63	116.40	17.40	162.34	134.35	244.92	52.71	166.71	36.63	95.73	139.02
30676	78.91	8.70	8.72	57.13	23.22	121.21	18.93	163.02	131.21	238.44	51.47	172.30	37.26	95.14	136.71
30677	93.50	8.10	7.03	55.27	63.80	222.68	48.69	124.03	211.01	67.41	35.65	233.84	49.22	126.88	211.39
30678	93.18	8.70	7.03	59.06	63.62	222.91	47.49	130.85	206.67	71.79	35.92	226.69	47.98	131.68	206.99
30679	92.53	8.10	7.03	55.42	60.08	214.70	45.39	129.28	208.93	77.99	33.64	208.63	44.86	124.32	208.94
30680	92.23	8.70	7.03	58.78	59.67	215.19	44.35	135.10	204.47	81.24	33.87	203.86	43.61	128.02	204.41
30681	91.56	8.10	7.03	55.89	56.54	206.78	42.19	134.94	206.38	89.72	32.33	187.62	40.47	120.27	206.09
30682	91.28	8.70	7.03	59.06	56.19	207.55	41.16	140.14	201.82	92.11	32.56	185.20	39.02	123.47	201.47
30683	90.59	8.10	7.03	56.56	53.36	198.86	39.03	140.91	203.69	101.78	31.80	171.28	36.11	114.91	203.22
30684	90.33	8.70	7.03	59.64	53.05	199.90	38.02	145.59	199.18	103.61	32.07	171.05	34.48	117.73	198.66
30685	89.62	8.10	7.03	57.31	50.45	190.99	36.00	146.91	200.94	113.76	32.01	159.82	31.97	108.34	200.38
30686	89.38	8.70	7.03	60.21	50.20	192.35	35.14	151.00	196.45	114.91	32.38	161.48	30.31	110.98	195.84
30687	88.65	8.10	7.03	57.98	47.71	183.25	33.14	152.76	198.10	125.44	32.79	153.09	28.15	100.83	197.52
30688	88.43	8.70	7.03	60.71	47.50	184.97	32.41	156.29	193.61	125.96	33.16	156.26	26.40	103.44	193.00
30689	87.67	8.10	7.03	58.51	45.11	175.72	30.40	158.34	195.14	136.90	33.99	150.53	24.67	92.73	194.63
30690	87.48	8.70	7.03	61.09	44.93	177.81	29.84	161.34	190.66	136.94	34.35	154.83	22.86	95.44	190.14
30691	86.70	8.10	7.03	58.86	42.59	168.50	27.77	163.56	192.03	148.33	35.51	151.39	21.64	84.52	191.64
30692	86.53	8.70	7.03	61.25	42.44	170.98	27.42	166.05	187.56	147.85	35.84	156.45	19.86	87.41	187.19
30693	85.73	8.10	7.03	59.03	40.14	161.69	25.28	168.31	188.69	159.90	37.27	154.80	19.34	76.79	188.47
30694	85.58	8.70	7.03	61.24	40.00	164.60	25.17	170.35	184.23	158.90	37.51	160.33	17.69	79.87	184.06
30695	84.76	8.10	7.03	59.08	37.73	155.41	23.00	172.54	185.05	171.86	39.18	159.97	18.19	70.29	185.03
30696	84.63	8.70	7.03	61.10	37.63	158.77	23.17	174.14	180.64	170.33	39.33	165.74	16.87	73.47	180.71
30697	83.79	8.10	7.03	58.99	35.38	149.80	21.04	176.14	181.03	184.38	41.23	166.19	18.64	65.81	181.27
30698	83.68	8.70	7.03	60.82	35.31	153.63	21.52	177.36	176.71	182.25	41.27	172.07	17.82	68.91	177.08
30699	82.82	8.10	7.03	58.88	33.13	145.00	19.54	179.04	176.60	197.67	43.39	172.87	20.83	64.10	177.12
30700	82.73	8.70	7.03	60.47	33.06	149.29	20.34	179.94	172.42	194.85	43.29	178.76	20.55	66.84	173.12
30701	81.85	8.10	7.03	58.74	31.03	141.13	18.59	181.17	171.73	211.85	45.66	179.50	24.54	65.58	172.60
30702	81.78	8.70	7.03	60.10	30.97	145.86	19.67	181.80	167.75	208.24	45.39	185.35	24.69	67.65	168.86
30703	80.88	8.10	7.03	58.73	29.18	138.30	18.22	182.48	166.44	227.07	48.01	185.62	29.39	70.20	167.73
30704	80.83	8.70	7.03	59.79	29.11	143.43	19.53	182.88	162.71	222.52	47.55	191.43	29.86	71.40	164.31
30705	79.91	8.10	7.03	58.92	27.70	136.59	18.36	182.90	160.81	243.46	50.42	190.84	35.10	77.62	162.61
30706	79.88	8.70	7.03	59.64	27.61	142.04	19.82	183.15	157.37	237.82	49.76	196.64	35.81	77.82	159.56
30707	78.94	8.10	7.03	59.45	26.70	136.02	18.89	182.41	154.91	261.16	52.85	194.85	41.50	87.41	157.36
30708	78.93	8.70	7.03	59.78	26.58	141.72	20.43	182.55	151.79	254.26	51.96	200.69	42.39	86.60	154.72
30709	93.97	8.10	5.34	55.89	66.70	268.31	51.01	130.39	224.32	69.81	40.87	276.06	52.16	132.65	224.75
30710	93.66	8.70	5.34	59.63	66.63	268.79	49.72	136.98	219.93	74.17	40.93	268.47	50.88	136.98	220.34
30711	92.97	8.10	5.34	56.22	62.96	258.37	47.51	137.77	223.18	81.57	38.86	245.60	47.40	130.70	222.98
30712	92.68	8.70	5.34	59.51	62.81	259.32	46.50	143.31	218.98	84.70	39.03	240.85	46.19	133.92	218.72
30713	91.97	8.10	5.34	56.61	59.42	247.93	44.14	145.03	221.38	93.94	37.24	219.25	42.58	126.00	220.78
30714	91.70	8.70	5.34	59.71	59.34	249.26	43.19	149.92	217.09	96.16	37.46	217.25	41.19	128.77	216.42
30715	90.97	8.10	5.34	57.10	56.19	237.43	40.76	152.36	219.20	106.29	36.11	198.68	37.72	119.46	218.37
30716	90.72	8.70	5.34	60.10	56.16	239.08	39.88	156.73	214.96	107.95	36.45	199.20	36.17	121.93	214.06
30717	89.97	8.10	5.34	57.60	53.20	227.13	37.49	159.59	216.78	118.17	35.50	184.46	33.10	111.46	215.84
30718	89.74	8.70	5.34	60.43	53.25	229.13	36.82	163.36	212.57	119.17	36.02	187.07	31.56	113.86	211.54
30719	88.96	8.10	5.34	57.98	50.37	217.19	34.39	166.60	214.14	129.41	35.32	176.42	28.91	102.52	213.20
30720	88.76	8.70	5.34	60.66	50.47	219.53	33.92	169.81	209.94	129.83	35.94	180.61	27.32	104.97	208.91
30721	87.96	8.10	5.34	58.22	47.65	207.65	31.44	173.32	211.32	140.17	35.52	173.73	25.22	93.13	210.43
30722	87.77	8.70	5.34	60.78	47.80	210.36	31.19	175.98	207.13	140.18	36.23	178.96	23.65	95.72	206.18
30723	86.96	8.10	5.34	58.30	45.03	198.59	28.67	179.65	208.30	150.77	36.11	175.14	22.21	83.83	207.53
30724	86.79	8.70	5.34	60.69	45.21	201.68	28.66	181.78	204.12	150.32	36.85	180.99	20.74	86.59	203.30
30725	85.96	8.10	5.34	58.28	42.49	190.06	26.11	185.48	205.05	161.49	37.04	179.39	20.18	75.20	204.43
30726	85.81	8.70	5.34	60.50	42.71	193.58	26.35	187.12	200.90	160.60	37.75	185.55	18.91	78.10	200.24
30727	84.96	8.10	5.34	58.19	40.05	182.16	23.82	190.72	201.55	172.68	38.28	185.38	19.50	67.89	201.10
30728	84.83	8.70	5.34	60.25	40.30	186.15	24.32	191.90	197.44	171.32	38.93	191.66	18.60	70.82	196.98
30729	83.96	8.10	5.34	58.13	37.71	175.02	21.89	195.25	197.77	184.66	39.82	192.26	20.47	62.60	197.50
30730	83.85	8.70	5.34	60.00	37.98	179.50	22.67	196.03	193.72	182.76	40.37	198.54	20.04	65.38	193.47
30731	82.96	8.10	5.34	58.13	35.52	168.79	20.42	198.97	193.68	197.70	41.62	199.39	23.06	59.98	193.60
30732	82.87	8.70	5.34	59.79	35.81	173.78	21.47	199.40	189.74	195.16	42.04	205.62	23.10	62.36	189.72
30733	81.95	8.10	5.34	58.30	33.51	163.64	19.48	201.81	189.27	212.07	43.65	206.29	27.02	60.42	189.41
30734	81.89	8.70	5.34	59.71	33.81	169.11	20.76	201.94	185.48	208.74	43.90	212.45	27.44	62.14	185.70
30735	80.95	8.10	5.34	58.72	31.76	159.71	19.09	203.68	184.58	228.01	45.85	212.58	32.07	63.87	184.94
30736	80.90	8.70	5.34	59.83	32.07	165.61	20.55	203.58	180.97	223.73	45.92	218.68	32.80	64.79	181.46
30737	79.95	8.10	5.34	59.49	30.35	157.13	19.20	204.53	179.63	245.77	48.19	217.95	38.02	69.97	180.26
30738	79.92	8.70	5.34	60.26	30.65	163.39	20.78	204.26	176.24	240.34	48.04	224.02	38.99	70.04	177.04
30739	78.95	8.10	5.34	60.72	29.36	155.97	19.72	204.31	174.48	265.62	50.59	222.15	44.77	78.26	175.44
30740	78.94	8.70	5.34	61.07	29.65	162.49	21.36	203.94	171.34	258.81	50.21	228.23	45.94	77.50	172.52
30741	78.06	8.10	17.16	75.99	17.29	11.77	5.45	205.68	9.07	86.98	17.86	20.99	5.31	205.73	49.38
30742	78.07	8.70	17.16	75.59	8.75	11.96	7.52	231.64	14.72	85.85	11.83	21.84	7.45	231.40	58.26
30743	77.27	8.10	17.16	200.56	38.04	22.52	19.02	234.54	43.00	202.13	39.43	41.18	32.02	238.90	83.86
30744	77.31	8.70	17.16	212.21	36.13	28.63	15.84	269.09	52.21	214.06	36.54	50.26	27.80	273.29	94.07
30745	76.48	8.10	17.16	10.82	17.20	18.02	3.13	289.70	87.47	41.0					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
30773	78.04	8.10	15.47	23.23	19.91	29.99	20.42	223.93	23.43	101.88	39.72	57.28	24.92	222.75	67.47
30774	78.05	8.70	15.47	23.65	23.58	33.50	29.62	244.66	21.41	99.88	44.31	64.88	32.41	242.70	68.22
30775	77.22	8.10	15.47	41.85	25.81	30.46	15.85	199.82	11.63	115.61	44.92	59.30	26.75	202.87	65.81
30776	77.26	8.70	15.47	47.68	30.48	34.01	26.00	219.82	13.96	115.59	49.26	67.96	32.86	221.45	68.57
30777	76.40	8.10	15.47	29.40	40.34	31.44	12.88	181.01	29.78	116.36	56.05	59.37	23.96	188.86	72.85
30778	76.46	8.70	15.47	33.04	47.62	35.71	23.16	199.72	33.38	116.42	62.50	70.80	29.98	205.53	77.33
30779	75.58	8.10	15.47	48.94	64.21	34.36	14.16	187.20	54.89	124.71	81.32	59.06	26.57	199.14	90.72
30780	75.67	8.70	15.47	69.44	63.25	37.70	17.56	196.13	52.17	137.45	78.12	70.29	30.59	204.53	89.98
30781	74.76	8.10	15.47	107.54	86.27	36.30	5.82	173.62	74.60	169.08	103.89	56.24	32.09	189.82	105.03
30782	74.87	8.70	15.47	118.38	88.41	42.06	8.76	171.73	69.21	176.12	103.35	66.55	32.29	182.86	101.82
30783	73.94	8.10	15.47	153.65	105.26	45.91	31.68	126.67	66.17	211.72	121.29	53.22	52.11	144.89	92.86
30784	74.08	8.70	15.47	138.50	80.45	51.89	30.11	140.45	62.88	195.44	90.89	64.07	50.77	153.77	93.09
30785	73.13	8.10	15.47	89.39	104.55	55.44	19.24	117.22	64.53	148.41	118.13	56.38	35.60	142.11	90.27
30786	73.29	8.70	15.47	109.02	81.02	59.53	30.77	124.79	57.32	162.33	89.94	63.32	49.13	142.36	87.70
30787	72.31	8.10	15.47	127.03	111.98	59.43	54.56	110.29	60.54	177.54	125.36	59.27	69.36	143.16	86.70
30788	72.49	8.70	15.47	130.56	118.04	61.24	39.43	113.71	51.00	177.45	130.48	61.37	57.76	138.37	82.20
30789	71.49	8.10	15.47	123.60	103.85	53.07	54.64	90.58	41.38	170.71	116.17	53.89	66.83	132.48	69.22
30790	71.70	8.70	15.47	124.00	104.68	56.12	41.20	94.83	35.88	167.37	115.59	55.87	56.94	127.78	68.36
30791	70.67	8.10	15.47	107.47	88.78	48.97	50.37	72.66	28.55	150.97	100.40	51.38	60.04	122.15	59.73
30792	70.90	8.70	15.47	107.99	90.09	50.86	39.28	76.96	26.99	148.21	99.90	51.40	51.91	117.57	61.44
30793	69.85	8.10	15.47	88.15	75.11	46.59	44.58	59.06	22.81	127.04	86.33	50.87	51.82	113.05	57.27
30794	70.11	8.70	15.47	89.22	75.76	47.80	36.10	62.82	23.14	125.56	84.81	49.63	45.66	108.79	59.45
30795	69.03	8.10	15.47	69.97	63.21	45.37	38.13	48.84	21.40	102.87	73.98	51.62	42.95	103.38	58.29
30796	69.31	8.70	15.47	71.17	63.60	46.23	32.15	52.17	22.37	102.41	71.91	49.60	38.61	100.23	60.10
30797	68.21	8.10	15.47	53.77	53.95	44.77	31.94	41.02	22.23	79.39	63.68	52.74	34.16	92.16	60.49
30798	68.52	8.70	15.47	54.97	53.77	45.47	27.91	44.15	23.42	79.94	61.01	50.29	31.08	90.72	61.80
30799	67.39	8.10	15.47	39.64	47.29	44.32	26.43	35.01	24.66	57.21	54.84	52.97	25.64	79.37	62.76
30800	67.72	8.70	15.47	40.66	46.36	44.97	24.08	38.13	26.00	58.46	51.57	50.55	23.51	79.83	63.98
30801	66.57	8.10	15.47	27.49	43.29	43.56	22.10	30.55	28.82	37.05	47.40	50.54	17.64	65.49	64.69
30802	66.93	8.70	15.47	28.64	41.62	44.26	21.21	33.77	30.21	39.00	43.73	48.88	16.38	68.05	66.18
30803	65.75	8.10	15.47	17.39	41.62	42.15	19.73	27.34	34.91	20.32	41.29	44.42	11.38	51.07	66.51
30804	66.14	8.70	15.47	18.75	39.52	43.07	19.94	30.79	36.26	22.54	37.61	44.53	10.79	55.89	68.52
30805	78.03	8.10	13.78	35.56	20.57	57.55	20.73	158.74	54.27	156.97	46.49	89.98	29.30	153.17	76.88
30806	78.04	8.70	13.78	36.03	20.37	60.67	29.30	162.83	52.97	154.20	45.41	97.42	35.39	155.86	78.07
30807	77.18	8.10	13.78	31.79	28.01	56.24	19.64	154.65	37.42	159.59	51.96	87.31	30.73	155.14	68.89
30808	77.21	8.70	13.78	31.18	29.30	59.63	27.51	158.75	37.25	156.42	51.71	95.28	35.78	156.87	71.32
30809	76.33	8.10	13.78	37.79	36.40	56.39	16.73	146.73	22.81	165.36	58.87	84.14	32.78	154.57	65.29
30810	76.39	8.70	13.78	37.54	38.20	60.32	23.52	149.71	24.15	162.01	58.79	92.57	36.30	153.83	68.49
30811	75.48	8.10	13.78	46.70	44.29	59.30	12.01	133.29	14.60	172.52	64.70	80.95	34.52	149.49	65.09
30812	75.56	8.70	13.78	44.58	48.70	63.30	18.58	135.81	16.51	167.27	67.29	89.59	36.33	146.97	68.79
30813	74.63	8.10	13.78	51.96	51.57	66.44	11.49	121.79	14.59	174.65	70.46	78.92	37.61	146.69	66.94
30814	74.73	8.70	13.78	49.56	55.49	68.63	13.68	125.76	16.03	168.72	72.60	86.43	37.79	144.48	70.43
30815	73.78	8.10	13.78	52.25	57.02	70.71	14.50	117.65	19.19	170.60	74.93	75.86	40.48	153.85	70.91
30816	73.91	8.70	13.78	53.49	65.67	73.31	12.91	117.48	18.18	166.66	82.29	82.44	39.60	145.67	73.05
30817	72.93	8.10	13.78	68.10	63.21	72.82	24.39	107.66	21.04	177.04	80.33	73.12	49.33	156.24	72.12
30818	73.08	8.70	13.78	62.82	69.99	76.48	15.21	109.15	20.09	168.72	85.69	79.22	43.59	148.71	74.45
30819	72.08	8.10	13.78	61.95	63.58	74.53	20.65	96.19	20.60	166.98	79.67	72.83	48.49	157.89	71.99
30820	72.26	8.70	13.78	59.86	63.29	78.02	20.21	99.00	21.03	160.66	77.21	77.18	46.17	150.32	75.24
30821	71.23	8.10	13.78	60.67	61.80	76.61	29.69	88.10	21.15	158.77	76.91	75.96	50.55	162.25	73.50
30822	71.43	8.70	13.78	59.01	62.65	78.90	23.83	90.81	22.11	152.94	75.70	77.12	47.69	153.79	76.81
30823	70.38	8.10	13.78	56.92	58.79	76.82	30.54	79.74	21.94	147.55	72.61	79.59	49.36	164.16	75.65
30824	70.61	8.70	13.78	55.71	59.01	78.69	25.26	82.53	23.14	142.40	70.74	78.37	46.82	155.64	78.66
30825	69.53	8.10	13.78	50.95	54.84	76.73	29.30	71.53	23.09	132.85	66.94	84.54	46.00	162.39	78.62
30826	69.78	8.70	13.78	50.15	54.79	78.23	25.05	74.38	24.35	128.78	64.85	81.20	44.07	154.57	81.20
30827	68.68	8.10	13.78	43.68	51.31	76.79	26.95	63.85	24.45	115.02	60.93	90.51	41.22	156.34	81.93
30828	68.96	8.70	13.78	43.34	50.96	78.01	23.83	66.75	25.75	112.41	58.70	85.43	39.87	149.94	84.12
30829	67.83	8.10	13.78	35.95	48.76	76.94	24.20	56.76	26.23	94.79	54.83	96.30	35.46	145.55	85.08
30830	68.13	8.70	13.78	36.01	48.10	78.00	22.17	59.72	27.62	93.91	52.70	90.04	34.55	141.24	86.90
30831	66.98	8.10	13.78	28.35	47.48	76.85	21.64	50.13	28.97	73.31	48.82	99.84	29.00	129.82	87.68
30832	67.30	8.70	13.78	28.68	46.42	77.90	20.65	53.19	30.50	73.95	46.72	93.39	28.44	127.94	89.53
30833	66.13	8.10	13.78	21.30	47.50	76.15	19.81	43.75	33.21	52.73	43.08	98.84	21.94	109.31	89.35
30834	66.48	8.70	13.78	21.97	46.02	77.38	19.74	46.98	34.83	54.71	41.08	93.46	21.84	110.36	91.59
30835	65.28	8.10	13.78	14.89	48.27	74.63	19.16	37.10	39.12	33.88	38.05	91.73	14.98	83.23	89.98
30836	65.65	8.70	13.78	15.89	46.70	76.29	19.82	40.68	40.80	36.93	36.37	88.90	15.33	87.96	92.97
30837	78.01	8.10	12.09	44.60	19.90	77.95	16.76	139.65	80.46	196.95	49.31	114.67	31.00	124.67	95.12
30838	78.02	8.70	12.09	44.92	19.23	81.31	19.94	141.76	78.43	192.16	47.49	120.61	32.37	124.70	95.37
30839	77.13	8.10	12.09	40.56	23.61	79.02	16.60	136.35	68.92	202.68	52.81	113.53	35.13	131.07	87.81
30840	77.16	8.70	12.09	40.01	23.17	82.57	19.81	138.19	67.84	197.06	50.88	119.88	36.44	129.63	89.22
30841	76.25	8.10	12.09	39.90	28.18	81.08	15.80	131.61	58.46	208.37	56.42	110.82	38.87	137.82	82.41
30842	76.31	8.70	12.09	38.80	28.07	84.70	18.86	133.42	58.15	201.89	54.53	117.53	39.96	135.02	84.75
30843	75.37	8.10	12.09	41.03	33.06	84.14	15.13	126.45	49.58	212.96	60.21	106.90	42.80	146.15	79.28
30844	75.45	8.70	12.09	39.37	32.55	87.65	17.45	128.34	50.08	20					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
30871	77.08	8.10	10.41	49.51	22.63	99.52	17.10	142.49	95.78	241.34	55.37	140.29	41.88	125.00	108.15
30872	77.12	8.70	10.41	49.18	22.03	103.73	19.03	143.68	93.89	233.78	53.51	146.26	42.61	122.49	108.03
30873	76.17	8.10	10.41	49.01	25.06	101.88	17.49	139.23	87.58	251.37	57.89	138.01	47.39	137.70	103.20
30874	76.23	8.70	10.41	48.11	24.51	106.06	19.32	140.40	86.30	242.69	55.83	144.36	48.14	133.76	103.88
30875	75.26	8.10	10.41	49.44	27.89	104.80	17.89	135.26	80.15	260.97	60.11	134.07	52.94	152.17	99.66
30876	75.34	8.70	10.41	48.08	27.50	108.91	19.56	136.38	79.38	251.10	58.00	140.84	53.66	146.60	101.00
30877	74.35	8.10	10.41	50.38	30.75	108.31	18.52	130.68	73.73	269.76	61.81	128.90	58.52	168.32	97.78
30878	74.45	8.70	10.41	48.61	30.44	112.18	19.92	131.89	73.39	258.63	59.59	136.01	59.18	161.15	99.66
30879	73.44	8.10	10.41	51.45	33.46	112.04	19.50	125.76	68.17	277.11	62.79	123.01	63.93	186.37	97.55
30880	73.57	8.70	10.41	49.39	33.29	115.74	20.55	126.93	68.13	264.88	60.58	130.32	64.55	177.25	99.80
30881	72.53	8.10	10.41	52.44	36.13	115.85	20.70	120.42	63.59	282.96	63.07	117.46	69.21	205.66	99.01
30882	72.68	8.70	10.41	50.09	35.77	119.40	21.40	121.70	63.65	269.59	60.59	124.58	69.75	194.68	101.48
30883	71.62	8.10	10.41	52.84	38.47	119.77	21.96	114.75	59.74	285.95	62.23	113.95	73.86	225.55	102.03
30884	71.79	8.70	10.41	50.40	37.83	123.04	22.45	116.12	59.83	271.74	59.41	120.00	74.51	212.62	104.62
30885	70.71	8.10	10.41	52.61	40.59	123.85	23.17	108.95	56.27	285.44	60.12	115.01	77.99	245.23	106.41
30886	70.90	8.70	10.41	50.14	39.99	126.76	23.51	110.38	56.42	270.75	57.46	118.56	78.65	230.38	109.09
30887	69.80	8.10	10.41	51.35	42.78	128.08	24.17	102.97	52.98	279.79	56.81	123.39	81.21	263.13	111.90
30888	70.01	8.70	10.41	48.99	42.09	130.61	24.48	104.42	53.19	265.28	54.26	122.72	81.89	246.59	114.64
30889	68.89	8.10	10.41	48.82	45.15	132.63	24.90	96.86	49.71	267.27	52.29	141.11	83.24	277.18	118.18
30890	69.13	8.70	10.41	46.73	44.35	134.70	25.27	98.30	50.07	253.92	50.06	134.68	83.99	259.47	121.00
30891	67.98	8.10	10.41	44.74	47.86	137.47	25.33	90.49	46.46	245.96	46.73	167.84	83.62	284.22	124.81
30892	68.24	8.70	10.41	43.16	46.90	139.05	25.81	91.93	47.12	235.15	44.97	154.99	84.35	266.44	127.69
30893	67.07	8.10	10.41	38.99	50.98	142.34	25.44	83.54	43.45	214.54	40.57	200.22	81.78	279.79	131.27
30894	67.35	8.70	10.41	38.11	49.82	143.48	26.05	85.06	44.55	207.67	39.45	181.57	82.29	263.77	133.91
30895	66.16	8.10	10.41	31.95	54.60	146.45	25.17	75.56	41.28	174.65	35.17	231.23	76.97	259.44	136.65
30896	66.46	8.70	10.41	31.75	53.17	147.45	25.98	77.27	42.95	171.84	34.33	209.18	77.30	247.14	139.23
30897	65.25	8.10	10.41	25.04	58.82	149.21	24.48	66.43	40.98	134.40	33.93	254.89	67.87	223.88	137.78
30898	65.57	8.70	10.41	25.42	57.06	150.40	25.55	68.56	43.21	134.94	32.52	232.32	68.89	216.95	141.17
30899	64.34	8.10	10.41	16.73	62.75	149.04	23.98	55.34	43.13	81.96	37.72	258.91	59.56	165.41	135.16
30900	64.69	8.70	10.41	17.92	61.18	151.03	25.21	58.28	45.86	88.44	35.46	240.73	59.68	167.29	138.86
30901	77.98	8.10	8.72	56.40	23.43	117.27	18.14	160.85	127.23	259.90	55.07	168.73	42.86	107.45	133.28
30902	77.99	8.70	8.72	56.39	22.98	122.22	19.73	161.46	124.56	252.19	53.60	174.48	43.62	105.67	131.59
30903	77.04	8.10	8.72	56.61	24.03	118.99	18.93	158.52	120.13	275.48	57.35	168.94	49.44	121.10	127.94
30904	77.07	8.70	8.72	56.12	23.56	124.01	20.54	159.11	117.91	266.37	55.64	174.95	50.31	118.06	126.88
30905	76.10	8.10	8.72	57.46	25.34	121.48	19.75	155.38	113.25	291.66	59.41	167.25	56.33	136.75	123.30
30906	76.15	8.70	8.72	56.49	24.85	126.47	21.34	155.99	111.43	280.96	57.46	173.62	57.30	132.33	122.82
30907	75.16	8.10	8.72	58.86	27.17	124.65	20.62	151.49	106.74	308.34	61.12	163.66	63.54	154.50	119.63
30908	75.23	8.70	8.72	57.37	26.66	129.55	22.16	152.16	105.27	295.87	58.90	170.47	64.59	148.58	119.71
30909	74.22	8.10	8.72	60.70	29.37	128.33	21.60	146.90	100.67	325.38	62.31	158.25	71.05	174.52	117.17
30910	74.31	8.70	8.72	58.71	28.84	133.10	23.07	147.66	99.49	310.96	59.85	165.57	72.18	166.87	117.76
30911	73.28	8.10	8.72	62.80	31.79	132.44	22.74	141.68	95.08	342.56	62.80	151.33	78.82	196.84	116.14
30912	73.39	8.70	8.72	60.33	31.22	137.00	24.12	142.58	94.14	325.97	60.12	159.15	80.04	187.25	117.20
30913	72.34	8.10	8.72	64.98	34.33	136.88	24.05	135.93	89.89	359.35	62.37	143.56	86.76	221.50	116.69
30914	72.48	8.70	8.72	62.05	33.77	141.20	25.33	136.96	89.13	340.45	59.58	151.70	88.10	209.65	118.17
30915	71.40	8.10	8.72	67.01	37.03	141.62	25.48	129.79	84.98	375.10	60.88	136.38	94.81	248.44	118.95
30916	71.56	8.70	8.72	63.65	36.48	145.67	26.68	130.94	84.37	353.80	58.07	144.30	96.29	233.96	120.83
30917	70.45	8.10	8.72	68.63	39.95	146.73	26.99	123.39	80.21	388.50	58.15	132.71	102.75	277.36	122.97
30918	70.64	8.70	8.72	64.88	39.33	150.45	28.14	124.62	79.74	364.88	55.36	139.12	104.45	259.84	125.27
30919	69.51	8.10	8.72	69.46	43.16	152.37	28.53	116.96	75.42	397.62	54.01	137.60	110.36	307.69	128.77
30920	69.72	8.70	8.72	65.42	42.47	155.68	29.66	118.16	75.11	372.04	51.40	140.02	112.35	286.70	131.54
30921	68.57	8.10	8.72	68.97	46.79	158.81	30.02	110.70	70.48	399.32	48.43	157.28	117.24	338.05	136.19
30922	68.80	8.70	8.72	64.83	45.97	161.56	31.16	111.72	70.38	372.76	46.24	152.45	119.59	313.27	139.56
30923	67.63	8.10	8.72	66.36	50.97	166.35	31.37	104.71	65.32	388.61	42.03	196.34	122.78	365.28	144.85
30924	67.88	8.70	8.72	62.47	49.96	168.34	32.51	105.39	65.56	363.17	40.48	181.36	125.38	337.00	148.91
30925	66.69	8.10	8.72	60.45	55.86	175.23	32.44	98.71	59.95	357.83	37.38	255.43	126.20	382.37	154.27
30926	66.96	8.70	8.72	57.39	54.56	176.21	33.51	98.99	60.72	337.07	36.31	228.46	128.42	352.22	158.74
30927	65.75	8.10	8.72	49.97	61.61	184.85	33.03	91.51	54.56	297.55	41.07	327.37	126.76	374.69	163.94
30928	66.04	8.70	8.72	48.42	59.97	184.87	33.96	91.71	56.20	286.06	39.10	289.43	127.46	347.43	168.26
30929	64.81	8.10	8.72	35.14	68.14	191.14	32.69	80.41	49.75	206.92	56.10	379.78	122.59	317.23	174.17
30930	65.12	8.70	8.72	35.67	66.07	191.26	33.48	81.65	52.65	208.41	52.47	340.03	121.09	302.34	175.74
30931	63.87	8.10	8.72	29.95	76.03	193.13	29.54	67.75	48.43	171.84	90.83	401.52	94.68	241.84	165.03
30932	64.20	8.70	8.72	30.10	73.89	194.44	31.27	70.09	52.06	170.35	83.10	368.58	101.07	238.10	169.82
30933	77.96	8.10	7.03	60.42	26.27	136.59	19.68	180.97	148.86	280.33	55.23	197.38	48.50	99.29	152.15
30934	77.97	8.70	7.03	60.30	26.12	142.43	21.26	181.06	146.07	271.93	54.09	203.33	49.56	97.43	149.95
30935	76.99	8.10	7.03	61.95	26.46	138.23	20.62	178.59	142.77	301.15	57.45	198.22	56.10	113.19	147.15
30936	77.02	8.70	7.03	61.33	26.27	144.13	22.24	178.69	140.32	290.99	56.05	204.36	57.30	110.25	145.41
30937	76.07	8.10	7.03	64.08	27.26	140.84	21.69	175.27	136.76	323.80	59.42	197.21	64.31	129.13	142.58
30938	76.07	8.70	7.03	62.91	27.04	146.69	23.32	175.43	134.63	311.57	57.74	203.64	65.67	125.04	141.31
30939	75.05	8.10	7.03	66.83	28.61	144.26	22.87	171.02	130.91	348.49	61.00	194.22	73.19	147.30	138.65
30940	75.12	8.70	7.03	65.07	28.35	150.01	24.50	171.29	129.07	333.84	59.04	201.04	74.71	141.90	137.86
30941	74.08	8.10	7.03	70.19	30.42	148.36	2								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
30969	75.95	8.10	5.34	68.15	29.54	160.67	22.89	196.99	158.54	341.02	57.30	225.70	69.84	113.85	161.23
30970	76.00	8.70	5.34	66.85	29.72	167.29	24.63	196.70	156.20	328.06	56.08	232.20	71.61	110.71	159.36
30971	74.95	8.10	5.34	72.16	30.69	164.53	24.33	192.31	153.29	372.92	59.00	223.28	80.07	129.28	157.04
30972	75.02	8.70	5.34	70.17	30.83	171.00	26.09	192.17	151.20	356.97	57.49	230.09	82.08	125.26	155.56
30973	73.94	8.10	5.34	77.11	32.34	169.22	25.97	186.53	148.12	409.20	60.23	218.80	91.42	146.82	153.38
30974	74.03	8.70	5.34	74.30	32.44	175.49	27.76	186.61	146.28	389.58	58.40	226.00	93.75	141.77	152.32
30975	72.94	8.10	5.34	83.09	34.47	174.52	27.86	179.67	143.06	450.71	60.81	212.11	104.07	166.86	150.47
30976	73.05	8.70	5.34	79.35	34.53	180.57	29.68	180.03	141.45	426.55	58.69	219.81	106.82	160.55	149.85
30977	71.94	8.10	5.34	90.30	37.06	180.25	30.04	171.80	138.07	498.56	60.60	203.14	118.19	189.96	148.40
30978	72.07	8.70	5.34	85.44	37.08	186.09	31.92	172.50	136.69	468.70	58.20	211.45	121.56	182.05	148.40
30979	70.94	8.10	5.34	99.00	40.11	186.27	32.58	163.01	133.10	554.25	59.42	192.03	134.00	216.98	147.85
30980	71.09	8.70	5.34	92.77	40.09	191.92	34.57	164.08	131.93	517.13	56.78	201.01	138.31	206.94	148.31
30981	69.94	8.10	5.34	109.58	43.67	192.51	35.58	153.45	128.06	619.92	57.16	179.50	151.77	249.20	148.83
30982	70.11	8.70	5.34	101.62	43.62	198.01	37.74	154.90	127.10	573.35	54.31	189.10	157.51	236.21	150.00
30983	68.94	8.10	5.34	122.63	47.88	198.96	39.09	143.38	122.84	698.80	53.74	167.79	171.61	288.69	151.93
30984	69.13	8.70	5.34	112.38	47.75	204.35	41.59	145.17	122.07	639.50	50.97	177.52	179.89	271.43	154.05
30985	67.94	8.10	5.34	139.03	53.04	205.79	43.22	133.33	117.30	795.79	49.37	162.74	193.61	339.04	157.64
30986	68.14	8.70	5.34	125.74	52.80	211.10	46.29	135.26	116.70	719.14	46.96	170.95	205.97	315.32	161.20
30987	66.93	8.10	5.34	160.15	59.56	213.39	48.09	124.47	111.24	918.97	46.20	176.64	217.69	406.53	166.39
30988	67.16	8.70	5.34	142.67	59.12	218.59	52.20	125.97	110.82	817.75	44.76	179.64	237.46	372.44	172.31
30989	65.93	8.10	5.34	188.10	68.74	222.75	53.50	119.54	104.31	1081.91	51.70	228.40	241.09	503.74	178.34
30990	66.18	8.70	5.34	164.54	67.31	227.59	59.74	119.08	104.03	943.81	50.18	220.32	275.71	451.24	188.93
30991	64.93	8.10	5.34	225.46	84.37	236.49	58.96	125.02	96.10	1303.94	90.97	345.10	257.42	656.45	190.81
30992	65.20	8.70	5.34	194.14	80.39	240.35	69.11	118.95	95.76	1115.03	78.78	317.80	319.87	570.91	212.85
30993	63.93	8.10	5.34	273.66	118.41	264.19	66.01	152.73	81.93	1603.20	235.03	604.67	263.64	914.25	204.54
30994	64.22	8.70	5.34	233.56	106.71	262.61	81.49	134.56	85.57	1349.35	173.52	524.02	370.94	766.91	240.14
30995	62.93	8.10	5.34	329.57	180.48	385.21	85.27	226.66	40.10	1970.93	597.23	1525.36	306.18	1392.14	254.40
30996	63.24	8.70	5.34	285.81	180.24	354.78	115.44	186.41	54.18	1659.43	542.88	1237.82	541.15	1123.59	322.65
30997	86.37	9.28	17.16	222.92	61.42	14.45	47.01	48.63	25.20	250.65	54.39	14.43	47.77	50.25	24.40
30998	87.07	9.26	17.16	179.29	46.82	13.90	49.86	40.61	24.68	203.18	36.30	13.85	50.42	42.72	23.92
30999	87.78	9.23	17.16	143.58	36.93	13.80	50.50	35.76	25.23	162.80	21.41	13.78	50.74	38.28	24.67
31000	86.44	9.85	17.16	199.91	49.62	14.43	38.27	46.40	21.93	223.60	41.34	14.33	39.56	47.53	21.11
31001	87.07	9.77	17.16	167.17	39.92	14.10	43.59	40.82	23.07	187.87	28.37	14.00	44.51	42.47	22.34
31002	87.68	9.68	17.16	138.92	33.19	14.04	46.80	37.00	24.54	156.08	16.99	14.00	47.35	39.10	24.01
31003	86.52	10.41	17.16	176.21	38.66	14.49	33.64	44.60	20.29	196.34	29.00	14.38	35.71	45.39	19.47
31004	87.05	10.27	17.16	153.44	33.20	14.33	39.28	41.03	22.16	171.31	20.47	14.23	40.72	42.33	21.49
31005	87.58	10.13	17.16	132.18	29.27	14.27	43.68	38.34	24.13	147.41	12.48	14.21	44.59	40.12	23.67
31006	78.83	9.50	17.16	16.26	6.54	24.53	52.24	349.82	30.13	44.13	32.78	52.88	53.15	347.75	66.58
31007	79.59	9.50	17.16	78.29	28.04	36.62	7.81	377.61	72.99	86.86	27.90	69.18	22.35	376.33	103.56
31008	80.35	9.49	17.16	58.57	23.32	34.17	30.02	421.66	114.36	71.79	32.81	74.17	30.50	420.98	142.70
31009	81.11	9.47	17.16	102.44	45.02	53.22	31.57	455.22	169.16	114.34	52.09	81.97	31.57	456.57	189.68
31010	81.87	9.46	17.16	161.33	81.28	87.82	22.00	489.21	243.30	174.33	87.13	109.38	21.89	493.29	259.68
31011	82.63	9.44	17.16	767.97	111.94	39.65	137.99	327.02	212.38	798.44	116.58	44.85	147.17	328.54	222.42
31012	83.38	9.41	17.16	566.54	232.11	24.61	60.55	190.56	117.32	598.22	238.59	25.28	64.84	191.47	121.28
31013	84.14	9.38	17.16	441.81	143.56	24.50	37.12	117.91	52.30	474.59	143.97	24.52	38.82	118.63	52.72
31014	84.89	9.35	17.16	349.83	103.44	19.70	33.00	84.14	30.94	382.28	101.16	19.78	34.01	85.11	30.30
31015	85.64	9.31	17.16	278.58	80.32	16.07	41.12	62.23	26.78	309.25	75.88	16.11	42.01	63.45	25.98
31016	78.84	10.50	17.16	33.68	10.22	40.52	90.68	525.98	26.84	45.34	33.95	106.24	90.51	523.22	108.17
31017	79.62	10.49	17.16	60.93	24.94	40.30	89.69	537.21	73.03	70.54	41.82	101.92	89.66	534.86	125.23
31018	80.40	10.46	17.16	105.35	53.78	51.12	87.66	552.66	135.88	114.52	65.51	105.05	87.54	551.44	170.35
31019	81.18	10.42	17.16	498.03	124.51	38.67	133.03	466.52	183.06	507.76	146.40	78.35	133.18	465.54	207.76
31020	81.95	10.37	17.16	385.08	378.20	67.50	303.13	369.73	204.58	398.87	406.10	90.22	304.66	370.04	225.22
31021	82.72	10.31	17.16	666.79	273.63	30.06	113.72	218.15	108.31	692.01	288.09	37.86	114.52	217.45	119.72
31022	83.49	10.23	17.16	486.74	154.69	26.29	47.22	140.49	31.79	513.34	158.03	26.78	48.11	139.89	34.71
31023	84.25	10.15	17.16	367.31	112.16	21.08	6.51	93.04	25.03	394.49	111.57	21.11	13.85	92.57	25.40
31024	85.01	10.05	17.16	294.96	80.24	17.63	16.23	69.39	21.10	322.16	76.67	17.58	19.48	69.37	20.45
31025	85.76	9.94	17.16	241.62	62.48	15.41	29.08	55.36	20.97	267.57	56.73	15.32	30.84	55.92	20.09
31026	78.85	11.50	17.16	67.59	48.54	36.68	505.36	359.31	31.48	77.91	179.42	92.73	503.86	356.78	128.30
31027	79.65	11.48	17.16	127.52	94.87	36.69	509.23	361.82	57.42	135.97	192.54	89.64	508.16	359.34	133.57
31028	80.45	11.43	17.16	220.17	216.69	45.62	500.75	349.18	88.86	229.46	276.54	91.30	500.14	347.01	146.24
31029	81.25	11.37	17.16	567.70	216.59	35.40	324.47	252.13	66.89	580.59	250.60	57.98	323.93	250.55	104.03
31030	82.04	11.29	17.16	455.49	188.09	24.39	162.49	157.05	40.66	474.40	202.41	31.03	162.30	155.40	59.04
31031	82.82	11.18	17.16	344.92	134.61	20.47	81.56	102.36	28.06	365.55	141.91	23.79	83.43	100.84	38.13
31032	83.60	11.06	17.16	327.66	88.82	20.82	55.67	84.15	15.80	349.94	89.35	21.73	57.33	82.69	19.92
31033	84.37	10.92	17.16	287.72	72.95	17.99	20.95	71.15	13.84	311.27	70.34	18.20	24.53	70.04	14.33
31034	85.13	10.75	17.16	242.79	58.43	16.05	9.34	58.92	15.84	266.10	53.60	16.05	16.20	58.38	15.22
31035	85.88	10.57	17.16	205.01	46.59	14.96	23.82	50.24	18.14	227.03	39.50	14.87	26.99	50.41	17.23
31036	78.86	12.50	17.16	73.83	28.51	18.42	268.24	117.37	16.65	113.34	109.66	37.32	267.17	115.31	71.51
31037	79.68	12.47	17.16	130.72	54.85	18.66	252.67	110.73	23.96	159.67	115.12	35.72	251.64	108.73	69.51
31038	80.50	12.41	17.16	203.03	75.71	18.32	198.98	93.40	23.17	227.43	116.02	30.92	198.44	91.96	60.46
31039															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
31067	89.35	9.94	17.16	64.46	36.39	15.01	47.25	35.87	35.35	67.66	26.68	15.23	45.87	38.35	37.10
31068	88.82	10.54	17.16	70.88	32.91	15.39	47.47	39.02	34.34	75.00	25.38	15.50	47.10	41.25	35.75
31069	89.15	9.28	17.16	84.24	33.02	14.21	48.67	32.18	30.38	92.21	14.49	14.49	47.70	34.92	31.02
31070	88.80	9.82	17.16	87.87	30.47	14.52	47.71	34.69	29.93	95.80	14.03	14.70	47.23	37.13	30.51
31071	88.43	10.34	17.16	91.06	27.82	14.83	46.41	37.30	29.44	99.09	13.92	14.93	46.58	39.41	29.94
31072	88.47	9.23	17.16	111.77	32.06	13.89	50.05	33.20	27.04	125.44	10.85	13.97	49.80	35.98	26.92
31073	88.26	9.70	17.16	112.03	29.60	14.15	47.92	35.08	26.64	124.72	8.88	14.18	48.02	37.48	26.52
31074	88.03	10.15	17.16	112.24	27.14	14.45	45.73	36.92	26.27	124.23	7.87	14.47	46.34	38.91	26.16
31075	86.95	12.04	17.16	96.11	19.13	16.63	40.49	47.05	27.45	106.06	16.27	16.65	44.38	47.67	27.31
31076	86.79	11.50	17.16	122.93	20.07	15.41	35.54	43.98	22.45	136.22	9.11	15.40	39.07	44.55	21.87
31077	86.64	10.96	17.16	149.70	27.89	14.75	33.01	43.59	20.36	166.35	16.59	14.68	35.92	44.22	19.58
31078	87.61	11.58	17.16	87.89	23.79	16.21	44.44	44.67	30.25	95.60	19.61	16.21	46.81	45.96	30.62
31079	87.38	11.15	17.16	110.92	21.67	15.25	40.86	41.83	25.28	122.19	9.33	15.23	43.08	43.01	25.07
31080	87.16	10.73	17.16	134.01	25.84	14.66	38.70	41.12	22.76	148.76	11.34	14.58	40.64	42.28	22.21
31081	88.24	11.08	17.16	79.04	28.67	15.82	46.79	42.00	32.64	84.75	23.18	15.86	47.78	43.82	33.55
31082	87.95	10.79	17.16	98.95	24.70	15.12	44.56	39.70	27.90	108.21	12.44	15.15	45.75	41.38	28.10
31083	87.67	10.49	17.16	118.89	25.61	14.60	42.79	38.95	25.06	131.58	7.97	14.56	43.95	40.58	24.83
31084	86.70	9.30	15.47	150.86	51.07	41.78	43.92	97.09	70.71	175.49	43.25	41.05	43.59	97.01	69.91
31085	87.44	9.27	15.47	130.15	42.39	41.19	44.77	88.47	70.03	151.83	30.71	40.51	44.12	90.21	69.20
31086	88.18	9.24	15.47	110.51	36.86	41.32	44.71	82.43	71.60	128.52	20.20	40.95	43.73	85.73	71.04
31087	86.80	9.90	15.47	140.69	43.75	42.00	36.97	96.77	64.94	161.81	34.44	41.17	36.69	96.08	64.19
31088	87.44	9.82	15.47	124.15	37.93	41.72	39.71	90.33	66.85	142.88	25.04	40.96	39.09	91.27	66.11
31089	88.08	9.72	15.47	108.39	34.31	41.88	41.48	85.45	69.80	124.32	17.10	41.42	40.57	87.84	69.30
31090	86.88	10.50	15.47	129.11	36.49	42.54	32.47	96.94	61.30	147.06	25.42	41.83	32.46	95.79	60.59
31091	87.43	10.36	15.47	117.08	33.55	42.44	35.84	92.41	64.65	133.18	19.35	41.74	35.40	92.68	64.00
31092	87.98	10.20	15.47	105.05	31.68	42.56	38.68	88.64	68.32	119.06	14.08	42.06	37.88	90.26	67.87
31093	78.85	9.53	15.47	52.56	14.63	48.58	70.59	257.55	49.66	109.93	43.95	84.96	71.27	252.20	79.48
31094	79.64	9.53	15.47	96.09	17.47	55.18	59.14	243.96	79.27	140.50	40.09	89.57	59.57	237.39	99.15
31095	80.44	9.52	15.47	110.30	37.11	55.22	49.24	227.21	102.88	155.62	49.54	88.96	49.53	220.05	117.94
31096	81.23	9.50	15.47	162.00	59.18	52.17	42.22	211.73	118.17	200.38	68.39	83.68	41.69	204.34	130.14
31097	82.02	9.49	15.47	223.51	85.26	44.62	25.44	162.33	116.05	258.79	91.86	65.53	24.27	154.28	124.79
31098	82.81	9.46	15.47	138.41	108.62	47.95	31.32	156.82	119.77	174.71	113.33	57.69	29.76	148.88	126.24
31099	83.60	9.44	15.47	195.95	84.26	56.98	16.65	155.94	113.33	227.02	85.78	58.69	17.09	149.32	117.44
31100	84.38	9.41	15.47	202.29	86.83	53.27	32.12	140.74	93.99	231.91	86.79	53.21	33.02	135.30	95.76
31101	85.16	9.37	15.47	190.81	75.82	48.02	38.61	124.25	81.10	219.25	73.53	47.55	39.11	120.41	81.39
31102	85.95	9.33	15.47	172.01	62.52	43.80	41.89	109.02	74.00	198.86	57.70	43.15	41.92	107.02	73.50
31103	78.86	10.60	15.47	59.38	11.52	50.34	116.98	229.24	43.14	117.65	39.50	103.97	116.67	223.45	79.00
31104	79.68	10.59	15.47	100.08	32.45	54.17	112.08	219.48	64.60	145.40	50.14	103.94	111.70	212.71	91.33
31105	80.50	10.56	15.47	153.11	59.68	49.53	102.83	190.45	81.79	190.47	71.60	94.25	102.15	183.25	102.68
31106	81.31	10.52	15.47	128.72	80.04	48.93	75.37	184.17	97.08	169.68	86.56	85.10	74.31	176.61	113.55
31107	82.12	10.46	15.47	207.18	46.66	52.69	9.43	164.43	87.39	239.15	48.47	72.69	13.05	157.06	99.56
31108	82.92	10.39	15.47	160.73	71.13	53.65	12.45	150.70	78.24	191.39	72.73	62.76	12.41	143.14	86.48
31109	83.72	10.31	15.47	190.86	83.33	55.73	10.45	147.01	76.13	217.98	84.09	58.40	14.55	140.22	80.94
31110	84.52	10.22	15.47	191.26	73.27	50.05	16.88	131.97	68.64	217.14	71.81	50.59	18.84	126.11	70.62
31111	85.30	10.12	15.47	177.13	62.56	45.74	25.61	117.82	64.64	201.81	58.89	45.42	26.44	113.41	64.97
31112	86.08	10.00	15.47	158.87	52.04	43.16	32.44	105.79	63.95	181.97	45.77	42.45	32.59	103.24	63.45
31113	78.87	11.67	15.47	63.67	7.92	51.70	98.22	197.37	34.13	125.49	28.91	109.01	97.20	191.05	89.62
31114	79.71	11.65	15.47	104.17	24.20	52.73	85.61	187.98	47.83	151.60	35.75	104.58	84.32	181.13	90.89
31115	80.55	11.60	15.47	143.81	31.50	50.16	59.98	163.95	52.30	183.10	38.30	92.72	58.75	156.95	86.00
31116	81.39	11.53	15.47	114.04	56.07	50.43	60.32	161.20	57.32	154.39	61.70	81.88	58.99	153.90	83.73
31117	82.21	11.44	15.47	164.10	70.57	50.77	52.90	161.93	63.25	193.47	75.53	71.22	52.81	154.70	81.97
31118	83.03	11.33	15.47	188.18	71.26	49.13	31.25	143.23	59.15	214.40	73.17	59.73	32.70	135.77	70.33
31119	83.84	11.19	15.47	178.91	65.12	48.24	13.74	130.61	53.34	203.50	64.54	52.66	18.33	123.30	58.99
31120	84.65	11.04	15.47	169.36	55.81	46.39	11.98	120.91	52.32	192.31	52.80	47.95	16.31	114.56	54.49
31121	85.44	10.87	15.47	157.50	47.86	44.35	19.00	111.62	54.27	178.95	42.47	44.55	20.90	106.81	54.59
31122	86.22	10.68	15.47	142.82	41.21	43.08	26.92	103.24	57.69	162.56	33.15	42.60	27.55	100.34	57.18
31123	78.88	12.74	15.47	64.21	13.13	49.05	113.61	157.67	27.17	126.19	47.52	94.66	112.12	150.39	89.40
31124	79.75	12.71	15.47	94.72	20.44	49.02	102.97	153.68	34.29	143.55	46.50	90.36	101.51	146.13	85.52
31125	80.61	12.64	15.47	116.52	35.92	48.25	89.03	146.58	39.60	157.08	51.55	83.35	87.97	138.87	79.64
31126	81.46	12.55	15.47	142.59	46.42	46.97	67.45	136.99	41.05	176.03	55.23	72.94	67.43	129.16	70.12
31127	82.30	12.42	15.47	147.34	49.18	46.36	45.16	129.65	40.16	176.99	53.29	63.28	46.98	121.42	59.36
31128	83.14	12.26	15.47	151.00	46.12	46.00	29.41	123.75	40.25	176.72	46.62	56.35	33.35	115.46	51.40
31129	83.96	12.08	15.47	150.97	42.37	45.48	17.00	117.77	41.64	173.90	39.89	51.22	22.96	109.94	46.97
31130	84.77	11.86	15.47	144.54	38.38	44.86	12.72	112.66	44.61	165.27	33.45	47.62	18.91	105.96	46.43
31131	85.57	11.62	15.47	135.90	34.54	44.25	17.79	107.59	49.29	154.57	27.16	45.22	21.25	102.53	49.36
31132	86.35	11.35	15.47	125.47	31.43	43.81	24.93	102.36	54.93	142.13	21.21	43.77	26.42	99.23	54.32
31133	78.89	13.81	15.47	60.86	11.60	45.84	74.87	120.54	20.74	125.38	38.08	80.46	73.09	111.65	65.92
31134	79.78	13.77	15.47	81.21	13.05	45.57	67.96	120.46	24.05	134.34	35.03	77.34	66.70	111.36	61.61
31135	80.66	13.69	15.47	98.77	19.20	45.21	56.38	118.29	27.02	142.76	33.02	72.65	56.40	109.04	56.99
31136	81.53	13.56	15.47	109.90	23.52	45.12	43.91	116.35	28.94	146.76	30.47	67.28	45.98	106.98	50.38
31137	82.39	13.40	15.47	118.62	25.72	45.36	31.83	114.83	30.92	149.32	27.40	61.86	36.43	105.50	44.64
31138															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
31165	88.03	11.75	15.47	82.88	24.11	48.58	36.44	100.93	71.95	90.26	10.36	48.57	36.59	100.97	71.54
31166	87.79	11.30	15.47	94.41	25.96	45.33	34.92	96.69	67.25	104.67	9.54	45.09	34.92	96.76	66.76
31167	87.55	10.85	15.47	106.71	29.01	43.51	34.38	94.29	64.59	119.99	13.21	42.99	34.19	94.32	63.99
31168	88.69	11.22	15.47	76.83	27.03	47.72	39.44	95.93	77.70	82.81	11.46	48.01	38.69	97.47	78.05
31169	88.38	10.90	15.47	87.02	27.71	45.14	38.16	92.69	72.55	95.81	9.51	45.12	37.50	94.17	72.55
31170	88.08	10.59	15.47	97.91	29.31	43.54	37.45	90.81	69.04	109.60	10.73	43.21	36.77	92.13	68.76
31171	87.04	9.32	13.78	103.09	41.68	66.72	37.25	113.34	104.46	131.98	31.61	63.68	35.68	106.31	104.31
31172	87.81	9.29	13.78	95.06	39.57	67.71	38.63	108.91	105.61	119.94	25.53	64.77	36.96	105.37	105.34
31173	88.57	9.26	13.78	86.38	38.55	68.90	39.40	105.22	108.32	106.92	20.17	66.75	37.60	104.72	108.17
31174	87.15	9.96	13.78	100.60	38.78	67.86	33.30	116.13	99.19	125.54	27.00	65.05	31.52	109.17	99.09
31175	87.82	9.87	13.78	93.78	37.57	68.68	35.44	112.47	101.99	115.51	22.38	65.85	33.61	108.41	101.76
31176	88.48	9.77	13.78	86.62	37.14	69.65	37.10	109.22	105.59	105.02	18.42	67.41	35.22	107.78	105.44
31177	87.25	10.60	13.78	97.21	35.77	69.19	30.52	119.11	95.05	118.52	22.26	66.85	28.74	112.20	94.91
31178	87.82	10.44	13.78	91.96	35.55	69.82	32.89	116.12	98.87	110.82	19.30	67.29	31.03	111.60	98.65
31179	88.38	10.27	13.78	86.27	35.65	70.54	35.12	113.27	102.90	102.62	16.77	68.32	33.20	111.03	102.70
31180	78.86	9.57	13.78	53.61	13.42	64.86	38.75	165.55	64.83	152.56	37.91	107.12	40.62	153.47	87.89
31181	79.69	9.56	13.78	69.77	16.44	65.57	36.23	163.23	79.20	156.44	37.69	104.45	36.77	148.40	96.68
31182	80.52	9.55	13.78	89.77	24.83	64.84	29.87	156.55	92.10	164.13	40.37	98.98	28.95	139.39	105.41
31183	81.34	9.54	13.78	99.27	33.26	62.19	20.24	146.67	101.72	166.58	43.64	89.57	17.22	127.58	111.90
31184	82.17	9.52	13.78	98.97	39.19	61.73	13.25	146.61	109.15	160.12	46.07	81.52	5.66	126.88	116.87
31185	82.99	9.49	13.78	124.29	41.75	62.03	15.84	138.66	108.82	175.47	45.73	73.84	11.45	118.46	114.19
31186	83.81	9.46	13.78	115.30	50.18	63.11	19.01	131.10	107.51	162.15	51.98	68.66	15.37	111.20	110.94
31187	84.63	9.43	13.78	115.60	49.32	64.58	25.34	127.74	107.98	157.05	48.54	65.76	23.07	110.10	110.01
31188	85.44	9.39	13.78	114.24	47.67	65.35	30.97	123.33	106.22	151.09	44.24	64.07	29.26	108.82	107.16
31189	86.25	9.35	13.78	109.85	44.71	65.96	34.91	118.30	104.70	142.64	38.20	63.43	33.36	107.51	104.90
31190	78.88	10.71	13.78	56.48	11.60	68.69	47.28	162.06	57.60	148.95	34.68	116.35	47.20	148.32	88.74
31191	79.74	10.69	13.78	75.35	15.59	67.74	41.97	158.70	70.00	154.48	33.99	111.56	40.60	142.82	93.93
31192	80.59	10.66	13.78	85.66	24.14	67.17	33.03	156.27	79.64	155.94	36.38	105.29	30.26	138.69	98.05
31193	81.44	10.61	13.78	108.16	31.61	65.27	24.08	147.37	83.73	166.67	40.15	95.72	19.66	128.38	97.60
31194	82.28	10.55	13.78	102.45	46.65	64.66	23.31	142.75	89.74	156.52	52.36	86.70	18.42	122.95	99.71
31195	83.12	10.48	13.78	119.34	46.85	64.93	13.98	139.45	94.15	164.92	49.66	78.84	6.25	119.81	100.94
31196	83.95	10.39	13.78	115.16	45.67	65.47	15.34	132.58	93.70	156.05	45.75	72.80	10.13	113.64	97.94
31197	84.78	10.30	13.78	114.59	45.26	66.26	20.65	129.58	93.96	150.62	42.84	68.75	17.89	112.89	96.32
31198	85.60	10.19	13.78	112.15	43.24	66.68	25.80	125.37	95.01	144.08	38.03	66.24	23.78	111.65	96.07
31199	86.41	10.06	13.78	107.12	40.81	67.18	30.19	120.52	96.81	135.39	32.45	65.07	28.38	110.25	97.06
31200	78.89	11.85	13.78	58.03	11.28	71.10	55.42	150.41	48.42	144.08	34.91	120.77	53.71	134.60	86.37
31201	79.78	11.82	13.78	74.84	15.53	69.73	50.61	149.14	56.81	148.40	34.40	115.43	47.97	131.75	87.06
31202	80.65	11.76	13.78	85.30	26.03	68.89	44.80	148.73	65.21	149.42	38.54	108.65	41.54	130.16	88.51
31203	81.52	11.69	13.78	105.66	31.25	67.77	32.16	143.45	71.09	158.77	38.88	100.03	28.19	123.86	88.19
31204	82.39	11.59	13.78	105.82	34.22	66.89	21.54	137.02	72.92	153.70	37.90	90.63	16.70	116.79	84.94
31205	83.24	11.47	13.78	107.56	37.02	67.00	16.38	136.33	75.61	149.06	37.95	82.69	11.71	116.75	83.58
31206	84.09	11.33	13.78	110.81	38.72	67.30	15.25	133.69	79.31	146.59	37.02	76.39	11.69	115.47	84.11
31207	84.92	11.17	13.78	110.39	38.71	67.63	18.09	130.42	82.58	141.68	34.33	71.74	15.73	114.39	85.11
31208	85.75	10.98	13.78	107.46	37.63	68.05	22.56	126.83	86.31	134.93	30.36	68.75	20.69	113.70	87.37
31209	86.56	10.78	13.78	102.59	36.47	68.59	27.09	122.75	90.76	126.70	26.04	67.18	25.33	112.90	90.96
31210	78.90	12.99	13.78	58.51	10.17	72.71	48.46	138.91	39.49	138.11	31.05	122.80	45.21	120.83	80.06
31211	79.81	12.95	13.78	72.65	12.53	71.55	44.18	139.71	45.52	141.16	29.53	117.88	40.35	120.47	78.43
31212	80.71	12.88	13.78	84.95	17.75	70.21	37.15	138.71	50.89	143.65	29.10	110.78	33.19	118.62	76.37
31213	81.60	12.77	13.78	91.62	23.00	69.36	30.43	137.86	55.82	142.40	29.58	102.97	26.84	117.35	74.63
31214	82.49	12.64	13.78	99.03	27.31	68.91	24.04	136.59	60.56	142.02	29.97	94.89	21.27	116.30	73.55
31215	83.36	12.47	13.78	103.02	30.05	68.77	18.56	135.00	64.71	139.76	29.28	87.05	16.81	115.53	72.91
31216	84.22	12.27	13.78	104.15	31.32	68.98	16.49	133.51	69.13	135.63	27.50	80.51	15.56	115.67	73.75
31217	85.06	12.04	13.78	103.56	31.90	69.38	17.90	131.45	74.36	130.64	25.21	75.53	17.12	115.95	76.57
31218	85.89	11.78	13.78	101.13	32.20	69.87	21.40	128.81	80.22	124.50	22.65	72.06	20.38	116.18	80.96
31219	86.70	11.50	13.78	97.13	32.45	70.44	25.57	125.59	86.56	117.28	19.94	70.01	24.27	116.13	86.50
31220	78.92	14.13	13.78	59.29	9.53	74.05	42.24	132.68	31.45	130.76	27.46	127.16	37.75	112.68	68.09
31221	79.84	14.08	13.78	70.55	10.54	73.01	38.66	134.64	36.11	132.77	25.21	122.51	34.37	113.83	65.94
31222	80.76	13.99	13.78	79.85	14.10	72.09	33.66	135.48	41.08	133.45	23.53	116.17	30.23	114.26	63.91
31223	81.68	13.86	13.78	87.27	17.80	71.39	27.98	135.59	46.02	132.97	22.19	108.61	25.95	114.42	62.31
31224	82.58	13.69	13.78	91.95	20.80	71.11	22.84	135.53	50.98	130.73	20.91	100.70	22.49	114.94	61.65
31225	83.47	13.47	13.78	95.00	23.12	71.25	19.27	135.35	56.34	127.64	19.69	93.17	20.32	116.00	62.59
31226	84.34	13.21	13.78	96.33	24.98	71.66	17.92	134.84	62.33	123.77	18.60	86.49	19.51	117.37	65.38
31227	85.19	12.92	13.78	96.06	26.53	72.20	19.00	133.83	68.99	119.15	17.60	80.99	20.17	118.80	69.98
31228	86.03	12.59	13.78	94.45	27.95	72.75	21.79	132.08	76.25	113.91	16.62	76.84	22.11	119.89	76.06
31229	86.84	12.22	13.78	91.58	29.34	73.28	25.42	129.51	83.88	107.99	15.55	74.10	24.92	120.38	83.14
31230	78.92	15.27	13.78	60.53	6.76	76.61	34.53	131.66	23.73	122.99	16.59	141.66	29.48	110.56	49.20
31231	79.87	15.22	13.78	69.16	8.35	75.97	31.79	134.33	27.27	124.13	14.99	136.64	28.15	112.67	47.43
31232	80.81	15.11	13.78	76.47	11.11	75.59	28.28	136.04	31.92	123.98	13.75	129.89	26.67	114.27	46.45
31233	81.74	14.95	13.78	82.00	13.95	75.56	24.70	137.17	37.27	122.46	12.97	121.94	25.39	115.78	46.60
31234	82.66	14.74	13.78	85.91	16.55	75.90	21.71	137.97	43.22	119.85	12.74	113.40	24.43	117.50	48.23
31235	83.57	14.48	13.78	88.30	18.90	76.52	19.89	138.52	49.78	116.46	12.97	104.91			



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
31263	88.88	9.81	12.09	74.75	40.98	98.43	34.83	122.59	132.65	97.95	21.19	92.39	32.04	115.07	132.67
31264	87.61	10.69	12.09	81.32	37.93	96.79	29.54	131.55	120.77	108.82	22.94	91.22	25.93	116.61	120.90
31265	88.20	10.52	12.09	78.87	39.01	98.08	31.56	129.29	124.81	102.96	21.48	91.85	28.32	117.88	124.79
31266	88.79	10.35	12.09	76.03	40.17	99.40	33.65	126.92	128.86	96.75	20.35	93.41	30.75	118.89	128.76
31267	78.88	9.60	12.09	52.85	15.86	85.27	24.16	145.04	84.22	180.69	42.12	127.71	29.97	118.97	100.84
31268	79.74	9.60	12.09	61.71	17.08	84.34	21.76	145.19	93.85	177.16	40.45	124.04	24.35	114.27	106.94
31269	80.60	9.58	12.09	68.89	20.84	83.45	18.68	144.04	102.40	172.95	39.82	118.42	17.99	109.33	112.58
31270	81.46	9.57	12.09	75.48	25.69	83.15	16.02	142.71	109.55	168.29	40.21	111.99	11.46	105.43	117.33
31271	82.32	9.55	12.09	82.27	30.38	82.90	14.80	139.21	114.74	164.43	40.70	104.59	5.90	100.31	120.50
31272	83.17	9.52	12.09	81.74	34.49	83.45	15.87	137.26	119.51	155.58	41.03	97.84	6.27	98.71	123.68
31273	84.02	9.49	12.09	86.07	36.09	84.66	19.47	135.21	122.74	150.65	39.03	92.28	12.69	98.77	125.61
31274	84.87	9.46	12.09	86.04	37.88	86.42	23.39	132.22	124.37	143.00	37.36	88.42	18.24	99.16	126.19
31275	85.72	9.42	12.09	85.00	38.74	88.47	27.09	129.43	126.11	134.91	34.63	86.16	22.96	101.17	127.15
31276	86.56	9.37	12.09	83.07	39.35	90.70	30.22	126.54	127.98	126.46	31.48	85.46	26.72	103.87	128.48
31277	78.90	10.81	12.09	55.03	14.49	90.69	29.91	144.77	76.03	171.19	39.19	137.44	31.67	115.87	97.40
31278	79.79	10.79	12.09	63.57	16.33	89.48	27.35	145.87	84.11	168.04	37.91	133.08	26.03	113.14	101.04
31279	80.68	10.75	12.09	72.81	20.58	88.10	23.85	144.75	91.47	165.38	37.59	126.54	19.49	109.10	104.56
31280	81.57	10.70	12.09	76.82	25.51	87.29	20.24	143.87	98.45	159.82	37.76	119.12	12.51	106.54	108.35
31281	82.45	10.64	12.09	84.16	28.27	86.89	17.00	141.98	103.41	156.65	36.31	111.21	3.41	104.15	110.67
31282	83.32	10.56	12.09	84.49	32.04	87.15	16.91	139.66	107.15	149.02	36.33	103.78	2.90	102.70	112.24
31283	84.18	10.47	12.09	87.23	34.70	88.02	18.72	138.19	111.19	143.55	35.48	97.50	9.46	103.81	114.59
31284	85.04	10.37	12.09	86.99	36.25	89.45	21.69	135.60	114.74	136.37	33.53	92.90	15.06	104.84	116.86
31285	85.89	10.25	12.09	85.84	37.30	91.14	25.02	133.05	118.15	128.91	31.05	89.85	20.00	106.98	119.33
31286	86.73	10.12	12.09	83.78	38.16	93.01	28.20	130.23	121.78	121.10	28.27	88.43	24.15	109.39	122.32
31287	78.91	12.02	12.09	56.99	13.22	95.64	32.62	143.13	66.59	161.04	36.23	146.43	30.53	111.35	92.26
31288	79.84	11.99	12.09	65.30	15.03	94.09	30.04	144.82	73.54	158.54	34.77	141.52	25.17	110.13	94.03
31289	80.75	11.93	12.09	73.79	18.54	92.55	26.13	144.66	79.78	156.13	33.62	134.62	18.56	107.98	95.64
31290	81.66	11.85	12.09	77.89	22.95	91.34	22.83	144.28	85.38	151.10	33.38	126.54	12.77	106.81	97.28
31291	82.56	11.74	12.09	83.26	27.12	90.82	20.03	143.89	91.08	147.00	33.32	118.28	7.60	106.91	99.65
31292	83.45	11.62	12.09	86.03	30.20	90.89	18.54	142.22	96.17	141.80	32.41	110.40	5.54	106.77	102.05
31293	84.33	11.47	12.09	86.98	32.31	91.44	19.08	140.78	100.80	135.63	30.80	103.41	9.22	108.18	104.59
31294	85.20	11.29	12.09	86.93	34.00	92.48	21.11	139.01	105.65	129.19	28.94	97.88	13.99	110.28	107.90
31295	86.05	11.10	12.09	85.83	35.44	93.82	23.91	136.78	110.71	122.44	26.91	93.95	18.55	112.62	111.88
31296	86.89	10.88	12.09	83.78	36.76	95.36	26.98	134.09	116.01	115.33	24.83	91.73	22.74	114.87	116.46
31297	78.93	13.23	12.09	59.04	12.13	100.03	34.04	141.40	56.34	150.33	33.33	156.30	28.20	107.01	84.20
31298	79.88	13.19	12.09	66.69	13.68	98.17	31.62	143.55	62.08	148.42	31.62	150.88	23.81	107.05	84.50
31299	80.82	13.11	12.09	73.26	17.06	96.64	28.53	144.81	67.98	145.58	30.31	143.81	19.29	107.31	85.32
31300	81.75	13.00	12.09	79.05	20.71	95.40	25.02	145.14	73.74	142.34	29.03	135.47	14.75	107.68	86.56
31301	82.67	12.85	12.09	82.54	23.96	94.62	22.11	145.04	79.26	137.80	27.69	126.61	11.52	108.69	88.29
31302	83.58	12.67	12.09	84.82	26.88	94.44	20.51	144.72	85.00	132.69	26.48	118.04	10.86	110.63	91.00
31303	84.47	12.46	12.09	86.05	29.46	94.79	20.36	143.95	91.04	127.33	25.32	110.26	12.50	113.07	94.73
31304	85.35	12.22	12.09	86.15	31.65	95.55	21.59	142.69	97.32	121.66	24.08	103.71	15.50	115.79	99.32
31305	86.21	11.95	12.09	85.25	33.61	96.60	23.80	140.85	103.85	115.70	22.81	98.73	19.02	118.41	104.70
31306	87.05	11.64	12.09	83.40	35.43	97.84	26.57	138.38	110.57	109.43	21.58	95.53	22.69	120.62	110.71
31307	78.94	14.44	12.09	61.26	10.41	103.97	33.68	140.84	45.31	139.42	27.60	170.36	24.63	104.52	72.48
31308	79.91	14.39	12.09	67.86	11.99	102.08	31.58	143.59	50.27	137.89	25.88	164.43	21.93	105.91	72.10
31309	80.87	14.30	12.09	73.63	14.88	100.45	28.96	145.54	55.77	135.49	24.24	156.68	19.46	107.60	72.47
31310	81.83	14.15	12.09	78.18	18.16	99.22	26.29	146.87	61.70	132.18	22.82	147.69	17.60	109.74	73.79
31311	82.77	13.97	12.09	81.61	21.39	98.46	24.01	147.67	68.02	128.27	21.67	138.03	16.58	112.33	76.22
31312	83.69	13.74	12.09	83.82	24.40	98.18	22.52	148.00	74.71	123.84	20.77	128.30	16.50	115.35	79.78
31313	84.60	13.47	12.09	84.99	27.17	98.36	22.12	147.85	81.82	119.10	20.16	119.15	17.34	118.65	84.54
31314	85.49	13.15	12.09	85.21	29.74	98.91	22.84	147.09	89.35	114.18	19.78	111.14	18.96	121.89	90.41
31315	86.36	12.80	12.09	84.52	32.13	99.72	24.53	145.60	97.20	109.07	19.52	104.71	21.23	124.75	97.19
31316	87.20	12.41	12.09	82.97	34.40	100.68	26.90	143.32	105.25	103.72	19.29	100.22	23.98	126.92	104.64
31317	78.95	15.66	12.09	63.84	8.39	108.02	33.92	142.27	33.76	128.43	18.31	193.02	24.19	105.06	58.49
31318	79.94	15.60	12.09	69.51	10.49	106.24	32.03	145.61	37.88	127.35	17.09	186.19	23.50	107.68	57.52
31319	80.92	15.48	12.09	74.40	13.45	104.75	29.85	148.24	43.16	125.35	16.15	177.22	23.04	110.68	57.68
31320	81.89	15.31	12.09	78.35	16.64	103.62	27.69	150.25	49.34	122.56	15.63	166.64	22.77	114.02	59.17
31321	82.85	15.09	12.09	81.28	19.79	102.90	25.85	151.71	56.28	119.15	15.61	155.07	22.68	117.70	62.13
31322	83.80	14.81	12.09	83.25	22.84	102.63	24.62	152.65	63.89	115.35	16.04	143.21	22.73	121.61	66.64
31323	84.72	14.48	12.09	84.33	25.76	102.74	24.18	153.00	72.11	111.33	16.76	131.77	23.00	125.53	72.63
31324	85.62	14.09	12.09	84.60	28.56	103.13	24.61	152.63	80.87	107.20	17.58	121.42	23.61	129.14	79.93
31325	86.50	13.66	12.09	84.06	31.24	103.68	25.88	151.39	90.05	102.96	18.31	112.78	24.73	132.10	88.29
31326	87.34	13.18	12.09	82.72	33.79	104.30	27.83	149.18	99.45	98.51	18.81	106.38	26.41	134.11	97.39
31327	91.29	9.38	12.09	61.73	46.76	105.47	41.46	115.74	149.82	69.35	18.18	112.60	39.78	118.51	150.31
31328	90.77	10.13	12.09	66.18	44.79	105.69	39.69	123.09	142.45	74.22	18.35	108.27	37.87	123.90	142.48
31329	90.20	10.84	12.09	70.63	42.81	105.82	37.79	130.32	134.73	79.31	18.60	104.73	35.89	128.86	134.18
31330	90.52	9.33	12.09	65.25	44.76	102.50	39.53	115.52	144.45	78.55	18.42	103.37	37.44	115.95	144.80
31331	90.15	9.98	12.09	68.73	43.35	102.86	37.97	121.91	139.03	81.61	18.40	101.44	35.74	120.54	139.10
31332	89.75	10.61	12.09	72.06	41.84	103.24	36.26	128.00	133.13	84.71	18.47	100.00	33.93	124.70	132.85
31333	89.75	9.28	12.09	69.02	43.13	99.93</									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
31361	85.12	9.48	10.41	72.18	35.89	112.51	23.38	142.84	142.34	143.84	35.42	114.09	15.84	92.35	143.63
31362	86.00	9.44	10.41	71.98	37.92	115.55	26.03	140.26	145.53	134.74	33.33	110.99	19.61	96.69	146.29
31363	86.87	9.39	10.41	71.19	39.81	118.85	28.63	137.44	148.69	125.57	31.09	109.61	23.18	101.52	149.07
31364	78.92	10.92	10.41	56.97	17.59	115.09	24.78	150.62	96.07	192.07	43.09	165.42	30.39	101.18	110.37
31365	79.85	10.89	10.41	61.53	19.03	113.61	23.26	151.87	102.75	184.92	41.51	160.67	24.10	96.90	114.06
31366	80.78	10.85	10.41	65.38	21.61	112.71	21.61	152.44	109.13	177.25	40.12	154.49	17.81	94.04	117.91
31367	81.70	10.80	10.41	69.37	24.64	112.31	20.21	152.12	114.90	169.74	38.82	147.25	11.67	92.25	121.56
31368	82.61	10.73	10.41	71.47	27.95	112.57	19.61	151.31	120.31	161.38	37.76	139.60	6.68	92.05	125.23
31369	83.51	10.65	10.41	73.78	30.76	113.50	19.94	150.10	125.35	153.52	36.26	132.15	5.38	93.47	128.87
31370	84.41	10.55	10.41	74.48	33.30	115.06	21.24	148.29	129.88	145.06	34.61	125.45	8.88	95.97	132.26
31371	85.30	10.44	10.41	74.87	35.58	117.12	23.24	146.28	134.23	136.86	32.80	119.88	13.44	99.74	135.74
31372	86.18	10.32	10.41	74.45	37.68	119.61	25.60	143.80	138.53	128.55	30.91	115.88	17.83	103.96	139.39
31373	87.05	10.18	10.41	73.45	39.71	122.36	28.10	141.01	142.87	120.22	29.01	113.68	21.88	108.35	143.27
31374	78.93	12.20	10.41	59.12	16.16	123.04	28.19	151.27	85.91	178.07	39.75	178.53	27.45	98.67	103.15
31375	79.90	12.16	10.41	63.86	17.76	121.20	26.58	152.99	91.88	172.12	38.27	173.06	21.24	96.29	105.59
31376	80.86	12.10	10.41	67.86	20.52	119.84	24.82	154.02	97.84	165.56	36.92	166.03	15.10	95.31	108.47
31377	81.80	12.01	10.41	71.66	23.64	119.03	23.13	154.27	103.69	158.94	35.53	157.95	8.91	95.49	111.71
31378	82.74	11.90	10.41	74.09	26.72	118.80	22.02	153.85	109.24	151.75	34.05	149.34	2.96	96.79	115.09
31379	83.66	11.76	10.41	75.86	29.66	119.19	21.75	153.08	114.70	144.45	32.61	140.84	2.75	99.49	118.79
31380	84.58	11.60	10.41	76.82	32.43	120.22	22.37	151.74	120.17	137.10	31.19	133.04	7.94	102.97	122.88
31381	85.48	11.42	10.41	77.02	34.95	121.75	23.78	149.94	125.63	129.70	29.69	126.37	12.82	107.02	127.28
31382	86.36	11.21	10.41	76.52	37.27	123.67	25.75	147.66	131.13	122.28	28.21	121.25	17.35	111.25	132.00
31383	87.23	10.98	10.41	75.40	39.52	125.86	28.07	144.91	136.73	114.82	26.86	118.04	21.58	115.25	137.06
31384	78.95	13.48	10.41	61.60	14.50	130.66	30.87	151.81	74.10	164.04	35.44	194.05	23.16	96.61	93.67
31385	79.94	13.43	10.41	66.18	16.25	128.56	29.31	154.10	79.55	159.20	34.01	187.86	17.79	96.18	95.17
31386	80.92	13.35	10.41	70.30	18.98	126.84	27.53	155.60	85.24	153.85	32.53	179.92	12.68	96.99	97.34
31387	81.90	13.23	10.41	73.55	22.15	125.60	25.87	156.45	91.11	147.97	31.11	170.80	8.41	99.00	100.18
31388	82.85	13.07	10.41	76.12	25.43	124.94	24.59	156.70	97.22	141.85	29.79	161.06	6.19	102.02	103.73
31389	83.80	12.88	10.41	77.84	28.56	124.86	23.93	156.36	103.47	135.53	28.53	151.27	7.49	105.78	107.91
31390	84.73	12.66	10.41	78.74	31.49	125.34	24.05	155.47	109.88	129.08	27.36	142.01	10.84	110.05	112.68
31391	85.64	12.40	10.41	78.91	34.26	126.32	24.94	154.02	116.49	122.60	26.35	133.85	14.68	114.49	118.05
31392	86.53	12.11	10.41	78.40	36.88	127.69	26.48	151.97	123.25	116.11	25.51	127.30	18.59	118.73	123.92
31393	87.40	11.79	10.41	77.25	39.39	129.35	28.50	149.30	130.10	109.57	24.83	122.81	22.45	122.44	130.19
31394	78.96	14.76	10.41	64.45	12.63	137.85	33.33	152.74	60.50	150.31	29.32	214.06	19.51	95.82	81.93
31395	79.98	14.70	10.41	68.79	14.63	135.54	31.82	155.57	65.47	146.54	28.03	206.94	16.21	97.22	82.64
31396	80.98	14.60	10.41	72.60	17.54	133.55	30.16	157.69	71.10	142.18	26.72	197.87	13.85	99.86	84.34
31397	81.98	14.45	10.41	75.74	20.83	131.98	28.54	159.14	77.28	137.36	25.51	187.33	12.73	103.47	87.04
31398	82.96	14.25	10.41	78.09	24.18	130.90	27.21	159.97	83.95	132.18	24.50	175.91	12.94	107.83	90.75
31399	83.92	14.01	10.41	79.70	27.49	130.37	26.36	160.19	91.09	126.79	23.78	164.26	14.23	112.66	95.46
31400	84.86	13.72	10.41	80.57	30.69	130.37	26.12	159.78	98.63	121.32	23.38	153.02	16.23	117.63	101.12
31401	85.79	13.39	10.41	80.75	33.74	130.85	26.57	158.70	106.51	115.81	23.23	142.84	18.69	122.39	107.60
31402	86.69	13.01	10.41	80.26	36.65	131.71	27.67	156.88	114.64	110.28	23.28	134.36	21.48	126.63	114.77
31403	87.56	12.60	10.41	79.12	39.43	132.86	29.33	154.29	122.91	104.71	23.45	128.20	24.50	130.04	122.45
31404	78.97	16.04	10.41	67.63	10.84	144.55	35.94	154.20	45.53	137.25	20.64	240.68	20.59	96.66	69.51
31405	80.00	15.98	10.41	71.68	13.23	142.12	34.47	157.63	49.85	134.45	19.78	232.41	20.12	99.79	69.17
31406	81.03	15.86	10.41	75.21	16.39	139.94	32.87	160.41	55.36	131.06	19.14	221.75	20.20	104.06	70.10
31407	82.04	15.68	10.41	78.10	19.84	138.12	31.32	162.53	61.90	127.20	18.85	209.23	20.65	109.14	72.40
31408	83.04	15.44	10.41	80.31	23.38	136.72	29.97	163.99	69.30	123.02	18.99	195.47	21.31	114.69	76.14
31409	84.03	15.14	10.41	81.82	26.87	135.81	28.98	164.79	77.44	118.64	19.53	181.19	22.10	120.40	81.30
31410	84.99	14.79	10.41	82.65	30.28	135.39	28.47	164.86	86.19	114.18	20.38	167.14	23.03	125.93	87.80
31411	85.92	14.38	10.41	82.82	33.57	135.42	28.53	164.12	95.45	109.68	21.38	154.13	24.20	130.93	95.47
31412	86.83	13.92	10.41	82.32	36.72	135.81	29.19	162.50	105.08	105.14	22.39	143.00	25.68	135.09	104.11
31413	87.71	13.41	10.41	81.15	39.70	136.47	30.44	159.93	114.93	100.46	23.29	134.53	27.55	138.17	113.45
31414	91.78	9.40	10.41	61.90	53.11	139.92	42.43	124.79	169.59	71.40	24.82	144.81	41.37	125.98	169.75
31415	91.24	10.19	10.41	66.22	51.36	139.75	40.55	132.46	161.24	76.29	24.89	138.26	39.28	131.16	161.04
31416	90.66	10.95	10.41	70.48	49.51	139.46	38.65	139.97	152.59	81.36	24.90	132.87	37.18	135.78	151.93
31417	90.98	9.35	10.41	63.08	50.21	136.21	39.94	125.23	165.44	79.41	23.82	133.07	38.07	122.30	165.57
31418	90.60	10.03	10.41	66.69	49.09	136.45	38.51	131.80	159.11	82.60	23.95	130.03	36.42	126.83	159.00
31419	90.19	10.69	10.41	70.16	47.79	136.64	36.98	138.04	152.27	85.86	24.03	127.62	34.69	130.83	151.88
31420	90.18	9.29	10.41	64.62	47.76	132.62	37.68	126.62	161.89	88.33	23.98	123.86	35.06	118.66	161.97
31421	89.96	9.88	10.41	67.40	47.09	133.29	36.63	131.72	157.08	89.56	24.00	123.33	33.82	122.54	157.01
31422	89.72	10.45	10.41	70.08	46.33	133.91	35.47	136.67	151.89	91.17	24.00	123.12	32.51	126.04	151.65
31423	88.53	12.86	10.41	79.50	42.45	137.26	32.18	156.38	124.55	96.00	24.13	129.36	29.75	139.78	122.90
31424	88.33	12.17	10.41	77.61	41.88	134.03	31.24	151.11	130.63	99.71	23.81	124.88	27.37	132.13	129.86
31425	88.13	11.48	10.41	75.82	41.54	130.91	30.52	146.49	136.07	103.91	24.51	120.83	25.70	125.02	135.82
31426	89.29	12.27	10.41	77.08	44.99	138.05	34.23	151.86	134.05	91.35	24.56	127.59	32.22	139.90	132.57
31427	89.01	11.73	10.41	75.57	44.02	135.08	33.19	147.51	137.89	94.96	23.93	124.02	30.01	133.00	137.10
31428	88.73	11.19	10.41	74.25	43.30	132.23	32.29	143.79	141.28	99.10	24.25	120.66	28.27	126.61	140.93
31429	90.01	11.64	10.41	74.15	47.41	138.85	36.41	146.47	143.38	86.51	24.91	129.04	34.72	138.67	142.24
31430	89.66	11.26	10.41	73.11	46.15	136.16	35.13	143.29	145.06	90.08	24.10	125.36	32.56	132.88	144.4

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
31459	86.48	10.39	8.72	69.54	40.22	151.12	27.11	156.43	157.36	132.71	32.69	143.18	17.10	102.44	157.65
31460	87.38	10.24	8.72	68.97	42.67	154.93	29.24	153.02	161.82	123.79	31.21	140.34	21.20	108.29	161.79
31461	78.96	12.37	8.72	61.95	19.82	152.28	28.83	165.81	105.52	193.40	42.10	213.55	30.54	88.87	117.00
31462	79.96	12.33	8.72	64.71	21.46	150.68	27.63	167.48	111.00	184.75	40.81	207.54	23.55	86.03	120.01
31463	80.96	12.26	8.72	67.29	23.80	149.68	26.47	168.34	116.54	176.13	39.38	199.99	16.91	85.39	123.47
31464	81.94	12.17	8.72	69.39	26.54	149.34	25.53	168.46	122.06	167.50	37.90	191.34	10.74	86.76	127.26
31465	82.91	12.05	8.72	71.10	29.43	149.70	24.97	167.92	127.59	158.99	36.40	182.13	5.43	89.85	131.34
31466	83.87	11.90	8.72	72.25	32.32	150.75	24.92	166.72	133.10	150.57	34.90	172.87	3.94	94.21	135.67
31467	84.82	11.74	8.72	72.89	35.13	152.43	25.45	164.95	138.58	142.30	33.43	164.09	7.86	99.46	140.20
31468	85.75	11.54	8.72	73.04	37.86	154.66	26.52	162.62	144.07	134.16	32.06	156.35	12.55	105.13	144.95
31469	86.67	11.33	8.72	72.71	40.52	157.31	28.05	159.76	149.58	126.13	30.85	150.21	17.16	110.81	149.91
31470	87.57	11.08	8.72	71.94	43.14	160.28	29.94	156.38	155.14	118.20	29.88	146.21	21.61	116.12	155.08
31471	78.97	13.72	8.72	64.72	18.02	164.16	32.24	166.56	92.36	176.92	37.38	233.67	24.28	87.23	106.40
31472	80.01	13.67	8.72	67.77	19.88	162.15	31.01	168.67	97.51	169.94	36.28	226.65	17.81	86.75	108.63
31473	81.03	13.58	8.72	70.45	22.49	160.63	29.77	170.01	102.99	162.79	35.05	217.86	11.72	88.43	111.59
31474	82.04	13.45	8.72	72.71	25.49	159.66	28.66	170.60	108.76	155.57	33.76	207.78	6.11	91.84	115.20
31475	83.04	13.29	8.72	74.42	28.62	159.31	27.84	170.50	114.77	148.31	32.49	196.95	2.27	96.54	119.39
31476	84.02	13.09	8.72	75.58	31.78	159.57	27.44	169.74	121.00	141.08	31.33	185.95	5.43	102.07	124.13
31477	84.98	12.85	8.72	76.20	34.89	160.42	27.55	168.33	127.45	133.92	30.34	175.37	10.03	107.98	129.36
31478	85.92	12.58	8.72	76.28	37.91	161.79	28.20	166.28	134.05	126.85	29.53	165.85	14.55	113.88	135.04
31479	86.85	12.27	8.72	75.86	40.83	163.59	29.35	163.60	140.78	119.85	28.94	158.02	18.90	119.39	141.09
31480	87.75	11.93	8.72	74.95	43.66	165.72	30.94	160.28	147.56	112.90	28.58	152.52	23.11	124.21	147.43
31481	78.98	15.07	8.72	67.97	15.95	175.88	35.60	167.36	76.67	161.32	31.12	258.17	17.97	86.64	94.04
31482	80.04	15.01	8.72	71.13	18.10	173.56	34.36	170.00	81.48	155.85	30.24	250.01	13.42	88.55	95.42
31483	81.09	14.90	8.72	73.87	21.01	171.57	33.07	171.89	86.99	150.11	29.30	239.72	10.18	92.42	97.83
31484	82.13	14.74	8.72	76.12	24.32	170.01	31.87	173.04	93.14	144.18	28.41	227.84	9.03	97.70	101.24
31485	83.14	14.53	8.72	77.83	27.79	168.96	30.87	173.48	99.86	138.15	27.69	214.96	10.15	103.84	105.61
31486	84.15	14.28	8.72	78.97	31.27	168.45	30.19	173.21	107.08	132.09	27.20	201.69	12.63	110.37	110.85
31487	85.13	13.97	8.72	79.56	34.69	168.47	29.94	172.22	114.70	126.05	26.98	188.75	15.67	116.86	116.91
31488	86.08	13.62	8.72	79.58	38.02	168.99	30.17	170.50	122.65	120.05	27.01	176.88	18.93	122.93	123.67
31489	87.01	13.23	8.72	79.07	41.22	169.92	30.90	168.01	130.83	114.08	27.25	166.84	22.29	128.27	131.02
31490	87.92	12.79	8.72	78.04	44.27	171.20	32.13	164.76	139.13	108.13	27.64	159.40	25.72	132.62	138.81
31491	78.99	16.43	8.72	71.60	13.96	187.11	39.07	168.24	58.81	147.00	23.28	288.15	17.60	87.31	81.68
31492	80.07	16.36	8.72	74.78	16.45	184.57	37.81	171.48	63.14	142.86	22.74	278.71	17.08	91.51	81.87
31493	81.14	16.23	8.72	77.51	19.72	182.22	36.48	174.02	68.71	138.39	22.37	266.65	17.52	97.41	83.39
31494	82.19	16.04	8.72	79.74	23.35	180.17	35.19	175.83	75.38	133.68	22.29	252.55	18.59	104.36	85.29
31495	83.23	15.79	8.72	81.41	27.13	178.49	34.03	176.89	82.98	128.83	22.57	237.06	19.99	111.77	90.56
31496	84.25	15.47	8.72	82.53	30.93	177.26	33.11	177.19	91.36	123.91	23.19	220.91	21.55	119.18	96.16
31497	85.25	15.10	8.72	83.07	34.66	176.50	32.52	176.68	100.37	118.98	24.09	204.91	23.23	126.15	102.99
31498	86.23	14.67	8.72	83.05	38.27	176.19	32.35	175.31	109.88	114.06	25.18	189.96	25.05	132.35	110.89
31499	87.17	14.19	8.72	82.44	41.73	176.29	32.64	173.02	119.74	109.11	26.34	177.01	27.06	137.49	119.68
31500	88.08	13.65	8.72	81.23	44.99	176.73	33.45	169.81	129.78	104.06	27.45	167.03	29.30	141.36	129.12
31501	92.26	9.42	8.72	62.27	58.55	179.50	44.07	131.88	186.29	73.65	30.71	179.80	43.71	131.51	186.42
31502	91.72	10.25	8.72	66.65	56.99	179.42	42.19	139.93	177.52	78.75	30.58	171.65	41.58	136.53	177.41
31503	91.12	11.05	8.72	70.90	55.27	179.27	40.36	147.80	168.45	84.02	30.32	165.03	39.46	140.90	168.03
31504	91.43	9.37	8.72	62.27	55.09	174.23	41.27	133.50	183.13	81.57	28.96	164.92	39.75	127.26	183.12
31505	91.05	10.08	8.72	66.05	54.21	174.78	39.95	140.22	176.33	84.95	29.11	161.26	38.17	131.66	176.15
31506	90.63	10.78	8.72	69.70	53.10	175.29	38.57	146.61	169.00	88.42	29.13	158.41	36.50	135.51	168.65
31507	90.60	9.31	8.72	62.67	52.09	169.08	38.62	135.94	180.37	90.56	28.26	152.99	35.98	122.73	180.25
31508	90.38	9.92	8.72	65.73	51.70	170.26	37.81	140.99	175.09	91.90	28.50	152.61	34.96	126.63	174.86
31509	90.15	10.52	8.72	68.71	51.20	171.37	36.89	145.94	169.39	93.68	28.65	152.58	33.81	130.12	169.05
31510	88.92	13.07	8.72	79.62	47.97	177.35	34.74	165.67	139.62	99.31	28.58	160.87	31.75	143.60	138.64
31511	88.72	12.33	8.72	76.69	46.97	172.50	33.63	161.00	146.90	102.87	28.26	155.31	28.86	135.43	146.28
31512	88.51	11.61	8.72	73.82	46.09	167.72	32.61	156.91	153.45	106.95	28.56	150.03	26.63	127.65	153.05
31513	89.71	12.45	8.72	77.28	50.67	178.01	36.41	160.62	149.33	94.40	29.32	158.69	34.35	144.24	148.39
31514	89.42	11.87	8.72	74.83	49.25	173.67	35.24	156.89	154.23	97.88	28.60	154.18	31.67	136.86	153.59
31515	89.12	11.30	8.72	72.54	48.05	169.40	34.12	153.74	158.61	101.92	28.57	149.76	29.39	129.85	158.16
31516	90.45	11.78	8.72	74.48	53.19	178.75	38.31	154.74	158.90	89.37	30.01	160.40	36.94	143.44	158.17
31517	90.09	11.38	8.72	72.60	51.51	174.88	36.92	152.19	161.49	92.83	29.03	155.74	34.33	137.23	160.94
31518	89.72	10.98	8.72	70.95	49.92	171.09	35.70	150.20	163.92	96.84	28.44	151.29	32.05	131.37	163.53
31519	88.40	9.39	7.03	63.55	47.63	188.90	32.38	159.18	188.82	124.02	33.17	161.17	25.41	108.22	188.21
31520	89.28	9.35	7.03	63.12	50.21	195.37	34.84	154.50	191.74	114.24	32.54	165.05	29.34	115.05	191.12
31521	90.16	9.32	7.03	62.61	52.93	201.97	37.39	149.73	194.63	104.34	32.28	172.61	33.37	121.19	194.09
31522	88.55	10.17	7.03	66.84	48.53	195.22	33.01	161.63	183.28	119.47	33.00	167.70	25.49	115.48	182.64
31523	89.32	10.06	7.03	66.27	50.84	200.17	35.09	157.60	186.46	111.54	32.64	170.31	29.25	120.86	185.81
31524	90.09	9.94	7.03	65.64	53.28	205.17	37.21	153.42	189.64	103.71	32.63	175.71	32.97	125.53	189.05
31525	88.70	10.96	7.03	70.21	49.41	201.78	33.81	164.50	176.98	115.33	32.81	174.59	26.21	122.79	176.34
31526	89.35	10.77	7.03	69.51	51.42	205.12	35.37	160.97	180.66	109.20	32.62	175.72	29.44	126.66	180.03
31527	90.00	10.57	7.03	68.60	53.58	208.59	37.25	157.16	184.09	102.83	32.93	178.92	32.88	130.06	183.48
31528	78.93	9.71	7.03	60.54	26.29	151.76	23.20	182.77	145.92	241.37	50.01	211.59	42.46	84.68	149.76
31529	79.90	9.70	7.03</												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
31557	87.91	11.19	7.03	71.05	47.08	198.05	32.18	168.44	172.40	122.45	33.35	175.86	22.34	117.75	171.81
31558	78.99	13.97	7.03	67.78	22.83	200.07	34.96	183.44	111.14	186.37	39.28	273.65	27.46	77.91	121.06
31559	80.07	13.91	7.03	70.02	24.65	198.38	33.84	185.27	115.96	177.86	38.51	265.91	20.17	78.18	123.73
31560	81.14	13.81	7.03	72.00	27.08	197.26	32.77	186.22	121.14	169.61	37.55	256.32	13.38	81.19	127.07
31561	82.19	13.68	7.03	73.63	29.89	196.78	31.85	186.35	126.64	161.60	36.51	245.37	7.07	86.25	131.00
31562	83.22	13.50	7.03	74.87	32.90	196.96	31.18	185.68	132.44	153.81	35.48	233.59	1.49	92.65	135.46
31563	84.24	13.29	7.03	75.70	35.98	197.80	30.82	184.26	138.48	146.22	34.54	221.56	4.65	99.78	140.39
31564	85.24	13.04	7.03	76.10	39.06	199.24	30.86	182.12	144.73	138.80	33.74	209.90	9.84	107.12	145.72
31565	86.21	12.76	7.03	76.06	42.10	201.21	31.33	179.28	151.13	131.50	33.13	199.33	14.83	114.25	151.43
31566	87.17	12.43	7.03	75.61	45.09	203.62	32.23	175.77	157.64	124.28	32.75	190.60	19.60	120.82	157.44
31567	88.10	12.08	7.03	74.74	48.00	206.35	33.55	171.60	164.18	117.10	32.60	184.48	24.21	126.55	163.68
31568	79.00	15.39	7.03	71.47	20.40	217.85	38.86	183.65	93.95	169.97	33.33	302.69	18.63	77.24	107.92
31569	80.11	15.32	7.03	74.01	22.53	215.77	37.71	185.99	98.51	163.32	32.83	293.66	12.76	80.43	109.74
31570	81.20	15.21	7.03	76.17	25.36	214.03	36.56	187.48	103.80	156.72	32.23	282.36	8.02	86.04	112.58
31571	82.27	15.04	7.03	77.92	28.60	212.72	35.49	188.14	109.77	150.18	31.66	269.34	5.86	93.19	116.36
31572	83.33	14.82	7.03	79.21	32.04	211.90	34.58	187.98	116.34	143.72	31.20	255.20	7.70	101.12	121.01
31573	84.37	14.54	7.03	80.03	35.55	211.60	33.91	187.03	123.41	137.34	30.92	240.63	11.34	109.23	126.48
31574	85.39	14.22	7.03	80.37	39.05	211.80	33.57	185.29	130.91	131.04	30.87	226.35	15.33	117.06	132.68
31575	86.38	13.85	7.03	80.23	42.47	212.46	33.61	182.77	138.73	124.79	31.03	213.18	19.33	124.24	139.52
31576	87.34	13.44	7.03	79.61	45.77	213.51	34.09	179.46	146.77	118.56	31.39	202.01	23.29	130.49	146.87
31577	88.28	12.98	7.03	78.54	48.92	214.89	35.02	175.36	154.92	112.33	31.90	193.72	27.21	135.58	154.61
31578	79.01	16.81	7.03	75.60	17.64	235.45	42.75	183.76	73.51	155.47	26.10	336.53	15.15	77.77	94.69
31579	80.13	16.74	7.03	78.32	20.13	233.11	41.59	186.70	77.74	150.39	25.87	326.12	14.19	83.82	95.35
31580	81.24	16.61	7.03	80.60	23.41	230.87	40.38	188.83	83.25	145.21	25.77	312.90	14.80	91.83	97.35
31581	82.34	16.40	7.03	82.40	27.14	228.82	39.18	190.14	89.90	139.97	25.89	297.48	16.43	100.83	100.69
31582	83.42	16.14	7.03	83.71	31.08	227.05	38.06	190.62	97.53	134.71	26.29	280.54	18.56	110.09	105.36
31583	84.48	15.81	7.03	84.51	35.06	225.63	37.11	190.24	105.97	129.46	26.98	262.87	20.91	119.04	111.28
31584	85.52	15.42	7.03	84.80	39.00	224.59	36.41	188.98	115.05	124.23	27.92	245.33	23.35	127.28	118.33
31585	86.53	14.96	7.03	84.55	42.82	223.92	36.04	186.83	124.62	119.00	29.05	228.91	25.86	134.47	126.37
31586	87.50	14.45	7.03	83.77	46.47	223.60	36.06	183.74	134.52	113.74	30.29	214.65	28.46	140.37	135.22
31587	88.44	13.89	7.03	82.43	49.88	223.60	36.54	179.72	144.58	108.35	31.51	203.63	31.19	144.82	144.66
31588	92.75	9.44	7.03	63.02	63.06	223.29	46.17	138.38	201.15	76.13	36.07	218.02	46.56	136.59	201.41
31589	92.19	10.32	7.03	67.57	61.77	223.72	44.31	146.85	192.36	81.56	35.74	208.78	44.42	141.47	192.51
31590	91.59	11.15	7.03	71.92	60.23	224.18	42.54	155.12	183.25	87.10	35.26	201.40	42.26	145.65	183.21
31591	91.89	9.38	7.03	62.37	59.28	216.05	43.12	141.41	198.90	84.30	33.89	199.35	42.09	132.10	198.79
31592	91.50	10.14	7.03	66.35	58.66	217.29	41.90	148.24	191.94	87.89	34.01	195.52	40.55	136.34	191.74
31593	91.07	10.87	7.03	70.19	57.75	218.55	40.63	154.80	184.45	91.57	33.94	192.67	38.91	140.00	184.18
31594	91.03	9.32	7.03	62.25	55.98	208.95	40.25	145.19	196.88	93.75	32.67	184.09	37.73	127.06	196.51
31595	90.81	9.97	7.03	65.52	55.86	210.98	39.59	150.12	191.39	95.15	33.03	184.28	36.83	130.87	190.94
31596	90.57	10.60	7.03	68.73	55.59	212.97	38.83	155.04	185.46	97.05	33.24	184.87	35.77	134.27	184.98
31597	89.32	13.27	7.03	80.75	52.99	223.77	37.52	174.84	154.41	103.29	32.82	196.80	34.00	147.50	154.13
31598	89.10	12.50	7.03	77.19	51.70	216.24	36.25	170.86	162.56	106.81	32.65	189.19	30.72	138.93	162.01
31599	88.88	11.74	7.03	73.71	50.51	208.87	35.00	167.49	169.86	110.93	32.78	181.79	28.08	130.66	169.20
31600	90.13	12.62	7.03	78.36	55.74	223.93	38.94	169.11	164.11	98.07	33.77	194.36	36.86	148.49	163.79
31601	89.82	12.01	7.03	75.34	54.02	217.36	37.63	166.11	169.78	101.55	33.13	187.95	33.78	140.77	169.25
31602	89.52	11.42	7.03	72.51	52.51	210.93	36.34	163.71	174.85	105.68	32.94	181.63	31.08	133.35	174.20
31603	90.90	11.92	7.03	75.55	58.27	224.20	40.63	162.60	173.67	92.75	34.70	196.27	39.63	147.96	173.45
31604	90.51	11.50	7.03	73.14	56.29	218.54	39.13	160.80	176.92	96.23	33.71	189.79	36.64	141.49	176.51
31605	90.14	11.08	7.03	71.02	54.38	212.98	37.77	159.56	179.97	100.36	32.96	183.57	33.97	135.29	179.45
31606	88.73	9.41	5.34	63.61	50.95	224.94	34.17	172.19	205.33	127.90	36.43	187.08	26.51	109.97	204.23
31607	89.65	9.37	5.34	63.41	53.56	233.44	36.73	166.45	208.01	118.42	36.46	192.17	30.73	117.98	206.93
31608	90.56	9.33	5.34	63.11	56.30	242.20	39.38	160.57	210.56	108.58	36.78	201.99	35.14	125.26	209.62
31609	88.90	10.23	5.34	67.21	52.27	233.73	35.11	173.93	199.77	123.47	36.95	195.94	26.74	117.83	198.60
31610	89.70	10.11	5.34	66.80	54.54	240.29	37.19	169.01	202.68	115.69	36.99	199.63	30.78	124.14	201.56
31611	90.49	9.99	5.34	66.30	56.95	246.92	39.31	163.91	205.52	107.87	37.32	206.77	34.81	129.67	204.53
31612	89.06	11.05	5.34	70.91	53.50	243.10	36.15	176.12	193.37	119.42	37.27	205.48	27.60	125.72	192.21
31613	89.73	10.85	5.34	70.28	55.42	247.47	37.64	171.87	196.78	113.33	37.27	207.36	31.08	130.25	195.70
31614	90.40	10.64	5.34	69.43	57.50	251.99	39.48	167.30	199.88	106.90	37.74	211.70	34.81	134.27	198.90
31615	78.95	9.74	5.34	61.93	30.15	174.58	24.41	203.31	165.30	245.60	49.17	240.22	46.41	75.63	166.98
31616	79.95	9.73	5.34	61.74	31.24	175.05	23.67	203.80	170.09	229.02	47.40	235.50	38.94	69.45	171.26
31617	80.94	9.71	5.34	61.84	32.74	176.73	23.24	203.30	174.76	214.07	45.62	229.61	32.26	65.75	175.50
31618	81.93	9.69	5.34	62.12	34.56	179.62	23.19	201.87	179.28	200.54	43.89	222.81	26.45	64.74	179.65
31619	82.92	9.66	5.34	62.50	36.61	183.63	23.60	199.57	183.60	188.22	42.26	215.41	21.68	66.45	183.66
31620	83.90	9.63	5.34	62.91	38.81	188.67	24.47	196.47	187.72	176.91	40.78	207.78	18.28	70.60	187.49
31621	84.88	9.59	5.34	63.29	41.12	194.61	25.78	192.66	191.64	166.41	39.48	200.38	16.72	76.71	191.14
31622	85.85	9.55	5.34	63.58	43.51	201.33	27.49	188.22	195.35	156.49	38.39	193.79	17.18	84.23	194.62
31623	86.83	9.51	5.34	63.75	45.97	208.72	29.50	183.23	198.88	146.92	37.53	188.74	19.37	92.61	197.95
31624	87.79	9.45	5.34	63.79	48.51	216.66	31.77	177.79	202.24	137.45	36.95	186.15	22.68	101.37	201.17
31625	78.98	11.23	5.34	63.89	30.70	193.30	28.83	202.45	155.75	226.42	47.76	259.75	44.45	73.02	158.42
31626	80.02	11.20	5.34	64.54	31.96	193.13	27.90	203.20	160.50	212.26	46.43	253.99	36.39	68.97	162.40
31627	81.06	11.15	5.												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
31655	79.03	15.70	5.34	74.73	26.37	263.18	42.51	200.77	112.52	174.07	36.74	347.31	20.32	68.21	123.47
31656	80.17	15.63	5.34	76.97	28.35	261.45	41.39	202.75	116.77	166.93	36.54	337.62	13.56	73.37	125.57
31657	81.31	15.51	5.34	78.86	30.97	260.09	40.27	203.78	121.77	160.12	36.22	325.54	7.49	81.04	128.62
31658	82.42	15.33	5.34	80.35	33.99	259.17	39.21	203.87	127.45	153.58	35.89	311.64	3.11	90.08	132.53
31659	83.52	15.10	5.34	81.42	37.25	258.72	38.27	203.06	133.74	147.26	35.63	296.53	5.41	99.65	137.27
31660	84.60	14.81	5.34	82.04	40.61	258.75	37.54	201.37	140.54	141.09	35.49	280.93	10.17	109.14	142.75
31661	85.65	14.48	5.34	82.22	43.97	259.23	37.07	198.83	147.76	135.01	35.52	265.63	14.97	118.12	148.90
31662	86.68	14.09	5.34	81.93	47.27	260.12	36.94	195.46	155.29	128.93	35.72	251.52	19.64	126.26	155.62
31663	87.67	13.65	5.34	81.18	50.46	261.35	37.21	191.27	163.02	122.80	36.09	239.58	24.18	133.31	162.81
31664	88.64	13.17	5.34	79.99	53.49	262.83	37.92	186.27	170.84	116.58	36.60	230.82	28.61	139.07	170.34
31665	79.03	17.20	5.34	79.50	22.43	289.38	46.72	200.22	89.91	160.72	29.87	386.52	13.43	68.92	108.88
31666	80.20	17.12	5.34	81.97	24.81	287.34	45.60	202.79	93.96	155.25	29.90	375.35	11.54	77.49	109.92
31667	81.35	16.98	5.34	84.00	27.98	285.27	44.41	204.44	99.29	149.86	30.00	361.18	11.97	87.87	112.27
31668	82.49	16.77	5.34	85.54	31.65	283.27	43.20	205.17	105.79	144.56	30.27	344.63	14.03	98.92	115.92
31669	83.61	16.49	5.34	86.60	35.56	281.41	42.04	204.97	113.30	139.31	30.74	326.45	16.85	109.85	120.82
31670	84.71	16.14	5.34	87.15	39.56	279.76	41.01	203.83	121.62	134.09	31.44	307.48	19.94	120.14	126.91
31671	85.79	15.73	5.34	87.18	43.52	278.35	40.17	201.75	130.59	128.86	32.34	288.64	23.13	129.42	134.05
31672	86.83	15.25	5.34	86.70	47.35	277.18	39.61	198.72	140.02	123.59	33.41	271.01	26.35	137.41	142.10
31673	87.84	14.72	5.34	85.69	50.99	276.25	39.41	194.72	149.76	118.21	34.59	255.71	29.59	143.90	150.88
31674	88.81	14.12	5.34	84.13	54.37	275.54	39.65	189.80	159.62	112.63	35.79	243.90	32.86	148.78	160.18
31675	93.23	9.47	5.34	63.69	66.32	269.75	48.39	144.63	214.66	78.66	40.94	259.15	49.45	141.64	215.08
31676	92.67	10.38	5.34	68.41	65.38	271.08	46.58	153.47	206.16	84.36	40.47	249.19	47.29	146.34	206.56
31677	92.05	11.25	5.34	72.88	64.14	272.57	44.90	162.15	197.28	90.16	39.82	241.39	45.08	150.32	197.61
31678	92.34	9.40	5.34	63.13	62.67	260.91	45.28	149.49	213.57	87.73	38.96	236.43	44.66	137.61	213.29
31679	91.95	10.19	5.34	67.23	62.34	263.12	44.09	156.38	206.68	91.38	38.98	232.79	43.09	141.54	206.37
31680	91.52	10.96	5.34	71.20	61.67	265.43	42.90	163.06	199.25	95.17	38.78	230.24	41.41	144.94	198.95
31681	91.46	9.34	5.34	62.91	59.38	251.52	42.33	154.72	212.30	97.68	37.57	216.86	39.93	132.06	211.60
31682	91.23	10.01	5.34	66.31	59.52	254.71	41.74	159.49	206.79	99.03	37.94	218.06	39.04	135.71	206.05
31683	90.99	10.67	5.34	69.65	59.48	257.88	41.05	164.34	200.84	100.94	38.13	219.68	37.97	138.95	200.11
31684	89.71	13.48	5.34	82.25	57.40	274.91	40.39	184.05	169.24	107.34	37.12	236.58	36.12	151.74	169.44
31685	89.49	12.67	5.34	78.54	56.15	264.15	38.95	180.97	178.16	110.98	37.36	226.12	32.53	142.93	177.51
31686	89.25	11.87	5.34	74.76	54.85	253.37	37.54	178.37	185.96	115.08	37.51	215.63	29.65	134.16	184.91
31687	90.55	12.79	5.34	79.67	60.04	274.20	41.61	177.51	178.69	101.82	38.10	233.93	39.31	152.93	178.85
31688	90.23	12.16	5.34	76.58	58.32	265.10	40.17	175.51	185.09	105.56	37.85	224.98	35.89	145.14	184.51
31689	89.91	11.53	5.34	73.54	56.73	255.88	38.75	173.94	190.67	109.78	37.73	215.85	32.92	137.33	189.71
31690	91.34	12.06	5.34	76.68	62.40	273.57	43.12	170.26	187.97	96.16	39.12	235.98	42.31	152.52	188.21
31691	90.94	11.61	5.34	74.27	60.43	266.07	41.52	169.51	191.92	100.02	38.48	227.25	38.99	146.17	191.50
31692	90.55	11.18	5.34	72.02	58.44	258.32	40.08	169.14	195.49	104.34	37.79	218.46	36.05	139.72	194.72
31693	70.53	9.28	17.16	138.85	101.17	15.76	35.66	32.11	11.08	154.56	108.21	15.85	46.62	45.30	25.41
31694	69.83	9.26	17.16	105.01	82.11	15.07	34.10	24.41	10.77	115.87	88.26	15.33	40.73	38.82	25.42
31695	69.12	9.23	17.16	78.87	65.93	14.79	31.09	19.34	11.25	84.78	71.49	15.23	33.76	33.64	25.99
31696	70.46	9.85	17.16	118.35	87.07	15.78	24.11	29.40	10.56	131.81	91.25	15.72	36.05	40.95	25.38
31697	69.83	9.77	17.16	93.89	73.00	15.29	25.69	23.89	11.06	103.57	76.49	15.34	32.55	36.53	25.70
31698	69.22	9.68	17.16	73.76	60.40	15.03	25.91	19.94	11.88	79.45	63.31	15.22	28.53	32.76	26.31
31699	70.38	10.41	17.16	97.56	72.29	15.77	16.70	27.14	10.89	109.33	73.78	15.66	28.56	37.28	25.27
31700	69.85	10.27	17.16	81.50	63.12	15.44	19.50	23.48	11.67	90.26	64.24	15.36	26.12	34.59	25.64
31701	69.32	10.13	17.16	67.25	53.81	15.24	21.37	20.59	12.71	72.89	54.31	15.26	23.52	31.98	26.48
31702	78.07	9.50	17.16	41.04	13.29	21.28	51.39	345.07	25.98	57.33	34.74	52.50	51.44	343.81	68.42
31703	77.31	9.50	17.16	103.67	40.89	31.95	5.86	363.31	70.10	109.27	40.70	71.45	11.36	364.60	111.72
31704	76.55	9.49	17.16	28.04	41.97	33.29	27.77	395.27	112.19	46.87	52.41	83.51	28.25	397.43	156.97
31705	75.79	9.47	17.16	65.08	65.33	53.34	27.91	416.30	165.06	78.96	76.48	95.98	29.73	421.45	205.07
31706	75.03	9.46	17.16	114.55	102.31	90.23	17.49	436.17	237.58	128.01	114.83	130.01	24.94	444.54	276.64
31707	74.27	9.44	17.16	617.82	153.84	33.57	158.06	278.75	199.04	641.57	173.89	58.47	191.90	281.72	228.73
31708	73.52	9.41	17.16	442.33	285.05	22.76	73.60	159.25	102.06	468.57	311.58	29.51	104.94	162.94	122.34
31709	72.76	9.38	17.16	324.33	194.74	23.48	46.99	93.59	38.19	348.72	210.74	24.29	76.14	98.33	53.74
31710	72.01	9.35	17.16	243.58	149.57	20.32	34.33	63.97	16.82	266.37	160.07	20.30	56.71	71.77	31.04
31711	71.26	9.31	17.16	183.79	123.19	17.34	35.25	44.56	12.53	203.64	131.38	17.32	51.24	55.39	26.63
31712	78.06	10.50	17.16	15.93	27.89	42.70	90.09	519.51	37.56	33.48	44.38	110.15	89.77	517.18	116.55
31713	77.28	10.49	17.16	23.44	51.55	48.63	87.74	517.52	85.72	40.33	65.42	114.73	87.37	516.43	146.43
31714	76.50	10.46	17.16	61.16	81.60	69.42	83.45	518.86	148.01	73.14	95.58	130.56	83.24	519.61	198.75
31715	75.72	10.42	17.16	401.86	184.60	43.98	99.08	419.96	189.46	408.96	220.80	103.48	106.44	420.52	234.39
31716	74.95	10.37	17.16	289.73	467.21	83.02	260.72	328.12	213.38	300.46	524.60	123.23	260.18	330.78	259.96
31717	74.18	10.31	17.16	521.08	346.75	27.42	70.06	177.73	111.01	540.16	384.54	53.04	101.92	177.23	146.38
31718	73.41	10.23	17.16	362.66	206.73	24.68	32.51	113.34	24.94	383.52	222.95	27.89	60.55	114.61	49.15
31719	72.65	10.15	17.16	257.61	161.93	21.38	5.83	71.72	15.93	278.29	172.95	22.13	48.85	75.05	35.00
31720	71.89	10.05	17.16	194.70	125.57	18.83	13.07	50.59	11.54	213.98	132.55	18.88	42.73	56.91	28.02
31721	71.14	9.94	17.16	150.90	103.54	16.87	19.71	37.82	10.51	167.71	108.55	16.78	38.65	47.21	25.81
31722	78.05	11.50	17.16	24.09	119.72	41.93	499.68	354.57	49.15	43.74	218.24	98.06	497.99	352.39	139.41
31723	77.25	11.48	17.16	50.80	212.91	51.11	491.91	347.47	88.59	64.92	290.32	105.67	490.26	345.93	165.15
31724	76.45	11.43	17.16	133.95	338.01	69.00	469.96	324.17	123.66	144.08	405.90	119.40	468.46	323.08	193.66
31725	75.65	11.37	17.16	443.03</											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
31753	77.16	14.45	17.16	22.63	19.20	15.78	48.06	50.73	9.75	110.18	24.47	25.57	48.12	48.10	17.83
31754	76.31	14.36	17.16	12.43	23.25	15.77	41.65	46.94	11.08	104.46	26.70	25.02	43.67	44.43	18.55
31755	75.46	14.22	17.16	15.21	24.79	15.85	34.59	43.36	11.60	98.18	26.49	24.12	39.68	41.11	18.40
31756	74.62	14.04	17.16	22.37	24.85	16.04	28.15	40.49	11.81	91.05	25.02	22.97	36.56	38.78	17.80
31757	73.79	13.81	17.16	28.24	24.60	16.24	22.45	38.42	12.32	83.08	23.71	21.68	33.41	37.62	17.46
31758	72.98	13.54	17.16	32.82	24.14	16.39	17.53	36.54	13.36	75.00	22.58	20.40	29.64	36.99	17.90
31759	72.19	13.22	17.16	35.03	23.23	16.38	13.76	34.54	14.69	66.58	21.03	19.16	25.36	36.49	19.07
31760	71.41	12.87	17.16	35.35	22.14	16.22	12.37	32.42	16.12	57.88	19.00	18.04	21.10	35.96	20.81
31761	70.66	12.47	17.16	34.61	21.30	15.95	13.02	30.18	17.62	49.49	16.80	17.09	16.99	35.19	22.93
31762	67.06	9.32	17.16	24.00	30.72	14.20	21.64	14.95	19.36	19.91	29.40	14.20	15.01	21.14	30.24
31763	67.55	9.94	17.16	25.41	27.59	14.51	20.83	17.39	20.06	21.76	23.44	14.51	12.85	24.16	30.22
31764	68.08	10.54	17.16	26.67	24.69	14.77	19.84	20.09	20.56	24.03	18.39	14.84	10.97	27.17	29.82
31765	67.75	9.28	17.16	39.41	39.11	14.56	23.90	14.46	15.20	37.44	41.42	14.96	19.07	24.09	28.50
31766	68.10	9.82	17.16	39.67	36.34	14.80	21.95	16.43	16.04	38.65	35.77	14.93	16.57	25.84	28.49
31767	68.47	10.34	17.16	39.37	33.44	15.00	20.05	18.65	16.78	39.46	30.65	14.99	14.46	27.70	28.15
31768	68.43	9.23	17.16	57.17	51.38	14.69	27.41	16.08	12.71	58.57	55.86	15.26	26.11	28.56	27.13
31769	68.64	9.70	17.16	55.59	48.01	14.92	24.20	17.39	13.46	57.60	49.75	15.17	22.75	28.96	27.31
31770	68.87	10.15	17.16	53.70	44.18	15.12	21.29	18.86	14.19	56.46	43.67	15.15	19.90	29.60	27.09
31771	69.95	12.04	17.16	33.09	20.76	15.64	14.72	27.82	18.96	41.58	14.63	16.30	13.36	34.01	25.20
31772	70.11	11.50	17.16	53.51	37.97	15.85	13.60	25.31	14.66	62.75	34.51	16.04	17.81	33.06	24.67
31773	70.26	10.96	17.16	75.17	55.18	15.84	13.55	25.54	12.24	85.54	53.93	15.78	22.69	34.47	25.03
31774	69.29	11.58	17.16	31.12	21.21	15.33	16.69	25.33	19.90	34.70	13.81	15.69	11.07	32.23	27.12
31775	69.52	11.15	17.16	47.75	35.12	15.55	16.07	23.00	15.77	53.36	31.26	15.59	15.47	31.52	26.04
31776	69.74	10.73	17.16	65.53	49.51	15.59	16.52	22.91	13.23	73.00	47.98	15.50	20.54	32.71	25.85
31777	68.66	11.08	17.16	28.68	22.27	15.03	18.47	22.77	20.52	28.50	14.47	15.22	10.23	30.04	28.72
31778	68.95	10.79	17.16	42.13	32.56	15.26	18.30	20.87	16.71	44.53	28.49	15.25	14.30	29.72	27.28
31779	69.23	10.49	17.16	56.55	44.82	15.31	18.87	20.65	14.12	61.15	43.49	15.25	18.93	30.79	26.57
31780	70.20	9.30	15.47	84.10	72.20	48.46	27.04	63.51	22.90	117.65	79.40	48.86	38.56	103.09	60.88
31781	69.46	9.27	15.47	68.15	61.24	46.90	25.71	53.88	23.14	97.33	67.57	48.35	33.35	96.12	61.46
31782	68.72	9.24	15.47	53.70	52.34	46.07	23.81	46.48	24.50	77.59	57.65	48.62	27.62	88.59	62.73
31783	70.10	9.90	15.47	72.85	63.95	48.55	19.71	61.14	23.25	103.20	68.89	48.22	31.86	95.87	61.63
31784	69.46	9.82	15.47	60.86	55.77	47.37	20.42	53.75	24.26	87.57	59.88	47.68	28.09	91.02	62.32
31785	68.82	9.72	15.47	49.82	48.95	46.60	20.56	47.81	25.86	72.19	52.06	47.71	24.20	85.74	63.46
31786	70.02	10.50	15.47	60.65	54.85	48.66	15.69	59.31	24.46	88.44	57.49	48.01	26.74	89.71	61.76
31787	69.47	10.36	15.47	52.76	49.84	47.78	17.04	53.92	25.73	77.47	51.88	47.39	23.87	86.76	62.48
31788	68.92	10.20	15.47	45.20	45.05	47.15	18.10	49.24	27.41	66.49	46.05	47.25	20.84	83.19	63.78
31789	78.05	9.53	15.47	25.59	28.16	40.21	70.32	254.84	19.44	100.22	52.20	81.60	70.87	251.84	68.51
31790	77.26	9.53	15.47	39.52	42.82	40.30	58.08	236.33	17.94	110.98	60.77	84.70	59.65	236.16	72.37
31791	76.46	9.52	15.47	49.52	64.18	41.94	48.51	215.63	37.80	122.00	78.22	87.61	51.22	218.36	83.67
31792	75.67	9.50	15.47	93.50	86.82	43.70	41.54	197.33	51.18	152.18	101.30	88.37	47.74	201.94	92.68
31793	74.88	9.49	15.47	146.46	113.07	49.89	25.74	148.18	48.54	197.75	127.56	80.37	41.48	152.85	87.78
31794	74.09	9.46	15.47	76.35	132.28	54.58	37.28	137.42	55.72	137.67	145.55	73.62	43.44	145.68	93.99
31795	73.30	9.44	15.47	121.99	106.25	63.90	10.81	128.36	53.51	168.31	116.66	70.34	40.62	140.00	90.95
31796	72.52	9.41	15.47	127.17	109.27	61.07	22.06	110.39	38.13	169.78	119.36	62.13	46.42	129.06	75.59
31797	71.74	9.37	15.47	116.69	98.60	56.15	26.44	92.33	28.68	156.44	107.64	55.75	46.53	118.96	66.23
31798	70.95	9.33	15.47	100.92	84.73	51.44	27.34	76.26	24.34	137.84	92.59	51.11	42.99	110.39	62.04
31799	78.04	10.60	15.47	27.67	33.52	47.69	116.83	226.70	21.31	105.65	52.51	104.83	116.48	222.48	73.01
31800	77.22	10.59	15.47	33.17	62.75	48.32	111.58	212.11	16.29	111.74	77.99	107.47	111.38	209.68	77.29
31801	76.40	10.56	15.47	77.94	90.33	49.17	101.70	179.24	28.39	139.22	105.06	104.66	102.29	177.69	84.90
31802	75.59	10.52	15.47	58.48	104.14	50.35	80.57	168.66	43.88	130.02	114.94	99.99	81.57	168.73	95.38
31803	74.78	10.46	15.47	127.52	64.47	58.22	14.57	143.36	36.92	178.24	70.03	89.97	41.36	143.10	87.39
31804	73.98	10.39	15.47	88.07	91.75	59.72	20.82	125.06	32.39	140.69	99.56	77.46	39.95	127.94	82.06
31805	73.18	10.31	15.47	111.67	107.60	62.91	9.84	115.70	32.57	153.90	117.28	69.81	43.01	123.49	78.97
31806	72.38	10.22	15.47	111.80	96.76	58.43	10.18	98.97	26.51	150.41	104.69	60.29	40.49	113.81	69.51
31807	71.60	10.12	15.47	100.50	85.38	54.09	14.13	83.84	23.61	136.67	92.02	53.95	38.06	106.48	64.10
31808	70.82	10.00	15.47	86.35	73.72	50.71	17.69	71.00	22.93	119.76	79.28	50.08	35.11	100.78	62.01
31809	78.03	11.67	15.47	28.20	21.73	50.94	98.97	194.49	22.03	112.63	36.71	111.21	98.29	188.97	89.94
31810	77.19	11.65	15.47	29.81	41.63	51.11	87.93	179.42	21.50	116.76	52.29	111.20	88.11	174.58	92.67
31811	76.35	11.60	15.47	63.81	48.10	51.31	64.14	150.16	23.38	133.99	56.62	104.42	67.46	145.27	91.80
31812	75.51	11.53	15.47	39.41	77.18	53.05	67.27	141.20	28.81	117.48	87.24	96.56	70.58	137.42	94.83
31813	74.69	11.44	15.47	80.77	96.27	54.38	56.79	134.73	34.81	133.54	108.18	86.45	65.82	132.45	95.58
31814	73.87	11.33	15.47	102.50	95.55	54.69	37.70	112.90	29.88	146.66	104.99	72.88	53.17	113.27	84.02
31815	73.06	11.19	15.47	95.58	88.83	55.88	21.44	98.14	24.52	136.67	96.32	63.91	44.09	103.81	72.65
31816	72.25	11.04	15.47	88.17	78.81	54.66	13.98	86.58	22.82	125.59	84.57	57.66	38.81	99.00	66.02
31817	71.46	10.87	15.47	79.85	69.53	52.26	11.95	75.99	22.67	114.10	73.81	52.81	33.89	95.56	62.63
31818	70.68	10.68	15.47	69.77	61.27	50.10	13.54	66.53	23.38	100.74	64.49	49.61	29.85	92.55	61.61
31819	78.02	12.74	15.47	33.33	27.98	48.75	114.22	154.47	23.36	114.64	55.78	96.55	113.00	147.54	92.77
31820	77.15	12.71	15.47	19.56	45.39	48.63	104.71	144.06	25.73	112.62	67.06	96.02	104.27	137.40	95.44
31821	76.29	12.64	15.47	32.48	61.89	48.49	91.76	130.49	28.66	114.43	79.15	92.23	92.84	124.12	95.22
31822	75.44	12.55	15.47	55.08	71.62	49.53	71.71	114.91	27.95	121.24	85.37	83.95	75.96	109.03	89.43
31823	74.60	12.42	15.47	60.43	73.38	51.32	51.80	103.29	25.32	119.22	84.09	75.01	60.74	99.43	80.76
31824	73.76	12.26	15.47	64.49	69.30	52.31	37.99	93.69	23.74						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
31851	67.62	10.64	15.47	21.56	32.51	46.15	19.29	44.17	39.20	30.38	27.07	46.10	8.50	69.43	68.56
31852	67.29	9.29	15.47	29.26	40.07	44.99	20.16	37.14	31.52	40.47	40.55	47.55	14.91	70.01	66.74
31853	67.65	9.87	15.47	29.21	38.06	45.72	19.19	40.79	32.86	41.31	36.83	46.68	13.42	71.91	66.92
31854	68.03	10.43	15.47	28.73	36.00	46.46	18.37	44.75	33.96	41.91	33.39	46.47	12.36	73.93	66.36
31855	68.00	9.25	15.47	40.48	45.09	45.59	21.73	40.93	27.26	58.20	48.52	48.76	21.19	79.57	64.58
31856	68.22	9.74	15.47	39.01	42.93	46.15	19.83	43.43	28.64	56.43	44.34	47.61	19.04	78.99	65.05
31857	68.44	10.22	15.47	37.26	40.58	46.71	18.33	46.19	29.94	54.71	40.26	46.98	17.35	78.89	64.86
31858	69.56	12.24	15.47	23.57	27.58	49.11	18.16	59.67	36.20	45.75	21.64	51.55	13.76	79.43	59.78
31859	69.72	11.67	15.47	34.51	35.44	48.91	16.19	57.98	30.60	58.31	32.55	49.44	17.80	81.11	60.52
31860	69.89	11.09	15.47	47.23	44.63	48.80	14.96	58.04	26.86	72.85	44.45	48.39	22.12	84.63	61.38
31861	68.87	11.75	15.47	23.29	28.92	48.16	18.32	54.62	37.86	40.03	22.69	49.17	10.96	77.19	63.36
31862	69.11	11.30	15.47	32.33	34.98	48.10	16.78	53.46	32.31	51.98	31.75	47.99	15.03	79.31	62.81
31863	69.35	10.85	15.47	42.83	42.12	48.06	16.08	53.62	28.36	65.29	41.41	47.55	19.53	82.72	62.72
31864	68.21	11.22	15.47	22.44	30.42	47.15	18.81	49.42	39.02	34.69	24.16	47.40	9.14	73.91	66.44
31865	68.52	10.90	15.47	29.84	34.74	47.26	17.63	49.03	33.79	45.69	31.25	47.00	13.10	76.67	64.91
31866	68.82	10.59	15.47	38.38	40.38	47.33	17.20	49.52	29.79	57.58	39.68	47.03	17.36	80.13	63.95
31867	69.86	9.32	13.78	46.99	52.99	79.61	21.11	75.48	25.79	120.91	60.91	79.76	41.28	146.24	83.74
31868	69.09	9.29	13.78	41.10	49.55	79.20	20.93	68.45	27.17	106.61	55.37	82.36	37.59	142.80	86.09
31869	68.33	9.26	13.78	34.83	47.04	79.00	20.37	61.95	29.02	90.72	50.20	85.67	33.06	136.19	88.29
31870	69.75	9.96	13.78	41.48	49.58	80.84	18.56	74.60	27.67	108.94	54.74	79.54	37.76	137.27	85.79
31871	69.08	9.87	13.78	37.08	47.10	80.36	19.03	68.69	29.00	97.61	50.40	80.93	34.56	134.88	87.61
31872	68.42	9.77	13.78	32.41	45.33	80.00	19.29	63.19	30.75	85.19	46.34	83.07	31.04	130.39	89.43
31873	69.65	10.60	13.78	35.51	45.62	81.96	17.99	73.93	29.74	97.04	48.01	79.95	34.17	128.90	86.70
31874	69.08	10.44	13.78	32.75	44.45	81.46	18.45	69.09	30.97	88.77	45.44	80.28	31.61	127.66	88.12
31875	68.52	10.27	13.78	29.75	43.37	81.06	18.94	64.37	32.59	79.89	42.31	81.48	28.63	124.73	89.93
31876	78.04	9.57	13.78	36.69	19.77	64.26	39.39	63.66	50.47	150.48	42.25	107.76	43.09	154.85	80.66
31877	77.21	9.56	13.78	29.71	30.30	63.87	38.38	157.56	36.87	152.20	49.93	106.33	44.04	152.77	75.77
31878	76.38	9.55	13.78	34.29	40.12	65.22	33.70	147.27	25.86	156.53	57.68	103.76	42.70	147.24	73.91
31879	75.56	9.54	13.78	40.54	48.10	69.82	26.04	133.91	19.79	160.16	63.55	100.16	40.19	139.31	74.67
31880	74.73	9.52	13.78	41.66	53.02	73.20	19.74	129.19	18.68	157.85	67.08	95.18	39.51	141.94	77.24
31881	73.91	9.49	13.78	60.51	55.37	77.00	13.55	117.65	19.69	164.65	68.51	89.80	43.24	138.66	77.11
31882	73.09	9.46	13.78	55.00	63.79	79.07	14.49	106.96	20.89	156.92	76.34	84.73	43.11	138.56	77.30
31883	72.27	9.43	13.78	55.64	62.52	81.15	16.40	99.34	22.37	150.60	74.14	81.86	44.59	141.88	78.95
31884	71.46	9.39	13.78	54.96	60.41	81.08	18.89	91.31	23.57	143.12	70.99	79.41	44.98	145.02	80.21
31885	70.65	9.35	13.78	51.85	56.82	80.34	20.55	83.18	24.70	133.11	66.11	78.65	43.86	146.83	81.83
31886	78.02	10.71	13.78	37.84	17.81	68.58	48.26	159.70	44.98	145.85	38.75	117.78	49.73	148.47	84.58
31887	77.16	10.69	13.78	27.87	27.66	69.62	44.97	151.67	33.88	146.58	44.93	116.96	48.71	143.35	82.26
31888	76.31	10.66	13.78	28.33	37.09	70.58	38.39	144.39	26.60	147.89	51.53	113.81	45.47	140.05	82.16
31889	75.46	10.61	13.78	40.14	45.45	74.22	30.43	131.05	24.49	151.80	58.97	109.01	43.85	131.09	82.15
31890	74.62	10.55	13.78	37.77	61.59	77.31	31.52	121.98	22.74	147.31	74.60	102.83	45.43	128.84	82.64
31891	73.78	10.48	13.78	50.51	60.95	80.56	20.85	114.20	22.84	149.38	72.48	96.78	43.49	129.20	82.79
31892	72.95	10.39	13.78	48.77	58.84	81.85	17.14	103.72	23.79	143.04	68.82	90.22	42.72	128.47	82.14
31893	72.12	10.30	13.78	49.29	58.30	83.16	15.71	96.64	24.79	136.65	67.37	85.53	42.91	132.18	82.36
31894	71.30	10.19	13.78	48.35	55.77	82.63	16.44	89.08	25.69	129.01	63.65	81.60	42.08	135.46	83.00
31895	70.49	10.06	13.78	45.47	52.52	81.63	17.65	81.43	26.64	119.50	59.01	79.53	40.26	137.43	84.31
31896	78.01	11.85	13.78	40.48	17.85	71.84	56.51	147.57	39.66	140.71	39.17	122.90	56.10	133.62	85.67
31897	77.12	11.82	13.78	28.55	28.07	73.36	53.87	140.68	32.75	139.59	45.80	122.42	55.34	129.01	85.63
31898	76.25	11.76	13.78	25.69	40.22	74.50	50.26	134.55	27.54	138.75	55.24	119.27	54.00	126.28	86.08
31899	75.38	11.69	13.78	32.45	44.74	76.61	39.41	124.24	25.48	140.27	57.35	114.17	48.21	120.25	85.61
31900	74.51	11.59	13.78	33.91	46.79	79.99	30.70	113.26	25.64	137.72	57.12	108.02	44.36	115.08	84.38
31901	73.66	11.47	13.78	36.28	49.89	82.96	25.08	107.52	25.90	132.67	59.16	101.82	43.28	117.28	83.97
31902	72.81	11.33	13.78	39.68	51.55	83.86	20.94	100.47	26.25	127.87	59.60	94.89	42.30	119.56	83.65
31903	71.98	11.17	13.78	40.78	51.13	84.02	18.26	93.44	26.85	121.88	57.79	88.73	40.84	122.86	83.41
31904	71.15	10.98	13.78	40.10	49.36	83.53	17.31	86.59	27.61	114.43	54.57	83.94	38.96	126.24	83.91
31905	70.34	10.78	13.78	38.07	47.21	82.69	17.47	79.74	28.63	105.63	50.87	80.92	36.59	128.46	85.25
31906	78.00	12.99	13.78	43.78	14.64	73.79	49.73	135.69	33.98	135.08	34.30	125.19	47.62	119.07	81.44
31907	77.09	12.95	13.78	31.75	22.01	75.07	47.93	130.11	29.80	132.77	38.66	124.99	47.68	115.51	82.44
31908	76.19	12.88	13.78	24.70	28.52	77.01	43.30	122.99	27.51	130.82	42.51	122.50	45.82	111.25	82.91
31909	75.30	12.77	13.78	23.61	34.45	78.98	38.65	116.32	26.59	127.80	46.27	118.31	44.49	108.87	83.19
31910	74.41	12.64	13.78	25.51	39.12	81.04	33.64	109.42	26.55	123.91	48.95	112.72	43.21	107.61	82.95
31911	73.54	12.47	13.78	28.22	41.74	82.95	28.41	102.79	26.97	119.37	49.55	106.05	41.45	108.36	82.06
31912	72.68	12.27	13.78	30.15	42.69	84.19	24.38	96.76	27.61	113.65	48.63	99.27	39.70	111.18	81.44
31913	71.84	12.04	13.78	31.30	42.73	84.57	21.63	90.70	28.45	107.29	46.87	92.90	37.63	114.67	81.61
31914	71.01	11.78	13.78	31.42	42.28	84.35	19.98	84.60	29.58	100.23	44.67	87.44	35.17	118.00	82.68
31915	70.20	11.50	13.78	30.56	41.59	83.76	19.26	78.44	31.04	92.32	42.27	83.42	32.44	120.30	84.54
31916	77.98	14.13	13.78	47.57	12.59	75.16	43.62	129.13	27.74	128.15	30.17	129.72	39.62	110.40	70.18
31917	77.06	14.08	13.78	36.91	17.48	76.47	42.74	124.10	25.62	125.20	32.89	130.08	39.98	107.23	71.99
31918	76.14	13.99	13.78	28.96	22.46	78.05	40.25	118.17	25.01	121.81	35.26	128.31	39.50	104.07	73.29
31919	75.22	13.86	13.78	23.98	26.58	79.95	36.71	111.86	25.43	117.70	36.77	124.59	38.54	101.71	73.97
31920	74.32	13.69	13.78	22.09	29.63	81.91	33.04	105.82	26.37	112.72	37.31	119.38	37.57	101.12	74.29
31921	73.43	13.47	13.78	21.97	31.79	83.62	29.79	100.09	27.59	106.91	37.09	113.19	36.51	102.28	74.67
31922	72.56	13.21	13.78	22.65	33.36	84.82	26.98</								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
31949	68.71	11.44	13.78	22.97	38.34	83.54	20.93	67.26	37.87	67.44	33.31	82.10	23.23	113.38	88.45
31950	68.96	10.96	13.78	27.86	41.09	82.52	19.27	68.54	33.87	78.58	38.88	80.77	27.69	120.48	88.59
31951	67.77	11.36	13.78	18.30	38.12	83.62	22.46	60.27	44.16	51.60	29.28	82.59	17.18	103.63	91.43
31952	68.09	11.02	13.78	22.05	39.55	82.56	20.68	62.20	39.17	61.52	33.46	81.50	21.40	111.44	90.85
31953	68.41	10.69	13.78	26.23	41.48	81.83	19.42	64.09	35.14	71.98	38.52	81.07	25.59	118.60	90.10
31954	69.52	9.34	12.09	36.84	45.13	108.98	21.51	86.20	34.09	163.87	51.99	107.85	56.95	192.24	104.00
31955	68.72	9.31	12.09	33.72	45.58	110.47	21.75	80.11	33.94	148.47	48.16	115.63	54.62	192.09	108.07
31956	67.93	9.27	12.09	29.91	46.48	111.88	21.80	73.83	34.34	130.09	44.13	125.35	50.97	186.67	111.50
31957	69.40	10.01	12.09	33.33	43.98	111.73	21.66	85.38	35.01	148.42	47.16	108.51	54.32	179.84	106.79
31958	68.71	9.91	12.09	30.98	44.59	112.65	21.95	79.97	35.16	136.29	44.17	113.51	52.01	179.89	110.05
31959	68.02	9.81	12.09	28.17	45.54	113.50	22.13	74.51	35.80	122.11	41.02	120.39	49.05	176.48	112.92
31960	69.29	10.69	12.09	29.85	42.54	114.39	22.65	84.59	36.22	133.23	42.15	109.88	50.54	167.52	108.19
31961	68.70	10.52	12.09	28.26	43.49	114.80	22.71	79.89	36.60	124.47	40.42	112.40	48.71	168.25	110.73
31962	68.11	10.35	12.09	26.35	44.45	115.24	22.86	75.04	37.39	114.47	37.89	116.89	46.17	166.38	113.44
31963	78.02	9.60	12.09	45.54	17.95	86.24	25.14	143.12	74.20	184.57	44.70	129.23	34.45	123.07	95.11
31964	77.16	9.60	12.09	39.76	22.20	87.79	24.64	139.47	64.67	188.50	47.86	128.82	38.18	126.79	90.56
31965	76.30	9.58	12.09	37.39	27.45	90.03	23.21	134.55	56.30	192.28	51.46	126.57	41.55	130.86	87.59
31966	75.44	9.57	12.09	37.17	32.87	92.39	21.52	129.43	49.41	195.08	55.34	122.69	44.96	136.75	86.15
31967	74.58	9.55	12.09	38.64	37.70	95.73	19.69	122.49	44.53	197.44	58.60	118.03	48.41	142.49	86.09
31968	73.73	9.52	12.09	39.13	41.59	98.92	19.17	116.84	40.24	196.71	60.90	112.88	51.18	151.39	87.21
31969	72.88	9.49	12.09	40.99	42.74	101.73	18.66	111.07	37.54	195.48	60.31	107.81	54.36	161.21	89.34
31970	72.03	9.46	12.09	41.18	44.16	103.81	19.30	104.74	36.33	191.67	59.73	103.61	56.50	171.05	92.23
31971	71.18	9.42	12.09	40.60	44.64	105.77	20.19	98.56	35.33	185.23	57.79	101.79	57.79	180.39	95.81
31972	70.34	9.37	12.09	39.14	44.86	107.44	20.97	92.34	34.62	175.99	55.01	103.06	57.97	187.98	99.95
31973	78.00	10.81	12.09	46.73	16.60	92.37	31.02	142.42	67.71	174.09	41.64	139.79	36.26	118.49	94.07
31974	77.11	10.79	12.09	40.22	21.43	94.03	30.62	138.83	59.96	176.86	45.01	139.63	39.95	121.32	91.64
31975	76.22	10.75	12.09	35.73	26.97	96.51	29.00	133.22	53.24	179.40	48.65	137.50	43.17	123.65	90.17
31976	75.33	10.70	12.09	34.84	32.22	99.05	26.96	127.87	47.22	180.89	51.77	133.50	45.89	128.43	89.64
31977	74.45	10.64	12.09	35.07	34.70	101.93	23.45	121.73	43.35	181.83	52.33	128.28	48.66	134.20	90.26
31978	73.58	10.56	12.09	35.56	38.48	104.57	22.19	115.38	40.83	180.46	54.29	122.17	51.28	141.58	91.65
31979	72.72	10.47	12.09	36.61	41.03	106.90	21.04	109.78	38.52	178.16	54.97	116.07	53.62	151.02	93.64
31980	71.86	10.37	12.09	36.77	42.23	108.39	20.77	103.51	36.99	173.83	53.94	110.44	55.10	160.18	96.31
31981	71.01	10.25	12.09	36.34	42.92	109.71	20.92	97.38	35.99	167.47	52.08	106.78	55.81	168.96	99.62
31982	70.17	10.12	12.09	35.17	43.40	110.78	21.28	91.19	35.34	158.83	49.57	105.98	55.55	176.06	103.39
31983	77.99	12.02	12.09	48.62	14.97	97.59	33.82	140.34	59.92	163.07	38.43	149.25	34.99	112.65	91.01
31984	77.06	11.99	12.09	41.49	19.29	99.50	33.57	136.50	53.72	164.74	41.16	149.51	38.62	114.38	90.25
31985	76.15	11.93	12.09	35.81	23.74	101.94	31.68	131.06	48.77	165.93	43.44	147.63	41.50	116.08	90.15
31986	75.24	11.85	12.09	33.71	28.73	104.63	30.00	125.51	44.92	166.15	46.23	143.78	44.44	119.67	90.70
31987	74.34	11.74	12.09	32.39	33.18	107.04	27.90	120.12	41.62	165.29	48.56	138.26	47.13	125.55	91.68
31988	73.45	11.62	12.09	32.26	36.10	109.16	25.77	113.89	39.42	163.56	49.10	131.58	49.23	132.23	93.13
31989	72.57	11.47	12.09	32.42	37.96	111.07	24.18	108.03	38.04	160.39	48.55	124.59	50.88	140.53	95.22
31990	71.70	11.29	12.09	32.45	39.38	112.39	23.23	102.11	37.02	155.78	47.44	117.86	51.92	149.22	97.95
31991	70.85	11.10	12.09	32.07	40.50	113.28	22.77	96.08	36.37	149.63	45.79	112.45	52.19	157.34	101.27
31992	70.01	10.88	12.09	31.14	41.50	113.91	22.63	89.95	36.13	141.63	43.75	109.54	51.68	163.91	105.04
31993	77.97	13.23	12.09	51.21	13.54	102.08	35.29	138.19	51.02	151.61	35.37	159.49	32.05	107.13	84.37
31994	77.02	13.19	12.09	44.03	17.10	104.28	35.30	134.02	46.50	152.27	37.52	160.26	35.34	107.74	84.99
31995	76.08	13.11	12.09	38.38	21.45	106.54	34.40	129.15	42.84	152.17	39.56	158.68	38.27	109.38	85.96
31996	75.15	13.00	12.09	34.03	25.39	108.97	32.58	123.62	40.25	151.28	40.85	154.96	40.72	112.23	87.20
31997	74.23	12.85	12.09	31.64	28.64	111.35	30.60	117.96	38.64	149.53	41.38	149.43	42.89	116.95	88.82
31998	73.32	12.67	12.09	30.29	31.52	113.40	28.89	112.33	37.58	146.68	41.55	142.54	44.79	123.36	90.95
31999	72.43	12.46	12.09	29.50	33.98	114.95	27.39	106.58	36.96	142.93	41.25	134.71	46.14	130.81	93.63
32000	71.55	12.22	12.09	28.94	36.00	116.02	26.21	100.74	36.78	138.19	40.43	126.72	46.85	138.64	96.87
32001	70.69	11.95	12.09	28.32	37.77	116.67	25.36	94.76	36.95	132.31	39.25	119.54	46.90	145.99	100.65
32002	69.85	11.64	12.09	27.43	39.41	117.02	24.79	88.64	37.46	125.08	37.79	114.39	46.27	151.92	104.76
32003	77.96	14.44	12.09	54.30	11.12	106.06	35.00	137.23	41.18	140.09	29.33	174.02	27.35	103.53	73.54
32004	76.99	14.39	12.09	47.65	13.75	108.29	35.43	132.83	38.10	139.95	30.91	175.17	29.97	103.24	75.12
32005	76.03	14.30	12.09	41.77	17.16	110.64	35.08	127.83	36.12	138.93	32.14	173.88	32.43	104.04	77.09
32006	75.07	14.15	12.09	37.04	20.70	112.99	34.24	122.47	35.15	137.03	33.01	170.25	34.75	106.35	79.43
32007	74.13	13.97	12.09	33.33	24.07	115.20	33.09	116.89	35.00	134.27	33.48	164.47	36.80	110.25	82.16
32008	73.21	13.74	12.09	30.57	27.14	117.13	31.82	111.20	35.44	130.75	33.56	156.88	38.45	115.64	85.32
32009	72.30	13.47	12.09	28.53	29.95	118.64	30.59	105.44	36.27	126.51	33.39	147.96	39.62	122.07	89.03
32010	71.41	13.15	12.09	26.96	32.56	119.64	29.44	99.56	37.35	121.60	33.06	138.37	40.23	128.86	93.29
32011	70.54	12.80	12.09	25.66	35.01	120.15	28.39	93.53	38.60	116.00	32.61	129.07	40.28	135.25	97.99
32012	69.70	12.41	12.09	24.46	37.36	120.25	27.45	87.35	39.94	109.55	32.07	121.28	39.78	140.44	102.89
32013	77.95	15.66	12.09	57.77	8.15	110.00	35.31	138.15	31.06	128.60	19.62	197.28	25.11	102.91	60.35
32014	76.96	15.60	12.09	51.70	9.97	112.16	36.10	133.37	29.92	127.83	20.86	198.74	26.24	101.53	62.90
32015	75.98	15.48	12.09	46.03	12.91	114.44	36.34	128.06	30.19	126.14	21.91	197.34	27.57	101.27	65.96
32016	75.01	15.31	12.09	40.94	16.22	116.77	36.13	122.41	31.49	123.56	22.76	193.15	29.01	102.45	69.45
32017	74.05	15.09	12.09	36.52	19.60	119.00	35.61	116.58	33.43	120.16	23.45	186.35	30.44	105.20	73.39
32018	73.10	14.81	12.09	32.72	22.93	120.95	34.87	110.65	35.67	116.06	24.04	177.27	31.69	109.36	77.82
32019	72.18	14.48	12.09	29.47	26.19	122.48	33.96	104.							



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
32047	68.93	10.78	10.41	36.08	43.32	146.86	28.37	95.87	48.33	189.09	36.74	138.31	76.38	208.17	129.86
32048	68.32	10.60	10.41	34.29	45.41	148.35	28.32	90.99	47.47	180.31	34.89	144.02	75.93	212.69	134.02
32049	67.71	10.42	10.41	32.06	47.59	149.93	28.28	85.92	46.93	168.89	32.44	154.10	74.24	213.89	138.20
32050	78.00	9.64	10.41	51.59	19.29	108.32	21.77	147.46	97.19	213.85	48.33	155.48	37.54	110.36	111.11
32051	77.11	9.63	10.41	48.91	21.04	110.22	22.28	144.73	89.87	221.94	50.49	155.66	43.26	118.74	107.08
32052	76.21	9.62	10.41	47.14	23.69	112.57	22.43	141.25	82.97	229.61	52.58	153.97	48.92	128.63	104.00
32053	75.32	9.60	10.41	46.39	26.64	115.45	22.37	137.00	76.71	236.77	54.28	150.60	54.53	139.98	102.13
32054	74.43	9.58	10.41	46.44	29.59	118.47	22.41	132.49	71.10	242.91	55.49	145.70	60.02	153.32	101.56
32055	73.55	9.55	10.41	46.73	32.31	121.66	22.55	127.40	66.46	248.12	56.01	139.75	65.47	167.95	102.44
32056	72.66	9.52	10.41	47.11	34.98	124.88	23.08	122.01	62.42	251.54	55.96	133.42	70.45	183.79	104.64
32057	71.78	9.48	10.41	47.27	37.22	128.11	23.75	116.44	58.75	252.89	54.82	127.79	75.04	200.27	108.11
32058	70.90	9.44	10.41	46.91	39.36	131.27	24.53	110.61	55.51	251.40	52.77	124.44	78.93	216.45	112.79
32059	70.03	9.39	10.41	45.82	41.51	134.55	25.29	104.60	52.50	246.06	49.78	125.66	81.86	231.22	118.48
32060	77.98	10.92	10.41	52.68	17.81	116.85	25.82	148.39	89.41	199.03	44.84	168.11	36.57	106.61	107.15
32061	77.05	10.89	10.41	48.95	19.62	119.04	26.29	145.21	83.02	205.76	46.67	168.68	42.59	113.35	104.62
32062	76.12	10.85	10.41	46.46	22.42	121.47	26.32	141.43	77.05	211.97	48.37	167.10	48.44	121.91	102.98
32063	75.20	10.80	10.41	44.61	25.56	124.20	26.02	136.89	71.82	217.56	49.75	163.56	54.20	132.03	102.47
32064	74.29	10.73	10.41	43.97	28.94	127.02	25.87	131.96	67.11	222.24	50.87	158.27	59.69	144.05	103.01
32065	73.39	10.65	10.41	43.57	31.76	129.80	25.61	126.73	62.94	225.94	50.97	151.65	64.95	157.68	104.70
32066	72.49	10.55	10.41	43.50	34.32	132.43	25.67	121.07	59.43	228.14	50.31	144.28	69.75	172.30	107.61
32067	71.60	10.44	10.41	43.30	36.71	135.00	25.89	115.29	56.30	228.55	48.95	137.24	74.02	187.57	111.63
32068	70.72	10.32	10.41	42.75	39.00	137.44	26.27	109.27	53.48	226.48	46.86	132.03	77.51	202.47	116.65
32069	69.85	10.18	10.41	41.64	41.32	139.94	26.68	103.08	50.95	221.20	44.15	130.92	79.99	216.00	122.49
32070	77.97	12.20	10.41	54.41	16.25	125.12	29.29	148.63	80.12	183.72	41.29	181.82	33.57	102.35	101.30
32071	77.00	12.16	10.41	50.08	18.01	127.48	29.80	145.13	74.79	188.97	42.79	182.78	39.57	107.55	100.23
32072	76.04	12.10	10.41	46.74	20.88	129.99	29.90	141.03	69.90	193.62	44.13	181.39	45.39	114.65	99.95
32073	75.10	12.01	10.41	43.99	24.05	132.57	29.56	136.33	65.56	197.57	44.96	177.78	50.99	123.59	100.55
32074	74.16	11.90	10.41	42.31	27.16	135.15	29.11	131.13	61.90	200.77	45.19	172.17	56.32	134.25	102.17
32075	73.24	11.76	10.41	41.17	30.19	137.58	28.72	125.70	58.72	202.94	44.98	164.89	61.34	146.62	104.79
32076	72.32	11.60	10.41	40.36	33.07	139.73	28.46	119.93	55.92	203.97	44.21	156.47	65.88	160.01	108.41
32077	71.42	11.42	10.41	39.64	35.75	141.69	28.33	113.94	53.49	203.51	42.79	147.88	69.82	173.88	113.01
32078	70.54	11.21	10.41	38.77	38.33	143.50	28.32	107.74	51.40	201.04	40.84	140.59	73.00	187.42	118.49
32079	69.67	10.98	10.41	37.55	40.92	145.26	28.35	101.41	49.63	195.93	38.53	136.78	75.30	199.66	124.61
32080	77.95	13.48	10.41	56.82	14.40	132.99	32.02	148.74	69.15	168.40	36.79	197.97	28.68	98.53	92.98
32081	76.96	13.43	10.41	52.24	15.99	135.44	32.65	144.95	64.83	172.21	37.96	198.32	34.23	102.20	93.13
32082	75.98	13.35	10.41	48.13	18.65	138.00	32.81	140.51	61.14	175.35	38.78	199.15	39.65	107.75	94.10
32083	75.00	13.23	10.41	44.81	21.83	140.51	32.67	135.60	58.06	177.76	39.25	194.49	44.93	115.31	95.91
32084	74.05	13.07	10.41	42.07	25.16	142.85	32.33	130.27	55.53	179.40	39.30	188.47	49.96	124.72	98.59
32085	73.10	12.88	10.41	39.92	28.40	144.94	31.86	124.59	53.51	180.26	38.83	180.39	54.62	135.63	102.18
32086	72.17	12.66	10.41	38.21	31.49	146.74	31.41	118.64	51.93	180.17	37.90	170.75	58.84	147.59	106.70
32087	71.26	12.40	10.41	36.75	34.50	148.22	31.01	112.46	50.67	178.93	36.62	160.39	62.51	159.98	112.08
32088	70.37	12.11	10.41	35.35	37.44	149.47	30.64	106.08	49.69	176.19	35.04	150.70	65.49	172.07	118.16
32089	69.50	11.79	10.41	33.84	40.38	150.56	30.30	99.56	48.95	171.42	33.23	143.81	67.66	182.97	124.64
32090	77.94	14.76	10.41	59.81	12.23	140.34	34.51	149.20	56.39	153.50	30.51	218.65	23.45	95.96	82.25
32091	76.92	14.70	10.41	55.16	13.60	142.90	35.29	145.00	53.21	156.02	31.49	220.44	27.78	97.94	83.55
32092	75.92	14.60	10.41	50.76	16.19	145.45	35.67	140.25	50.90	157.81	32.13	219.37	32.29	101.94	85.72
32093	74.92	14.45	10.41	46.73	19.38	147.89	35.70	135.02	49.40	158.86	32.39	215.44	36.80	107.97	88.74
32094	73.94	14.25	10.41	43.19	22.79	150.11	35.48	129.41	48.60	159.20	32.30	208.74	41.21	115.89	92.62
32095	72.98	14.01	10.41	40.08	26.26	152.01	35.08	123.49	48.31	158.82	31.92	199.52	45.38	125.31	97.36
32096	72.04	13.72	10.41	37.38	29.71	153.51	34.55	117.30	48.38	157.71	31.29	188.21	49.23	135.74	102.92
32097	71.11	13.39	10.41	34.99	33.09	154.61	33.92	110.89	48.67	155.76	30.49	175.61	52.66	146.57	109.21
32098	70.21	13.01	10.41	32.84	36.42	155.37	33.23	104.30	49.07	152.80	29.56	163.03	55.57	157.15	116.01
32099	69.34	12.60	10.41	30.84	39.71	155.85	32.48	97.59	49.50	148.46	28.59	152.58	57.84	166.70	122.97
32100	77.93	16.04	10.41	63.20	9.96	147.12	37.18	150.10	42.59	139.42	21.59	246.05	21.74	95.00	71.00
32101	76.90	15.98	10.41	58.60	11.04	149.73	38.09	145.42	41.06	140.86	22.46	248.22	23.60	95.20	73.49
32102	75.87	15.86	10.41	54.02	13.57	152.30	38.66	140.22	40.82	141.55	23.16	247.05	26.08	97.49	76.88
32103	74.86	15.68	10.41	49.59	16.85	154.70	38.91	134.60	41.60	141.50	23.67	242.48	29.00	101.89	81.09
32104	73.86	15.44	10.41	45.38	20.47	156.84	38.85	128.63	43.08	140.75	24.00	234.59	32.16	108.22	86.09
32105	72.87	15.14	10.41	41.44	24.20	158.61	38.52	122.36	44.93	139.34	24.19	223.59	35.40	116.07	91.85
32106	71.91	14.79	10.41	37.79	27.95	159.93	37.94	115.87	46.90	137.30	24.29	209.93	38.57	124.94	98.32
32107	70.98	14.38	10.41	34.44	31.68	160.77	37.13	109.19	48.78	134.66	24.34	194.38	41.58	134.20	105.37
32108	70.07	13.92	10.41	31.42	35.36	161.14	36.12	102.38	50.45	131.38	24.36	178.23	44.37	143.24	112.79
32109	69.19	13.41	10.41	28.72	38.97	161.11	34.94	95.49	51.80	127.49	24.39	163.61	46.85	151.41	120.18
32110	68.12	13.00	10.41	26.34	42.61	161.14	33.68	88.57	53.19	124.97	24.36	151.54	49.84	162.21	127.12
32111	67.11	12.59	10.41	24.15	46.25	161.14	32.42	81.66	54.58	122.74	24.36	140.00	53.33	172.84	134.12
32112	66.24	12.16	10.41	22.15	50.00	161.14	31.15	75.13	56.07	120.74	24.36	128.00	56.84	183.44	141.43
32113	65.32	11.72	10.41	20.34	53.85	161.14	29.88	69.10	57.66	118.94	24.36	115.00	60.44	193.84	148.79
32114	64.43	11.27	10.41	18.71	57.78	161.14	28.61	63.67	59.35	117.44	24.36	102.00	64.15	203.84	156.14
32115	63.57	10.81	10.41	17.24	61.79	161.14	27.44	58.66	61.14	115.94	24.36	88.00	67.86	213.34	163.51
32116	62.74	10.34	10.41	15.92	65.94	161.14	26.36	54.63	63.03	114.44	24.36	73.00	71.57	222.34	170.81
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Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{YZ}$ [kPa]	$\tau_{ZX}$ [kPa]	$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{YZ}$ [kPa]	$\tau_{ZX}$ [kPa]
32145	70.63	9.46	8.72	60.41	39.12	156.61	29.92	124.55	77.68	336.46	50.07	147.53	106.29	244.07	128.69
32146	69.72	9.41	8.72	60.65	42.32	161.17	31.23	118.00	73.37	342.03	46.27	145.93	114.01	268.25	135.68
32147	77.96	11.02	8.72	57.49	20.83	142.23	26.27	162.91	110.70	220.82	47.31	199.87	42.23	98.48	122.23
32148	76.99	10.99	8.72	55.67	21.45	144.30	27.10	160.02	105.15	231.71	48.60	200.90	49.78	108.03	119.53
32149	76.03	10.95	8.72	54.31	22.97	146.81	27.78	156.37	99.84	242.66	49.60	199.79	57.53	119.67	117.64
32150	75.07	10.89	8.72	53.61	25.14	149.60	28.38	152.06	94.82	253.62	50.17	196.50	65.45	133.41	116.73
32151	74.13	10.82	8.72	53.34	27.67	152.59	28.96	147.13	90.14	264.50	50.16	191.11	73.56	149.15	117.02
32152	73.19	10.73	8.72	53.55	30.45	155.68	29.62	141.64	85.79	275.09	49.55	183.82	81.78	166.75	118.65
32153	72.26	10.63	8.72	53.96	33.36	158.83	30.37	135.71	81.67	285.12	48.21	175.07	90.06	186.05	121.74
32154	71.34	10.52	8.72	54.44	36.38	162.02	31.24	129.38	77.74	294.06	46.09	165.76	98.27	206.75	126.42
32155	70.42	10.39	8.72	54.75	39.56	165.37	32.18	122.77	73.95	301.14	43.24	157.70	106.25	228.47	132.71
32156	69.52	10.24	8.72	54.64	42.95	168.96	33.14	116.01	70.23	305.27	39.86	154.11	113.68	250.58	140.56
32157	77.94	12.37	8.72	59.10	19.25	154.28	29.88	163.33	100.32	202.15	43.25	217.42	37.88	94.13	114.67
32158	76.94	12.33	8.72	56.48	19.89	156.52	30.70	160.07	95.48	211.01	44.16	218.81	45.50	101.86	113.17
32159	75.94	12.26	8.72	54.22	21.55	159.01	31.34	156.08	90.97	219.75	44.68	217.77	53.27	111.92	112.56
32160	74.96	12.17	8.72	52.50	23.94	161.64	31.84	151.44	86.81	228.35	44.75	214.26	61.18	124.20	112.99
32161	73.99	12.05	8.72	51.21	26.77	164.28	32.27	146.21	82.98	236.75	44.31	208.31	69.20	138.53	114.59
32162	73.03	11.90	8.72	50.37	29.83	166.87	32.69	140.45	79.45	244.84	43.25	200.13	77.29	154.64	117.49
32163	72.08	11.74	8.72	49.84	33.03	169.37	33.15	134.25	76.17	252.39	41.58	190.13	85.37	172.28	121.82
32164	71.15	11.54	8.72	49.49	36.36	171.80	33.67	127.67	73.08	259.03	39.36	179.19	93.35	191.11	127.61
32165	70.23	11.33	8.72	49.13	39.81	174.24	34.23	120.84	70.12	264.13	36.73	169.03	101.04	210.73	134.85
32166	69.33	11.08	8.72	48.57	43.44	176.82	34.79	113.87	67.28	266.73	34.10	162.78	108.27	230.53	143.40
32167	77.93	13.72	8.72	61.48	17.31	166.41	33.32	163.65	87.75	183.84	38.28	238.26	31.14	90.22	105.09
32168	76.89	13.67	8.72	58.26	17.97	168.79	34.15	159.99	83.74	190.65	38.90	240.06	38.31	95.90	104.79
32169	75.87	13.58	8.72	55.27	19.78	171.25	34.78	155.65	80.21	197.18	39.11	239.09	45.65	104.18	105.48
32170	74.86	13.45	8.72	52.57	22.40	173.68	35.21	150.68	77.14	203.43	38.84	235.26	53.12	114.83	107.26
32171	73.86	13.29	8.72	50.26	25.50	175.98	35.50	145.14	74.50	209.39	38.07	228.61	60.69	127.56	110.22
32172	72.88	13.09	8.72	48.31	28.87	178.08	35.71	139.10	72.20	214.99	36.83	219.29	68.32	142.02	114.45
32173	71.92	12.85	8.72	46.69	32.41	179.95	35.87	132.64	70.15	220.11	35.16	207.70	75.94	157.86	119.98
32174	70.98	12.58	8.72	45.33	36.06	181.62	36.01	125.82	68.30	224.50	33.18	194.67	83.46	174.70	126.82
32175	70.05	12.27	8.72	44.13	39.81	183.18	36.14	118.75	66.55	227.72	31.16	181.86	90.73	192.09	134.84
32176	69.15	11.93	8.72	42.94	43.71	184.75	36.24	111.56	64.85	229.02	29.55	172.33	97.52	209.47	143.82
32177	77.92	15.07	8.72	64.50	15.06	178.34	36.69	163.97	72.75	166.57	31.86	263.56	23.35	87.23	93.82
32178	76.86	15.01	8.72	60.91	15.72	180.81	37.56	159.87	69.74	171.50	32.35	265.81	29.29	90.67	94.77
32179	75.81	14.90	8.72	57.34	17.70	183.22	38.19	155.13	67.51	176.03	32.46	264.84	35.59	96.95	96.83
32180	74.77	14.74	8.72	53.90	20.59	185.46	38.59	149.80	65.97	180.16	32.18	260.53	42.14	105.82	100.02
32181	73.76	14.53	8.72	50.65	24.00	187.43	38.79	143.93	64.99	183.90	31.49	252.89	48.88	116.88	104.38
32182	72.75	14.28	8.72	47.64	27.70	189.08	38.81	137.59	64.43	187.23	30.45	242.05	55.73	129.67	109.92
32183	71.77	13.97	8.72	44.91	31.56	190.37	38.68	130.85	64.12	190.11	29.13	228.39	62.64	143.73	116.61
32184	70.82	13.62	8.72	42.46	35.51	191.33	38.43	123.80	63.94	192.43	27.74	212.72	69.55	158.60	124.36
32185	69.89	13.23	8.72	40.28	39.54	192.05	38.07	116.52	63.74	193.97	26.57	196.64	76.32	173.84	133.01
32186	68.98	12.79	8.72	38.34	43.65	192.65	37.63	109.15	63.43	194.22	26.18	183.16	82.72	188.94	142.20
32187	77.91	16.43	8.72	68.02	12.83	189.70	40.19	164.28	55.86	150.82	23.86	294.42	19.33	85.45	82.78
32188	76.83	16.36	8.72	64.20	13.47	192.20	41.09	159.68	54.28	154.19	24.36	297.11	22.23	86.50	85.09
32189	75.76	16.23	8.72	60.23	15.65	194.54	41.75	154.48	53.91	157.06	24.64	296.04	26.11	90.62	88.53
32190	74.71	16.04	8.72	56.20	18.82	196.60	42.15	148.74	54.53	159.45	24.68	291.02	30.73	97.61	93.05
32191	73.67	15.79	8.72	52.20	22.53	198.29	42.27	142.51	55.83	161.35	24.47	282.04	35.89	106.99	98.64
32192	72.65	15.47	8.72	48.30	26.52	199.55	42.14	135.85	57.51	162.77	24.03	269.20	41.42	118.19	105.24
32193	71.65	15.10	8.72	44.57	30.65	200.36	41.74	128.84	59.30	163.72	23.45	252.88	47.24	130.61	112.80
32194	70.67	14.67	8.72	41.08	34.85	200.72	41.10	121.57	60.99	164.15	22.88	233.89	53.28	143.72	121.18
32195	69.73	14.19	8.72	37.90	39.09	200.72	40.24	114.13	62.41	164.04	22.63	213.83	59.46	157.03	130.16
32196	68.82	13.65	8.72	35.07	43.36	200.46	39.22	106.64	63.43	163.46	23.17	195.69	65.61	170.04	139.34
32197	64.64	9.42	8.72	27.82	70.66	195.79	32.97	72.49	56.06	155.43	71.70	327.52	102.83	224.95	171.58
32198	65.18	10.25	8.72	26.77	65.65	197.24	33.33	76.33	59.43	148.32	55.87	280.67	94.40	215.81	169.84
32199	65.78	11.05	8.72	28.20	60.97	198.45	34.51	80.95	61.96	154.42	44.35	238.06	89.00	209.92	167.32
32200	65.47	9.37	8.72	35.81	64.01	191.98	34.10	83.01	55.52	207.84	48.65	300.40	117.21	284.07	174.79
32201	65.85	10.08	8.72	35.25	61.49	192.86	34.67	84.70	57.97	202.39	44.60	259.83	111.21	262.30	174.36
32202	66.27	10.78	8.72	34.16	58.43	193.78	35.12	86.92	60.09	192.72	39.20	224.59	103.57	240.41	170.38
32203	66.30	9.31	8.72	46.05	58.62	185.59	34.61	91.71	57.48	269.90	37.43	256.91	125.72	318.28	170.90
32204	66.52	9.92	8.72	43.03	57.36	187.09	35.16	91.74	58.66	249.45	36.50	230.99	121.20	288.98	171.68
32205	66.75	10.52	8.72	40.20	55.86	188.76	35.55	92.52	59.90	229.38	35.17	209.51	114.65	263.13	169.29
32206	67.98	13.07	8.72	32.72	47.58	200.02	38.10	99.49	64.02	161.71	25.27	184.60	71.40	182.25	148.38
32207	68.18	12.33	8.72	36.77	47.52	193.08	37.10	102.49	63.05	193.19	27.30	177.10	88.31	202.63	151.05
32208	68.39	11.61	8.72	41.81	47.20	186.18	36.23	105.35	63.45	228.10	29.23	170.33	102.58	223.96	152.16
32209	67.19	12.45	8.72	30.80	51.89	199.45	36.97	92.81	64.00	159.34	29.25	185.98	77.13	193.10	156.37
32210	67.48	11.87	8.72	35.53	51.17	193.42	36.55	96.63	62.43	192.29	29.97	181.12	93.36	214.74	158.68
32211	67.78	11.30	8.72	40.82	50.27	187.47	36.10	100.24	62.27	226.82	30.36	176.06	106.29	235.62	159.05
32212	66.45	11.78	8.72	29.19	56.38	198.95	35.79	86.54	63.46	156.11	35.68	203.82	82.72	202.53	162.75
32213	66.81	11.38	8.72	34.30	55.04	193.94	35.91	91.08	61.57	189.75	34.36	197.45	98.10	225.67	165.21
32214	67.18	10.98	8.72	39.57	53.37	188.92	35.78	95.31	61.06	222.85	32.32	190.34	109.44	245.84	164.92
32215	68.50	9.39	7.03	83.84	49.5										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
32243	69.20	10.31	7.03	71.52	46.82	197.66	40.73	129.08	91.75	407.87	37.92	176.44	155.56	266.82	154.83
32244	77.92	12.54	7.03	62.83	23.81	184.61	32.09	180.91	120.41	215.50	44.68	253.53	43.48	85.24	129.74
32245	76.88	12.50	7.03	61.13	23.97	186.64	33.08	177.70	116.06	227.63	45.21	255.28	52.45	93.86	127.83
32246	75.84	12.43	7.03	59.73	25.04	189.04	34.02	173.66	111.97	240.39	45.29	254.50	61.96	105.16	126.75
32247	74.82	12.33	7.03	58.70	26.91	191.69	34.94	168.80	108.13	253.84	44.83	251.05	72.07	118.87	126.66
32248	73.81	12.20	7.03	58.12	29.41	194.46	35.87	163.20	104.51	268.09	43.77	244.88	82.85	134.77	127.77
32249	72.82	12.05	7.03	58.01	32.41	197.27	36.87	156.89	101.08	283.15	42.09	236.02	94.39	152.74	130.27
32250	71.84	11.87	7.03	58.37	35.82	200.05	37.97	149.97	97.76	299.05	39.82	224.73	106.77	172.75	134.38
32251	70.87	11.67	7.03	59.18	39.57	202.82	39.24	142.54	94.49	315.68	37.20	211.64	120.09	194.85	140.33
32252	69.92	11.44	7.03	60.39	43.71	205.63	40.71	134.72	91.18	332.84	34.79	198.31	134.43	219.20	148.33
32253	68.99	11.19	7.03	61.94	48.27	208.63	42.40	126.71	87.76	350.03	33.95	188.08	149.99	246.10	158.59
32254	77.91	13.97	7.03	65.33	21.93	202.05	36.02	180.71	106.90	195.31	39.81	278.78	35.36	80.92	119.30
32255	76.83	13.91	7.03	62.86	22.14	204.15	36.96	177.13	103.26	204.71	40.00	280.91	43.86	87.37	118.55
32256	75.76	13.81	7.03	60.48	23.42	206.42	37.80	172.73	100.05	214.39	39.72	280.05	52.84	96.93	118.80
32257	74.71	13.68	7.03	58.31	25.61	208.73	38.54	167.55	97.24	224.43	38.91	276.04	62.37	109.19	120.17
32258	73.68	13.50	7.03	56.43	28.50	210.95	39.22	161.66	94.75	234.88	37.55	268.83	72.50	123.74	122.81
32259	72.66	13.29	7.03	54.88	31.90	213.02	39.87	155.10	92.51	245.79	35.71	258.45	83.31	140.26	126.87
32260	71.66	13.04	7.03	53.74	35.70	214.90	40.54	147.97	90.43	257.17	33.55	245.18	94.88	158.55	132.49
32261	70.69	12.76	7.03	53.02	39.85	216.61	41.27	140.35	88.39	268.98	31.54	229.71	107.28	178.52	139.78
32262	69.73	12.43	7.03	52.75	44.34	218.23	42.13	132.39	86.31	281.02	30.67	213.70	120.59	200.18	148.86
32263	68.80	12.08	7.03	52.89	49.27	219.90	43.15	124.24	84.06	292.84	32.66	200.59	134.84	223.63	159.78
32264	77.90	15.39	7.03	68.61	19.37	220.03	39.90	180.45	90.30	176.78	33.66	308.71	25.27	77.32	107.26
32265	76.79	15.32	7.03	65.57	19.67	222.15	40.80	176.44	87.57	183.69	33.72	311.27	32.58	81.19	107.81
32266	75.70	15.21	7.03	62.45	21.24	224.22	41.53	171.65	85.58	190.60	33.37	310.29	40.43	88.70	109.53
32267	74.63	15.04	7.03	59.33	23.83	226.11	42.10	166.13	84.21	197.57	32.57	305.59	48.81	99.33	112.48
32268	73.57	14.82	7.03	56.31	27.15	227.72	42.52	159.94	83.34	204.62	31.34	297.07	57.77	112.47	116.74
32269	72.53	14.54	7.03	53.48	30.97	229.01	42.80	153.13	82.80	211.78	29.77	284.78	67.35	127.59	122.35
32270	71.51	14.22	7.03	50.91	35.15	229.94	42.98	145.79	82.46	219.08	28.13	269.00	77.60	144.28	129.37
32271	70.52	13.85	7.03	48.68	39.61	230.55	43.10	138.02	82.13	226.52	27.04	250.51	88.60	162.28	137.80
32272	69.56	13.44	7.03	46.89	44.37	230.93	43.22	129.95	81.69	234.09	27.59	231.01	100.35	181.44	147.62
32273	68.62	12.98	7.03	45.59	49.47	231.24	43.39	121.75	80.98	241.42	31.30	214.08	112.79	201.74	158.68
32274	77.89	16.81	7.03	72.48	16.45	237.72	43.79	180.01	70.68	160.50	26.35	343.49	17.87	74.72	95.38
32275	76.77	16.74	7.03	69.04	16.91	239.80	44.65	175.52	69.21	165.36	26.48	346.53	22.11	75.65	97.37
32276	75.66	16.61	7.03	65.37	18.87	241.61	45.31	170.31	68.92	170.03	26.36	345.41	27.52	80.76	100.63
32277	74.56	16.40	7.03	61.55	21.94	243.05	45.74	164.42	69.60	174.50	25.95	339.87	33.86	89.60	105.14
32278	73.48	16.14	7.03	57.66	25.72	244.05	45.93	157.92	70.96	178.79	25.24	329.80	40.97	101.36	110.88
32279	72.42	15.81	7.03	53.78	29.92	244.56	45.88	150.87	72.70	182.89	24.31	315.23	48.80	115.26	117.85
32280	71.38	15.42	7.03	50.03	34.41	244.58	45.59	143.36	74.57	186.82	23.40	296.45	57.33	130.66	126.00
32281	70.37	14.96	7.03	46.51	39.10	244.15	45.11	135.50	76.32	190.60	23.05	274.28	66.61	147.10	135.24
32282	69.40	14.45	7.03	43.34	44.00	243.38	44.47	127.41	77.77	194.29	24.25	250.49	76.66	164.29	145.45
32283	68.46	13.89	7.03	40.66	49.14	242.43	43.76	119.23	78.76	198.26	28.26	228.78	87.45	182.05	156.34
32284	64.15	9.44	7.03	38.33	91.48	246.31	44.73	86.98	65.13	226.48	147.82	508.69	177.44	322.15	214.87
32285	64.71	10.32	7.03	44.80	83.82	243.35	45.95	89.30	71.87	263.88	123.19	406.74	174.23	302.60	206.83
32286	65.32	11.15	7.03	38.55	74.88	240.80	43.38	92.08	75.89	224.30	90.50	313.63	144.62	264.02	198.10
32287	65.01	9.38	7.03	69.00	79.88	235.35	49.71	100.69	68.29	415.33	101.04	422.83	211.13	436.88	220.64
32288	65.40	10.14	7.03	59.56	74.82	232.43	48.38	97.41	71.68	355.39	86.47	337.05	196.31	356.24	215.31
32289	65.83	10.87	7.03	50.49	70.40	232.62	46.42	97.98	74.81	297.96	76.30	279.27	174.07	298.91	203.68
32290	65.87	9.32	7.03	82.71	68.73	219.86	48.89	106.12	73.88	494.19	60.54	308.71	210.78	433.21	205.16
32291	66.09	9.97	7.03	71.03	67.54	221.97	48.75	103.94	74.77	422.23	62.07	274.78	203.58	372.04	205.87
32292	66.33	10.60	7.03	60.43	65.88	224.52	47.59	103.68	76.12	356.61	61.63	247.61	188.10	321.49	199.78
32293	67.58	13.27	7.03	38.66	54.56	241.41	43.10	111.42	79.21	201.68	36.67	216.18	98.71	200.30	167.53
32294	67.80	12.50	7.03	44.93	54.56	231.45	43.64	114.34	80.09	248.22	39.14	206.25	125.29	221.96	169.98
32295	68.02	11.74	7.03	53.29	53.89	221.47	44.14	117.24	81.97	302.71	38.27	196.39	147.60	245.39	170.67
32296	66.77	12.62	7.03	37.40	60.37	240.52	42.66	104.18	78.95	205.51	48.48	221.34	111.07	219.09	178.57
32297	67.08	12.01	7.03	45.06	59.57	231.69	44.11	107.89	78.86	256.85	49.14	212.19	138.39	242.34	181.01
32298	67.38	11.42	7.03	54.14	58.07	222.98	45.08	111.58	80.04	313.13	45.70	202.64	159.25	265.46	180.81
32299	66.00	11.92	7.03	36.89	67.05	240.26	42.57	97.56	78.00	210.16	66.03	252.72	124.96	239.74	188.79
32300	66.39	11.50	7.03	45.75	65.19	232.47	44.95	101.96	77.17	266.22	62.82	237.04	153.81	265.01	192.09
32301	66.76	11.08	7.03	55.25	62.31	224.88	46.15	106.31	77.91	323.43	53.30	221.89	172.26	287.30	191.08
32302	68.17	9.41	5.34	112.68	54.05	219.59	49.81	135.49	114.66	644.44	43.01	181.29	218.32	296.76	166.39
32303	67.25	9.37	5.34	125.28	60.32	226.30	55.86	126.53	109.33	718.01	44.59	187.86	251.87	343.33	178.93
32304	66.34	9.33	5.34	140.87	68.19	234.23	63.75	118.91	103.17	807.16	55.25	220.41	294.20	403.99	197.18
32305	68.00	10.23	5.34	97.72	57.30	231.66	53.52	133.65	111.12	560.71	42.80	193.91	228.17	281.24	173.30
32306	67.20	10.11	5.34	106.35	63.33	236.75	58.87	125.70	106.82	611.76	51.13	200.11	259.06	317.46	186.05
32307	66.41	9.99	5.34	116.54	71.07	242.65	65.84	118.54	101.87	669.55	69.15	226.38	298.24	362.48	203.22
32308	67.84	11.05	5.34	81.01	60.46	244.51	54.82	132.02	107.78	466.56	49.64	207.54	221.83	261.85	178.27
32309	67.17	10.85	5.34	86.45	65.79	247.53	58.98	125.15	104.75	500.43	60.61	211.73	248.45	289.16	189.60
32310	66.50	10.64	5.34	93.37	73.16	251.28	63.90	118.51	101.13	541.13	82.64	231.13	277.04	321.57	204.25
32311	77.95	9.74	5.34	62.54	29.55	175.24	25.38	201.82	160.50	264.08	50.85	243.44	54.71	84.07	162.82
32312	76.95	9.73	5.34	63.62	29.52	176.93	26.51	199.30	155.74	284.82	52.37	244.94	63.84	94.45	158.89

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
32341	77.89	14.21	5.34	68.34	28.31	239.27	39.10	198.66	126.50	200.04	42.32	318.17	39.38	70.88	134.96
32342	76.76	14.15	5.34	66.19	28.31	241.07	40.11	195.16	123.30	211.22	42.23	320.42	48.83	76.83	133.83
32343	75.66	14.05	5.34	64.14	29.23	243.15	41.07	190.71	120.52	223.33	41.65	319.54	59.06	86.28	133.60
32344	74.57	13.90	5.34	62.27	31.05	245.40	42.01	185.34	118.12	236.49	40.54	315.33	70.24	98.61	134.38
32345	73.50	13.72	5.34	60.68	33.66	247.66	42.94	179.11	116.02	250.85	38.92	307.66	82.56	113.31	136.33
32346	72.44	13.50	5.34	59.51	36.97	249.83	43.93	172.07	114.13	266.61	36.96	296.47	96.26	130.02	139.61
32347	71.41	13.24	5.34	58.87	40.91	251.83	45.05	164.31	112.35	284.00	35.12	281.92	111.63	148.61	144.39
32348	70.40	12.93	5.34	58.93	45.46	253.64	46.42	155.93	110.57	303.33	34.48	264.59	129.07	169.12	150.89
32349	69.41	12.60	5.34	59.88	50.70	255.27	48.21	147.04	108.67	324.97	37.03	245.93	149.16	191.83	159.35
32350	68.45	12.22	5.34	61.90	56.87	256.82	50.65	137.82	106.50	349.29	45.54	229.29	172.74	217.34	170.13
32351	77.87	15.70	5.34	72.15	25.33	264.98	43.54	197.80	109.20	181.77	36.77	353.76	27.81	66.81	122.48
32352	76.73	15.63	5.34	69.33	25.44	266.69	44.44	193.90	106.82	189.95	36.52	356.46	36.05	70.06	122.66
32353	75.59	15.51	5.34	66.40	26.69	268.36	45.22	189.09	105.14	198.58	35.85	355.36	45.01	77.75	123.95
32354	74.48	15.33	5.34	63.43	28.97	269.89	45.86	183.42	104.07	207.74	34.74	350.23	54.80	89.10	126.42
32355	73.38	15.10	5.34	60.51	32.10	271.17	46.39	176.94	103.47	217.50	33.26	340.90	65.54	103.21	130.16
32356	72.30	14.81	5.34	57.76	35.91	272.12	46.83	169.71	103.18	227.94	31.65	327.35	77.42	119.45	135.25
32357	71.25	14.48	5.34	55.30	40.30	272.69	47.24	161.84	103.05	239.20	30.51	309.78	90.65	137.38	141.78
32358	70.22	14.09	5.34	53.30	45.23	272.89	47.72	153.41	102.92	251.47	31.08	288.91	105.51	156.85	149.84
32359	69.23	13.65	5.34	51.94	50.77	272.79	48.39	144.57	102.64	265.04	35.26	266.43	122.34	177.89	159.53
32360	68.26	13.17	5.34	51.45	57.05	272.49	49.43	135.47	102.06	280.02	44.97	246.13	141.51	200.84	170.96
32361	77.87	17.20	5.34	76.58	21.27	291.21	47.71	196.73	87.26	166.41	29.83	393.95	17.41	63.70	109.18
32362	76.70	17.12	5.34	73.31	21.59	292.72	48.53	192.37	85.98	172.18	29.66	397.15	22.93	63.48	110.82
32363	75.55	16.98	5.34	69.75	23.33	293.86	49.16	187.17	85.87	178.05	29.23	395.82	29.59	68.79	113.76
32364	74.41	16.77	5.34	65.97	26.23	294.55	49.57	181.18	86.72	184.04	28.51	389.66	37.25	78.87	118.00
32365	73.29	16.49	5.34	62.06	29.97	294.71	49.75	174.45	88.27	190.15	27.53	378.47	45.87	92.43	123.54
32366	72.19	16.14	5.34	58.13	34.29	294.31	49.71	167.06	90.23	196.40	26.49	362.23	55.50	108.36	130.41
32367	71.11	15.73	5.34	54.28	39.06	293.33	49.49	159.09	92.34	202.82	25.91	341.20	66.24	125.95	138.59
32368	70.07	15.25	5.34	50.66	44.22	291.83	49.12	150.67	94.38	209.50	26.80	316.17	78.26	144.78	148.07
32369	69.06	14.72	5.34	47.45	49.82	289.89	48.70	141.93	96.15	216.67	30.74	289.00	91.78	164.69	158.81
32370	68.09	14.12	5.34	44.90	55.98	287.72	48.39	133.04	97.47	225.11	39.24	263.82	107.03	185.68	170.73
32371	63.67	9.47	5.34	170.56	160.69	311.29	120.62	125.66	77.68	969.20	435.51	835.84	568.32	682.93	308.19
32372	64.23	10.38	5.34	69.48	120.26	284.77	73.41	99.61	89.67	402.57	257.04	515.65	307.07	380.80	258.66
32373	64.85	11.25	5.34	51.02	96.78	282.05	56.90	102.81	94.99	303.56	162.19	380.07	212.68	302.94	232.10
32374	64.56	9.40	5.34	173.21	100.53	264.00	91.06	116.04	86.13	992.53	155.60	449.86	432.06	581.82	267.42
32375	64.95	10.19	5.34	110.36	98.93	267.03	81.35	106.98	90.72	632.95	173.16	379.89	370.40	416.95	252.66
32376	65.38	10.96	5.34	71.71	90.08	269.79	65.89	107.79	95.20	420.14	143.48	317.04	275.87	327.86	228.89
32377	65.44	9.34	5.34	158.03	80.34	245.70	74.81	114.32	95.51	905.35	85.69	297.59	350.66	481.44	225.94
32378	65.67	10.01	5.34	121.39	81.84	252.33	73.99	112.32	96.16	697.20	104.01	283.14	339.12	401.28	226.60
32379	65.91	10.67	5.34	90.11	81.29	258.45	68.06	113.09	97.77	522.48	110.90	267.12	297.26	338.70	217.56
32380	67.19	13.48	5.34	43.29	62.95	285.41	48.42	124.44	98.24	234.13	54.47	248.92	124.15	208.05	183.41
32381	67.41	12.67	5.34	52.06	63.84	271.97	50.97	127.14	101.23	296.16	61.01	235.56	162.58	224.65	183.08
32382	67.65	11.87	5.34	64.70	63.07	258.11	53.44	129.74	104.37	373.37	59.35	221.56	196.35	242.28	181.45
32383	66.35	12.79	5.34	42.89	71.04	283.23	49.18	116.37	98.26	245.56	75.53	255.36	144.48	232.64	197.26
32384	66.67	12.16	5.34	54.21	71.06	271.35	53.43	119.77	100.00	317.01	80.86	240.69	187.25	249.99	195.98
32385	66.99	11.53	5.34	68.71	69.06	259.21	56.69	123.12	102.29	401.06	75.57	225.26	220.91	266.54	192.90
32386	65.56	12.06	5.34	43.83	81.41	281.80	51.35	108.90	97.46	259.73	107.27	295.40	170.97	262.76	212.35
32387	65.96	11.61	5.34	58.19	80.10	271.28	57.61	112.86	98.10	344.23	109.13	269.18	220.44	280.84	210.67
32388	66.35	11.18	5.34	74.28	75.50	260.59	61.41	116.83	99.87	434.55	92.56	243.91	253.57	295.76	205.91
32389	77.99	-3.10	17.16	8.58	8.02	14.24	68.94	76.99	17.61	68.02	27.33	22.66	73.77	84.46	44.02
32390	77.07	-3.10	17.16	10.33	48.96	14.35	67.53	76.65	28.82	66.95	55.64	26.90	78.54	94.52	54.26
32391	76.16	-3.10	17.16	14.01	88.55	14.61	65.47	77.48	52.19	64.93	92.10	32.47	83.44	108.11	74.72
32392	75.24	-3.10	17.16	17.46	121.74	14.89	60.87	80.89	82.25	61.46	123.55	38.19	84.53	125.35	103.47
32393	74.32	-3.10	17.16	18.91	138.21	13.91	49.58	91.09	123.54	54.48	138.63	40.58	75.19	149.07	143.44
32394	73.40	-3.10	17.16	17.05	66.31	12.83	22.22	110.13	203.59	38.39	66.87	53.35	41.38	178.76	214.79
32395	72.49	-3.10	17.16	48.17	25.70	31.92	76.90	118.07	316.55	96.87	30.81	70.56	79.85	221.20	322.85
32396	71.57	-3.10	17.16	208.99	81.99	10.97	375.54	65.53	217.71	367.52	81.67	70.40	380.90	182.51	220.80
32397	70.65	-3.10	17.16	155.50	73.44	16.49	246.53	40.71	66.41	266.98	94.79	37.37	248.91	123.87	67.14
32398	69.73	-3.10	17.16	116.35	68.81	15.07	176.91	25.99	26.09	186.81	109.23	26.60	178.21	89.27	27.16
32399	68.81	-3.10	17.16	86.55	64.85	13.97	132.34	17.59	11.90	123.15	117.42	21.72	133.07	67.04	14.86
32400	67.90	-3.10	17.16	64.73	61.84	13.56	100.99	12.58	6.46	75.44	119.94	20.33	101.32	50.41	12.35
32401	66.98	-3.10	17.16	47.95	59.95	13.45	76.39	9.09	4.87	42.31	117.74	20.39	76.38	35.61	12.79
32402	66.06	-3.10	17.16	34.04	58.67	13.37	55.39	6.33	5.22	23.63	110.98	20.45	55.15	21.26	13.64
32403	65.14	-3.10	17.16	21.46	57.65	13.04	36.13	4.33	7.31	15.84	100.13	18.57	35.94	8.12	14.58
32404	64.23	-3.10	17.16	9.23	56.87	12.10	17.99	3.69	12.80	8.52	85.78	12.44	19.07	4.74	16.84
32405	77.99	-2.50	17.16	14.83	5.38	6.00	41.74	34.00	12.27	82.40	7.33	8.12	45.41	42.10	28.08
32406	77.06	-2.50	17.16	14.44	37.47	10.15	41.00	34.38	18.54	77.86	37.70	12.40	48.57	52.32	34.52
32407	76.14	-2.50	17.16	14.12	67.72	13.82	39.32	36.53	38.80	69.25	67.75	16.13	50.75	65.69	51.82
32408	75.21	-2.50	17.16	12.25	91.93	15.68	35.03	42.99	64.08	54.56	91.92	17.60	48.96	83.99	76.05
32409	74.29	-2.50	17.16	11.45	93.83	12.21	25.56	59.39	99.03	30.93	94.14	12.42	39.37	111.84	109.50
32410	73.36	-2.50	17.16	16.53	43.07	14.62	18.44	87.28	192.94	19.76	46.74	43.36	25.54	146.43	199.22
32411	72.44	-2.50	17.16	40.35	19.17	28.22	76.87								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
32439	76.07	-2.50	15.47	26.04	12.66	26.39	23.69	63.92	16.05	128.68	38.52	25.26	26.47	112.49	37.98
32440	75.12	-2.50	15.47	26.30	14.83	28.02	27.19	67.45	41.24	131.98	41.76	26.23	30.85	131.75	57.28
32441	74.17	-2.50	15.47	34.88	19.90	25.92	35.38	71.35	73.52	141.19	46.38	26.10	40.19	146.30	85.04
32442	73.22	-2.50	15.47	53.17	26.34	24.60	68.75	68.51	96.36	161.46	52.01	38.02	73.50	151.86	104.08
32443	72.27	-2.50	15.47	66.80	35.23	28.87	109.27	57.09	87.70	166.39	62.26	71.31	112.99	147.94	92.55
32444	71.31	-2.50	15.47	52.79	41.53	36.74	101.31	52.19	79.34	138.43	74.88	94.62	103.48	173.05	82.47
32445	70.36	-2.50	15.47	60.22	48.61	41.67	128.49	48.00	61.43	161.80	82.83	93.89	129.90	190.09	64.35
32446	69.41	-2.50	15.47	57.50	50.32	41.62	115.47	41.87	33.76	153.30	90.22	81.11	116.28	177.54	38.34
32447	68.46	-2.50	15.47	49.99	50.89	41.12	95.63	35.53	17.69	129.86	93.68	75.94	96.11	155.93	26.45
32448	67.51	-2.50	15.47	40.95	51.52	41.09	76.08	29.60	10.50	100.90	93.45	75.93	76.35	130.53	24.16
32449	66.56	-2.50	15.47	31.82	52.48	41.17	58.10	24.04	8.82	71.49	89.99	77.44	58.18	102.73	25.05
32450	65.60	-2.50	15.47	23.10	53.74	40.81	41.67	18.82	10.21	44.60	83.88	76.21	41.51	73.58	26.31
32451	64.65	-2.50	15.47	14.83	55.24	39.30	26.71	14.18	14.62	22.31	75.92	66.65	26.18	44.85	28.00
32452	63.70	-2.50	15.47	6.90	56.95	35.98	14.05	10.47	22.56	7.45	66.75	43.50	12.81	18.74	31.74
32453	77.96	-3.10	13.78	35.14	17.91	35.60	15.94	88.03	62.15	178.64	48.54	47.89	20.08	98.26	66.46
32454	76.99	-3.10	13.78	36.17	18.83	36.71	17.18	87.13	43.83	184.51	51.69	45.36	22.26	114.84	51.21
32455	76.02	-3.10	13.78	38.29	20.50	38.43	20.44	86.30	25.48	190.98	55.17	42.02	26.37	132.22	39.07
32456	75.05	-3.10	13.78	41.72	23.23	40.37	26.66	85.21	9.16	197.69	59.13	38.67	33.22	148.75	33.25
32457	74.08	-3.10	13.78	46.41	26.72	43.10	36.91	82.87	9.50	203.06	63.51	39.65	43.54	163.34	34.10
32458	73.11	-3.10	13.78	49.96	32.35	47.92	48.44	78.87	16.48	203.84	69.33	52.36	54.32	177.59	36.03
32459	72.14	-3.10	13.78	49.08	37.78	53.24	54.95	75.21	21.14	198.24	75.21	70.64	60.09	197.17	37.80
32460	71.16	-3.10	13.78	51.16	41.80	58.21	67.03	70.33	19.13	198.48	78.72	88.43	71.34	213.09	36.11
32461	70.19	-3.10	13.78	47.17	44.13	62.41	65.98	64.97	14.10	186.73	81.27	103.62	69.46	223.47	33.94
32462	69.22	-3.10	13.78	44.17	46.12	65.72	64.53	59.57	10.57	175.58	81.48	116.83	67.42	226.87	34.34
32463	68.25	-3.10	13.78	39.78	47.66	68.02	57.95	53.75	9.49	156.60	80.00	128.55	60.47	218.22	36.55
32464	67.28	-3.10	13.78	33.94	49.29	69.84	48.80	47.58	10.31	130.23	76.67	140.58	51.09	199.43	39.48
32465	66.31	-3.10	13.78	27.23	51.24	71.01	38.82	41.11	10.97	99.21	71.66	150.17	40.88	172.17	41.82
32466	65.34	-3.10	13.78	20.26	53.57	70.86	28.98	34.35	12.19	67.05	65.39	151.91	30.62	137.60	43.30
32467	64.36	-3.10	13.78	13.52	56.22	68.59	19.93	27.29	16.02	38.57	58.25	139.43	20.66	97.17	44.36
32468	63.39	-3.10	13.78	7.34	59.27	63.55	12.49	19.85	23.10	16.66	50.34	108.15	11.33	51.53	45.84
32469	77.96	-2.50	13.78	35.17	17.57	34.38	15.22	81.61	62.53	180.27	49.47	45.79	18.01	93.87	65.46
32470	76.98	-2.50	13.78	36.49	18.57	35.61	16.63	80.94	44.03	186.35	52.63	43.63	19.93	111.97	49.17
32471	76.00	-2.50	13.78	38.60	20.40	37.30	20.11	80.35	25.66	193.00	56.10	40.47	23.91	130.35	35.53
32472	75.03	-2.50	13.78	41.72	23.18	39.24	26.62	79.57	8.87	199.85	60.00	37.04	30.82	147.38	28.05
32473	74.05	-2.50	13.78	45.75	26.79	42.13	37.64	77.91	8.51	204.79	64.31	38.77	41.89	162.65	28.56
32474	73.07	-2.50	13.78	48.03	31.06	46.77	49.04	75.19	16.76	204.18	69.03	53.02	53.02	178.66	31.71
32475	72.09	-2.50	13.78	47.52	35.04	51.85	57.33	72.13	22.25	200.03	73.76	72.44	60.91	199.72	34.42
32476	71.11	-2.50	13.78	48.53	39.04	56.77	69.50	67.80	19.88	199.40	77.68	90.92	72.43	216.40	32.18
32477	70.14	-2.50	13.78	44.81	41.86	61.19	68.57	62.96	14.22	188.05	80.90	106.76	70.90	227.77	29.02
32478	69.16	-2.50	13.78	41.86	44.44	64.73	66.95	57.85	9.67	177.18	81.66	120.08	68.86	231.28	28.37
32479	68.18	-2.50	13.78	37.74	46.66	67.29	60.03	52.33	7.71	158.02	80.68	131.97	61.68	222.02	29.84
32480	67.20	-2.50	13.78	32.24	48.89	69.32	50.40	46.42	8.41	131.08	77.68	144.29	51.90	202.23	32.27
32481	66.22	-2.50	13.78	25.89	51.31	70.60	39.90	40.11	8.92	99.33	72.85	154.11	41.25	173.75	34.21
32482	65.24	-2.50	13.78	19.20	53.94	70.46	29.52	33.42	9.94	66.45	66.61	155.71	30.61	137.85	35.45
32483	64.27	-2.50	13.78	12.66	56.82	68.07	19.90	26.37	13.91	37.46	59.34	142.38	20.36	96.11	36.62
32484	63.29	-2.50	13.78	6.56	59.89	62.76	11.77	18.93	21.36	15.30	51.36	109.29	11.00	49.06	38.82
32485	77.95	-3.10	12.09	44.24	21.06	52.22	12.44	107.44	89.86	227.76	57.57	75.26	19.29	109.23	92.32
32486	76.95	-3.10	12.09	45.88	22.15	53.27	13.52	106.18	75.09	238.53	61.08	72.25	21.72	128.13	78.62
32487	75.95	-3.10	12.09	48.04	23.98	55.42	16.16	104.44	61.14	249.12	64.65	67.53	25.27	148.10	66.23
32488	74.96	-3.10	12.09	50.36	26.39	58.66	20.41	102.19	48.68	258.64	68.09	62.21	29.96	169.01	55.91
32489	73.96	-3.10	12.09	52.27	29.30	62.92	25.68	99.36	38.50	266.02	71.35	59.40	35.31	191.25	48.37
32490	72.96	-3.10	12.09	53.27	32.24	67.67	31.13	95.95	30.95	270.66	74.09	62.96	40.65	215.26	43.67
32491	71.96	-3.10	12.09	53.67	35.26	72.83	36.83	91.79	26.82	273.08	76.00	74.79	45.90	239.11	41.95
32492	70.96	-3.10	12.09	52.33	38.23	78.18	39.38	87.16	24.88	270.09	76.97	93.53	48.11	261.98	42.24
32493	69.96	-3.10	12.09	50.48	41.13	83.53	41.13	82.16	24.36	263.39	76.25	117.35	49.56	280.89	43.99
32494	68.97	-3.10	12.09	47.02	43.90	88.77	39.76	76.90	24.44	248.28	73.97	145.32	48.15	292.52	46.58
32495	67.97	-3.10	12.09	42.30	46.75	93.89	36.66	71.35	23.84	224.59	69.96	176.85	45.25	294.58	49.26
32496	66.97	-3.10	12.09	36.21	49.77	98.53	32.11	65.26	22.12	191.35	64.53	209.22	41.05	283.92	51.66
32497	65.97	-3.10	12.09	28.98	53.00	102.03	26.69	58.28	19.14	150.35	58.04	237.19	35.90	258.31	53.55
32498	64.97	-3.10	12.09	21.31	56.47	103.43	20.96	50.10	15.75	106.43	50.88	253.23	29.91	217.05	54.83
32499	63.98	-3.10	12.09	13.78	60.06	101.55	15.42	40.44	14.62	63.35	44.12	247.80	23.34	159.62	55.70
32500	62.98	-3.10	12.09	8.39	64.09	95.64	10.70	29.52	18.83	32.28	37.94	214.29	15.70	91.06	56.51
32501	77.95	-2.50	12.09	44.27	20.71	50.34	13.20	104.45	90.37	229.87	57.51	72.88	17.96	107.81	92.02
32502	76.94	-2.50	12.09	46.23	21.58	51.39	14.34	103.32	75.23	241.01	60.90	69.77	20.10	127.69	77.64
32503	75.94	-2.50	12.09	48.55	23.15	53.56	17.14	101.79	60.91	251.95	64.31	64.89	23.55	148.54	64.45
32504	74.93	-2.50	12.09	50.90	25.33	56.82	21.59	99.82	48.21	261.70	67.69	59.47	28.29	170.29	53.29
32505	73.93	-2.50	12.09	52.69	28.00	61.05	26.93	97.31	37.80	269.21	70.96	56.87	33.64	193.39	44.82
32506	72.92	-2.50	12.09	53.61	31.01	65.88	32.59	94.15	30.20	274.12	73.95	61.42	39.10	218.14	39.33
32507	71.92	-2.50	12.09	53.69	34.22	71.17	38.17	90.28	26.00	276.33	76.14	74.81	44.30	242.87	36.97
32508	70.91	-2.50	12.09	52.27	37.29	76.68	40.86	85.88	23.92	273.62	77.18	95.02	46.72	266.62	36.67
32509	69.91	-2.50	12.09	50.25	40.39	82.21	42.58	81.04	23.43	266.85	76.55	119.97	48.20	286.01	37.87
32510	68.90	-2.50	12.09	46.74	43.43	87.69	41.09	75.95	23.55	251.51	74.36	149.02	46.68		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
32537	73.81	-2.50	10.41	63.41	29.34	77.93	18.12	118.59	74.50	343.15	74.44	79.62	29.44	216.49	77.74
32538	72.78	-2.50	10.41	65.47	31.95	83.29	21.23	114.34	67.34	358.46	75.76	75.74	32.83	247.36	71.56
32539	71.74	-2.50	10.41	66.79	34.85	89.16	23.83	109.55	61.65	371.11	75.82	79.50	35.66	280.06	67.08
32540	70.71	-2.50	10.41	67.25	38.05	95.48	25.82	104.41	57.26	379.75	74.27	94.97	37.85	313.27	64.11
32541	69.68	-2.50	10.41	66.42	41.49	102.31	26.54	99.21	53.54	381.48	70.86	123.49	38.91	345.24	62.13
32542	68.65	-2.50	10.41	64.00	45.20	109.72	26.25	94.15	49.85	373.48	65.48	164.79	39.16	373.33	60.58
32543	67.62	-2.50	10.41	59.38	49.13	117.76	24.88	89.20	45.58	351.60	58.48	217.99	38.63	393.45	59.10
32544	66.59	-2.50	10.41	52.06	53.25	126.17	22.70	83.90	40.20	312.37	50.82	280.60	37.65	399.61	57.60
32545	65.56	-2.50	10.41	41.89	57.44	134.03	19.89	77.19	33.45	254.13	44.17	345.37	36.30	382.95	56.57
32546	64.52	-2.50	10.41	29.79	61.59	139.21	16.57	67.70	25.42	181.40	40.44	395.84	34.06	333.60	56.94
32547	63.49	-2.50	10.41	19.16	65.92	139.55	12.81	55.33	17.19	114.39	40.88	414.45	29.18	254.19	58.20
32548	62.46	-2.50	10.41	9.59	70.10	132.83	9.09	40.07	13.19	44.75	44.96	378.84	23.52	145.52	59.58
32549	77.92	-3.10	8.72	58.45	25.55	83.40	9.31	154.45	140.72	306.75	63.55	133.34	22.19	116.31	141.55
32550	76.87	-3.10	8.72	62.17	26.01	84.53	9.39	152.47	131.10	331.18	66.98	131.66	25.11	138.39	132.24
32551	75.82	-3.10	8.72	66.23	27.06	87.24	10.04	149.53	121.88	357.27	70.04	127.51	28.35	162.98	123.44
32552	74.77	-3.10	8.72	70.52	28.66	91.24	11.15	145.65	113.30	384.96	72.50	120.96	31.76	190.47	115.43
32553	73.72	-3.10	8.72	74.91	30.76	96.25	12.58	140.86	105.52	414.05	74.05	112.40	35.19	221.24	108.40
32554	72.66	-3.10	8.72	79.27	33.33	101.98	14.13	135.29	98.60	444.02	74.34	102.98	38.45	255.66	102.44
32555	71.61	-3.10	8.72	83.45	36.34	108.27	15.64	129.13	92.46	474.06	72.93	95.56	41.36	293.92	97.51
32556	70.56	-3.10	8.72	87.18	39.80	115.08	16.87	122.72	86.83	502.46	69.41	96.25	43.70	336.05	93.38
32557	69.51	-3.10	8.72	90.08	43.74	122.53	17.79	116.52	81.38	526.76	63.46	113.73	45.41	381.75	89.74
32558	68.46	-3.10	8.72	91.48	48.18	130.88	18.36	111.08	75.67	542.74	55.33	153.88	46.53	430.03	86.19
32559	67.40	-3.10	8.72	90.41	53.12	140.59	18.69	106.87	69.20	544.33	46.72	218.52	47.41	478.36	82.36
32560	66.35	-3.10	8.72	85.41	58.49	152.15	18.86	103.83	61.44	522.49	42.74	308.88	48.75	520.87	78.29
32561	65.30	-3.10	8.72	74.61	64.05	165.82	18.90	100.69	51.93	464.72	49.68	424.69	51.52	544.63	75.05
32562	64.25	-3.10	8.72	56.16	69.31	180.28	18.50	93.92	40.41	356.80	64.75	554.81	56.23	522.98	76.14
32563	63.20	-3.10	8.72	30.79	73.27	187.33	17.04	77.16	27.43	196.87	75.60	635.05	60.16	407.16	88.11
32564	62.14	-3.10	8.72	21.34	78.60	181.44	13.28	55.91	16.01	127.06	96.72	614.88	46.84	246.19	100.58
32565	77.92	-2.50	8.72	58.67	25.61	80.85	8.91	153.87	141.45	309.74	63.99	131.00	18.73	116.75	141.99
32566	76.86	-2.50	8.72	62.64	26.05	81.93	8.88	151.92	131.67	334.73	67.44	129.16	21.01	139.41	132.42
32567	75.80	-2.50	8.72	66.89	27.06	84.66	9.50	149.01	122.30	361.44	70.51	124.82	23.64	164.58	123.32
32568	74.75	-2.50	8.72	71.33	28.64	88.75	10.62	145.15	113.59	389.78	72.94	118.03	26.47	192.69	114.98
32569	73.69	-2.50	8.72	75.84	30.75	93.89	12.09	140.38	105.71	419.54	74.42	109.24	29.34	224.13	107.59
32570	72.63	-2.50	8.72	80.28	33.36	99.77	13.68	134.81	98.70	450.18	74.56	99.66	32.06	259.26	101.21
32571	71.57	-2.50	8.72	84.52	36.45	106.22	15.21	128.64	92.48	480.82	72.90	92.41	34.46	298.26	95.79
32572	70.51	-2.50	8.72	88.28	40.02	113.20	16.43	122.23	86.78	509.73	69.03	94.07	36.34	341.15	91.08
32573	69.45	-2.50	8.72	91.17	44.08	120.82	17.31	116.06	81.27	534.30	62.70	113.45	37.64	387.58	86.75
32574	68.40	-2.50	8.72	92.53	48.65	129.36	17.81	110.70	75.45	550.28	54.31	155.81	38.41	436.52	82.35
32575	67.34	-2.50	8.72	91.37	53.69	139.25	18.04	106.62	68.81	551.51	45.96	222.67	38.99	485.43	77.49
32576	66.28	-2.50	8.72	86.21	59.08	151.03	18.06	103.77	60.80	528.85	43.23	315.41	39.99	528.37	72.09
32577	65.22	-2.50	8.72	75.15	64.56	164.96	17.84	100.80	50.95	469.64	51.51	434.11	42.19	552.33	66.96
32578	64.16	-2.50	8.72	56.26	69.59	179.73	17.02	94.09	39.03	359.23	66.63	567.97	45.96	530.16	65.23
32579	63.11	-2.50	8.72	30.21	73.21	186.87	14.93	76.97	25.62	195.08	76.09	651.44	48.99	411.28	73.33
32580	62.05	-2.50	8.72	20.61	77.93	180.51	11.09	55.14	13.35	122.77	93.92	630.85	38.17	244.35	83.47
32581	77.91	-3.10	7.03	63.17	27.03	98.26	8.44	179.57	163.69	331.13	61.66	162.88	23.75	109.41	164.10
32582	76.83	-3.10	7.03	68.14	27.38	99.41	8.45	177.26	155.60	362.77	65.11	162.40	27.06	129.99	156.18
32583	75.75	-3.10	7.03	73.71	28.31	102.41	8.81	173.70	147.69	398.01	68.08	159.55	30.64	153.02	148.51
32584	74.67	-3.10	7.03	79.90	29.83	106.92	9.41	168.93	140.12	437.26	70.29	154.15	34.35	179.04	141.27
32585	73.60	-3.10	7.03	86.71	31.94	112.56	10.15	162.98	132.96	480.89	71.36	146.07	38.01	208.66	134.57
32586	72.52	-3.10	7.03	94.17	34.64	118.96	11.00	155.95	126.24	529.18	70.83	135.37	41.41	242.63	128.46
32587	71.44	-3.10	7.03	102.28	37.97	125.85	11.89	148.05	119.87	582.17	68.14	122.76	44.27	281.86	122.88
32588	70.36	-3.10	7.03	110.99	41.97	133.10	12.76	139.65	113.68	639.52	62.80	110.81	46.26	327.51	117.67
32589	69.28	-3.10	7.03	120.13	46.76	140.71	13.63	131.32	107.40	700.17	54.79	107.12	47.05	381.04	112.54
32590	68.20	-3.10	7.03	129.32	52.45	148.94	14.58	124.03	100.65	761.85	46.34	125.94	46.51	444.28	107.05
32591	67.12	-3.10	7.03	137.76	59.17	158.36	15.84	119.19	92.92	820.09	46.69	179.66	45.00	519.26	100.62
32592	66.04	-3.10	7.03	143.92	66.94	170.16	17.74	118.57	83.45	866.28	67.77	275.15	43.86	607.61	92.66
32593	64.96	-3.10	7.03	144.76	75.54	186.53	20.53	123.43	71.15	883.26	107.38	424.69	45.74	708.02	83.08
32594	63.89	-3.10	7.03	134.13	84.28	211.11	23.91	132.20	54.51	834.20	157.12	652.61	54.46	806.35	74.54
32595	62.81	-3.10	7.03	99.33	91.68	249.18	25.97	134.29	32.22	634.72	205.02	997.02	74.59	835.39	82.09
32596	61.73	-3.10	7.03	12.88	88.54	252.89	21.42	79.26	10.78	52.78	171.61	1085.72	101.22	421.55	152.85
32597	77.91	-2.50	7.03	63.44	27.06	95.45	7.49	179.42	164.54	334.34	62.01	160.67	19.61	109.98	164.81
32598	76.82	-2.50	7.03	68.63	27.42	96.56	7.30	177.12	156.33	366.64	65.48	160.10	22.20	130.98	156.70
32599	75.74	-2.50	7.03	74.41	28.36	99.60	7.53	173.56	148.30	402.63	68.44	157.12	25.05	154.46	148.83
32600	74.65	-2.50	7.03	80.78	29.90	104.23	8.02	168.76	140.61	442.70	70.57	151.54	28.01	180.95	141.36
32601	73.57	-2.50	7.03	87.75	32.06	110.03	8.71	162.77	133.36	487.20	71.47	143.24	30.91	211.08	134.40
32602	72.48	-2.50	7.03	95.35	34.83	116.60	9.51	155.69	126.55	536.37	70.65	132.29	33.56	245.61	127.99
32603	71.40	-2.50	7.03	103.57	38.27	123.68	10.37	147.73	120.10	590.18	67.54	119.41	35.71	285.43	122.04
32604	70.31	-2.50	7.03	112.37	42.41	131.09	11.24	139.27	113.81	648.20	61.68	107.40	37.09	331.69	116.39
32605	69.23	-2.50	7.03	121.55	47.36	138.86	12.15	130.91	107.41	709.28	53.29	104.42	37.47	385.82	110.71
32606	68.14	-2.50	7.03	130.75	53.21	147.22	13.23	123.64	100.48	771.07	45.47	125.28	36.83	449.59	104.56
32607	67.06	-2.50	7.03	139.16	60.01	156.78	14.70	118.91	92.47	829.11	48.56	181.69	35.62</		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
32635	71.22	-2.50	5.34	119.62	39.65	143.49	8.61	168.10	145.58	674.07	60.29	152.88	36.53	235.07	146.57
32636	70.11	-2.50	5.34	133.93	44.50	151.59	8.98	157.18	139.15	762.03	53.61	136.87	36.93	272.35	140.54
32637	69.00	-2.50	5.34	150.59	50.52	159.54	9.42	145.54	132.50	863.35	46.29	120.09	35.47	317.20	134.40
32638	67.89	-2.50	5.34	170.07	57.96	167.34	10.32	133.92	125.31	980.27	48.19	110.82	31.86	372.33	127.82
32639	66.78	-2.50	5.34	192.99	67.07	175.25	12.53	123.71	117.05	1115.98	73.59	128.57	26.70	440.21	120.32
32640	65.67	-2.50	5.34	220.19	78.01	184.08	17.26	117.69	106.88	1275.67	123.49	192.86	22.86	533.78	111.12
32641	64.55	-2.50	5.34	252.69	90.74	195.72	25.70	121.04	93.16	1468.28	195.28	316.95	25.90	662.36	98.94
32642	63.44	-2.50	5.34	291.27	105.24	215.27	38.89	141.92	72.53	1707.07	290.26	537.28	37.85	858.95	81.69
32643	62.33	-2.50	5.34	333.98	122.40	256.88	57.50	190.12	36.71	2001.48	417.72	964.62	56.52	1189.74	60.40
32644	61.22	-2.50	5.34	359.84	153.26	435.17	78.52	278.80	39.24	2245.39	664.70	2423.04	82.55	1789.06	100.17
32645	78.91	-2.50	17.16	16.40	27.93	2.66	41.93	34.62	28.54	83.78	28.44	4.54	42.84	35.31	36.50
32646	79.84	-2.50	17.16	18.49	60.73	4.50	41.51	36.31	48.99	82.22	60.97	4.48	41.48	33.74	53.57
32647	80.76	-2.50	17.16	19.33	91.71	8.10	39.91	40.08	72.05	77.23	91.82	7.16	40.64	39.63	75.40
32648	81.69	-2.50	17.16	16.66	116.35	10.04	35.16	49.02	99.98	67.17	116.36	8.37	37.36	55.26	102.98
32649	82.61	-2.50	17.16	10.08	116.10	7.76	24.17	70.03	139.35	49.08	116.06	4.62	27.15	85.47	142.03
32650	83.54	-2.50	17.16	11.99	55.02	25.67	25.53	106.18	246.51	20.49	55.16	31.35	26.33	129.63	248.03
32651	84.46	-2.50	17.16	53.37	17.67	44.18	82.72	115.57	387.53	108.68	14.74	67.20	82.98	181.39	388.32
32652	85.39	-2.50	17.16	226.41	61.45	13.33	419.97	61.92	276.88	425.33	60.92	67.70	420.25	144.33	277.08
32653	86.31	-2.50	17.16	175.24	53.16	15.25	276.86	40.70	108.68	334.48	40.12	32.49	276.89	88.96	108.61
32654	87.24	-2.50	17.16	135.73	51.75	14.04	199.62	27.45	63.06	260.54	38.77	21.18	199.63	58.18	63.00
32655	88.16	-2.50	17.16	105.27	51.44	13.10	150.25	19.79	45.68	200.52	40.63	15.82	150.26	41.06	45.61
32656	89.09	-2.50	17.16	81.33	51.81	12.78	115.46	15.28	37.78	150.87	42.01	13.93	115.45	31.20	37.72
32657	90.01	-2.50	17.16	61.73	52.50	12.81	88.92	12.44	34.18	108.90	42.12	13.53	88.87	24.76	34.15
32658	90.94	-2.50	17.16	44.52	53.16	13.00	66.95	10.63	33.26	72.78	40.63	13.88	66.78	19.59	33.29
32659	91.86	-2.50	17.16	28.42	53.66	13.26	47.12	9.59	34.85	41.65	37.31	14.79	46.72	14.62	35.02
32660	92.79	-2.50	17.16	12.74	54.14	13.53	27.52	8.95	40.34	15.42	32.18	15.39	26.53	10.05	40.79
32661	78.91	-3.10	17.16	11.52	34.17	14.00	69.60	78.28	31.51	68.40	42.64	19.78	70.53	79.08	48.26
32662	79.83	-3.10	17.16	16.75	76.04	13.35	69.41	80.59	54.45	68.33	79.97	17.94	69.47	79.45	64.60
32663	80.74	-3.10	17.16	21.90	116.76	12.22	68.31	84.27	81.43	67.96	119.04	17.09	70.41	86.08	88.77
32664	81.66	-3.10	17.16	26.27	150.95	11.02	64.12	91.03	115.09	67.25	152.22	17.56	69.82	99.84	121.43
32665	82.58	-3.10	17.16	28.33	166.62	11.15	51.95	105.91	162.12	64.68	167.04	18.44	60.55	124.46	168.14
32666	83.50	-3.10	17.16	26.84	82.16	27.66	20.54	132.16	255.08	55.75	82.10	39.08	27.59	160.92	258.10
32667	84.42	-3.10	17.16	64.89	23.22	52.48	82.41	143.18	384.87	116.35	20.81	68.21	82.73	199.52	386.08
32668	85.33	-3.10	17.16	274.85	75.16	14.43	414.75	77.24	276.62	451.40	73.01	64.88	415.16	149.19	276.94
32669	86.25	-3.10	17.16	209.24	61.46	16.13	271.11	49.95	107.61	352.08	50.66	32.25	271.14	92.56	107.51
32670	87.17	-3.10	17.16	160.22	56.07	14.52	194.11	32.90	61.68	273.18	44.80	21.27	194.11	60.38	61.58
32671	88.09	-3.10	17.16	122.05	53.05	13.26	145.60	23.18	44.62	209.05	42.84	13.86	145.61	42.42	44.52
32672	89.00	-3.10	17.16	93.15	51.80	12.84	112.36	17.69	37.07	157.13	41.85	13.95	112.35	32.21	36.97
32673	89.92	-3.10	17.16	70.10	51.77	12.84	87.11	14.38	33.71	113.75	40.90	13.53	87.02	25.67	33.66
32674	90.84	-3.10	17.16	50.43	52.19	13.02	66.22	12.34	32.95	76.64	39.06	13.87	65.97	20.59	32.99
32675	91.76	-3.10	17.16	32.51	52.76	13.28	47.35	11.20	34.66	44.67	35.98	14.75	46.76	15.91	34.91
32676	92.67	-3.10	17.16	15.43	53.74	13.57	28.78	10.79	40.11	17.63	31.67	15.33	27.36	12.02	40.78
32677	78.93	-2.50	15.47	24.34	12.02	15.76	21.50	62.98	55.42	125.00	32.27	17.54	22.66	62.86	59.76
32678	79.88	-2.50	15.47	24.84	12.92	15.74	21.92	64.80	78.03	123.40	30.28	17.71	22.69	54.54	80.93
32679	80.83	-2.50	15.47	26.15	13.96	17.79	23.32	68.28	103.19	122.63	28.34	19.00	23.71	54.52	105.53
32680	81.78	-2.50	15.47	29.84	14.78	19.81	26.71	74.03	132.92	124.91	26.23	19.43	26.81	62.97	135.00
32681	82.73	-2.50	15.47	40.85	17.54	21.53	35.35	80.07	169.95	135.06	24.83	16.80	35.36	73.06	171.68
32682	83.68	-2.50	15.47	66.57	22.84	26.97	72.77	76.63	196.95	160.22	24.58	21.69	73.01	70.30	198.07
32683	84.63	-2.50	15.47	85.98	30.42	28.18	118.52	61.01	189.25	175.91	27.24	44.48	118.80	49.31	189.76
32684	85.59	-2.50	15.47	67.17	36.26	33.61	111.58	55.40	181.48	140.65	33.82	67.50	111.71	62.89	181.59
32685	86.54	-2.50	15.47	77.64	43.13	39.01	144.87	52.55	161.55	168.94	36.82	68.66	144.93	85.21	161.50
32686	87.49	-2.50	15.47	75.19	44.79	38.96	133.00	47.35	129.24	165.89	37.49	54.18	133.00	82.44	129.13
32687	88.44	-2.50	15.47	66.60	45.58	38.42	113.36	41.26	108.88	147.72	36.65	46.03	113.34	73.44	108.76
32688	89.39	-2.50	15.47	55.97	46.50	38.52	94.04	35.68	97.58	123.28	34.83	42.90	94.00	63.99	97.48
32689	90.34	-2.50	15.47	45.07	47.72	39.10	76.54	30.98	92.41	96.89	32.16	42.82	76.45	55.20	92.38
32690	91.30	-2.50	15.47	34.49	49.19	39.85	60.83	27.26	92.00	70.40	28.72	44.77	60.65	46.79	92.10
32691	92.25	-2.50	15.47	24.26	50.86	40.59	46.67	24.63	96.14	44.54	24.78	48.24	46.36	38.41	96.44
32692	93.20	-2.50	15.47	14.32	52.65	41.56	34.44	22.89	105.21	20.07	20.83	52.19	33.88	29.72	105.80
32693	78.92	-3.10	15.47	24.88	15.19	16.48	16.51	75.04	53.22	122.49	38.57	19.06	18.36	74.44	57.67
32694	79.87	-3.10	15.47	26.10	15.17	15.79	16.41	76.92	73.98	121.27	35.85	18.61	18.33	68.33	77.03
32695	80.81	-3.10	15.47	28.41	15.88	17.06	17.53	80.42	97.53	121.25	33.81	18.59	19.17	68.84	100.00
32696	81.76	-3.10	15.47	33.65	18.99	19.45	21.11	85.88	125.52	124.47	33.53	18.42	22.14	75.91	127.70
32697	82.70	-3.10	15.47	46.21	28.71	23.34	30.74	91.25	160.41	134.74	37.47	18.75	30.99	84.51	162.22
32698	83.65	-3.10	15.47	72.90	31.28	29.78	63.54	88.37	191.49	158.86	35.11	25.88	63.62	82.93	192.82
32699	84.59	-3.10	15.47	102.67	34.47	29.15	116.56	68.67	187.24	186.57	32.61	44.75	116.89	59.30	187.93
32700	85.53	-3.10	15.47	79.16	40.30	34.39	108.18	62.20	178.55	147.04	38.94	65.44	108.33	68.28	178.70
32701	86.48	-3.10	15.47	91.76	47.25	40.10	140.66	59.79	158.57	174.87	42.12	67.63	140.72	88.26	158.48
32702	87.42	-3.10	15.47	87.95	47.36	39.58	128.88	53.61	126.69	170.61	40.80	53.86	128.88	84.76	126.53
32703	88.37	-3.10	15.47	77.33	46.65	38.69	110.02	46.48	106.94	151.53	38.01	45.89	109.99	75.42	106.75
32704	89.31	-3.10	15.47	64.60	46.59	38.65	91.59	40.16	96.16	126.40	34.87	42.81	91.52	65.88	96.00
32705	90.26	-3.10	15.47	51.85	47.26	39.17	74.97	35.05	91.38	99.53	31.44	42.72	74.83	57.21	91.32
32706	91.20	-3.10	15.47	39.72	48.										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
32733	86.71	-3.10	13.78	56.77	39.70	57.95	80.74	70.80	158.11	134.82	38.11	64.13	80.67	64.77	158.07
32734	87.68	-3.10	13.78	54.58	41.80	60.85	81.97	65.95	149.97	128.60	36.21	67.03	81.89	73.48	149.85
32735	88.65	-3.10	13.78	50.99	43.39	62.93	77.48	60.73	141.76	118.53	33.53	67.62	77.37	76.01	141.63
32736	89.62	-3.10	13.78	45.78	44.97	64.83	70.11	55.31	136.39	104.01	30.22	69.14	69.96	74.24	136.29
32737	90.59	-3.10	13.78	39.59	46.80	66.68	61.89	50.11	134.51	86.26	26.56	72.55	61.68	69.97	134.52
32738	91.56	-3.10	13.78	32.94	48.92	68.36	53.94	45.45	136.15	66.60	22.85	78.23	53.66	64.14	136.32
32739	92.54	-3.10	13.78	26.23	51.27	69.84	47.07	41.58	141.19	46.19	19.45	86.41	46.70	57.08	141.59
32740	93.51	-3.10	13.78	19.97	53.88	71.62	41.89	38.83	148.82	26.60	16.75	97.92	41.45	49.01	149.48
32741	78.95	-2.50	12.09	42.88	20.59	50.49	13.65	105.18	105.84	219.06	54.22	74.08	17.16	89.36	107.00
32742	79.96	-2.50	12.09	42.20	21.22	51.81	15.77	105.45	121.27	208.77	51.09	73.39	17.97	72.90	122.11
32743	80.96	-2.50	12.09	42.25	22.55	54.23	19.77	105.19	136.11	198.82	48.17	70.90	20.89	58.82	136.74
32744	81.97	-2.50	12.09	42.81	24.49	57.55	25.76	104.22	149.46	188.62	45.53	67.03	26.18	47.12	149.92
32745	82.97	-2.50	12.09	43.21	26.93	61.53	32.99	102.40	160.47	177.49	43.28	63.18	33.07	38.08	160.79
32746	83.98	-2.50	12.09	43.05	29.69	66.00	40.95	99.64	168.42	165.62	41.49	61.77	40.89	34.08	168.62
32747	84.98	-2.50	12.09	42.70	32.64	70.72	49.21	95.79	172.41	154.49	39.81	63.86	49.11	36.94	172.51
32748	85.99	-2.50	12.09	41.00	35.42	75.47	54.55	91.08	173.64	142.23	38.16	68.65	54.43	46.03	173.67
32749	86.99	-2.50	12.09	39.78	38.13	80.04	59.08	85.64	172.54	132.33	36.07	74.39	58.96	56.78	172.52
32750	88.00	-2.50	12.09	37.67	40.67	84.31	60.16	79.71	170.14	121.01	33.70	80.07	60.04	65.58	170.10
32751	89.00	-2.50	12.09	35.34	43.19	88.31	59.32	73.48	168.01	109.25	30.87	85.96	59.18	71.58	167.97
32752	90.01	-2.50	12.09	32.58	45.75	92.03	56.90	67.08	166.97	95.84	27.77	92.67	56.74	73.93	166.95
32753	91.01	-2.50	12.09	29.29	48.40	95.44	53.69	60.60	167.69	80.47	24.60	101.24	53.51	73.03	167.72
32754	92.02	-2.50	12.09	25.55	51.19	98.47	50.51	54.15	170.49	63.42	21.68	112.52	50.32	69.38	170.61
32755	93.02	-2.50	12.09	21.57	54.14	101.17	48.04	47.90	175.33	45.17	19.48	127.34	47.85	63.44	175.55
32756	94.03	-2.50	12.09	17.71	57.23	103.89	46.76	42.23	181.72	26.56	18.60	146.61	46.61	55.71	182.02
32757	78.95	-3.10	12.09	43.35	20.81	52.30	12.86	108.24	105.01	217.28	54.26	76.37	18.01	91.87	106.75
32758	79.95	-3.10	12.09	43.30	21.38	53.55	14.85	108.52	120.08	207.29	51.18	75.60	18.19	76.52	121.34
32759	80.95	-3.10	12.09	44.09	22.76	55.82	18.67	108.18	134.56	197.63	48.38	73.01	20.42	63.48	135.50
32760	81.94	-3.10	12.09	45.45	24.81	58.90	24.46	107.07	147.67	187.82	45.86	69.00	25.14	52.72	148.36
32761	82.94	-3.10	12.09	46.63	27.43	62.57	31.65	105.05	158.46	177.15	43.73	64.88	31.80	44.42	158.94
32762	83.94	-3.10	12.09	46.93	30.19	66.80	39.39	102.25	166.40	165.53	41.91	63.15	39.29	40.77	166.71
32763	84.94	-3.10	12.09	47.29	33.07	71.33	47.80	98.33	170.34	155.03	40.14	64.74	47.64	42.66	170.50
32764	85.94	-3.10	12.09	45.63	35.87	75.91	52.97	93.69	171.47	142.79	38.55	69.01	52.79	50.20	171.52
32765	86.94	-3.10	12.09	44.60	38.52	80.36	57.49	88.44	170.47	133.06	36.42	74.38	57.30	59.87	170.44
32766	87.93	-3.10	12.09	42.37	40.91	84.55	58.63	82.72	168.23	121.75	33.95	79.85	58.43	68.00	168.17
32767	88.93	-3.10	12.09	39.85	43.25	88.49	57.96	76.74	166.32	110.02	30.99	85.62	57.74	73.73	166.26
32768	89.93	-3.10	12.09	36.84	45.64	92.15	55.78	70.61	165.48	96.72	27.77	92.22	55.53	76.13	165.46
32769	90.93	-3.10	12.09	33.29	48.16	95.52	52.85	64.45	166.38	81.58	24.52	100.64	52.57	75.49	166.43
32770	91.93	-3.10	12.09	29.33	50.84	98.53	49.96	58.41	169.28	64.87	21.57	111.70	49.66	72.30	169.45
32771	92.92	-3.10	12.09	25.24	53.68	101.23	47.75	52.73	174.20	47.17	19.38	126.21	47.46	67.03	174.51
32772	93.92	-3.10	12.09	21.55	56.78	103.97	46.58	48.13	180.36	29.67	18.49	145.08	46.35	60.57	180.81
32773	78.97	-2.50	10.41	49.65	23.55	66.33	11.52	129.63	129.04	256.65	59.11	101.80	16.82	95.84	129.72
32774	80.00	-2.50	10.41	47.58	24.22	68.23	13.47	129.75	141.09	240.34	55.64	100.15	16.86	77.67	141.58
32775	81.03	-2.50	10.41	45.89	25.45	71.43	16.68	129.07	152.45	224.54	52.29	96.73	18.54	61.40	152.81
32776	82.06	-2.50	10.41	44.41	27.16	75.68	21.00	127.52	162.67	209.06	49.11	92.22	21.85	47.29	162.92
32777	83.09	-2.50	10.41	42.99	29.23	80.70	26.17	125.03	171.27	193.84	46.14	87.75	26.45	36.56	171.44
32778	84.12	-2.50	10.41	41.55	31.54	86.24	31.72	121.54	177.91	179.08	43.31	84.57	31.73	32.07	178.01
32779	85.16	-2.50	10.41	39.92	33.99	92.08	36.89	117.05	182.61	164.68	40.60	83.70	36.77	35.86	182.66
32780	86.19	-2.50	10.41	38.30	36.55	98.04	41.53	111.65	185.44	151.24	37.89	85.44	41.36	44.97	185.45
32781	87.22	-2.50	10.41	36.45	39.14	103.99	44.83	105.48	186.98	137.94	35.14	89.57	44.63	55.43	186.96
32782	88.25	-2.50	10.41	34.56	41.79	109.84	47.07	98.70	187.87	125.01	32.28	95.76	46.86	64.88	187.84
32783	89.28	-2.50	10.41	32.44	44.50	115.52	48.16	91.43	188.70	111.54	29.41	104.00	47.94	71.95	188.67
32784	90.31	-2.50	10.41	30.08	47.32	120.97	48.50	83.77	190.06	97.24	26.66	114.67	48.28	76.22	190.05
32785	91.34	-2.50	10.41	27.43	50.25	126.09	48.49	75.77	192.31	81.77	24.26	128.33	48.28	77.52	192.34
32786	92.38	-2.50	10.41	24.56	53.33	130.86	48.60	67.50	195.65	65.07	22.57	145.59	48.42	76.00	195.73
32787	93.41	-2.50	10.41	21.68	56.58	135.31	49.21	59.16	200.02	47.31	21.96	166.97	49.09	72.05	200.17
32788	94.44	-2.50	10.41	19.09	60.01	139.59	50.68	51.27	204.90	29.28	22.72	192.81	50.64	66.17	205.10
32789	78.96	-3.10	10.41	49.87	23.49	68.48	11.31	131.05	128.22	254.46	58.70	104.13	18.73	96.70	129.27
32790	79.99	-3.10	10.41	48.23	24.14	70.19	13.12	131.19	140.07	238.53	55.28	102.37	18.02	79.32	140.84
32791	81.01	-3.10	10.41	47.02	25.39	73.14	16.20	130.51	151.25	223.10	51.99	98.84	18.92	63.91	151.81
32792	82.04	-3.10	10.41	46.03	27.15	77.11	20.39	128.97	161.27	207.95	48.90	94.22	21.63	50.79	161.66
32793	83.06	-3.10	10.41	45.04	29.27	81.86	25.40	126.50	169.71	193.04	46.03	89.62	25.80	41.15	169.97
32794	84.09	-3.10	10.41	44.02	31.66	87.15	30.85	123.06	176.19	178.61	43.31	86.19	30.84	37.20	176.35
32795	85.11	-3.10	10.41	42.67	34.17	92.78	35.88	118.70	180.82	164.43	40.69	84.99	35.68	40.43	180.89
32796	86.14	-3.10	10.41	41.33	36.73	98.57	40.49	113.47	183.65	151.23	38.02	86.35	40.22	48.53	183.67
32797	87.16	-3.10	10.41	39.60	39.29	104.40	43.78	107.51	185.22	138.06	35.30	90.10	43.46	58.18	185.20
32798	88.19	-3.10	10.41	37.81	41.87	110.15	46.06	100.98	186.20	125.28	32.44	95.95	45.73	67.16	186.16
32799	89.21	-3.10	10.41	35.72	44.51	115.76	47.25	93.99	187.15	111.96	29.57	103.88	46.90	74.04	187.11
32800	90.24	-3.10	10.41	33.36	47.24	121.14	47.71	86.66	188.62	97.86	26.80	114.26	47.37	78.34	188.61
32801	91.26	-3.10	10.41	30.73	50.10	126.21	47.86	79.05	190.96	82.68	24.39	127.58	47.53	79.87	191.00
32802	92.29	-3.10	10.41	27.91	53.11	130.94	48.11	71.28	194.33	66.38	22.68	144.45	47.83	78.76	194.46
32803	93.31	-3.10	10.41	25.12	56.28	135.37	48.86	63.60	198.74	49.21	22.05	165.37	48.67	75.42	198.96
32804	94.34	-3.10</													



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
32831	89.50	-3.10	8.72	34.80	46.09	144.51	41.64	111.48	205.57	117.13	28.82	122.42	41.18	76.38	205.50
32832	90.55	-3.10	8.72	32.64	48.98	151.80	43.72	102.86	208.01	102.20	26.94	135.83	43.30	82.08	207.96
32833	91.60	-3.10	8.72	30.32	52.02	158.88	45.72	93.77	210.81	86.35	25.73	153.78	45.38	85.27	210.81
32834	92.65	-3.10	8.72	27.95	55.23	165.72	47.89	84.31	214.06	69.53	25.40	176.41	47.65	85.88	214.12
32835	93.70	-3.10	8.72	25.79	58.61	172.34	50.45	74.76	217.73	52.02	26.11	203.63	50.36	84.10	217.86
32836	94.76	-3.10	8.72	24.25	62.34	178.78	53.43	65.93	221.03	35.01	27.85	235.14	53.49	80.49	221.24
32837	78.99	-2.50	7.03	58.84	27.26	96.48	8.27	180.46	172.76	305.33	58.26	159.07	17.50	91.02	172.94
32838	80.08	-2.50	7.03	54.79	27.97	99.63	9.80	180.24	180.75	279.22	54.40	155.60	16.18	73.86	180.86
32839	81.16	-2.50	7.03	51.28	29.12	104.66	12.09	178.77	188.29	255.68	50.56	150.64	16.00	58.50	188.37
32840	82.25	-2.50	7.03	48.23	30.64	111.21	15.03	176.05	195.21	234.37	46.83	144.69	17.11	45.49	195.24
32841	83.33	-2.50	7.03	45.59	32.46	118.92	18.43	172.10	201.35	215.03	43.27	138.32	19.36	36.43	201.36
32842	84.42	-2.50	7.03	43.27	34.53	127.41	22.12	166.98	206.65	197.39	39.92	132.27	22.38	33.91	206.63
32843	85.50	-2.50	7.03	41.18	36.81	136.41	25.88	160.75	211.12	181.16	36.83	127.35	25.78	38.61	211.08
32844	86.59	-2.50	7.03	39.26	39.24	145.69	29.58	153.53	214.86	166.01	34.05	124.53	29.30	47.75	214.81
32845	87.67	-2.50	7.03	37.39	41.83	155.12	33.11	145.42	218.04	151.50	31.65	124.92	32.75	58.40	217.97
32846	88.76	-2.50	7.03	35.48	44.55	164.60	36.45	136.54	220.84	137.17	29.75	129.73	36.06	68.84	220.76
32847	89.84	-2.50	7.03	33.45	47.41	174.08	39.62	126.98	223.48	122.51	28.46	140.05	39.26	78.05	223.40
32848	90.93	-2.50	7.03	31.23	50.40	183.54	42.72	116.79	226.10	107.04	27.90	156.63	42.42	85.32	226.03
32849	92.01	-2.50	7.03	28.85	53.56	192.98	45.87	106.01	228.82	90.43	28.12	179.72	45.65	90.16	228.78
32850	93.10	-2.50	7.03	26.42	56.89	202.38	49.20	94.65	231.66	72.56	29.13	209.02	49.10	92.20	231.65
32851	94.18	-2.50	7.03	24.17	60.45	211.69	52.82	82.91	234.51	53.67	30.86	243.75	52.84	91.25	234.56
32852	95.27	-2.50	7.03	22.36	64.28	220.81	56.82	71.13	236.85	34.81	33.19	282.76	56.95	87.32	236.97
32853	78.99	-3.10	7.03	58.81	27.24	99.15	8.97	180.64	171.77	302.70	57.97	161.21	20.90	90.90	172.05
32854	80.07	-3.10	7.03	55.02	27.96	102.06	10.24	180.46	179.63	277.10	54.18	157.70	18.77	74.23	179.82
32855	81.15	-3.10	7.03	51.77	29.13	106.80	12.29	179.05	187.06	253.98	50.42	152.71	17.72	59.46	187.18
32856	82.23	-3.10	7.03	48.98	30.69	113.05	15.03	176.42	193.88	233.05	46.78	146.72	18.03	47.19	193.94
32857	83.30	-3.10	7.03	46.58	32.54	120.46	18.29	172.58	199.94	214.02	43.31	140.32	19.64	38.97	199.95
32858	84.38	-3.10	7.03	44.49	34.64	128.68	21.86	167.60	205.18	196.64	40.04	134.19	22.23	36.95	205.16
32859	85.46	-3.10	7.03	42.61	36.93	137.45	25.54	161.54	209.63	180.62	37.03	129.16	25.37	41.50	209.58
32860	86.54	-3.10	7.03	40.87	39.37	146.55	29.18	154.51	213.37	165.65	34.32	126.16	28.73	50.22	213.29
32861	87.62	-3.10	7.03	39.16	41.95	155.82	32.67	146.63	216.57	151.31	31.98	126.29	32.10	60.50	216.46
32862	88.70	-3.10	7.03	37.41	44.66	165.18	36.00	138.00	219.41	137.15	30.11	130.73	35.39	70.69	219.29
32863	89.78	-3.10	7.03	35.53	47.50	174.56	39.17	128.72	222.08	122.67	28.83	140.57	38.61	79.77	221.96
32864	90.86	-3.10	7.03	33.49	50.48	183.94	42.29	118.85	224.73	107.44	28.25	156.57	41.81	87.05	224.63
32865	91.94	-3.10	7.03	31.30	53.62	193.31	45.45	108.43	227.46	91.14	28.43	179.00	45.11	92.01	227.40
32866	93.01	-3.10	7.03	29.10	56.94	202.63	48.78	97.54	230.29	73.69	29.39	207.57	48.61	94.32	230.28
32867	94.09	-3.10	7.03	27.11	60.46	211.88	52.41	86.38	233.17	55.40	31.07	241.53	52.43	93.79	233.24
32868	95.17	-3.10	7.03	25.78	64.36	220.93	56.26	75.60	235.34	37.67	33.38	279.55	56.46	90.70	235.51
32869	79.01	-2.50	5.34	60.30	27.85	111.61	7.19	206.55	193.32	309.17	52.96	186.01	17.78	81.90	193.37
32870	80.12	-2.50	5.34	55.68	28.57	115.44	8.59	206.06	200.07	280.30	49.14	182.02	16.10	68.00	200.10
32871	81.23	-2.50	5.34	51.77	29.73	121.55	10.73	204.10	206.45	255.06	45.38	176.65	15.49	55.48	206.46
32872	82.34	-2.50	5.34	48.50	31.26	129.51	13.47	200.70	212.34	232.95	41.80	170.23	16.13	44.95	212.32
32873	83.45	-2.50	5.34	45.79	33.09	138.83	16.67	195.91	217.63	213.53	38.49	163.20	17.94	37.77	217.60
32874	84.56	-2.50	5.34	43.54	35.17	149.09	20.17	189.81	222.31	196.37	35.54	156.10	20.61	35.94	222.26
32875	85.68	-2.50	5.34	41.66	37.47	159.92	23.85	182.48	226.38	181.04	33.05	149.66	23.83	40.14	226.31
32876	86.79	-2.50	5.34	40.03	39.94	171.04	27.62	174.07	229.90	167.04	31.12	144.91	27.35	48.64	229.82
32877	87.90	-2.50	5.34	38.52	42.58	182.31	31.42	164.73	232.98	153.84	29.87	143.28	31.03	59.25	232.88
32878	89.01	-2.50	5.34	37.00	45.36	193.64	35.22	154.61	235.73	140.82	29.37	146.60	34.79	70.45	235.62
32879	90.12	-2.50	5.34	35.35	48.29	205.06	39.05	143.85	238.30	127.32	29.67	156.84	38.64	81.21	238.18
32880	91.23	-2.50	5.34	33.46	51.35	216.66	42.92	132.56	240.77	112.68	30.71	175.48	42.59	90.68	240.66
32881	92.35	-2.50	5.34	31.29	54.56	228.54	46.88	120.76	243.20	96.39	32.38	203.06	46.66	98.02	243.11
32882	93.46	-2.50	5.34	28.92	57.95	240.75	50.96	108.41	245.57	78.24	34.53	239.02	50.88	102.36	245.52
32883	94.57	-2.50	5.34	26.62	61.56	253.16	55.17	95.53	247.76	58.64	37.02	281.93	55.25	103.01	247.77
32884	95.68	-2.50	5.34	24.65	65.45	265.41	59.51	82.22	249.18	38.59	39.62	329.17	59.72	99.06	249.28
32885	79.00	-3.10	5.34	60.24	27.91	114.56	8.22	206.43	192.24	306.58	52.84	188.12	21.55	81.76	192.33
32886	80.11	-3.10	5.34	55.86	28.66	118.15	9.30	205.99	198.90	278.25	49.08	184.12	19.09	68.21	198.94
32887	81.21	-3.10	5.34	52.19	29.84	123.96	11.16	204.09	205.19	253.46	45.40	178.73	17.64	56.14	205.20
32888	82.32	-3.10	5.34	49.14	31.39	131.59	13.70	200.79	211.00	231.72	41.91	172.31	17.45	46.18	210.98
32889	83.43	-3.10	5.34	46.64	33.24	140.60	16.73	196.12	216.24	212.61	38.68	165.27	18.56	39.66	216.20
32890	84.53	-3.10	5.34	44.59	35.35	150.56	20.12	190.16	220.89	195.69	35.82	158.15	20.74	38.30	220.81
32891	85.64	-3.10	5.34	42.89	37.66	161.13	23.71	183.01	224.94	180.55	33.40	151.66	23.64	42.54	224.84
32892	86.74	-3.10	5.34	41.42	40.14	172.05	27.40	174.81	228.47	166.71	31.54	146.81	26.96	50.83	228.34
32893	87.85	-3.10	5.34	40.06	42.78	183.15	31.15	165.70	231.57	153.65	30.32	144.99	30.53	61.19	231.42
32894	88.95	-3.10	5.34	38.68	45.56	194.36	34.92	155.83	234.36	140.76	29.82	148.00	34.25	72.19	234.19
32895	90.06	-3.10	5.34	37.17	48.47	205.68	38.72	145.35	236.95	127.42	30.09	157.75	38.09	82.81	236.78
32896	91.17	-3.10	5.34	35.44	51.53	217.20	42.57	134.36	239.44	112.99	31.06	175.75	42.05	92.22	239.28
32897	92.27	-3.10	5.34	33.46	54.73	229.02	46.50	122.90	241.89	96.99	32.66	202.54	46.16	99.60	241.75
32898	93.38	-3.10	5.34	31.33	58.11	241.15	50.54	110.95	244.25	79.26	34.73	237.62	50.42	104.10	244.17
32899	94.48	-3.10	5.34	29.28	61.70	253.47	54.74	98.56	246.47	60.24	37.16	279.60	54.85	105.07	246.48
32900	95.59	-3.10	5.34	27.77	65.66	265.59	58.92	86.10	247.73	41.25	39.72	325.88	59.25	101.86	247.87
32901	64.44	-3.97	17.16	10.90	54.19	12.28	19.20	4.30	13.61	9.91	80.56	12.60	20.37	4.4	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
32929	75.37	-5.06	17.16	55.85	43.13	4.88	8.96	150.18	103.77	90.90	52.78	13.57	11.74	176.47	117.65
32930	76.25	-5.06	17.16	9.50	7.69	11.26	2.78	158.53	74.40	46.33	15.33	15.27	5.99	175.07	95.32
32931	77.13	-5.06	17.16	62.87	26.81	3.67	25.40	139.07	25.08	70.33	41.61	3.71	26.98	146.70	53.66
32932	78.01	-5.05	17.16	23.90	22.11	6.49	35.13	134.35	12.60	47.92	55.98	8.52	35.11	136.93	37.96
32933	65.23	-6.21	17.16	15.89	45.77	12.93	21.47	7.08	15.82	13.49	62.08	13.15	21.26	8.57	25.40
32934	66.08	-6.21	17.16	30.73	49.77	13.56	31.74	7.44	11.00	25.72	73.35	16.61	30.09	14.95	24.41
32935	66.94	-6.20	17.16	47.42	56.41	13.77	44.36	9.69	8.79	42.99	84.47	17.76	43.34	24.66	23.26
32936	67.79	-6.20	17.16	67.30	65.37	13.84	58.42	13.06	7.91	68.28	94.90	17.70	58.56	34.92	21.68
32937	68.64	-6.20	17.16	92.25	77.17	14.04	74.55	17.67	8.23	103.09	105.45	17.62	75.89	45.23	19.82
32938	69.49	-6.19	17.16	124.82	93.24	14.63	94.31	24.26	10.88	148.67	118.14	18.28	96.69	56.29	18.72
32939	70.35	-6.19	17.16	168.64	118.11	15.70	120.57	34.26	19.86	207.13	138.55	20.09	123.82	69.76	23.41
32940	71.20	-6.18	17.16	231.67	158.27	17.05	160.20	51.07	49.48	285.02	174.53	23.29	164.49	89.36	51.48
32941	72.05	-6.18	17.16	338.58	357.35	23.75	211.77	98.84	168.99	406.95	381.46	27.38	217.55	139.46	177.00
32942	72.91	-6.18	17.16	226.03	278.71	46.19	98.06	203.75	285.56	271.54	298.83	46.22	101.73	244.97	303.82
32943	73.76	-6.17	17.16	13.74	9.64	32.78	29.75	219.67	235.89	37.79	14.81	33.17	35.53	252.37	257.54
32944	74.61	-6.17	17.16	13.55	12.22	14.06	18.01	177.97	128.38	46.16	13.59	15.95	22.55	200.64	146.64
32945	75.46	-6.16	17.16	108.98	21.81	11.92	48.68	177.89	89.82	140.67	30.97	11.95	58.94	194.69	109.67
32946	76.32	-6.16	17.16	10.16	11.12	13.57	2.17	198.97	79.30	44.59	19.13	15.14	7.20	209.92	107.67
32947	77.17	-6.16	17.16	139.82	28.39	8.47	20.30	155.53	30.02	141.75	36.42	15.65	27.74	160.48	63.91
32948	78.02	-6.15	17.16	49.88	16.95	7.56	2.87	138.46	10.17	67.24	36.66	16.63	2.85	139.56	39.19
32949	65.75	-7.28	17.16	18.48	40.74	13.28	22.15	9.10	17.02	15.23	50.99	13.45	20.22	12.23	27.86
32950	66.57	-7.28	17.16	33.94	46.29	13.81	29.51	9.27	12.41	29.51	61.93	15.87	26.83	17.94	26.61
32951	67.39	-7.27	17.16	51.59	55.16	13.98	39.19	11.42	10.16	49.08	73.77	16.69	37.85	25.97	25.38
32952	68.21	-7.27	17.16	72.71	66.82	14.05	50.19	14.80	9.17	75.50	86.23	16.62	50.70	34.31	23.82
32953	69.03	-7.27	17.16	99.07	81.61	14.26	62.89	19.51	9.38	109.78	100.22	16.51	65.25	42.53	22.22
32954	69.85	-7.27	17.16	133.06	101.33	14.80	78.50	26.18	11.95	153.03	118.24	16.83	82.60	50.98	21.80
32955	70.67	-7.27	17.16	178.61	129.62	15.83	99.90	36.28	21.01	207.74	144.89	17.80	105.87	60.91	27.47
32956	71.49	-7.27	17.16	242.86	185.00	16.49	131.02	54.81	47.61	279.78	201.01	18.13	139.91	77.10	53.15
32957	72.31	-7.26	17.16	338.50	223.78	18.79	157.83	99.27	98.02	381.58	242.92	19.63	171.63	118.60	106.45
32958	73.12	-7.26	17.16	464.08	197.12	21.09	239.42	183.64	212.16	518.14	214.81	21.19	261.55	204.46	230.98
32959	73.94	-7.26	17.16	90.44	68.51	59.28	34.13	292.53	266.06	113.71	77.86	68.26	41.15	318.94	293.36
32960	74.76	-7.26	17.16	39.50	16.73	35.48	21.98	256.69	157.56	46.33	20.56	43.63	22.12	275.68	181.54
32961	75.58	-7.26	17.16	110.28	8.02	13.30	43.38	227.09	98.43	133.33	13.78	21.66	55.40	237.42	124.60
32962	76.40	-7.25	17.16	10.40	13.47	15.07	1.39	246.53	84.22	42.77	22.12	31.59	7.90	253.57	119.46
32963	77.22	-7.25	17.16	176.46	35.53	15.45	19.82	196.18	36.24	178.19	38.99	28.81	31.85	200.78	74.16
32964	78.04	-7.25	17.16	66.29	19.28	10.01	2.60	173.77	7.99	79.19	25.84	18.75	2.60	174.24	42.50
32965	64.02	-3.97	15.47	9.28	54.23	37.14	15.88	12.90	25.59	9.84	62.77	43.68	13.09	24.67	43.03
32966	64.95	-3.97	15.47	18.08	53.11	40.05	26.06	16.65	18.09	25.41	70.72	63.41	24.74	48.91	40.57
32967	65.88	-3.97	15.47	27.87	52.72	41.39	38.97	21.46	13.88	47.71	78.37	71.63	38.58	75.06	39.22
32968	66.81	-3.97	15.47	38.71	53.24	41.78	53.37	27.14	12.20	74.10	84.85	72.61	53.58	101.23	37.46
32969	67.74	-3.97	15.47	50.61	54.92	41.93	69.18	33.67	12.81	102.80	89.70	71.21	69.86	125.95	35.27
32970	68.67	-3.97	15.47	63.06	57.86	42.49	86.50	41.29	17.92	131.28	92.78	71.09	87.64	148.36	34.69
32971	69.61	-3.96	15.47	74.33	61.62	43.96	104.43	50.17	31.66	155.15	93.94	75.16	106.25	167.36	41.83
32972	70.54	-3.96	15.47	79.18	64.64	45.34	116.10	59.19	57.16	165.39	93.00	84.30	119.02	178.53	63.86
32973	71.47	-3.96	15.47	69.02	58.48	40.89	90.18	64.78	73.91	147.02	86.97	81.61	94.16	166.02	80.60
32974	72.40	-3.96	15.47	90.79	54.84	31.68	103.16	71.90	83.34	183.10	79.06	62.23	109.30	151.99	91.86
32975	73.33	-3.96	15.47	61.83	36.85	24.98	56.98	90.45	87.21	155.33	65.31	33.77	63.92	160.01	98.67
32976	74.26	-3.96	15.47	42.83	23.13	22.31	35.50	96.71	60.75	139.71	54.65	22.12	42.80	155.38	76.00
32977	75.19	-3.96	15.47	31.90	16.54	22.35	26.45	96.61	35.23	130.59	46.26	20.27	33.34	143.04	55.51
32978	76.12	-3.95	15.47	26.55	14.81	22.06	21.18	94.21	12.88	125.06	40.64	20.83	26.88	126.85	40.63
32979	77.05	-3.95	15.47	24.47	15.16	20.19	18.84	93.59	15.50	122.23	38.18	21.84	23.09	112.51	36.12
32980	77.98	-3.95	15.47	24.13	16.40	20.18	19.29	95.53	34.39	120.79	37.01	25.24	22.58	103.01	44.04
32981	64.36	-5.11	15.47	11.25	51.42	38.28	17.23	15.60	28.14	12.05	57.96	43.93	12.99	30.50	51.00
32982	65.27	-5.10	15.47	20.76	50.89	40.81	25.30	19.33	21.04	28.27	65.34	60.25	23.18	52.89	49.15
32983	66.18	-5.10	15.47	31.61	51.56	42.00	36.17	24.18	16.87	50.40	72.71	67.09	35.56	76.36	47.78
32984	67.09	-5.10	15.47	43.85	53.73	42.40	48.52	30.11	14.95	76.08	79.59	67.77	48.91	99.47	45.66
32985	68.00	-5.09	15.47	57.46	57.65	42.70	62.14	37.19	14.96	103.73	85.74	66.38	63.28	120.98	42.85
32986	68.91	-5.09	15.47	72.00	63.40	43.53	77.05	45.67	18.54	131.26	91.32	65.92	78.92	140.11	40.92
32987	69.81	-5.08	15.47	85.77	70.76	45.28	92.59	55.78	29.79	155.10	96.74	68.37	95.42	156.01	44.95
32988	70.72	-5.08	15.47	93.56	75.85	47.06	104.21	66.54	52.65	167.76	99.24	73.65	108.60	165.49	63.13
32989	71.63	-5.08	15.47	74.54	74.35	40.77	74.58	71.37	64.25	145.79	98.18	65.27	79.56	154.66	74.08
32990	72.54	-5.07	15.47	111.12	78.52	32.42	94.76	80.95	73.40	193.30	99.54	46.40	102.49	146.20	84.69
32991	73.45	-5.07	15.47	88.31	45.76	28.12	61.33	110.10	92.57	173.65	67.01	28.26	69.99	167.10	106.86
32992	74.36	-5.07	15.47	51.07	23.47	23.74	36.05	125.23	77.23	141.39	46.26	20.93	45.44	172.52	94.72
32993	75.27	-5.06	15.47	30.40	21.44	21.82	18.13	123.95	48.57	123.60	44.79	20.31	27.19	159.94	70.27
32994	76.18	-5.06	15.47	26.76	20.75	20.13	9.93	116.75	18.94	121.04	43.33	22.52	18.75	140.69	49.35
32995	77.09	-5.06	15.47	25.27	15.40	17.70	10.65	122.09	12.22	119.59	35.47	26.95	18.29	134.85	43.15
32996	78.00	-5.05	15.47	22.74	14.10	20.97	13.90	131.42	33.25	115.61	30.42	33.91	18.84	135.64	50.41
32997	64.79	-6.21	15.47	13.43	48.13	39.59	18.43	19.13	30.74	14.66	52.39	44.13	12.68	37.49	57.93
32998	65.67	-6.21	15.47	23.35	48.28	41.70	24.34	22.69	23.98	31.32	59.11	56.75	21.34	57.27	56.26
32999	66.55	-6.20	15.47	34.94	50.16	42.72	32.96	27.45	19.80	52.99	66.33	61.99	32.14	77.57	54.69
33000	67.43	-6.20	15.47	48.15	54.03	43.12	43.02	33.47	17.69	77.56	73.72	62.29	43.7		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
33027	77.18	-7.25	15.47	36.66	22.18	26.03	7.24	175.00	9.72	116.57	41.93	49.56	22.33	179.96	60.60
33028	78.03	-7.25	15.47	22.77	17.62	26.67	11.03	197.03	26.48	105.69	37.34	50.40	18.12	196.94	64.10
33029	63.60	-3.97	13.78	8.46	57.86	64.97	13.79	21.58	26.04	18.66	49.08	106.09	12.11	55.63	56.12
33030	64.56	-3.97	13.78	14.86	55.19	69.53	20.03	29.03	19.16	40.39	56.04	134.08	21.12	99.02	54.84
33031	65.51	-3.97	13.78	21.88	52.87	71.58	28.08	36.08	15.38	68.04	63.08	144.95	30.64	137.00	53.84
33032	66.47	-3.97	13.78	29.24	51.08	71.72	36.97	42.91	13.87	98.90	69.37	142.89	40.25	169.12	52.04
33033	67.43	-3.97	13.78	36.40	49.87	70.72	46.03	49.58	13.00	128.56	74.63	133.67	49.72	194.14	49.19
33034	68.39	-3.97	13.78	42.72	49.20	69.20	54.35	56.11	12.03	153.87	78.48	122.15	58.42	211.09	45.67
33035	69.35	-3.96	13.78	47.47	48.67	67.27	60.28	62.36	12.21	172.40	80.71	110.69	64.90	218.60	42.62
33036	70.30	-3.96	13.78	50.70	47.43	64.24	61.58	68.19	14.35	184.01	81.16	97.72	67.04	215.32	41.09
33037	71.26	-3.96	13.78	54.92	45.86	60.06	62.73	74.21	18.17	195.97	79.65	83.06	69.27	206.18	41.83
33038	72.22	-3.96	13.78	51.69	41.43	55.06	50.92	80.27	19.87	195.33	76.23	66.70	68.70	192.24	43.09
33039	73.18	-3.96	13.78	52.97	37.05	50.09	45.47	85.30	16.57	202.13	71.14	51.63	54.10	175.44	42.55
33040	74.14	-3.96	13.78	47.47	31.64	45.21	33.23	90.75	10.71	199.48	65.80	41.89	42.37	163.34	41.20
33041	75.10	-3.96	13.78	41.70	26.99	42.18	23.25	94.13	9.93	193.50	61.26	41.82	32.32	150.03	39.41
33042	76.05	-3.95	13.78	37.85	23.34	40.03	17.30	96.17	25.74	187.11	56.98	45.38	25.83	135.17	43.57
33043	77.01	-3.95	13.78	35.66	20.49	38.60	14.53	97.91	43.42	181.12	52.59	49.20	22.10	120.26	53.92
33044	77.97	-3.95	13.78	35.09	18.75	38.09	13.50	99.47	61.25	175.65	48.66	52.30	19.85	106.47	67.80
33045	63.93	-5.10	13.78	10.04	55.78	67.18	15.39	24.51	29.86	21.89	46.42	103.08	13.02	61.90	67.82
33046	64.87	-5.10	13.78	16.71	53.51	71.00	20.07	31.92	23.31	43.24	52.93	125.85	21.61	101.78	67.14
33047	65.80	-5.10	13.78	24.04	51.74	72.72	26.59	38.89	19.43	69.49	59.64	134.25	30.51	135.89	66.09
33048	66.74	-5.09	13.78	31.80	50.74	72.84	34.02	45.77	17.54	98.31	65.92	131.69	39.22	164.22	63.94
33049	67.68	-5.09	13.78	39.45	50.61	72.06	41.67	52.67	16.40	125.85	71.49	123.02	47.65	185.81	60.64
33050	68.61	-5.09	13.78	46.34	51.23	70.92	48.71	59.60	15.29	149.50	76.03	112.30	55.37	199.97	56.61
33051	69.55	-5.08	13.78	51.65	51.95	69.42	53.76	66.42	14.75	167.36	79.15	101.42	61.25	205.82	52.92
33052	70.49	-5.08	13.78	55.07	51.83	66.65	54.60	72.87	15.52	179.26	80.61	89.04	63.20	202.70	50.42
33053	71.42	-5.08	13.78	61.37	49.77	63.22	57.27	80.50	19.27	192.75	78.96	76.38	67.36	195.81	50.92
33054	72.36	-5.07	13.78	55.26	44.08	58.79	45.10	87.85	21.51	191.04	74.63	63.40	56.69	184.99	52.13
33055	73.30	-5.07	13.78	54.91	42.55	53.74	38.35	93.77	16.31	195.72	73.52	52.30	51.09	170.76	49.82
33056	74.23	-5.07	13.78	50.01	37.55	48.51	27.72	100.51	10.56	194.39	69.15	46.49	41.27	160.78	48.01
33057	75.17	-5.06	13.78	42.94	29.93	44.72	19.27	106.19	11.04	188.81	61.75	47.69	33.26	151.02	46.45
33058	76.11	-5.06	13.78	37.38	24.62	42.66	13.84	110.84	25.08	181.81	55.89	51.96	27.44	140.63	49.15
33059	77.04	-5.06	13.78	34.88	21.90	42.05	10.79	113.63	42.11	176.00	52.05	56.46	23.09	129.12	57.40
33060	77.98	-5.05	13.78	35.10	19.75	42.48	9.43	115.77	59.89	171.40	48.45	60.17	20.11	118.77	69.84
33061	64.34	-6.21	13.78	11.81	53.30	69.70	16.91	28.32	33.55	25.83	43.51	99.42	13.89	69.32	77.72
33062	65.25	-6.20	13.78	18.52	51.47	72.70	20.05	35.51	27.21	46.49	49.40	116.50	21.93	104.61	77.23
33063	66.16	-6.20	13.78	25.95	50.37	74.05	24.90	42.34	23.18	70.95	55.79	122.12	30.17	134.21	76.01
33064	67.07	-6.20	13.78	33.89	50.22	74.14	30.68	49.17	20.94	97.34	61.98	119.00	38.01	158.19	73.64
33065	67.98	-6.19	13.78	41.83	51.15	73.57	36.71	56.20	19.56	122.41	67.80	111.01	45.43	175.90	70.17
33066	68.89	-6.19	13.78	49.15	52.98	72.76	42.29	63.48	18.34	144.17	72.96	101.39	52.12	187.03	66.08
33067	69.80	-6.18	13.78	55.04	54.93	71.70	46.25	70.90	17.47	161.21	77.00	91.66	57.27	191.25	62.31
33068	70.71	-6.18	13.78	58.79	55.01	69.81	47.08	78.29	17.67	173.28	78.41	81.55	59.50	188.74	59.84
33069	71.62	-6.18	13.78	62.83	59.51	66.97	45.28	86.75	19.34	184.06	83.73	71.49	59.09	182.85	58.96
33070	72.53	-6.17	13.78	61.27	55.59	63.08	38.18	94.48	20.68	188.11	80.69	62.51	53.73	174.34	58.77
33071	73.44	-6.17	13.78	56.19	44.97	58.23	31.39	103.20	17.83	188.29	71.20	56.32	48.67	165.95	57.32
33072	74.35	-6.17	13.78	51.36	40.78	53.33	21.94	110.05	12.42	187.83	67.86	54.88	40.54	157.37	55.22
33073	75.26	-6.16	13.78	45.14	35.16	48.54	14.06	117.67	11.01	184.07	62.90	57.01	33.75	151.61	53.36
33074	76.17	-6.16	13.78	37.14	28.15	46.32	8.57	126.07	23.05	175.85	56.19	61.44	27.69	147.31	54.84
33075	77.08	-6.16	13.78	33.87	23.42	46.51	7.11	130.02	40.40	170.21	51.12	66.04	23.75	139.43	61.44
33076	77.99	-6.15	13.78	35.06	19.47	47.70	6.65	132.81	58.39	166.50	46.83	69.89	21.13	132.34	72.58
33077	64.84	-7.28	13.78	13.51	50.43	72.41	18.33	32.88	36.98	30.15	40.32	95.31	14.61	76.88	85.81
33078	65.72	-7.27	13.78	20.15	49.29	74.56	19.96	39.82	30.70	49.93	45.77	106.58	22.00	107.28	84.80
33079	66.59	-7.27	13.78	27.46	48.84	75.54	23.08	46.43	26.55	72.31	51.81	109.45	29.61	131.92	83.42
33080	67.47	-7.27	13.78	35.31	49.49	75.62	27.08	53.16	24.02	95.99	57.89	105.93	36.64	151.28	80.93
33081	68.35	-7.27	13.78	43.26	51.38	75.27	31.35	60.25	22.41	118.40	63.92	98.95	43.11	165.05	77.57
33082	69.23	-7.27	13.78	50.72	54.27	74.84	35.20	67.80	21.11	138.05	69.63	91.04	48.73	173.25	73.82
33083	70.11	-7.27	13.78	56.88	57.28	74.39	37.76	75.78	20.07	153.97	74.49	83.56	52.94	176.05	70.41
33084	70.98	-7.26	13.78	60.73	59.59	73.53	38.03	83.99	19.69	165.72	78.04	76.86	54.91	174.09	67.90
33085	71.86	-7.26	13.78	62.46	58.93	71.39	34.71	91.95	19.22	174.09	78.49	70.70	53.48	168.40	65.87
33086	72.74	-7.26	13.78	67.25	57.83	68.02	32.61	101.32	19.94	183.99	78.24	66.38	53.22	163.17	65.81
33087	73.62	-7.26	13.78	55.42	54.49	64.23	20.38	112.55	19.66	179.20	75.87	65.56	42.82	160.42	65.80
33088	74.50	-7.26	13.78	50.62	49.44	60.29	13.24	117.53	13.90	179.51	71.75	67.53	37.11	152.08	62.24
33089	75.38	-7.26	13.78	47.06	41.22	54.28	9.45	127.03	12.74	178.20	64.86	69.76	33.75	150.64	59.98
33090	76.25	-7.25	13.78	37.38	32.87	51.52	9.75	138.97	22.43	169.86	57.80	73.48	29.62	152.35	60.86
33091	77.13	-7.25	13.78	32.73	25.81	51.73	11.34	144.97	38.48	164.29	51.50	77.38	26.39	149.07	65.73
33092	78.01	-7.25	13.78	35.22	20.13	53.15	11.91	148.69	56.16	161.09	46.63	80.74	24.11	145.20	75.23
33093	63.18	-3.97	12.09	9.27	63.00	97.52	12.52	31.16	22.99	35.22	37.09	207.52	19.25	94.88	69.05
33094	64.16	-3.97	12.09	14.74	59.28	102.79	16.31	41.93	18.61	65.72	42.75	237.15	27.25	159.84	69.13
33095	65.15	-3.97	12.09	22.18	55.80	104.35	21.02	51.42	18.77	107.24	49.56	240.94	33.84	213.75	68.00
33096	66.13	-3.97	12.09	29.70	52.54	102.93	26.01	59.53	21.20	149.08	56.80	225.16	39.63	252.08	66.00
33097	67.12	-3.97	12.09	36.75	49.61	99.64	30.78	66.56	23.67	187.96	63.36	198.56	44.35	275.58	63.14
33098	68.10	-3.96	12.09	42.70	46.98	95.33	34.78	72.79	25.22	219.54	68.83	168.03			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
33125	63.90	-6.20	12.09	12.07	59.35	103.75	16.99	37.47	33.09	45.67	33.90	185.68	26.65	107.30	95.81
33126	64.84	-6.20	12.09	17.53	56.13	106.90	18.74	47.48	28.35	73.55	39.13	201.75	35.55	159.58	97.30
33127	65.78	-6.20	12.09	24.42	53.28	107.44	21.13	56.34	26.64	109.47	45.51	199.89	42.43	201.53	96.04
33128	66.72	-6.19	12.09	31.22	50.78	105.95	23.89	64.12	26.97	144.25	52.47	184.83	48.22	230.05	93.23
33129	67.65	-6.19	12.09	37.52	48.81	103.29	26.59	71.17	28.07	175.98	58.81	163.04	52.45	246.54	89.04
33130	68.59	-6.19	12.09	42.82	47.33	100.01	28.80	77.73	29.02	201.90	64.13	139.37	55.29	252.04	84.14
33131	69.53	-6.18	12.09	46.88	46.15	96.49	30.09	84.02	29.50	221.02	68.20	117.57	56.82	248.54	79.09
33132	70.47	-6.18	12.09	49.74	45.20	92.86	30.13	90.21	29.65	233.85	71.13	99.93	57.01	238.48	74.30
33133	71.41	-6.18	12.09	50.91	42.88	89.01	28.51	96.15	30.02	240.74	71.63	87.45	55.63	223.83	70.25
33134	72.35	-6.17	12.09	51.08	40.80	84.89	25.66	102.12	31.43	243.72	71.60	80.53	52.95	207.01	67.36
33135	73.29	-6.17	12.09	50.14	38.71	80.61	21.30	107.56	34.58	243.30	70.96	78.90	48.63	189.51	65.94
33136	74.23	-6.17	12.09	48.07	34.72	76.21	17.05	112.95	40.49	239.79	68.05	81.11	43.98	172.98	66.56
33137	75.16	-6.16	12.09	45.72	30.67	72.42	13.44	117.88	49.03	234.19	64.64	85.50	39.12	157.64	69.69
33138	76.10	-6.16	12.09	43.75	26.99	69.33	11.16	122.11	59.76	227.36	61.14	90.11	34.66	143.74	75.50
33139	77.04	-6.16	12.09	42.85	23.65	67.41	9.93	125.86	72.04	219.29	57.45	93.90	30.41	131.53	83.80
33140	77.98	-6.15	12.09	44.15	21.26	66.70	9.39	128.26	85.40	211.19	53.97	96.15	26.35	120.00	94.09
33141	64.38	-7.27	12.09	13.55	56.80	107.27	19.10	41.71	37.50	51.71	32.31	172.58	29.26	113.78	105.61
33142	65.29	-7.27	12.09	18.81	54.13	109.25	19.90	51.19	32.49	77.80	37.36	181.24	38.10	158.50	106.75
33143	66.20	-7.27	12.09	25.23	51.64	109.24	21.18	59.61	30.16	110.19	43.29	176.49	44.97	193.39	105.45
33144	67.10	-7.27	12.09	31.44	49.56	107.74	22.83	67.14	29.70	140.80	49.76	162.18	50.76	216.29	102.49
33145	68.01	-7.27	12.09	37.11	48.08	105.43	24.44	74.12	30.19	168.36	55.70	143.61	54.93	228.89	98.14
33146	68.92	-7.27	12.09	41.87	47.13	102.73	25.65	80.74	30.85	190.92	60.74	124.65	57.54	232.31	93.11
33147	69.83	-7.26	12.09	45.46	46.50	99.89	26.12	87.17	31.31	207.80	64.76	108.33	58.70	228.32	87.93
33148	70.73	-7.26	12.09	47.87	45.85	96.90	25.53	93.49	31.61	219.37	67.60	96.38	58.47	218.95	83.04
33149	71.64	-7.26	12.09	49.14	45.08	93.76	23.93	99.83	31.91	226.48	69.37	89.55	56.99	206.36	78.80
33150	72.55	-7.26	12.09	48.30	43.07	90.35	20.81	105.92	33.38	228.99	69.32	87.45	53.73	191.93	75.47
33151	73.46	-7.26	12.09	47.87	40.00	86.45	18.10	111.52	36.63	230.01	67.81	88.83	50.55	176.97	73.49
33152	74.37	-7.26	12.09	45.59	36.18	82.27	14.96	117.77	41.46	227.23	65.31	92.41	46.04	164.03	73.14
33153	75.27	-7.26	12.09	43.20	32.08	78.87	13.04	123.14	49.00	222.58	62.23	97.16	41.34	151.60	74.92
33154	76.18	-7.25	12.09	41.62	27.80	75.83	12.45	127.94	58.91	217.04	58.69	101.43	37.14	140.80	79.20
33155	77.09	-7.25	12.09	41.53	23.77	73.85	12.54	132.40	70.35	210.20	55.07	104.64	33.07	131.82	85.94
33156	78.00	-7.25	12.09	44.32	20.64	73.03	12.46	135.29	82.87	203.41	51.58	106.31	28.86	123.20	94.69
33157	62.75	-3.97	10.41	11.05	69.51	135.92	13.34	42.41	21.35	52.25	45.48	355.64	36.28	150.61	88.93
33158	63.77	-3.97	10.41	20.53	65.19	141.50	16.01	56.99	22.98	118.95	40.16	385.46	43.69	250.28	86.72
33159	64.78	-3.97	10.41	30.58	60.64	140.73	18.71	68.82	28.97	181.32	39.60	366.80	49.63	322.08	83.41
33160	65.79	-3.97	10.41	41.84	56.39	135.73	20.99	78.06	35.74	248.29	44.13	320.08	51.77	366.48	79.65
33161	66.80	-3.96	10.41	51.29	52.29	128.39	22.92	84.87	41.77	301.96	51.30	260.53	52.42	381.01	77.18
33162	67.82	-3.96	10.41	58.09	48.43	120.60	24.39	90.45	46.73	338.10	58.92	203.20	52.51	374.46	75.55
33163	68.83	-3.96	10.41	62.35	44.86	113.21	25.23	95.70	50.79	358.26	65.51	155.09	52.13	355.04	74.35
33164	69.84	-3.96	10.41	64.52	41.56	106.40	25.18	101.01	54.40	365.67	70.40	118.90	51.07	328.38	73.60
33165	70.85	-3.96	10.41	65.18	38.50	100.12	24.29	106.42	58.06	364.19	73.41	95.58	49.26	298.33	73.59
33166	71.87	-3.96	10.41	64.58	35.56	94.27	22.29	111.75	62.37	356.25	74.68	84.73	46.46	267.30	74.78
33167	72.88	-3.96	10.41	63.24	32.75	88.81	19.89	116.74	67.80	344.78	74.40	83.79	43.12	236.91	77.57
33168	73.89	-3.96	10.41	61.17	30.10	83.77	17.01	121.24	74.62	330.61	72.97	88.50	39.17	208.33	82.18
33169	74.91	-3.95	10.41	58.77	27.73	79.37	14.39	125.10	83.06	315.16	70.72	95.13	35.09	181.87	88.80
33170	75.92	-3.95	10.41	56.20	25.74	75.79	12.30	128.28	92.82	298.97	67.88	101.31	31.10	157.79	97.10
33171	76.93	-3.95	10.41	53.77	24.26	73.31	10.97	130.74	103.61	282.53	64.67	105.84	27.39	135.92	106.77
33172	77.94	-3.95	10.41	51.72	23.43	72.11	10.47	132.48	115.05	266.27	61.30	108.21	24.10	116.06	117.38
33173	63.07	-5.10	10.41	12.38	68.67	138.99	16.54	44.88	27.67	59.13	45.39	333.53	45.02	154.47	106.22
33174	64.06	-5.09	10.41	21.75	64.19	143.38	18.57	58.79	27.94	123.05	39.13	356.28	53.29	245.54	105.47
33175	65.05	-5.09	10.41	31.19	59.53	142.17	20.60	70.04	32.20	180.72	38.73	336.87	60.45	309.47	102.23
33176	66.04	-5.09	10.41	41.58	55.29	137.35	22.14	79.02	37.77	241.81	43.93	293.61	63.10	348.71	97.17
33177	67.04	-5.09	10.41	50.28	51.34	130.53	23.35	85.91	43.07	290.73	51.33	239.50	63.74	361.02	92.81
33178	68.03	-5.08	10.41	56.52	47.75	123.38	24.20	91.74	47.64	323.68	58.71	187.97	63.44	354.20	89.15
33179	69.02	-5.08	10.41	60.41	44.52	116.62	24.54	97.26	51.51	342.11	64.82	145.62	62.43	335.71	86.00
33180	70.01	-5.08	10.41	62.34	41.56	110.39	24.15	102.80	55.06	349.00	69.25	115.15	60.62	310.72	83.48
33181	71.01	-5.07	10.41	62.88	38.75	104.64	23.14	108.40	58.62	347.89	71.83	97.30	58.13	282.80	81.85
33182	72.00	-5.07	10.41	62.18	35.98	99.25	21.15	113.87	62.79	340.84	72.83	90.72	54.65	254.12	81.54
33183	72.99	-5.07	10.41	60.84	33.37	94.15	18.86	119.02	68.12	330.53	72.59	92.03	50.66	226.11	82.99
33184	73.98	-5.06	10.41	58.88	30.69	89.41	16.32	123.72	74.65	317.76	71.18	97.33	46.16	199.86	86.28
33185	74.98	-5.06	10.41	56.68	28.12	85.22	14.07	127.83	82.65	303.70	68.88	103.68	41.52	175.66	91.58
33186	75.97	-5.06	10.41	54.49	25.90	81.80	12.32	131.27	91.94	288.89	66.10	109.32	36.91	153.74	98.69
33187	76.96	-5.05	10.41	52.64	24.21	79.37	11.18	133.98	102.23	273.84	63.02	113.30	32.49	133.95	107.28
33188	77.95	-5.05	10.41	51.38	23.17	78.09	10.62	135.91	113.15	258.88	59.79	115.23	28.37	116.14	116.91
33189	63.46	-6.20	10.41	13.93	67.14	142.47	19.48	48.06	33.81	67.17	43.97	308.75	51.92	158.88	119.35
33190	64.42	-6.20	10.41	23.02	62.67	145.42	20.95	61.04	32.92	127.50	37.63	322.32	60.61	239.14	120.48
33191	65.39	-6.19	10.41	31.67	58.10	143.66	22.40	71.60	35.54	179.46	37.62	301.29	68.94	293.63	118.13
33192	66.36	-6.19	10.41	41.00	53.96	139.07	23.35	80.26	39.84	233.48	43.24	261.92	72.48	326.60	112.66
33193	67.33	-6.19	10.41	48.76	50.24	132.88	23.96	87.21	44.33	276.64	50.54	214.50	73.47	336.28	107.05
33194	68.29	-6.18	10.41	54.31	46.96	126.49	24.24	93.28	48.45	305.75	57.43	170.44	73.03	329.29	101.80
33195	69.26	-6.18	10.41	57.75	44.07	120.47	24.09	99.08	52.14	322.16	62.99	135.63	71.51	312.11	97.05
33196	70.23														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
33223	64.41	-3.97	8.72	55.88	68.68	181.24	21.02	93.59	42.76	351.76	61.21	529.81	71.23	508.63	92.29
33224	65.45	-3.96	8.72	73.49	63.08	167.30	20.83	100.44	53.53	454.83	46.71	406.49	65.70	529.12	88.05
33225	66.49	-3.96	8.72	83.76	57.44	154.09	20.43	103.91	62.43	509.74	42.32	296.16	62.33	505.74	88.74
33226	67.53	-3.96	8.72	88.44	52.15	142.92	19.99	107.28	69.76	530.04	48.04	210.48	60.44	464.23	90.72
33227	68.57	-3.96	8.72	89.36	47.38	133.57	19.48	111.75	75.95	527.87	56.76	150.22	58.92	417.20	92.80
33228	69.61	-3.96	8.72	87.91	43.16	125.53	18.77	117.33	81.49	512.07	64.32	114.33	57.04	370.41	94.89
33229	70.65	-3.96	8.72	85.04	39.42	118.39	17.76	123.58	86.82	488.52	69.59	100.25	54.48	326.26	97.31
33230	71.69	-3.96	8.72	81.40	36.13	111.86	16.49	130.00	92.34	461.20	72.57	101.20	51.26	285.66	100.42
33231	72.73	-3.96	8.72	77.36	33.23	105.84	15.00	136.14	98.38	432.44	73.62	108.90	47.46	248.87	104.51
33232	73.77	-3.96	8.72	73.18	30.72	100.35	13.50	141.70	105.15	403.81	73.12	118.03	43.34	215.81	109.76
33233	74.81	-3.95	8.72	69.02	28.61	95.55	12.13	146.49	112.72	376.05	71.46	126.16	39.06	186.28	116.15
33234	75.85	-3.95	8.72	65.03	26.98	91.69	11.06	150.40	121.07	349.61	68.99	132.31	34.80	159.95	123.60
33235	76.89	-3.95	8.72	61.34	25.88	89.02	10.35	153.39	130.03	324.67	65.98	136.12	30.72	136.44	131.88
33236	77.93	-3.95	8.72	58.04	25.39	87.80	10.10	155.42	139.37	301.28	62.65	137.54	26.93	115.40	140.72
33237	62.64	-5.10	8.72	24.36	80.10	185.62	21.10	59.30	27.18	142.97	103.54	542.22	75.54	247.82	143.60
33238	63.66	-5.09	8.72	32.96	73.01	189.44	24.54	78.04	35.35	203.31	71.35	557.17	94.98	383.96	131.30
33239	64.68	-5.09	8.72	55.18	67.42	182.67	24.69	93.07	46.06	342.52	55.29	489.29	90.90	483.95	113.85
33240	65.70	-5.09	8.72	71.42	61.47	169.54	23.97	100.01	55.60	437.52	42.96	376.44	85.11	502.33	106.83
33241	66.72	-5.08	8.72	80.82	55.81	157.08	23.15	103.99	63.60	487.69	42.62	275.20	81.23	479.68	104.45
33242	67.74	-5.08	8.72	85.00	50.71	146.56	22.38	107.92	70.33	505.60	50.04	197.62	78.46	440.16	103.47
33243	68.76	-5.08	8.72	85.70	46.24	137.77	21.56	112.81	76.17	502.81	58.37	144.98	75.70	395.71	102.90
33244	69.78	-5.07	8.72	84.24	42.34	130.24	20.60	118.62	81.49	487.67	64.92	116.11	72.38	351.70	102.73
33245	70.80	-5.07	8.72	81.48	38.90	123.55	19.41	124.95	86.68	465.63	69.25	107.04	68.32	310.31	103.29
33246	71.82	-5.07	8.72	78.06	35.83	117.45	18.05	131.35	92.07	440.35	71.53	110.13	63.66	272.35	104.86
33247	72.84	-5.07	8.72	74.29	33.05	111.82	16.57	137.44	97.91	413.84	72.10	118.12	58.54	238.01	107.65
33248	73.86	-5.06	8.72	70.45	30.59	106.67	15.13	142.97	104.44	387.47	71.37	126.80	53.20	207.17	111.79
33249	74.88	-5.06	8.72	66.71	28.48	102.16	13.84	147.76	111.70	361.90	69.67	134.29	47.79	179.66	117.20
33250	75.90	-5.06	8.72	63.22	26.79	98.48	12.80	151.71	119.68	337.49	67.25	139.83	42.47	155.17	123.77
33251	76.92	-5.05	8.72	60.11	25.62	95.86	12.02	154.76	128.22	314.40	64.36	143.13	37.36	133.38	131.26
33252	77.94	-5.05	8.72	57.50	25.07	94.50	11.56	156.87	137.11	292.67	61.19	144.16	32.56	113.97	139.35
33253	63.01	-6.20	8.72	26.42	79.96	188.24	25.10	61.74	34.79	153.73	103.15	493.14	88.35	245.92	156.58
33254	64.01	-6.19	8.72	33.94	71.91	190.53	28.45	78.58	40.56	205.35	66.06	499.99	111.35	363.21	151.15
33255	65.01	-6.19	8.72	53.85	65.72	183.94	28.31	92.38	49.29	329.17	49.22	438.67	108.71	450.90	134.87
33256	66.00	-6.19	8.72	68.38	59.59	171.80	27.34	99.42	57.40	413.96	40.32	338.27	103.69	466.35	126.25
33257	67.00	-6.19	8.72	76.68	54.05	160.34	26.28	104.04	64.46	458.14	43.35	249.00	99.64	444.97	120.99
33258	67.99	-6.18	8.72	80.29	49.25	150.68	25.22	108.67	70.61	473.37	51.21	182.45	95.81	408.67	116.88
33259	68.99	-6.18	8.72	80.82	45.11	142.62	24.09	114.06	76.11	470.34	58.61	139.98	91.46	368.15	113.47
33260	69.98	-6.18	8.72	79.44	41.51	135.70	22.84	120.13	81.25	456.61	64.08	119.62	86.38	328.14	110.93
33261	70.98	-6.17	8.72	76.95	38.30	129.54	21.47	126.53	86.30	436.98	67.53	115.77	80.66	290.53	109.55
33262	71.98	-6.17	8.72	73.87	35.41	123.91	20.01	132.89	91.54	414.52	69.27	120.80	74.49	256.02	109.53
33263	72.97	-6.17	8.72	70.54	32.77	118.70	18.55	138.91	97.18	391.02	69.61	128.93	68.07	224.74	110.98
33264	73.97	-6.16	8.72	67.19	30.34	113.92	17.18	144.37	103.42	367.54	68.81	137.07	61.58	196.66	113.93
33265	74.96	-6.16	8.72	64.01	28.19	109.71	15.99	149.13	110.32	344.70	67.15	143.86	55.16	171.59	118.27
33266	75.96	-6.16	8.72	61.15	26.44	106.22	14.99	153.09	117.84	322.79	64.89	148.73	48.94	149.31	123.83
33267	76.96	-6.15	8.72	58.77	25.20	103.65	14.17	156.19	125.86	301.94	62.21	151.48	42.97	129.56	130.37
33268	77.95	-6.15	8.72	56.98	24.61	102.15	13.53	158.39	134.20	282.22	59.30	152.07	37.32	112.06	137.58
33269	63.47	-7.27	8.72	28.24	78.18	190.87	28.24	64.71	42.81	163.14	97.61	442.17	95.51	242.59	163.38
33270	64.43	-7.27	8.72	34.62	70.16	191.04	31.31	79.33	45.78	206.09	60.72	434.71	120.78	338.03	166.22
33271	65.40	-7.27	8.72	51.84	63.62	184.64	31.26	91.69	52.28	312.21	44.29	378.60	121.47	410.15	153.26
33272	66.37	-7.27	8.72	64.29	57.56	173.80	30.41	98.83	58.88	384.35	38.63	293.08	118.59	421.68	143.78
33273	67.33	-7.27	8.72	71.30	52.31	163.67	29.30	104.21	64.99	421.35	43.22	219.31	114.80	402.39	135.90
33274	68.30	-7.26	8.72	74.34	47.85	155.13	28.04	109.63	70.59	433.93	50.48	167.09	109.93	370.74	128.91
33275	69.27	-7.26	8.72	74.79	44.01	147.94	26.66	115.54	75.79	431.36	56.80	137.05	104.00	335.52	122.96
33276	70.23	-7.26	8.72	73.65	40.65	141.72	25.20	121.85	80.75	419.91	61.40	125.72	97.30	300.64	118.34
33277	71.20	-7.26	8.72	71.59	37.65	136.14	23.70	128.28	85.65	403.53	64.34	126.54	90.11	267.69	115.27
33278	72.17	-7.26	8.72	69.03	34.88	131.02	22.21	134.56	90.71	384.62	65.81	133.05	82.69	237.27	113.85
33279	73.13	-7.26	8.72	66.29	32.28	126.25	20.81	140.44	96.13	364.74	66.08	141.09	75.25	209.57	114.08
33280	74.10	-7.26	8.72	63.58	29.87	121.85	19.56	145.80	102.02	344.66	65.40	148.59	67.88	184.63	115.89
33281	75.07	-7.25	8.72	61.10	27.70	117.94	18.48	150.48	108.48	324.96	63.97	154.63	60.71	162.31	119.15
33282	76.03	-7.25	8.72	59.02	25.89	114.64	17.55	154.42	115.47	305.90	61.97	158.80	53.81	142.51	123.66
33283	77.00	-7.25	8.72	57.48	24.60	112.12	16.72	157.56	122.89	287.60	59.61	160.96	47.22	125.01	129.15
33284	77.97	-7.25	8.72	56.56	23.99	110.49	15.98	159.83	130.57	270.13	57.02	161.11	40.95	109.63	135.35
33285	61.91	-3.97	7.03	14.53	91.52	252.96	27.23	80.13	14.47	63.88	179.30	1031.83	130.18	418.38	188.57
33286	62.98	-3.97	7.03	98.28	92.47	249.02	28.79	132.18	36.90	624.17	202.80	954.26	95.39	814.81	100.92
33287	64.04	-3.97	7.03	132.05	83.80	212.58	25.61	130.73	58.04	818.78	149.56	627.69	70.33	788.75	87.21
33288	65.11	-3.96	7.03	142.20	74.29	188.73	22.20	122.79	73.45	865.99	97.74	409.00	60.76	692.92	92.61
33289	66.18	-3.96	7.03	141.11	65.39	172.76	19.76	118.61	84.77	847.93	60.05	265.94	59.49	594.11	100.23
33290	67.25	-3.96	7.03	134.81	57.66	161.22	18.21	119.68	93.55	801.05	44.59	175.89	61.01	507.02	106.58
33291	68.31	-3.96	7.03	126.34	51.16	152.03	17.14	124.74	100.84	742.77	48.33	127.26	62.21	433.32	111.58
33292	69.38	-3.96	7.03	117.22	45.76	144.04	16.22	132.08	107.31	681.76	57.12	112.06	61.88	371.44	115.85
33293	70.45	-3.96	7.03	108.24	41.26	136.68	15.30	140.35</							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
33321	66.67	-6.18	7.03	127.98	59.76	181.76	29.50	118.12	87.14	762.59	43.80	233.11	117.51	531.44	129.69
33322	67.69	-6.18	7.03	121.44	52.95	171.28	27.82	121.12	94.18	715.64	46.94	164.90	114.49	452.87	129.01
33323	68.72	-6.18	7.03	113.43	47.53	162.93	26.21	127.18	100.43	661.46	54.97	134.74	109.52	387.52	127.92
33324	69.74	-6.17	7.03	105.45	43.10	155.72	24.60	134.77	106.24	607.16	61.46	130.39	102.86	333.28	127.32
33325	70.77	-6.17	7.03	97.44	39.38	149.16	22.99	142.84	111.86	555.76	65.63	138.24	95.12	287.84	127.69
33326	71.79	-6.17	7.03	90.23	36.19	143.02	21.44	150.74	117.48	508.37	67.80	149.42	86.88	249.30	129.20
33327	72.82	-6.17	7.03	83.70	33.45	137.25	19.98	158.06	123.26	465.23	68.38	160.03	78.54	216.23	131.86
33328	73.84	-6.16	7.03	77.86	31.12	131.94	18.65	164.57	129.31	426.21	67.75	168.74	70.36	187.58	135.59
33329	74.86	-6.16	7.03	72.71	29.23	127.26	17.45	170.14	135.68	391.00	66.22	175.14	62.51	162.60	140.26
33330	75.89	-6.16	7.03	68.24	27.81	123.42	16.40	174.67	142.36	359.24	64.02	179.21	55.08	140.69	145.70
33331	76.91	-6.15	7.03	64.45	26.94	120.67	15.48	178.13	149.28	330.57	61.37	181.04	48.13	121.38	151.72
33332	77.94	-6.15	7.03	61.33	26.65	119.20	14.74	180.50	156.34	304.62	58.44	180.77	41.68	104.35	158.10
33333	63.01	-7.27	7.03	21.13	102.76	251.97	49.75	81.83	39.38	107.44	195.28	739.20	231.10	355.78	248.00
33334	64.00	-7.27	7.03	89.10	89.37	248.06	45.87	118.57	57.98	543.56	147.22	704.65	189.24	659.99	170.69
33335	65.00	-7.27	7.03	113.62	75.66	219.45	41.22	119.27	70.67	689.10	84.02	470.09	167.40	639.10	158.80
33336	66.00	-7.27	7.03	119.21	65.00	200.10	38.00	116.54	79.77	714.23	49.12	310.17	157.95	559.23	153.74
33337	66.99	-7.26	7.03	116.55	57.05	187.02	35.47	117.46	87.19	690.31	42.63	212.66	150.25	479.47	147.67
33338	67.99	-7.26	7.03	110.61	50.97	177.41	33.13	122.02	93.69	648.19	48.48	160.74	141.18	411.14	141.57
33339	68.99	-7.26	7.03	103.64	46.12	169.67	30.88	128.78	99.61	601.12	55.18	141.87	130.85	354.29	136.57
33340	69.98	-7.26	7.03	96.64	42.08	162.96	28.74	136.51	105.19	554.50	60.18	142.64	119.94	306.84	133.18
33341	70.98	-7.26	7.03	90.02	38.63	156.85	26.74	144.43	110.59	510.47	63.37	151.55	108.97	266.75	131.54
33342	71.97	-7.26	7.03	83.95	35.62	151.14	24.91	152.04	115.98	469.80	65.02	162.20	98.30	232.46	131.54
33343	72.97	-7.26	7.03	78.48	33.00	145.81	23.26	159.06	121.49	432.59	65.43	171.92	88.10	202.81	133.00
33344	73.97	-7.26	7.03	73.63	30.75	140.90	21.79	165.29	127.21	398.74	64.86	179.75	78.48	176.97	135.72
33345	74.96	-7.25	7.03	69.42	28.90	136.57	20.50	170.63	133.19	367.98	63.52	185.40	69.48	154.34	139.48
33346	75.96	-7.25	7.03	65.87	27.52	132.97	19.35	175.02	139.43	340.05	61.61	188.88	61.08	134.46	144.09
33347	76.96	-7.25	7.03	62.98	26.68	130.30	18.33	178.41	145.86	314.64	59.29	190.26	53.29	116.98	149.31
33348	77.95	-7.25	7.03	60.73	26.44	128.73	17.45	180.79	152.40	291.47	56.72	189.68	46.09	101.65	154.95
33349	61.49	-3.97	5.34	351.50	153.34	424.63	71.20	270.89	23.54	2194.97	661.25	2266.29	108.70	1734.30	178.56
33350	62.58	-3.97	5.34	326.12	124.27	258.00	50.54	185.61	45.77	1956.19	421.38	904.00	53.61	1160.60	96.73
33351	63.68	-3.96	5.34	284.62	106.09	218.36	33.89	140.16	78.35	1671.70	282.92	500.05	35.40	841.29	99.65
33352	64.77	-3.96	5.34	247.11	89.72	199.73	23.37	121.31	96.88	1439.20	178.34	296.29	31.66	649.93	110.48
33353	65.86	-3.96	5.34	215.14	75.60	188.48	18.14	118.93	109.00	1248.04	103.61	184.72	40.19	523.06	119.49
33354	66.96	-3.96	5.34	188.06	64.21	179.92	16.20	125.23	118.01	1087.31	59.10	131.24	51.17	431.93	126.40
33355	68.05	-3.96	5.34	165.13	55.35	172.29	15.57	135.35	125.46	950.61	45.43	120.00	58.97	362.85	132.01
33356	69.15	-3.96	5.34	145.74	48.46	164.83	15.18	146.72	132.12	833.94	50.40	130.43	62.48	308.55	137.04
33357	70.24	-3.96	5.34	129.33	43.03	157.31	14.67	158.04	138.38	734.18	57.90	146.39	62.42	264.69	141.95
33358	71.34	-3.96	5.34	115.41	38.70	149.71	14.02	168.63	144.51	648.70	63.05	161.38	59.85	228.46	147.03
33359	72.43	-3.96	5.34	103.53	35.22	142.20	13.25	178.14	150.66	575.28	65.54	173.64	55.75	197.96	152.41
33360	73.53	-3.95	5.34	93.35	32.46	135.08	12.44	186.38	156.95	512.03	65.91	182.92	50.84	171.87	158.15
33361	74.62	-3.95	5.34	84.58	30.37	128.73	11.63	193.24	163.42	457.39	64.72	189.38	45.62	149.24	164.22
33362	75.71	-3.95	5.34	77.01	28.89	123.61	10.87	198.66	170.06	410.05	62.47	193.27	40.41	129.35	170.60
33363	76.81	-3.95	5.34	70.48	28.03	120.16	10.21	202.63	176.82	368.94	59.52	194.84	35.42	111.67	177.18
33364	77.90	-3.95	5.34	64.89	27.75	118.78	9.80	205.13	183.61	333.13	56.14	194.31	30.79	95.80	183.84
33365	61.77	-5.09	5.34	344.73	154.86	416.45	66.39	263.94	8.52	2138.34	669.39	2106.37	121.09	1670.70	201.95
33366	62.85	-5.09	5.34	318.64	127.03	259.74	46.08	181.14	54.48	1906.71	424.52	843.01	51.73	1128.33	110.28
33367	63.92	-5.08	5.34	277.83	106.20	221.87	31.62	138.51	84.12	1632.42	266.93	464.24	39.37	821.67	111.40
33368	65.00	-5.08	5.34	240.77	87.19	204.10	24.48	121.60	100.25	1403.10	152.24	277.45	50.11	634.50	121.09
33369	66.08	-5.08	5.34	208.73	72.05	193.25	22.21	120.19	110.65	1210.29	80.32	178.78	68.01	508.83	128.27
33370	67.15	-5.08	5.34	181.52	60.93	184.96	21.64	126.81	118.56	1048.01	48.81	135.68	81.11	418.69	133.00
33371	68.23	-5.07	5.34	158.72	52.80	177.58	21.21	136.89	125.32	911.87	47.65	129.72	87.10	350.96	136.54
33372	69.30	-5.07	5.34	139.73	46.65	170.43	20.49	148.01	131.52	797.68	55.08	140.88	87.39	298.21	139.86
33373	70.38	-5.07	5.34	123.90	41.83	163.27	19.53	158.99	137.45	701.55	61.19	156.03	83.92	255.91	143.45
33374	71.46	-5.07	5.34	110.64	37.96	156.10	18.41	169.23	143.30	620.15	64.70	170.08	78.25	221.11	147.52
33375	72.53	-5.06	5.34	99.45	34.81	149.08	17.25	178.42	149.20	550.81	65.99	181.56	71.50	191.90	152.12
33376	73.61	-5.06	5.34	89.96	32.28	142.45	16.11	186.39	155.24	491.39	65.63	190.25	64.34	166.93	157.23
33377	74.68	-5.06	5.34	81.88	30.33	136.56	15.02	193.04	161.43	440.19	64.08	196.28	57.22	145.29	162.80
33378	75.76	-5.06	5.34	74.98	28.95	131.78	14.01	198.32	167.79	395.88	61.71	199.85	50.38	126.29	168.72
33379	76.84	-5.05	5.34	69.12	28.15	128.50	13.13	202.21	174.25	357.38	58.79	201.19	43.97	109.45	174.88
33380	77.91	-5.05	5.34	64.19	27.92	127.04	12.46	204.71	180.75	323.80	55.56	200.50	38.08	94.40	181.16
33381	62.13	-6.19	5.34	339.16	160.23	409.64	67.64	256.44	8.09	2087.28	660.97	1941.75	136.43	1609.37	206.74
33382	63.18	-6.19	5.34	310.21	129.75	262.71	45.25	176.18	64.72	1853.35	401.51	778.71	61.24	1093.97	120.76
33383	64.23	-6.19	5.34	268.94	103.16	226.53	33.72	136.48	90.27	1579.37	222.90	426.14	67.78	794.70	126.74
33384	65.29	-6.18	5.34	230.75	81.58	209.71	30.47	121.62	103.19	1342.42	109.59	258.51	94.65	608.75	135.99
33385	66.34	-6.18	5.34	198.02	66.98	199.34	29.81	121.55	111.72	1145.22	56.55	175.04	113.97	485.09	140.10
33386	67.39	-6.18	5.34	170.99	57.24	191.33	29.05	128.74	118.61	984.37	46.53	142.88	121.27	398.01	141.38
33387	68.45	-6.18	5.34	149.01	50.31	184.18	27.80	138.82	124.78	853.56	52.49	141.65	120.02	333.60	142.04
33388	69.50	-6.17	5.34	131.13	45.05	177.32	26.22	149.65	130.57	746.36	58.84	153.24	113.87	283.92	143.16
33389	70.55	-6.17	5.34	116.49	40.85	170.52	24.52	160.21	136.17	657.48	62.92	167.49	105.27	244.23	145.14
33390	71.61	-6.17	5.34	104.39	37.39	163.80	22.84	170.01	141.73	582.89	64.9				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
33419	83.78	-7.26	17.16	599.12	169.81	21.52	236.28	215.69	248.56	662.31	169.48	24.76	238.89	227.00	252.81
33420	84.59	-7.26	17.16	448.80	193.41	18.21	159.29	121.97	129.32	502.01	193.63	21.10	160.06	129.20	129.71
33421	85.41	-7.27	17.16	340.03	149.02	15.97	134.14	71.74	74.73	392.24	145.92	18.77	133.99	78.50	74.16
33422	86.23	-7.27	17.16	263.73	92.49	14.93	105.89	50.90	44.84	312.00	86.63	16.52	105.85	57.31	44.17
33423	87.05	-7.27	17.16	206.86	66.41	13.77	87.93	39.74	33.70	248.67	57.90	14.54	87.95	45.67	32.98
33424	87.87	-7.27	17.16	162.12	51.19	13.27	75.61	32.76	29.55	195.97	39.19	13.64	75.54	38.28	28.88
33425	88.69	-7.27	17.16	125.39	43.09	13.19	65.94	28.31	28.44	150.56	26.87	13.45	65.62	33.39	27.99
33426	89.51	-7.27	17.16	94.04	40.17	13.33	57.52	25.60	29.26	110.44	20.19	13.72	56.70	30.03	29.24
33427	90.33	-7.28	17.16	66.12	41.42	13.59	49.54	24.25	32.01	74.29	20.72	14.34	47.79	27.74	32.77
33428	91.15	-7.28	17.16	40.11	46.26	13.97	41.41	24.31	37.95	41.41	28.24	14.86	37.95	26.71	40.13
33429	78.88	-6.15	17.16	35.46	8.79	20.51	2.02	143.13	21.08	60.14	32.38	25.32	12.22	142.29	41.26
33430	79.73	-6.16	17.16	130.17	20.12	35.28	19.88	172.62	57.19	134.97	27.48	38.27	34.60	171.66	74.05
33431	80.58	-6.16	17.16	18.02	6.34	22.02	1.66	215.40	108.54	48.02	12.62	25.03	4.59	216.24	121.71
33432	81.44	-6.16	17.16	137.68	13.51	16.16	49.96	193.94	119.34	161.56	17.93	17.97	51.67	197.61	126.52
33433	82.29	-6.17	17.16	26.21	23.63	34.53	19.66	207.03	158.29	56.48	23.47	36.65	19.67	214.44	164.02
33434	83.14	-6.17	17.16	28.32	8.77	60.02	29.63	261.38	275.32	54.85	6.72	60.27	30.00	276.14	281.67
33435	83.99	-6.18	17.16	303.28	271.22	64.69	86.34	242.09	337.83	355.79	272.43	66.27	86.36	264.18	341.70
33436	84.85	-6.18	17.16	450.73	343.84	28.06	209.59	122.31	212.88	532.59	343.93	37.35	208.64	144.70	212.99
33437	85.70	-6.18	17.16	324.94	128.96	16.63	164.13	67.72	79.42	398.54	124.49	23.66	163.81	84.09	78.96
33438	86.55	-6.19	17.16	247.33	86.97	14.95	127.77	47.84	46.79	310.69	80.72	18.11	127.73	59.91	46.38
33439	87.41	-6.19	17.16	191.20	63.62	13.69	103.99	36.29	35.84	243.28	54.84	15.07	104.00	45.70	35.32
33440	88.26	-6.20	17.16	147.72	51.61	13.14	86.46	29.16	31.45	188.24	39.89	13.77	86.38	36.95	30.96
33441	89.11	-6.20	17.16	112.66	45.78	13.06	72.46	24.72	29.95	141.75	30.77	13.48	72.16	31.31	29.63
33442	89.96	-6.20	17.16	83.08	44.00	13.20	60.39	22.03	30.37	101.35	25.91	13.76	59.63	27.35	30.41
33443	90.82	-6.21	17.16	56.89	45.12	13.46	49.15	20.63	32.87	65.56	25.03	14.45	47.51	24.39	33.57
33444	91.67	-6.21	17.16	32.56	48.99	13.82	37.91	20.56	38.70	33.71	28.91	14.98	34.56	22.67	40.63
33445	78.89	-5.05	17.16	16.03	17.84	19.36	35.31	137.61	27.79	46.29	51.81	20.48	35.96	137.33	44.18
33446	79.77	-5.06	17.16	56.24	22.30	27.84	26.12	150.57	61.43	67.95	34.78	27.96	30.40	149.66	73.45
33447	80.65	-5.06	17.16	14.46	4.69	23.33	2.11	171.93	110.10	47.62	9.79	22.65	5.07	173.28	118.89
33448	81.53	-5.06	17.16	73.36	38.67	24.91	6.70	165.25	143.19	100.79	41.95	24.41	8.18	170.96	147.85
33449	82.42	-5.07	17.16	38.23	97.96	40.01	25.52	164.20	175.87	70.30	101.99	39.71	31.91	175.27	178.04
33450	83.30	-5.07	17.16	23.28	79.41	56.24	18.44	200.77	259.31	45.58	81.65	56.56	24.10	220.16	261.79
33451	84.18	-5.07	17.16	107.49	56.53	65.40	72.96	248.88	384.22	144.64	55.77	69.63	73.03	284.01	387.38
33452	85.06	-5.08	17.16	474.13	160.01	16.89	382.10	135.03	265.91	592.51	156.36	52.47	382.75	178.28	266.56
33453	85.94	-5.08	17.16	313.64	118.86	16.57	213.59	73.59	90.94	412.03	114.79	27.60	213.31	100.39	90.64
33454	86.82	-5.09	17.16	228.66	77.48	15.13	155.54	46.46	51.97	308.84	70.84	19.91	155.47	64.31	51.73
33455	87.70	-5.09	17.16	171.93	60.30	13.58	121.09	32.90	39.02	235.51	51.57	15.52	121.09	45.84	38.70
33456	88.58	-5.09	17.16	130.63	51.81	13.01	97.17	25.45	33.61	178.71	40.86	13.87	97.12	35.58	33.29
33457	89.46	-5.10	17.16	98.35	48.24	12.95	78.60	21.08	31.45	132.00	34.87	13.50	78.38	29.25	31.25
33458	90.35	-5.10	17.16	71.48	47.42	13.11	62.91	18.49	31.42	92.11	31.30	13.81	62.33	24.75	31.49
33459	91.23	-5.11	17.16	47.76	48.38	13.36	48.57	17.12	33.61	57.29	29.33	14.57	47.26	21.15	34.17
33460	92.11	-5.11	17.16	25.59	51.04	13.69	34.51	16.86	39.41	26.89	29.78	15.10	31.65	18.62	40.93
33461	78.90	-3.95	17.16	6.60	6.12	23.22	12.11	129.65	36.92	48.52	11.03	25.82	13.16	129.98	54.02
33462	79.81	-3.95	17.16	7.45	8.62	27.40	11.24	130.73	72.65	48.11	11.18	28.59	12.03	129.96	81.68
33463	80.71	-3.95	17.16	9.68	11.69	32.97	11.99	134.50	111.60	49.32	12.88	34.01	12.22	136.72	117.11
33464	81.61	-3.96	17.16	15.01	11.04	36.51	13.38	142.41	153.97	54.02	12.14	39.03	13.40	151.23	157.66
33465	82.52	-3.96	17.16	25.03	7.13	37.03	15.48	152.88	203.35	63.62	8.43	43.02	15.48	170.84	205.99
33466	83.42	-3.96	17.16	44.63	13.48	39.99	28.85	166.44	271.52	83.79	12.56	49.69	28.92	195.91	273.58
33467	84.32	-3.96	17.16	81.37	34.56	60.17	79.88	184.43	382.77	126.81	32.98	69.26	80.11	229.87	384.66
33468	85.23	-3.96	17.16	347.40	102.72	16.81	405.64	104.31	275.87	495.78	99.11	59.83	406.24	161.84	276.40
33469	86.13	-3.96	17.16	263.54	79.42	17.40	258.58	63.83	103.71	385.01	71.63	31.66	258.56	98.93	103.53
33470	87.04	-3.97	17.16	193.70	65.46	14.90	180.77	40.12	58.22	291.41	56.84	20.94	180.74	63.24	58.06
33471	87.94	-3.97	17.16	145.36	55.93	13.42	136.70	27.84	42.45	221.51	46.49	15.80	136.70	44.26	42.27
33472	88.84	-3.97	17.16	110.02	51.76	12.91	106.70	21.17	35.69	166.64	41.41	13.93	106.68	33.71	35.52
33473	89.75	-3.97	17.16	82.45	50.34	12.87	83.94	17.28	32.81	121.45	38.43	13.52	83.80	27.15	32.70
33474	90.65	-3.97	17.16	59.41	50.29	13.05	65.04	14.96	32.34	82.98	35.92	13.85	64.66	22.27	32.39
33475	91.56	-3.97	17.16	38.87	51.01	13.30	47.95	13.69	34.24	49.72	33.16	14.68	47.06	18.05	34.61
33476	92.46	-3.97	17.16	19.57	52.62	13.60	31.27	13.38	40.03	21.25	30.88	15.22	29.18	14.84	41.07
33477	78.87	-7.25	15.47	38.95	13.57	45.17	11.29	200.56	52.10	109.26	33.73	62.37	16.71	196.67	75.73
33478	79.72	-7.25	15.47	73.01	12.92	56.85	8.27	183.08	77.51	129.62	32.08	71.56	10.60	176.97	92.30
33479	80.57	-7.25	15.47	61.46	16.75	49.93	5.34	169.14	103.36	126.63	31.78	64.47	10.17	161.83	113.22
33480	81.42	-7.26	15.47	71.25	28.75	45.54	5.21	186.79	136.28	130.98	39.43	58.99	9.40	179.90	144.09
33481	82.27	-7.26	15.47	154.57	44.33	47.02	23.92	177.98	160.54	202.80	51.65	55.92	23.82	171.23	166.49
33482	83.12	-7.26	15.47	192.11	67.77	37.64	44.67	135.36	163.95	239.26	71.97	38.96	44.80	126.53	167.92
33483	83.97	-7.26	15.47	140.78	82.08	39.30	41.93	132.23	169.38	181.33	85.06	39.38	41.72	125.67	171.61
33484	84.82	-7.26	15.47	182.56	86.27	43.14	79.92	123.84	155.32	224.73	86.21	46.04	80.17	122.08	156.00
33485	85.66	-7.26	15.47	180.01	76.74	42.83	84.04	106.54	122.55	221.00	74.56	45.81	84.14	108.07	122.18
33486	86.51	-7.27	15.47	161.06	65.98	41.41	79.76	92.14	99.90	200.39	61.06	43.62	79.68	96.71	99.06
33487	87.36	-7.27	15.47	138.82	54.06	40.26	72.05	81.05	87.03	174.91	45.65	41.55	71.79	87.83	86.06
33488	88.21	-7.27	15.47	116.82	45.90	39.89	64.45	72.64	81.12	147.98	33.09	40.71	63.96	80.82	80.26
33489	89.06	-7.27	15.47	96.07	41.40	40.14	57.60	66.51	79.85	120.99	23.28	41.14	56.79	75.32	79.37
33490	89.91	-7.27	15.47	76.87	40										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
33517	86.18	-5.08	15.47	134.45	61.79	42.65	119.21	81.59	142.92	194.28	58.78	60.03	119.28	96.18	142.59
33518	87.09	-5.08	15.47	126.62	56.97	41.08	108.84	72.91	114.60	186.00	51.79	50.51	108.81	90.85	114.09
33519	87.99	-5.09	15.47	110.21	50.61	39.56	94.24	63.57	98.13	164.07	42.26	44.48	94.16	81.61	97.58
33520	88.90	-5.09	15.47	91.98	46.65	39.17	80.37	55.75	89.76	137.41	34.28	42.08	80.17	72.83	89.30
33521	89.81	-5.10	15.47	74.29	45.00	39.52	67.90	49.79	86.66	109.68	27.90	42.12	67.50	65.30	86.45
33522	90.72	-5.10	15.47	57.81	45.19	40.18	56.67	45.62	87.63	82.38	23.13	43.85	55.98	58.84	87.88
33523	91.63	-5.10	15.47	42.62	46.66	40.95	46.59	43.17	92.52	56.25	20.32	46.89	45.47	53.25	93.48
33524	92.54	-5.11	15.47	28.70	48.80	42.15	38.14	42.28	101.81	32.50	19.74	50.59	36.34	48.36	103.75
33525	78.92	-3.95	15.47	25.68	17.09	22.52	19.32	97.02	51.51	119.73	34.92	28.71	22.12	95.94	57.31
33526	79.85	-3.95	15.47	29.03	18.51	23.84	18.77	97.87	71.85	119.33	32.74	29.17	20.91	90.99	76.16
33527	80.78	-3.95	15.47	34.93	20.42	24.46	20.70	101.00	96.72	121.23	31.74	27.76	21.70	91.57	100.20
33528	81.71	-3.96	15.47	45.30	19.57	27.96	25.78	105.89	123.35	127.52	30.48	28.84	26.01	97.25	126.14
33529	82.64	-3.96	15.47	62.09	18.39	34.53	35.40	108.01	152.89	140.15	29.15	33.00	35.40	101.51	155.05
33530	83.57	-3.96	15.47	88.29	27.33	39.56	59.27	101.53	183.95	162.97	32.94	37.03	59.33	96.22	185.49
33531	84.50	-3.96	15.47	126.10	43.89	31.45	111.47	77.90	181.83	201.22	43.42	43.59	111.74	69.73	182.62
33532	85.43	-3.96	15.47	96.06	47.93	35.83	100.17	71.75	172.17	156.46	47.81	61.74	100.30	75.40	172.33
33533	86.36	-3.96	15.47	110.30	54.21	41.52	131.67	69.79	152.63	182.73	50.48	65.13	131.74	92.14	152.46
33534	87.29	-3.96	15.47	105.61	51.37	40.43	121.33	62.48	122.11	177.51	45.57	52.90	121.32	87.83	121.82
33535	88.23	-3.97	15.47	92.26	48.39	39.10	103.96	54.08	103.50	157.09	39.96	45.46	103.91	78.22	103.19
33536	89.16	-3.97	15.47	76.84	46.69	38.87	87.27	46.91	93.66	131.11	34.70	42.57	87.16	68.80	93.39
33537	90.09	-3.97	15.47	61.71	46.43	39.30	72.27	41.33	89.54	103.72	30.08	42.50	72.03	60.51	89.44
33538	91.02	-3.97	15.47	47.53	47.25	40.01	58.79	37.29	89.84	76.59	25.97	44.33	58.36	53.07	90.03
33539	91.95	-3.97	15.47	34.34	48.81	40.76	46.70	34.76	94.38	50.47	22.56	47.58	45.97	46.22	95.04
33540	92.88	-3.97	15.47	22.22	50.81	41.84	36.47	33.77	103.82	26.58	20.43	51.36	35.22	39.99	105.17
33541	78.89	-7.25	13.78	45.91	16.99	54.79	11.59	150.13	74.34	160.01	43.12	82.17	20.49	140.73	87.93
33542	79.77	-7.25	13.78	56.10	16.52	57.21	10.20	149.45	92.75	159.79	40.68	82.08	17.27	135.30	102.63
33543	80.65	-7.25	13.78	73.19	20.16	59.38	8.11	146.38	110.85	164.07	40.43	80.52	12.46	128.63	118.17
33544	81.52	-7.26	13.78	89.46	26.97	58.56	9.62	136.29	125.97	171.11	42.07	74.65	10.38	115.50	131.29
33545	82.40	-7.26	13.78	93.45	35.13	55.78	16.27	128.49	137.66	168.05	45.54	65.04	15.38	105.72	141.53
33546	83.28	-7.26	13.78	98.14	41.08	56.25	26.97	127.14	144.77	164.14	48.03	59.42	25.82	104.84	147.41
33547	84.16	-7.26	13.78	113.94	44.80	57.68	42.61	118.37	142.11	172.55	48.30	56.80	41.94	96.88	143.64
33548	85.04	-7.26	13.78	106.65	46.79	59.86	47.31	111.56	136.64	159.00	47.52	57.50	46.61	93.06	137.31
33549	85.92	-7.26	13.78	104.59	48.11	62.07	52.95	107.05	131.80	152.21	45.58	59.79	52.31	94.33	131.86
33550	86.79	-7.27	13.78	100.20	46.57	63.56	54.64	101.77	125.57	143.31	40.60	61.50	53.93	95.01	125.25
33551	87.67	-7.27	13.78	92.96	44.51	64.86	53.82	96.33	120.90	131.36	34.48	63.05	52.99	94.90	120.43
33552	88.55	-7.27	13.78	83.99	42.83	66.25	51.60	91.21	118.91	116.94	28.08	65.07	50.60	94.00	118.50
33553	89.43	-7.27	13.78	74.29	42.26	67.73	48.89	86.83	119.67	100.89	22.36	68.06	47.68	92.57	119.55
33554	90.31	-7.27	13.78	64.54	42.81	69.26	46.26	83.46	122.95	84.07	17.88	72.44	44.83	90.86	123.33
33555	91.18	-7.27	13.78	55.22	44.12	70.94	44.19	81.23	128.47	67.39	15.01	78.68	42.55	88.98	129.52
33556	92.06	-7.28	13.78	46.66	45.71	73.36	43.17	80.10	136.10	51.95	13.67	87.68	41.41	86.90	137.96
33557	78.91	-6.15	13.78	42.32	17.91	49.32	6.54	134.09	76.46	163.97	43.62	71.91	17.71	125.84	86.40
33558	79.82	-6.16	13.78	49.50	17.29	51.88	8.81	134.06	95.19	161.94	41.08	72.38	15.42	119.67	102.36
33559	80.73	-6.16	13.78	62.26	19.00	54.61	6.77	132.81	114.38	163.19	39.76	71.49	13.43	113.96	119.70
33560	81.64	-6.16	13.78	76.91	23.73	55.24	15.75	126.05	131.54	168.25	40.23	67.00	16.81	103.80	135.45
33561	82.55	-6.17	13.78	85.64	28.74	53.84	25.77	119.45	144.36	168.21	40.78	59.15	25.53	94.86	147.18
33562	83.46	-6.17	13.78	90.96	33.30	53.98	38.32	114.52	151.02	164.50	41.35	53.80	37.81	89.61	152.79
33563	84.37	-6.17	13.78	97.32	44.03	55.46	47.57	108.07	152.53	163.22	48.27	53.04	47.14	85.19	153.46
33564	85.28	-6.18	13.78	99.27	48.58	58.01	57.57	102.58	147.93	158.94	49.75	56.00	57.20	84.36	148.29
33565	86.19	-6.18	13.78	94.07	45.05	60.62	62.11	96.47	140.67	148.24	42.75	59.77	61.71	85.15	140.60
33566	87.10	-6.18	13.78	90.05	45.68	62.67	63.47	91.72	133.34	139.71	39.84	62.45	63.02	88.22	132.98
33567	88.01	-6.19	13.78	83.53	44.57	64.24	61.33	86.57	127.49	128.13	34.51	64.14	60.78	89.20	127.05
33568	88.92	-6.19	13.78	75.20	43.74	65.77	57.43	81.43	124.51	113.51	28.80	66.19	56.74	88.28	124.16
33569	89.83	-6.20	13.78	65.99	43.79	67.36	53.02	76.83	124.53	96.78	23.53	69.40	52.14	86.17	124.47
33570	90.74	-6.20	13.78	56.61	44.77	68.93	48.81	73.13	127.38	78.94	19.24	74.23	47.71	83.40	127.78
33571	91.65	-6.20	13.78	47.60	46.39	70.53	45.33	70.52	132.86	61.08	16.28	81.11	44.03	80.22	133.88
33572	92.56	-6.21	13.78	39.41	48.40	72.76	43.04	69.16	140.52	44.68	14.69	90.94	41.62	76.83	142.28
33573	78.92	-5.05	13.78	39.10	18.42	43.67	9.48	116.95	78.02	167.63	45.17	62.31	17.77	109.80	84.80
33574	79.86	-5.06	13.78	44.36	18.21	45.67	11.01	117.20	96.53	164.66	42.37	62.78	16.75	102.06	101.39
33575	80.79	-5.06	13.78	52.74	19.10	47.91	14.67	116.64	115.08	163.65	40.13	61.63	17.54	95.85	118.70
33576	81.73	-5.06	13.78	63.43	22.08	49.56	21.12	113.55	132.92	165.23	39.46	58.18	22.08	88.98	135.65
33577	82.67	-5.07	13.78	74.54	28.05	50.30	31.16	108.60	147.47	166.58	41.06	52.73	31.21	81.46	149.47
33578	83.60	-5.07	13.78	80.93	32.92	51.14	44.50	102.41	155.84	163.61	41.66	48.84	44.27	74.03	157.14
33579	84.54	-5.07	13.78	80.45	35.22	53.35	54.30	98.38	161.00	153.99	40.41	50.90	54.05	73.80	161.66
33580	85.48	-5.08	13.78	89.61	41.08	56.41	69.94	92.50	156.02	157.84	42.22	56.07	69.78	74.42	156.19
33581	86.41	-5.08	13.78	81.33	43.68	59.41	69.53	86.21	147.19	143.15	41.98	60.84	69.29	76.51	147.06
33582	87.35	-5.08	13.78	77.99	44.42	61.94	71.09	81.89	140.02	135.50	38.77	64.15	70.82	82.21	139.72
33583	88.29	-5.09	13.78	72.57	44.33	63.71	67.97	76.91	133.32	124.57	34.38	65.53	67.64	84.04	132.98
33584	89.22	-5.09	13.78	65.22	44.38	65.38	62.66	71.68	129.44	109.94	29.47	67.41	62.22	82.84	129.19
33585	90.16	-5.09	13.78	56.85	45.10	67.06	56.71	66.83	128.75	92.69	24.76	70.72	56.12	79.90	128.73
33586	91.10	-5.10	13.78	48.21	46.52	68.68	51.00	62.79	131.15	74.02	20.67	75.91	50.23	75.97	131.50
33587	92.03	-5.10	13.78	39.83	48.47	70.22	46.15	59.79	136.48	55.11	17.56	83.33	45.21	71.42	137.33
33588	92.97	-5.10	13.78	32.09	50.70	72.2									



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
33615	87.98	-7.27	12.09	70.62	42.28	90.68	42.50	107.76	146.02	117.12	30.48	83.40	40.91	94.64	145.92
33616	88.89	-7.27	12.09	66.60	43.33	93.66	43.01	103.79	147.13	105.62	26.74	87.78	41.40	97.42	147.06
33617	89.80	-7.27	12.09	62.05	44.71	96.52	43.09	100.03	149.53	93.25	23.29	93.69	41.48	99.11	149.63
33618	90.70	-7.27	12.09	57.27	46.46	99.25	43.14	96.73	153.25	80.30	20.44	101.61	41.56	99.82	153.65
33619	91.61	-7.27	12.09	52.52	48.48	101.95	43.51	94.16	158.15	67.27	18.47	112.15	42.06	99.78	158.92
33620	92.52	-7.27	12.09	48.03	50.61	104.94	44.54	92.64	164.27	54.96	17.72	125.99	43.37	99.41	165.41
33621	78.92	-6.15	12.09	47.02	20.01	66.92	9.16	129.50	99.19	203.42	50.78	96.64	22.72	109.42	105.64
33622	79.86	-6.16	12.09	52.12	20.29	67.68	9.59	129.52	112.76	196.28	48.07	95.15	19.27	99.82	117.58
33623	80.80	-6.16	12.09	57.56	22.06	68.62	11.66	128.00	125.42	189.40	45.91	91.46	17.14	90.68	129.02
33624	81.74	-6.16	12.09	62.32	24.94	69.76	15.69	125.89	136.57	181.73	44.30	86.15	17.56	83.00	139.23
33625	82.67	-6.17	12.09	66.39	28.70	71.38	21.69	123.05	145.42	173.79	43.41	80.51	21.54	76.89	147.31
33626	83.61	-6.17	12.09	69.50	32.75	73.53	28.46	119.60	151.46	165.52	42.89	75.88	27.61	73.02	152.73
33627	84.55	-6.17	12.09	70.54	35.29	76.43	35.51	116.12	154.36	156.09	41.12	73.66	34.48	72.68	155.12
33628	85.49	-6.18	12.09	70.27	37.78	79.71	40.80	112.03	155.09	146.40	39.33	73.93	39.77	75.02	155.44
33629	86.43	-6.18	12.09	69.41	40.38	83.15	44.69	107.96	154.39	137.04	37.71	76.04	43.69	79.63	154.46
33630	87.37	-6.18	12.09	66.74	41.61	86.59	46.74	103.47	153.32	126.40	34.42	79.35	45.73	84.37	153.23
33631	88.31	-6.19	12.09	63.45	42.88	89.94	47.40	98.95	152.74	115.24	30.89	83.57	46.35	88.57	152.59
33632	89.25	-6.19	12.09	59.47	44.26	93.16	47.06	94.43	153.26	103.07	27.19	88.85	45.95	91.31	153.17
33633	90.18	-6.19	12.09	54.97	45.92	96.19	46.23	90.07	155.23	89.79	23.69	95.71	45.07	92.44	155.33
33634	91.12	-6.20	12.09	50.19	47.89	99.01	45.41	86.12	158.74	75.69	20.73	104.73	44.24	92.15	159.13
33635	92.06	-6.20	12.09	45.44	50.11	101.73	45.05	82.86	163.72	61.35	18.67	116.63	43.95	90.80	164.49
33636	93.00	-6.20	12.09	41.08	52.61	104.65	45.38	80.82	169.88	47.91	17.82	132.16	44.51	89.08	171.01
33637	78.93	-5.05	12.09	45.45	20.63	60.99	9.88	121.36	101.71	209.22	52.36	88.03	21.08	102.75	106.11
33638	79.90	-5.05	12.09	48.43	20.94	61.98	11.28	121.53	115.89	200.82	49.50	86.88	18.94	91.24	119.14
33639	80.86	-5.06	12.09	52.29	22.47	63.53	14.35	120.58	129.44	192.77	47.12	83.72	18.54	81.05	131.86
33640	81.83	-5.06	12.09	56.26	24.92	65.47	19.38	118.73	141.54	184.42	45.10	78.99	20.91	72.38	143.32
33641	82.79	-5.06	12.09	59.30	27.83	67.84	26.08	116.09	151.26	175.30	43.35	73.87	26.20	65.62	152.51
33642	83.76	-5.07	12.09	61.33	31.29	70.78	33.24	112.97	158.07	165.47	42.24	70.36	32.84	62.14	158.87
33643	84.72	-5.07	12.09	63.21	35.08	74.28	40.79	109.02	161.00	156.57	41.50	69.53	40.26	61.90	161.45
33644	85.68	-5.07	12.09	61.35	37.57	78.09	45.44	104.77	162.01	144.74	39.70	71.40	44.85	65.78	162.20
33645	86.65	-5.08	12.09	61.09	39.69	81.94	50.20	100.31	161.33	135.84	37.22	74.92	49.62	72.13	161.32
33646	87.61	-5.08	12.09	58.41	41.51	85.70	51.70	95.32	159.61	124.70	34.43	79.22	51.09	77.90	159.50
33647	88.58	-5.08	12.09	55.29	43.19	89.31	51.79	90.29	158.50	113.22	31.07	84.20	51.13	82.69	158.36
33648	89.54	-5.09	12.09	51.57	44.93	92.73	50.69	85.20	158.48	100.54	27.51	90.14	49.97	85.34	158.41
33649	90.51	-5.09	12.09	47.30	46.91	95.91	49.01	80.21	160.04	86.47	24.05	97.71	48.23	85.82	160.13
33650	91.47	-5.09	12.09	42.72	49.14	98.81	47.36	75.55	163.34	71.31	21.06	107.64	46.56	84.47	163.68
33651	92.44	-5.10	12.09	38.14	51.64	101.52	46.25	71.54	168.31	55.69	18.92	120.67	45.49	81.74	168.96
33652	93.40	-5.10	12.09	33.87	54.34	104.38	46.07	68.62	174.77	40.81	18.05	137.64	45.47	78.27	175.72
33653	78.94	-3.95	12.09	44.15	20.87	55.69	11.74	113.47	103.69	214.13	53.60	80.83	19.46	96.16	106.44
33654	79.93	-3.95	12.09	45.25	21.30	56.82	13.60	113.74	118.40	204.72	50.52	79.89	18.68	82.52	120.41
33655	80.91	-3.95	12.09	47.37	22.60	58.82	17.22	113.23	132.51	195.69	47.78	77.11	19.89	70.90	134.01
33656	81.90	-3.95	12.09	49.99	24.76	61.48	22.67	111.79	145.14	186.54	45.50	72.85	23.69	61.18	146.24
33657	82.88	-3.96	12.09	52.09	27.53	64.64	29.59	109.46	155.34	176.49	43.66	68.34	29.76	53.61	156.10
33658	83.87	-3.96	12.09	52.85	30.55	68.35	36.89	106.52	163.04	165.27	42.11	65.87	36.71	50.11	163.52
33659	84.86	-3.96	12.09	54.19	33.66	72.44	45.21	102.63	167.00	155.73	40.49	66.44	44.93	51.07	167.26
33660	85.84	-3.96	12.09	52.66	36.43	76.73	50.21	98.16	167.96	143.73	38.91	69.77	49.89	56.80	168.05
33661	86.83	-3.96	12.09	51.74	39.04	80.96	54.63	93.18	166.90	134.18	36.82	74.46	54.31	64.82	166.87
33662	87.81	-3.96	12.09	49.34	41.20	84.99	55.93	87.78	164.89	122.93	34.19	79.51	55.59	71.94	164.80
33663	88.80	-3.96	12.09	46.54	43.27	88.80	55.55	82.21	163.31	111.27	31.06	85.01	55.18	77.28	163.21
33664	89.78	-3.97	12.09	43.20	45.39	92.37	53.80	76.52	162.81	98.20	27.68	91.38	53.38	79.78	162.76
33665	90.77	-3.97	12.09	39.31	47.69	95.67	51.37	70.86	163.97	83.47	24.33	99.49	50.91	79.61	164.04
33666	91.75	-3.97	12.09	35.06	50.19	98.64	48.97	65.44	167.03	67.38	21.36	110.12	48.48	77.19	167.28
33667	92.74	-3.97	12.09	30.75	52.90	101.34	47.20	60.52	171.97	50.54	19.18	124.07	46.74	73.01	172.43
33668	93.73	-3.97	12.09	26.87	55.79	104.13	46.58	56.84	178.81	34.28	18.32	142.18	46.21	67.97	179.50
33669	78.92	-7.25	10.41	52.68	21.41	91.40	13.48	144.17	117.10	228.12	52.37	131.94	29.78	103.55	123.05
33670	79.86	-7.25	10.41	54.97	22.17	91.42	13.08	144.60	126.47	216.66	49.84	128.99	24.96	93.47	131.02
33671	80.79	-7.25	10.41	57.57	23.96	92.12	13.36	144.21	135.20	205.28	47.59	124.45	20.72	85.01	138.64
33672	81.73	-7.26	10.41	60.05	26.46	93.53	14.88	142.99	142.87	194.07	45.59	118.86	17.88	78.33	145.43
33673	82.67	-7.26	10.41	61.98	29.30	95.58	17.60	141.06	149.30	182.81	43.77	112.84	17.31	73.90	151.16
33674	83.61	-7.26	10.41	63.10	32.15	98.37	21.12	138.69	154.47	171.40	41.98	107.34	19.05	72.50	155.75
33675	84.54	-7.26	10.41	64.02	34.76	101.75	25.12	135.68	158.26	160.55	39.99	103.00	22.41	73.75	159.08
33676	85.48	-7.26	10.41	63.72	37.13	105.64	28.73	132.31	161.09	149.29	37.80	100.37	25.89	77.53	161.56
33677	86.42	-7.26	10.41	63.19	39.35	109.88	31.99	128.59	163.36	138.48	35.40	99.75	29.25	82.93	163.57
33678	87.35	-7.26	10.41	61.99	41.37	114.32	34.66	124.52	165.34	127.49	32.76	101.21	32.06	88.79	165.37
33679	88.29	-7.27	10.41	60.28	43.37	118.83	36.84	120.24	167.44	116.30	30.04	104.84	34.42	94.38	167.39
33680	89.23	-7.27	10.41	58.19	45.46	123.30	38.67	115.85	169.93	104.76	27.47	110.78	36.46	99.12	169.90
33681	90.17	-7.27	10.41	55.84	47.73	127.65	40.34	111.50	172.97	92.84	25.29	119.32	38.39	102.74	173.05
33682	91.10	-7.27	10.41	53.37	50.23	131.86	42.02	107.42	176.61	80.63	23.78	130.80	40.43	105.23	176.88
33683	92.04	-7.27	10.41	50.97	52.92	135.96	43.92	103.90	180.75	68.52	23.18	145.56	42.77	106.77	181.24
33684	92.98	-7.27	10.41	48.83	55.74	140.08	46.26	101.28	185.53	57.36	23.80	163.80	45.68	107.63	186.22
33685	78.93	-6.15	10.41	51.73	22.29	84.47	11.47	140.73	121.13	236.78	54.67	123.00	27.51	102.14	125.32

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
33713	90.86	-5.09	10.41	42.70	49.29	126.77	44.90	93.06	184.29	86.83	24.87	124.03	43.99	89.83	184.37
33714	91.85	-5.09	10.41	39.98	52.03	131.31	45.77	87.09	187.80	72.26	23.17	138.92	45.01	90.40	188.05
33715	92.84	-5.09	10.41	37.34	54.99	135.64	47.02	81.57	192.16	57.39	22.49	157.54	46.48	89.40	192.60
33716	93.83	-5.10	10.41	35.07	58.17	139.87	48.92	77.06	197.16	43.43	23.09	180.16	48.69	87.36	197.79
33717	78.96	-3.95	10.41	50.24	23.33	72.25	10.90	133.45	126.73	250.49	57.91	108.35	21.39	98.10	128.44
33718	79.97	-3.95	10.41	49.34	23.97	73.65	12.43	133.62	138.21	235.25	54.62	106.41	19.62	82.04	139.46
33719	80.98	-3.95	10.41	48.90	25.28	76.20	15.20	132.95	149.03	220.44	51.48	102.72	19.36	67.99	149.94
33720	81.99	-3.95	10.41	48.64	27.13	79.69	19.15	131.42	158.72	205.88	48.54	97.91	21.06	56.31	159.37
33721	83.01	-3.96	10.41	48.33	29.37	83.96	23.94	129.00	166.89	191.55	45.80	93.06	24.53	48.07	167.33
33722	84.02	-3.96	10.41	47.94	31.86	88.81	29.23	125.68	173.11	177.71	43.23	89.23	29.15	44.76	173.39
33723	85.03	-3.96	10.41	46.96	34.43	94.07	34.07	121.53	177.53	163.90	40.75	87.46	33.70	47.30	177.67
33724	86.05	-3.96	10.41	45.99	36.98	99.57	38.60	116.59	180.37	151.08	38.16	88.13	38.10	54.11	180.41
33725	87.06	-3.96	10.41	44.47	39.46	105.16	41.89	111.02	182.06	138.20	35.46	91.16	41.34	62.65	182.03
33726	88.07	-3.96	10.41	42.80	41.94	110.73	44.25	104.92	183.19	125.68	32.63	96.37	43.68	70.93	183.13
33727	89.08	-3.96	10.41	40.76	44.45	116.19	45.61	98.42	184.32	112.66	29.75	103.71	45.03	77.52	184.26
33728	90.10	-3.96	10.41	38.42	47.06	121.44	46.31	91.63	185.97	98.94	26.99	113.49	45.73	81.90	185.95
33729	91.11	-3.97	10.41	35.81	49.80	126.42	46.71	84.66	188.44	84.28	24.58	126.17	46.17	83.83	188.50
33730	92.12	-3.97	10.41	33.04	52.70	131.09	47.21	77.66	191.87	68.67	22.87	142.29	46.75	83.42	192.05
33731	93.13	-3.97	10.41	30.33	55.79	135.48	48.17	70.95	196.25	52.45	22.20	162.33	47.85	81.07	196.57
33732	94.15	-3.97	10.41	28.16	59.09	139.74	49.96	65.37	201.65	36.96	22.88	186.58	49.83	77.59	202.10
33733	78.93	-7.25	8.72	56.21	24.14	109.86	15.37	161.23	138.29	253.48	54.36	159.34	35.06	96.25	141.91
33734	79.90	-7.25	8.72	56.38	25.06	110.24	15.05	161.74	145.79	237.61	51.71	155.89	29.63	84.88	148.52
33735	80.87	-7.25	8.72	56.83	26.61	111.63	15.28	161.38	152.86	222.48	49.13	151.04	24.88	75.69	154.88
33736	81.83	-7.25	8.72	57.38	28.64	113.96	16.28	160.18	159.31	208.01	46.66	145.23	21.19	69.09	160.78
33737	82.80	-7.26	8.72	57.85	30.94	117.20	18.09	158.21	165.02	194.16	44.29	139.03	19.07	65.62	166.03
33738	83.77	-7.26	8.72	58.19	33.37	121.25	20.55	155.50	169.93	180.93	41.96	133.01	18.84	65.49	170.58
33739	84.73	-7.26	8.72	58.19	35.83	125.99	23.35	152.16	174.11	168.14	39.68	127.85	20.21	68.58	174.47
33740	85.70	-7.26	8.72	58.02	38.26	131.29	26.30	148.24	177.68	155.89	37.37	124.12	22.60	74.05	177.80
33741	86.67	-7.26	8.72	57.49	40.64	137.00	29.18	143.81	180.79	143.86	35.06	122.40	25.43	80.90	180.74
33742	87.63	-7.26	8.72	56.71	43.04	142.99	31.94	138.97	183.67	132.01	32.82	123.22	28.39	88.20	183.50
33743	88.60	-7.26	8.72	55.66	45.49	149.12	34.56	133.79	186.49	120.09	30.78	127.06	31.37	95.19	186.27
33744	89.57	-7.27	8.72	54.40	48.05	155.29	37.12	128.39	189.37	107.96	29.09	134.37	34.40	101.34	189.17
33745	90.53	-7.27	8.72	53.01	50.79	161.42	39.69	122.90	192.42	95.56	27.96	145.48	37.55	106.35	192.32
33746	91.50	-7.27	8.72	51.62	53.76	167.48	42.34	117.54	195.66	83.02	27.60	160.59	40.85	110.12	195.71
33747	92.47	-7.27	8.72	50.39	56.94	173.47	45.16	112.58	199.02	70.74	28.15	179.69	44.38	112.69	199.28
33748	93.43	-7.27	8.72	49.46	60.30	179.47	48.28	108.35	202.74	59.57	29.76	202.62	48.26	114.18	203.23
33749	78.95	-6.15	8.72	55.75	24.73	101.84	13.17	159.66	142.59	263.57	56.29	150.65	32.08	96.65	145.11
33750	79.94	-6.15	8.72	55.07	25.56	102.74	13.29	160.00	150.76	245.92	53.29	147.42	27.39	83.30	152.62
33751	80.94	-6.16	8.72	54.76	27.00	104.77	14.15	159.41	158.44	229.24	50.37	142.72	23.53	72.19	159.79
33752	81.94	-6.16	8.72	54.63	28.91	107.85	15.90	157.92	165.41	213.41	47.58	137.04	20.96	63.83	166.36
33753	82.93	-6.16	8.72	54.52	31.14	111.87	18.46	155.56	171.53	198.35	44.91	131.00	20.10	58.98	172.16
33754	83.93	-6.17	8.72	54.33	33.53	116.68	21.55	152.39	176.72	184.03	42.35	125.29	20.99	58.19	177.09
33755	84.92	-6.17	8.72	53.95	35.96	122.15	24.88	148.48	181.01	170.36	39.80	120.63	23.16	61.31	181.19
33756	85.92	-6.17	8.72	53.36	38.40	128.10	28.17	143.91	184.57	157.23	37.30	117.70	25.94	67.30	184.59
33757	86.92	-6.18	8.72	52.56	40.86	134.41	31.27	138.76	187.60	144.49	34.87	117.09	28.89	74.80	187.49
33758	87.91	-6.18	8.72	51.48	43.32	140.92	34.11	133.11	190.33	131.87	32.50	119.33	31.78	82.58	190.15
33759	88.91	-6.18	8.72	50.19	45.86	147.51	36.71	127.08	192.98	119.17	30.36	124.92	34.56	89.79	192.78
33760	89.90	-6.19	8.72	48.68	48.51	154.08	39.17	120.77	195.75	106.14	28.59	134.28	37.30	95.81	195.59
33761	90.90	-6.19	8.72	47.05	51.32	160.56	41.60	114.30	198.74	92.68	27.41	147.71	40.11	100.33	198.68
33762	91.89	-6.19	8.72	45.41	54.33	166.91	44.15	107.87	201.99	78.87	27.01	165.37	43.12	103.26	202.09
33763	92.89	-6.19	8.72	43.95	57.54	173.13	46.93	101.81	205.51	65.17	27.58	187.21	46.43	104.69	205.81
33764	93.89	-6.20	8.72	42.95	61.04	179.29	49.96	96.70	209.09	52.75	29.16	213.03	50.03	105.02	209.60
33765	78.96	-5.05	8.72	55.43	25.18	94.53	11.53	158.03	146.07	272.26	57.90	143.05	28.19	96.70	147.72
33766	79.98	-5.05	8.72	53.89	25.95	95.94	12.17	158.22	154.81	253.07	54.61	140.05	24.45	81.49	156.01
33767	81.00	-5.06	8.72	52.75	27.29	98.63	13.69	157.45	163.04	235.02	51.40	135.50	21.72	68.50	163.89
33768	82.02	-5.06	8.72	51.88	29.08	102.46	16.12	155.70	170.49	217.99	48.31	129.97	20.45	58.29	171.08
33769	83.04	-5.06	8.72	51.12	31.19	107.24	19.29	153.02	176.99	201.89	45.35	124.11	20.91	51.91	177.36
33770	84.06	-5.07	8.72	50.34	33.50	112.79	22.86	149.44	182.44	186.61	42.53	118.74	22.85	50.39	182.65
33771	85.08	-5.07	8.72	49.52	35.93	118.92	26.58	145.01	186.86	172.18	39.80	114.61	25.70	53.68	186.93
33772	86.10	-5.07	8.72	48.49	38.39	125.47	30.09	139.84	190.43	158.29	37.13	112.46	28.82	60.38	190.40
33773	87.12	-5.07	8.72	47.39	40.88	132.28	33.35	134.01	193.37	144.95	34.51	112.90	31.93	68.67	193.26
33774	88.14	-5.08	8.72	46.03	43.42	139.22	36.20	127.61	195.95	131.69	32.05	116.45	34.76	77.03	195.80
33775	89.16	-5.08	8.72	44.49	46.04	146.18	38.73	120.76	198.45	118.31	29.82	123.58	37.37	84.48	198.30
33776	90.18	-5.08	8.72	42.76	48.78	153.08	41.05	113.54	201.09	104.48	27.99	134.69	39.85	90.37	200.98
33777	91.20	-5.09	8.72	40.89	51.67	159.83	43.33	106.07	204.02	90.05	26.78	150.09	42.36	94.38	203.99
33778	92.22	-5.09	8.72	39.01	54.74	166.40	45.74	98.54	207.29	75.04	26.39	169.90	45.07	96.44	207.39
33779	93.24	-5.09	8.72	37.34	58.04	172.81	48.43	91.29	210.88	59.90	26.98	194.08	48.13	96.71	211.14
33780	94.26	-5.10	8.72	35.08	61.58	179.10	51.54	84.85	214.65	45.84	28.61	222.34	51.64	95.51	215.09
33781	78.97	-3.95	8.72	56.22	25.51	88.15	10.45	156.48	148.80	279.40	59.16	136.72	23.60	96.53	149.78
33782	80.01	-3.95	8.72	52.87	26.23	90.06	11.61	156.56	158.01	258.94	55.64	133.91	21.03	79.67	158.71
33783	81.05	-3.95	8.72	50.94	27.47	93.39	13.71	155.64	166.69	239.76	52.18	129.51			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
33811	92.90	-7.27	7.03	50.56	60.32	214.11	46.94	121.15	214.65	73.48	33.18	215.11	46.60	118.78	214.72
33812	93.89	-7.27	7.03	50.18	64.07	222.41	50.58	115.07	217.52	61.77	35.44	243.28	51.15	120.42	217.96
33813	78.96	-6.15	7.03	58.85	26.96	119.19	14.27	181.77	163.36	281.06	55.37	178.61	35.80	89.39	164.62
33814	79.99	-6.15	7.03	56.94	27.84	120.66	14.24	181.95	170.18	259.60	52.26	174.81	30.57	76.48	171.07
33815	81.01	-6.16	7.03	55.52	29.21	123.57	14.83	181.06	176.65	240.01	49.20	169.66	26.15	65.91	177.25
33816	82.04	-6.16	7.03	54.45	30.97	127.77	16.13	179.12	182.63	222.08	46.26	163.56	22.83	58.28	183.00
33817	83.06	-6.16	7.03	53.63	33.00	133.11	18.12	176.19	188.05	205.59	43.46	156.97	20.93	54.42	188.22
33818	84.08	-6.17	7.03	52.93	35.23	139.40	20.63	172.33	192.85	190.34	40.83	150.47	20.63	54.84	192.87
33819	85.11	-6.17	7.03	52.29	37.60	146.42	23.48	167.61	197.08	176.13	38.39	144.70	21.76	59.13	196.95
33820	86.13	-6.17	7.03	51.62	40.04	154.02	26.50	162.13	200.79	162.69	36.15	140.43	23.91	66.18	200.55
33821	87.16	-6.17	7.03	50.86	42.56	162.02	29.57	155.98	204.10	149.75	34.15	138.55	26.68	74.68	203.77
33822	88.18	-6.18	7.03	49.99	45.17	170.32	32.64	149.26	207.13	136.99	32.50	140.05	29.79	83.55	206.74
33823	89.21	-6.18	7.03	48.96	47.88	178.81	35.70	142.06	209.99	124.07	31.26	145.95	33.14	91.99	209.58
33824	90.23	-6.18	7.03	47.79	50.73	187.42	38.79	134.50	212.78	110.74	30.57	157.04	36.68	99.38	212.40
33825	91.26	-6.19	7.03	46.55	53.76	196.08	41.95	126.68	215.55	96.84	30.51	173.75	40.43	105.31	215.26
33826	92.28	-6.19	7.03	45.34	57.01	204.75	45.25	118.76	218.30	82.46	31.18	196.02	44.40	109.46	218.18
33827	93.31	-6.19	7.03	44.33	60.49	213.38	48.75	111.00	221.08	68.04	32.62	223.32	48.61	111.68	221.19
33828	94.33	-6.19	7.03	43.82	64.30	221.95	52.39	103.96	223.72	55.01	34.83	254.87	52.92	112.20	224.14
33829	78.97	-5.05	7.03	58.75	27.08	110.91	12.05	181.34	167.05	290.31	56.50	171.17	31.07	90.12	167.86
33830	80.02	-5.05	7.03	56.09	27.90	112.93	12.43	181.37	174.31	267.08	53.09	167.49	26.79	75.66	174.86
33831	81.07	-5.06	7.03	53.95	29.19	116.53	13.54	180.26	181.18	245.99	49.73	162.40	23.40	63.41	181.54
33832	82.12	-5.06	7.03	52.23	30.87	121.53	15.42	178.02	187.51	226.78	46.49	156.33	21.24	54.04	187.72
33833	83.17	-5.06	7.03	50.81	32.84	127.68	17.96	174.71	193.19	209.21	43.42	149.80	20.56	48.67	193.28
33834	84.21	-5.06	7.03	49.61	35.03	134.74	20.94	170.38	198.18	193.05	40.53	143.43	21.38	48.26	198.16
33835	85.26	-5.07	7.03	48.51	37.37	142.49	24.17	165.10	202.50	178.06	37.86	137.94	23.33	52.56	202.39
33836	86.31	-5.07	7.03	47.46	39.83	150.71	27.49	158.98	206.23	163.97	35.44	134.18	25.99	60.08	206.04
33837	87.36	-5.07	7.03	46.36	42.38	159.27	30.77	152.12	209.49	150.41	33.32	133.11	29.00	69.15	209.25
33838	88.41	-5.08	7.03	45.17	45.03	168.03	33.97	144.62	212.45	137.04	31.58	135.82	32.19	78.47	212.17
33839	89.46	-5.08	7.03	43.84	47.79	176.92	37.11	136.59	215.25	123.46	30.33	143.37	35.47	87.12	214.95
33840	90.50	-5.08	7.03	42.38	50.69	185.88	40.23	128.11	217.99	109.33	29.68	156.56	38.87	94.46	217.73
33841	91.55	-5.08	7.03	40.82	53.76	194.86	43.42	119.27	220.76	94.45	29.70	175.72	42.44	100.01	220.57
33842	92.60	-5.09	7.03	39.30	57.03	203.83	46.75	110.23	223.56	78.83	30.47	200.71	46.22	103.46	223.50
33843	93.65	-5.09	7.03	38.00	60.55	212.74	50.29	101.26	226.38	62.95	31.99	230.88	50.25	104.67	226.50
33844	94.70	-5.09	7.03	37.15	64.34	221.53	54.12	92.84	229.13	48.21	34.24	265.30	54.55	103.75	229.48
33845	78.98	-3.95	7.03	58.75	27.17	103.78	10.16	180.92	169.99	297.89	57.39	165.05	25.53	90.60	170.46
33846	80.05	-3.95	7.03	55.41	27.93	106.32	11.03	180.82	177.62	273.21	53.74	161.47	22.39	74.80	177.93
33847	81.12	-3.95	7.03	52.60	29.15	110.59	12.69	179.52	184.83	250.88	50.14	156.43	20.24	61.03	185.03
33848	82.19	-3.95	7.03	50.25	30.76	116.32	15.10	177.04	191.46	230.62	46.65	150.41	19.42	49.97	191.57
33849	83.25	-3.96	7.03	48.26	32.66	123.22	18.08	173.41	197.37	212.15	43.33	143.95	20.05	43.00	197.41
33850	84.32	-3.96	7.03	46.53	34.80	130.98	21.44	168.67	202.52	195.25	40.22	137.72	21.92	41.70	202.49
33851	85.39	-3.96	7.03	44.98	37.11	139.35	24.95	162.92	206.91	179.62	37.35	132.50	24.59	46.10	206.83
33852	86.45	-3.96	7.03	43.53	39.56	148.11	28.48	156.24	210.65	164.99	34.76	129.19	27.69	54.24	210.52
33853	87.52	-3.96	7.03	42.08	42.13	157.11	31.90	148.76	213.88	150.94	32.51	128.84	30.92	63.97	213.72
33854	88.59	-3.96	7.03	40.57	44.82	166.24	35.19	140.57	216.77	137.08	30.70	132.61	34.17	73.78	216.58
33855	89.65	-3.96	7.03	38.93	47.62	175.44	38.35	131.78	219.49	122.95	29.43	141.56	37.41	82.67	219.30
33856	90.72	-3.96	7.03	37.14	50.57	184.66	41.48	122.47	222.19	108.14	28.81	156.48	40.68	89.96	222.02
33857	91.79	-3.96	7.03	35.24	53.68	193.89	44.65	112.69	224.93	92.40	28.93	177.65	44.08	95.16	224.82
33858	92.86	-3.97	7.03	33.35	56.98	203.09	47.99	102.56	227.76	75.68	29.80	204.85	47.69	97.93	227.73
33859	93.92	-3.97	7.03	31.69	60.51	212.20	51.59	92.32	230.60	58.37	31.41	237.36	51.60	98.12	230.69
33860	94.99	-3.97	7.03	30.66	64.30	221.18	55.61	82.67	233.63	42.01	33.73	274.13	55.91	96.02	233.89
33861	78.96	-7.25	5.34	60.37	28.97	147.30	17.46	204.80	178.57	274.65	51.10	214.36	42.33	79.17	179.26
33862	79.99	-7.25	5.34	58.53	29.91	148.86	17.09	204.88	184.05	252.94	48.37	210.20	36.03	69.77	184.48
33863	81.01	-7.25	5.34	57.23	31.29	151.98	17.21	203.80	189.28	233.64	45.74	204.82	30.56	62.49	189.51
33864	82.04	-7.25	5.34	56.36	33.03	156.55	17.91	201.62	194.22	216.44	43.26	198.48	26.05	57.87	194.27
33865	83.07	-7.26	5.34	55.81	35.03	162.40	19.22	198.40	198.81	201.02	41.00	191.53	22.74	56.47	198.69
33866	84.09	-7.26	5.34	55.48	37.24	169.34	21.08	194.20	203.02	187.12	39.00	184.37	20.87	58.48	202.75
33867	85.12	-7.26	5.34	55.27	39.60	177.16	23.38	189.13	206.88	174.43	37.31	177.54	20.61	63.55	206.47
33868	86.14	-7.26	5.34	55.10	42.08	185.70	26.02	183.28	210.41	162.63	35.96	171.75	21.80	70.92	209.86
33869	87.17	-7.26	5.34	54.91	44.65	194.79	28.90	176.78	213.66	151.36	34.99	167.95	24.14	79.76	212.99
33870	88.19	-7.26	5.34	54.61	47.33	204.36	31.96	169.75	216.66	140.23	34.44	167.40	27.27	89.30	215.90
33871	89.22	-7.26	5.34	54.18	50.11	214.34	35.16	162.29	219.48	128.88	34.33	171.51	30.98	98.88	218.67
33872	90.25	-7.26	5.34	53.59	53.01	224.71	38.49	154.50	222.11	116.95	34.68	181.62	35.13	107.89	221.31
33873	91.27	-7.26	5.34	52.90	56.08	235.42	41.93	146.48	224.55	104.26	35.50	198.55	39.63	115.76	223.85
33874	92.30	-7.27	5.34	52.17	59.37	246.35	45.46	138.32	226.76	90.87	36.79	222.32	44.34	121.94	226.28
33875	93.32	-7.27	5.34	51.50	62.91	257.29	49.08	130.13	228.69	77.25	38.55	252.16	49.14	125.92	228.57
33876	94.35	-7.27	5.34	50.99	66.71	267.84	52.96	122.00	230.68	64.34	40.90	286.22	54.07	127.05	231.13
33877	78.98	-6.15	5.34	60.15	28.56	136.90	14.71	205.36	183.23	285.27	51.68	205.50	38.10	80.17	183.67
33878	80.03	-6.15	5.34	57.54	29.45	139.02	14.60	205.27	189.08	261.36	48.59	201.39	32.57	69.43	189.34
33879	81.08	-6.16	5.34	55.55	30.79	142.88	15.09	203.93	194.65	240.24	45.60	196.01	27.89	60.69	194.77
33880	82.14	-6.16	5.34	54.07	32.48	148.31	16.24	201.38	199.86	221.54	42.80	189.63	24.26	54.56	199.85
33881	83.19	-6.16	5.34	52.99	34.47	155.08	18.05	197.69	204.65	204.9					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
33909	79.00	-3.95	5.34	60.15	28.03	119.68	9.82	206.20	190.30	301.86	52.56	191.91	26.67	81.44	190.45
33910	80.09	-3.95	5.34	56.18	28.81	122.89	10.50	205.83	196.78	274.51	48.94	187.88	23.23	68.52	196.86
33911	81.19	-3.95	5.34	52.91	30.03	128.21	11.95	204.06	202.91	250.53	45.41	182.49	20.72	57.23	202.93
33912	82.28	-3.95	5.34	50.24	31.62	135.29	14.13	200.92	208.58	229.46	42.07	176.08	19.42	48.22	208.56
33913	83.37	-3.95	5.34	48.10	33.51	143.75	16.88	196.46	213.73	210.90	39.00	169.04	19.52	42.73	213.66
33914	84.47	-3.96	5.34	46.38	35.64	153.21	20.04	190.78	218.31	194.42	36.29	161.89	20.90	42.08	218.19
33915	85.56	-3.96	5.34	44.97	37.97	163.34	23.46	183.95	222.33	179.64	34.00	155.33	23.25	46.43	222.18
33916	86.66	-3.96	5.34	43.75	40.46	173.89	27.03	176.11	225.87	166.09	32.24	150.32	26.24	54.44	225.67
33917	87.75	-3.96	5.34	42.62	43.10	184.70	30.68	167.41	229.00	153.28	31.07	148.17	29.62	64.43	228.76
33918	88.85	-3.96	5.34	41.46	45.87	195.67	34.37	158.00	231.83	140.65	30.58	150.60	33.24	75.11	231.57
33919	89.94	-3.96	5.34	40.17	48.77	206.82	38.11	148.01	234.47	127.59	30.78	159.46	37.05	85.51	234.19
33920	91.04	-3.96	5.34	38.69	51.81	218.20	41.91	137.55	237.00	113.54	31.66	176.25	41.04	94.84	236.73
33921	92.13	-3.96	5.34	37.01	55.00	229.88	45.78	126.67	239.45	98.06	33.12	201.58	45.21	102.29	239.23
33922	93.22	-3.96	5.34	35.21	58.37	241.87	49.77	115.40	241.82	81.05	35.05	235.01	49.54	110.78	241.67
33923	94.32	-3.97	5.34	33.52	61.97	254.01	53.88	103.81	243.99	63.01	37.37	275.22	54.04	108.61	243.99
33924	95.41	-3.97	5.34	32.32	65.82	265.95	58.21	92.32	246.13	45.35	39.96	319.74	58.71	106.28	246.35
33925	66.62	-8.70	17.16	22.50	33.71	13.87	22.08	12.88	18.55	18.31	35.67	13.91	16.93	18.45	29.79
33926	67.38	-8.70	17.16	38.30	41.21	14.29	25.81	12.69	14.40	35.41	46.72	15.09	21.55	22.39	28.42
33927	68.15	-8.70	17.16	56.85	53.14	14.44	31.12	14.63	12.02	57.29	60.65	15.50	29.78	27.98	27.00
33928	68.91	-8.70	17.16	79.71	67.94	14.54	37.27	18.12	10.78	85.15	76.38	15.45	39.32	33.96	25.63
33929	69.67	-8.70	17.16	106.36	85.60	14.81	44.00	23.48	10.65	119.63	94.42	15.47	49.44	40.12	24.81
33930	70.44	-8.70	17.16	146.41	107.86	15.49	50.80	31.93	12.12	163.58	117.29	15.90	59.66	47.61	25.11
33931	71.20	-8.70	17.16	199.29	134.56	17.19	56.01	46.47	16.21	221.78	145.33	17.38	68.48	59.80	27.91
33932	71.96	-8.70	17.16	271.12	165.22	20.56	60.95	71.72	24.79	298.03	178.34	20.58	77.28	82.27	35.75
33933	72.73	-8.70	17.16	365.56	192.12	25.71	78.78	110.33	51.11	395.14	208.50	25.85	100.43	118.13	63.48
33934	73.49	-8.70	17.16	515.90	380.08	28.06	99.39	183.87	188.30	549.54	419.76	42.45	129.41	190.34	213.61
33935	74.25	-8.70	17.16	270.37	270.65	77.78	33.80	327.31	284.08	286.99	304.11	105.44	42.55	339.64	319.76
33936	75.02	-8.70	17.16	81.19	64.23	61.68	2.23	360.49	206.94	97.08	74.13	90.42	15.67	371.68	241.14
33937	75.78	-8.70	17.16	38.71	36.73	33.99	6.50	340.41	137.50	57.64	45.76	67.57	13.23	347.09	173.74
33938	76.54	-8.70	17.16	12.45	22.77	21.20	8.73	327.81	92.93	40.32	32.56	61.32	11.08	331.31	135.42
33939	77.31	-8.70	17.16	212.21	36.13	28.63	15.83	269.08	52.21	214.06	36.54	50.25	27.79	273.28	94.06
33940	78.07	-8.70	17.16	75.59	8.75	11.96	7.52	231.64	14.72	85.85	11.83	21.83	7.44	231.39	58.25
33941	66.22	-8.10	17.16	20.72	36.82	13.58	22.17	11.05	17.80	16.86	42.43	13.68	18.53	15.60	28.92
33942	67.01	-8.10	17.16	36.49	43.38	14.04	27.45	11.05	13.55	32.80	53.09	15.34	23.83	20.47	27.84
33943	67.80	-8.10	17.16	54.77	54.04	14.20	34.69	13.07	11.26	53.88	65.90	15.92	33.22	27.08	26.54
33944	68.59	-8.10	17.16	76.79	67.66	14.29	43.06	16.48	10.17	81.04	80.23	15.86	44.22	33.94	25.06
33945	69.38	-8.10	17.16	104.49	84.50	14.51	52.60	21.46	10.27	115.35	96.90	15.78	56.40	40.77	23.87
33946	70.17	-8.10	17.16	140.95	106.15	15.10	64.01	28.97	12.53	158.86	118.24	16.09	70.42	48.23	24.13
33947	70.96	-8.10	17.16	191.91	138.01	16.21	77.85	41.86	19.74	216.42	150.70	16.89	87.15	59.15	29.14
33948	71.75	-8.10	17.16	268.31	172.35	19.19	89.61	67.64	34.41	298.92	187.21	19.55	102.33	82.05	42.86
33949	72.53	-8.10	17.16	375.45	211.15	22.98	106.26	117.29	63.76	412.10	229.32	23.01	122.15	129.96	73.58
33950	73.32	-8.10	17.16	566.51	235.87	24.69	235.18	198.07	198.03	610.41	259.31	31.59	263.04	209.58	219.78
33951	74.11	-8.10	17.16	115.49	88.25	80.67	28.40	346.77	280.29	135.06	99.20	100.51	37.81	366.84	312.09
33952	74.90	-8.10	17.16	30.66	6.18	41.43	15.77	315.83	180.48	54.75	4.92	59.37	20.65	330.64	208.49
33953	75.69	-8.10	17.16	78.27	24.90	16.27	36.79	286.06	117.39	98.08	25.11	38.85	45.46	293.74	147.79
33954	76.48	-8.10	17.16	10.82	17.20	18.02	3.13	289.69	87.48	41.06	26.46	48.48	8.29	294.48	127.36
33955	77.27	-8.10	17.16	200.56	38.03	22.52	19.01	234.53	43.00	202.13	39.42	41.17	32.01	238.89	83.86
33956	78.06	-8.10	17.16	75.99	17.29	11.77	5.44	205.67	9.07	86.98	17.86	20.98	5.31	205.72	49.38
33957	66.14	-8.70	15.47	18.75	39.50	43.07	19.93	30.78	36.26	22.54	37.60	44.52	10.80	55.88	68.51
33958	66.93	-8.70	15.47	28.64	41.61	44.26	21.20	33.77	30.22	39.00	43.71	48.87	16.38	68.03	66.17
33959	67.72	-8.70	15.47	40.66	46.35	44.97	24.08	38.13	26.00	58.45	51.56	50.54	23.52	79.80	63.98
33960	68.52	-8.70	15.47	54.97	53.76	45.47	27.91	44.14	23.43	79.93	60.99	50.28	31.09	90.69	61.80
33961	69.31	-8.70	15.47	71.18	63.59	46.22	32.15	52.17	22.38	102.39	71.89	49.60	38.62	100.20	60.09
33962	70.11	-8.70	15.47	89.23	75.76	47.79	36.11	62.81	23.14	125.54	84.80	49.63	45.68	108.75	59.45
33963	70.90	-8.70	15.47	107.99	90.08	50.86	39.29	76.95	26.99	148.19	99.89	51.40	51.92	117.54	61.44
33964	71.70	-8.70	15.47	124.00	104.68	56.11	41.21	94.81	35.89	167.35	115.58	55.87	56.96	127.75	68.36
33965	72.49	-8.70	15.47	130.56	118.04	61.24	39.44	113.70	51.01	177.42	130.47	61.36	57.77	138.34	82.20
33966	73.29	-8.70	15.47	109.02	81.01	59.53	30.78	124.78	57.32	162.30	89.93	63.33	49.14	142.34	87.70
33967	74.08	-8.70	15.47	138.50	80.45	51.89	30.12	140.44	62.89	195.41	90.88	64.08	50.78	153.74	93.09
33968	74.87	-8.70	15.47	118.38	88.41	42.06	8.75	171.72	69.21	176.09	103.34	66.55	32.30	182.83	101.81
33969	75.67	-8.70	15.47	69.44	63.25	37.70	17.55	196.12	52.18	137.42	78.12	70.29	30.59	204.51	89.97
33970	76.46	-8.70	15.47	33.04	47.62	35.71	23.15	199.71	33.38	116.40	62.49	70.79	29.98	205.51	77.32
33971	77.26	-8.70	15.47	47.68	30.48	34.01	25.99	219.81	13.95	115.57	49.26	67.96	32.85	221.43	68.56
33972	78.05	-8.70	15.47	23.65	23.58	33.50	29.61	244.65	21.41	99.87	44.30	64.87	32.40	242.68	68.21
33973	65.75	-8.10	15.47	17.39	41.61	42.15	19.73	27.34	34.91	20.32	41.27	44.42	11.38	51.06	66.50
33974	66.57	-8.10	15.47	27.50	43.28	43.56	22.10	30.55	28.82	37.05	47.38	50.53	17.64	65.47	64.69
33975	67.39	-8.10	15.47	39.64	47.28	44.32	26.43	35.01	24.66	57.20	54.82	52.95	25.65	79.35	62.75
33976	68.21	-8.10	15.47	53.78	53.95	44.76	31.94	41.01	22.23	79.38	63.67	52.73	34.17	92.13	60.49
33977	69.03	-8.10	15.47	69.98	63.20	45.37	38.14	48.84	21.41	102.86	73.96	51.62	42.96	103.35	58.29
33978	69.85	-8.10	15.47	88.15	75.10	46.59	44.59	59.05	22.82	127.02	86.32	50.87	51.83	113.02	57.27
33979	70.67	-8.10	15.47	107.47	88.77	48.97	50.38	72.65	28.56	150.95	100.39	51.37	60.05	122.12	59.73
33980	71.49	-8.10	15.47	123.60	103.85										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
34007	66.98	-8.10	13.78	28.35	47.47	76.84	21.64	50.13	28.98	73.30	48.80	99.82	29.01	129.79	87.68
34008	67.83	-8.10	13.78	35.96	48.75	76.94	24.20	56.74	26.23	94.78	54.81	96.28	35.47	145.51	85.07
34009	68.68	-8.10	13.78	43.68	51.30	76.78	26.96	63.84	24.45	115.00	60.91	90.49	41.24	156.29	81.93
34010	69.53	-8.10	13.78	50.96	54.84	76.73	29.30	71.51	23.09	132.83	66.93	84.53	46.01	162.35	78.62
34011	70.38	-8.10	13.78	56.93	58.79	76.82	30.54	79.73	21.94	147.52	72.60	79.58	49.38	164.12	75.65
34012	71.23	-8.10	13.78	60.67	61.80	76.60	29.70	88.09	21.15	158.74	76.90	75.95	50.57	162.21	73.49
34013	72.08	-8.10	13.78	61.96	63.58	74.53	25.66	96.18	20.60	166.96	79.66	72.83	48.51	157.86	71.98
34014	72.93	-8.10	13.78	68.10	63.21	72.81	24.40	107.64	21.04	177.01	80.32	73.13	49.34	156.20	72.11
34015	73.78	-8.10	13.78	52.25	57.02	70.71	14.51	117.64	19.19	170.57	74.92	75.87	40.50	153.82	70.90
34016	74.63	-8.10	13.78	51.96	51.57	66.44	11.49	121.78	14.58	174.62	70.45	78.93	37.62	146.67	66.93
34017	75.48	-8.10	13.78	46.70	44.29	59.30	12.00	133.28	14.59	172.49	64.69	80.94	34.53	149.47	65.08
34018	76.33	-8.10	13.78	37.79	36.40	56.39	16.72	146.72	22.80	165.33	58.87	84.13	32.78	154.55	65.28
34019	77.18	-8.10	13.78	31.79	28.02	56.24	19.62	154.64	37.42	159.57	51.95	87.30	30.73	155.12	68.88
34020	78.03	-8.10	13.78	35.56	20.57	57.55	20.72	158.74	54.27	156.96	46.49	89.98	29.30	153.16	76.87
34021	65.17	-8.70	12.09	15.66	53.39	112.16	21.57	48.94	42.37	60.64	30.60	152.34	31.29	123.12	114.47
34022	66.03	-8.70	12.09	20.34	50.84	112.62	21.39	57.33	37.35	83.64	35.23	152.54	39.61	155.78	115.16
34023	66.88	-8.70	12.09	25.77	48.86	111.96	21.56	65.04	34.36	110.38	40.50	145.31	46.26	180.46	113.13
34024	67.74	-8.70	12.09	30.95	47.43	110.49	21.90	72.18	33.08	135.23	46.08	133.45	51.92	196.02	109.70
34025	68.60	-8.70	12.09	35.52	46.55	108.68	22.21	78.92	32.91	156.96	51.04	120.74	55.92	203.48	105.78
34026	69.45	-8.70	12.09	39.25	46.12	106.74	22.23	85.40	33.24	174.77	55.47	109.64	58.22	204.17	101.01
34027	70.31	-8.70	12.09	42.01	45.98	104.73	21.79	91.74	33.73	188.47	59.21	101.87	59.01	199.68	96.25
34028	71.17	-8.70	12.09	43.78	45.72	102.56	20.85	98.01	34.33	198.37	62.06	98.04	58.57	191.58	91.78
34029	72.02	-8.70	12.09	44.61	45.35	100.21	19.47	104.32	35.22	204.98	64.13	97.90	57.04	181.48	87.92
34030	72.88	-8.70	12.09	43.78	42.61	97.35	18.03	110.24	36.73	208.15	63.17	100.39	54.46	170.20	84.80
34031	73.74	-8.70	12.09	43.06	40.11	94.22	16.82	116.52	39.19	209.94	62.28	104.54	51.29	159.83	82.55
34032	74.59	-8.70	12.09	41.10	37.17	90.91	16.61	122.46	43.37	208.59	60.88	109.22	47.36	150.15	81.60
34033	75.45	-8.70	12.09	39.37	32.55	87.65	17.44	128.33	50.07	205.78	57.68	113.83	43.65	141.94	82.33
34034	76.31	-8.70	12.09	38.80	28.07	84.70	18.84	133.41	58.14	201.87	54.52	117.52	39.96	134.99	84.74
34035	77.16	-8.70	12.09	40.01	23.17	82.57	19.80	138.18	67.84	197.04	50.88	119.87	36.43	129.61	89.21
34036	78.02	-8.70	12.09	44.92	19.23	81.31	19.92	141.75	78.43	192.15	47.49	120.60	32.36	124.69	95.36
34037	64.81	-8.10	12.09	14.78	54.83	110.10	20.47	45.64	40.30	56.95	31.24	161.28	30.27	119.23	110.63
34038	65.69	-8.10	12.09	19.73	52.37	111.18	20.73	54.56	35.44	81.16	36.16	164.58	39.31	157.25	112.46
34039	66.57	-8.10	12.09	25.66	50.10	110.77	21.34	62.59	32.72	110.47	41.64	158.13	46.08	186.25	110.81
34040	67.45	-8.10	12.09	31.29	48.40	109.29	22.20	69.89	31.74	137.66	47.61	144.98	51.81	204.73	107.62
34041	68.33	-8.10	12.09	36.37	47.30	107.27	23.01	76.76	31.81	161.87	53.07	129.54	55.89	214.33	103.28
34042	69.21	-8.10	12.09	40.58	46.71	105.03	23.48	83.35	32.26	181.68	57.78	114.95	58.33	216.12	98.39
34043	70.09	-8.10	12.09	43.72	46.40	102.69	23.36	89.77	32.73	196.70	61.64	103.50	59.27	211.79	93.37
34044	70.97	-8.10	12.09	45.76	46.06	100.21	22.49	96.12	33.22	207.32	64.51	96.35	58.88	203.13	88.63
34045	71.85	-8.10	12.09	46.84	45.13	97.74	20.99	102.56	33.95	214.15	66.06	93.83	57.44	192.00	84.51
34046	72.73	-8.10	12.09	45.67	43.63	94.57	18.40	108.38	35.60	216.92	66.47	94.58	54.09	179.19	81.19
34047	73.61	-8.10	12.09	45.60	41.65	90.80	16.51	114.39	38.34	218.72	66.07	97.60	51.09	166.90	78.98
34048	74.49	-8.10	12.09	42.98	37.75	87.13	15.12	121.00	42.54	216.33	63.59	102.00	46.83	156.44	78.19
34049	75.37	-8.10	12.09	41.04	33.06	84.14	15.12	126.44	49.58	212.94	60.21	106.89	42.81	146.13	79.26
34050	76.25	-8.10	12.09	39.90	28.19	81.09	15.78	131.60	58.46	208.35	56.42	110.81	38.87	137.80	82.40
34051	77.13	-8.10	12.09	40.57	23.61	79.02	16.59	136.35	68.92	202.66	52.80	113.52	35.13	131.05	87.80
34052	78.01	-8.10	12.09	44.60	19.90	77.95	16.74	139.65	80.46	196.94	49.31	114.66	31.00	124.66	95.11
34053	64.69	-8.70	10.41	17.92	61.16	151.00	25.20	58.27	45.86	88.42	35.46	240.62	59.68	167.23	138.84
34054	65.57	-8.70	10.41	25.42	57.05	150.38	25.54	68.54	43.21	134.91	32.52	232.23	68.89	216.88	141.15
34055	66.46	-8.70	10.41	31.75	53.16	147.43	25.97	77.25	42.94	171.81	34.32	209.11	77.31	247.06	139.21
34056	67.35	-8.70	10.41	38.11	49.81	143.47	26.04	85.03	44.54	207.63	39.43	181.52	82.30	263.70	133.90
34057	68.24	-8.70	10.41	43.17	46.90	139.04	25.80	91.91	47.10	235.10	44.95	154.96	84.36	266.37	127.67
34058	69.13	-8.70	10.41	46.74	44.35	134.69	25.27	98.28	50.05	253.87	50.04	134.67	84.01	259.40	120.98
34059	70.01	-8.70	10.41	48.99	42.09	130.60	24.47	104.40	53.17	265.23	54.25	122.71	81.91	246.53	114.62
34060	70.90	-8.70	10.41	50.14	39.99	126.76	23.50	110.35	56.40	270.70	57.45	118.56	78.66	230.32	109.07
34061	71.79	-8.70	10.41	50.41	37.83	123.04	22.45	116.11	59.81	271.69	59.40	120.00	74.52	212.57	104.60
34062	72.68	-8.70	10.41	50.09	35.77	119.40	21.39	121.68	63.63	269.55	60.58	124.57	69.76	194.63	101.45
34063	73.57	-8.70	10.41	49.39	33.30	115.74	20.54	126.91	68.11	264.84	60.58	130.31	64.56	177.21	99.78
34064	74.45	-8.70	10.41	48.61	30.44	112.18	19.91	131.88	73.37	258.59	59.59	136.00	59.19	161.12	99.64
34065	75.34	-8.70	10.41	48.08	27.50	108.91	19.55	136.37	79.37	251.07	58.00	140.83	53.66	146.57	100.98
34066	76.23	-8.70	10.41	48.11	24.51	106.07	19.30	140.39	86.30	242.66	55.83	144.34	48.15	133.73	103.86
34067	77.12	-8.70	10.41	49.19	22.03	103.73	19.02	143.67	93.89	233.76	53.51	146.24	42.61	122.47	108.02
34068	78.01	-8.70	10.41	51.09	20.38	102.00	18.49	146.17	101.98	224.53	51.15	146.39	37.16	112.69	113.23
34069	64.34	-8.10	10.41	16.73	62.74	149.01	23.97	55.32	43.14	81.95	37.73	258.79	59.57	165.35	135.15
34070	65.25	-8.10	10.41	25.04	58.81	149.18	24.47	66.42	40.98	134.38	33.93	254.79	67.88	223.81	137.77
34071	66.16	-8.10	10.41	31.96	54.59	146.43	25.16	75.54	41.27	174.62	35.16	231.15	76.98	259.37	136.64
34072	67.07	-8.10	10.41	39.00	50.97	142.33	25.43	83.52	43.44	214.49	40.56	200.16	81.79	279.71	131.26
34073	67.98	-8.10	10.41	44.75	47.85	137.46	25.32	90.47	46.44	245.91	46.71	167.80	83.64	284.14	124.79
34074	68.89	-8.10	10.41	48.82	45.15	132.62	24.89	96.83	49.69	267.22	52.28	141.09	83.26	277.11	118.17
34075	69.80	-8.10	10.41	51.36	42.77	128.07	24.17	102.95	52.96	279.74	56.80	123.38	81.23	263.07	111.88
34076	70.71	-8.10	10.41	52.61	40.59	123.85	23.17	108.93	56.25	285.39	60.11	115.01	78.01	245.18	106.39
34077	71.62	-8.10	10.41	52.84	38.47	119.77	21.96	114.74	59.72	285.90	62.22	113.95	73.87	225.50	102.0

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
34105	67.63	-8.10	8.72	66.36	50.97	166.34	31.35	104.68	65.29	388.54	42.02	196.30	122.80	365.18	144.82
34106	68.57	-8.10	8.72	68.98	46.79	158.80	30.00	110.67	70.45	399.25	48.42	157.26	117.26	337.96	136.16
34107	69.51	-8.10	8.72	69.47	43.16	152.37	28.52	116.94	75.40	397.55	53.99	137.60	110.38	307.61	128.75
34108	70.45	-8.10	8.72	68.63	39.95	146.73	26.98	123.37	80.19	388.43	58.14	132.71	102.76	277.29	122.95
34109	71.40	-8.10	8.72	67.02	37.03	141.62	25.47	129.77	84.96	375.04	60.87	136.38	94.82	248.38	118.92
34110	72.34	-8.10	8.72	64.98	34.33	136.88	24.03	135.92	89.87	359.30	62.36	143.55	86.77	221.46	116.67
34111	73.28	-8.10	8.72	62.80	31.80	132.44	22.73	141.67	95.07	342.51	62.80	151.32	78.83	196.80	116.12
34112	74.22	-8.10	8.72	60.70	29.37	128.34	21.59	146.89	100.66	325.34	62.31	158.23	71.06	174.49	117.15
34113	75.16	-8.10	8.72	58.86	27.18	124.65	20.60	151.48	106.73	308.31	61.12	163.64	63.55	154.47	119.61
34114	76.10	-8.10	8.72	57.46	25.34	121.48	19.73	155.38	113.24	291.63	59.41	167.23	56.34	136.73	123.28
34115	77.04	-8.10	8.72	56.61	24.03	119.00	18.92	158.52	120.13	275.46	57.35	168.92	49.44	121.09	127.93
34116	77.98	-8.10	8.72	56.40	23.43	117.27	18.14	160.84	127.23	259.88	55.08	168.70	42.86	107.44	133.28
34117	63.72	-8.70	7.03	25.19	97.71	247.14	49.28	83.56	57.45	142.47	169.03	581.94	205.74	314.71	226.68
34118	64.67	-8.70	7.03	76.69	83.30	240.41	50.51	106.50	65.49	463.97	114.47	519.95	216.83	518.80	211.79
34119	65.62	-8.70	7.03	93.57	70.37	219.17	47.80	109.54	73.18	561.33	63.49	353.22	206.93	498.91	197.13
34120	66.57	-8.70	7.03	97.61	61.11	204.87	44.88	112.43	80.26	578.92	42.41	247.33	194.74	445.73	180.39
34121	67.52	-8.70	7.03	96.08	54.51	194.58	41.71	117.44	86.73	563.94	40.48	187.60	179.18	391.95	165.58
34122	68.47	-8.70	7.03	92.34	49.20	186.55	38.62	124.11	92.63	536.56	44.96	161.33	162.90	343.92	153.73
34123	69.42	-8.70	7.03	87.87	44.79	179.79	35.78	131.63	98.14	505.10	50.18	156.61	147.30	302.28	144.87
34124	70.37	-8.70	7.03	83.28	41.03	173.80	33.23	139.37	103.35	472.94	54.36	162.51	132.63	266.19	138.83
34125	71.32	-8.70	7.03	78.84	37.75	168.30	30.99	146.93	108.39	441.57	57.33	171.99	119.09	234.68	135.23
34126	72.27	-8.70	7.03	74.72	34.87	163.16	29.02	154.04	113.39	411.76	59.13	181.62	106.60	207.00	133.66
34127	73.22	-8.70	7.03	71.01	32.33	158.36	27.31	160.53	118.47	383.83	59.90	189.95	95.10	182.58	133.77
34128	74.17	-8.70	7.03	67.78	30.15	153.95	25.81	166.31	123.68	357.86	59.82	196.46	84.50	160.98	135.25
34129	75.12	-8.70	7.03	65.07	28.36	150.02	24.49	171.29	129.06	333.80	59.05	201.01	74.71	141.88	137.84
34130	76.07	-8.70	7.03	62.91	27.04	146.70	23.30	175.42	134.62	311.54	57.75	203.61	65.67	125.03	141.30
34131	77.02	-8.70	7.03	61.33	26.27	144.13	22.23	178.69	140.31	290.96	56.06	204.33	57.30	110.24	145.40
34132	77.97	-8.70	7.03	60.30	26.12	142.44	21.26	181.07	146.07	271.91	54.10	203.29	49.56	97.43	149.94
34133	63.40	-8.10	7.03	20.42	101.28	248.77	53.31	81.57	49.44	106.94	182.05	644.46	241.94	320.95	243.25
34134	64.37	-8.10	7.03	82.61	86.07	244.89	49.61	112.13	62.68	501.09	125.49	606.79	211.11	586.01	195.53
34135	65.34	-8.10	7.03	103.13	72.50	219.72	45.80	113.74	72.17	621.56	69.31	405.87	195.70	564.11	184.40
34136	66.31	-8.10	7.03	107.60	62.56	202.93	42.59	113.92	80.03	640.92	44.05	274.10	183.71	496.80	171.86
34137	67.28	-8.10	7.03	105.30	55.38	191.35	39.61	117.20	86.90	620.45	41.94	197.18	170.89	430.56	159.84
34138	68.25	-8.10	7.03	100.42	49.84	182.61	36.72	123.04	93.08	585.71	47.24	159.94	156.87	373.29	149.78
34139	69.23	-8.10	7.03	94.75	45.30	175.43	34.03	130.30	98.78	546.91	52.92	149.62	142.82	324.86	142.15
34140	70.20	-8.10	7.03	89.04	41.46	169.13	31.58	138.08	104.16	508.18	57.27	153.65	129.23	283.79	136.96
34141	71.17	-8.10	7.03	83.62	38.13	163.37	29.37	145.82	109.37	471.22	60.18	163.00	116.36	248.55	134.01
34142	72.14	-8.10	7.03	78.62	35.21	158.00	27.41	153.16	114.55	436.69	61.82	173.12	104.34	218.01	132.99
34143	73.11	-8.10	7.03	74.14	32.64	152.98	25.69	159.89	119.82	404.75	62.37	182.06	93.16	191.33	133.60
34144	74.08	-8.10	7.03	70.19	30.43	148.37	24.18	165.87	125.25	375.39	62.04	189.16	82.80	167.90	135.57
34145	75.05	-8.10	7.03	66.84	28.62	144.28	22.86	171.01	130.90	348.46	61.01	194.20	73.20	147.28	138.64
34146	76.02	-8.10	7.03	64.08	27.27	140.85	21.68	175.26	136.75	323.77	59.43	197.18	64.32	129.12	142.57
34147	76.99	-8.10	7.03	61.95	26.47	138.24	20.61	178.59	142.77	301.13	57.47	198.19	56.10	113.18	147.14
34148	77.96	-8.10	7.03	60.42	26.27	136.59	19.67	180.98	148.86	280.31	55.24	197.35	48.51	99.29	152.14
34149	63.24	-8.70	5.34	285.85	180.23	354.71	115.45	186.40	54.12	1659.45	542.83	1237.48	541.14	1123.45	322.57
34150	64.22	-8.70	5.34	233.59	106.67	262.54	81.50	134.53	85.51	1349.30	173.39	523.74	371.02	766.72	240.10
34151	65.20	-8.70	5.34	194.16	80.36	240.29	69.12	118.92	95.70	1114.90	78.74	317.64	319.96	570.71	212.79
34152	66.18	-8.70	5.34	164.55	67.29	227.55	59.75	119.04	103.97	943.66	50.18	220.24	275.79	451.08	188.86
34153	67.16	-8.70	5.34	142.69	59.10	218.56	52.20	125.94	110.76	817.61	44.75	179.60	237.52	372.30	172.24
34154	68.14	-8.70	5.34	125.75	52.80	211.08	46.28	135.23	116.65	719.01	46.93	170.94	206.03	315.21	161.14
34155	69.13	-8.70	5.34	112.39	47.75	204.34	41.58	145.15	122.03	639.38	50.94	177.51	179.93	271.35	153.99
34156	70.11	-8.70	5.34	101.62	43.62	198.01	37.72	154.88	127.05	573.24	54.28	189.09	157.56	236.15	149.95
34157	71.09	-8.70	5.34	92.78	40.09	191.93	34.56	164.06	131.89	517.04	56.76	201.00	138.35	206.88	148.27
34158	72.07	-8.70	5.34	85.44	37.08	186.10	31.91	172.48	136.65	468.62	58.19	211.42	121.60	182.00	148.36
34159	73.05	-8.70	5.34	79.35	34.53	180.59	29.66	180.02	141.43	426.49	58.69	219.78	106.86	160.51	149.82
34160	74.03	-8.70	5.34	74.30	32.44	175.51	27.74	186.60	146.26	389.53	58.41	225.96	93.78	141.74	152.30
34161	75.02	-8.70	5.34	70.16	30.82	171.02	26.07	192.17	151.18	356.93	57.50	230.05	82.10	125.24	155.54
34162	76.00	-8.70	5.34	66.85	29.71	167.31	24.61	196.70	156.19	328.03	56.10	232.16	71.63	110.70	159.35
34163	76.98	-8.70	5.34	64.27	29.14	164.55	23.34	200.17	161.25	302.32	54.35	232.45	62.18	97.93	163.55
34164	77.96	-8.70	5.34	62.37	29.12	162.90	22.24	202.58	166.33	279.36	52.36	231.07	53.66	86.85	167.99
34165	62.93	-8.10	5.34	329.60	180.48	385.14	85.25	226.65	40.06	1970.95	597.27	1525.01	306.08	1392.02	254.28
34166	63.93	-8.10	5.34	273.69	118.37	264.13	65.99	152.72	81.88	1603.18	234.96	604.38	263.59	914.10	204.47
34167	64.93	-8.10	5.34	225.48	84.34	236.44	58.96	125.00	96.05	1303.85	90.92	344.92	257.44	656.27	190.76
34168	65.93	-8.10	5.34	188.12	68.72	222.72	53.50	119.51	104.26	1081.77	51.69	228.31	241.12	503.58	178.28
34169	66.93	-8.10	5.34	160.16	59.55	213.37	48.08	124.44	111.19	918.82	46.19	176.61	217.72	406.40	166.33
34170	67.94	-8.10	5.34	139.05	53.04	205.78	43.21	133.30	117.25	795.65	49.35	162.74	193.64	338.94	157.58
34171	68.94	-8.10	5.34	122.64	47.88	198.96	39.07	143.35	122.80	698.68	53.72	167.80	171.63	288.62	151.88
34172	69.94	-8.10	5.34	109.59	43.67	192.51	35.56	153.43	128.02	619.80	57.14	179.50	151.79	249.14	148.78
34173	70.94	-8.10	5.34	99.01	40.11	186.29	32.57	162.99	133.06	554.16	59.41	192.02	134.03	216.94	147.81
34174	71.94	-8.10	5.34	90.31	37.06	180.27	30.02	171.79	138.04	498.48	60.60	203.12	118.21	1	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
34203	83.41	-8.70	17.16	656.59	327.65	26.17	68.21	222.07	209.73	698.29	336.56	26.64	66.89	225.95	215.41
34204	84.17	-8.70	17.16	489.43	146.08	26.83	66.40	137.59	69.00	529.27	146.14	27.27	66.47	140.34	69.02
34205	84.94	-8.70	17.16	379.58	121.18	20.08	58.93	92.61	43.28	417.63	119.52	20.53	59.29	94.90	42.72
34206	85.70	-8.70	17.16	294.13	92.12	15.99	60.95	63.89	34.16	329.15	88.04	16.27	61.46	66.04	33.45
34207	86.46	-8.70	17.16	229.59	68.00	14.23	60.90	47.83	28.95	260.95	61.02	14.35	61.35	50.26	28.14
34208	87.23	-8.70	17.16	180.95	50.21	13.65	58.44	38.98	26.48	207.61	39.47	13.69	58.72	41.81	25.69
34209	87.99	-8.70	17.16	141.98	39.29	13.54	55.56	33.86	26.18	162.92	23.45	13.58	55.56	36.99	25.60
34210	88.75	-8.70	17.16	108.73	34.39	13.66	52.68	30.95	27.62	123.27	13.09	13.82	52.17	34.16	27.49
34211	89.52	-8.70	17.16	79.70	35.47	13.95	49.40	29.65	30.85	87.73	15.72	14.36	48.06	32.64	31.55
34212	90.28	-8.70	17.16	52.86	41.96	14.37	45.40	30.07	36.63	54.87	28.00	14.89	42.66	32.70	38.78
34213	78.86	-8.10	15.47	44.86	14.21	48.17	20.82	227.19	50.96	108.18	35.30	68.40	24.15	222.61	78.49
34214	79.68	-8.10	15.47	85.61	12.99	60.37	17.50	207.86	77.64	135.65	33.17	78.67	18.45	201.53	94.95
34215	80.50	-8.10	15.47	71.54	19.75	56.15	13.35	192.57	102.31	131.29	34.36	75.20	15.75	185.39	114.11
34216	81.32	-8.10	15.47	98.94	41.46	48.85	15.29	201.97	130.30	149.84	52.33	67.72	16.51	194.96	139.58
34217	82.14	-8.10	15.47	169.59	62.21	48.75	5.06	188.96	153.49	212.55	70.07	62.37	3.57	181.80	160.49
34218	82.96	-8.10	15.47	224.96	80.41	39.48	33.41	138.01	146.92	266.66	84.91	43.61	33.64	128.95	151.38
34219	83.77	-8.10	15.47	143.87	83.99	46.42	26.85	134.44	142.36	181.36	86.73	46.27	26.09	126.83	144.92
34220	84.59	-8.10	15.47	191.56	91.15	52.10	65.64	135.69	133.48	227.56	91.44	52.67	66.23	131.96	134.50
34221	85.41	-8.10	15.47	189.94	82.65	46.08	67.46	118.39	109.66	225.32	80.60	46.78	67.65	117.17	109.51
34222	86.23	-8.10	15.47	171.55	67.66	42.44	65.30	101.45	92.07	205.13	62.99	42.89	65.23	102.52	91.33
34223	87.05	-8.10	15.47	148.19	55.01	40.76	61.59	88.71	81.78	179.00	47.05	40.92	61.27	92.01	80.80
34224	87.87	-8.10	15.47	125.17	45.41	40.29	57.17	79.61	77.18	152.01	33.12	40.34	56.57	84.74	76.26
34225	88.69	-8.10	15.47	103.67	39.79	40.50	52.88	73.27	76.71	125.41	22.09	40.84	51.94	79.64	76.15
34226	89.51	-8.10	15.47	83.95	37.77	41.10	48.89	69.21	79.49	99.74	14.73	42.31	47.53	76.10	79.62
34227	90.33	-8.10	15.47	65.93	38.58	42.02	45.26	67.22	85.22	75.39	13.45	44.73	43.39	73.87	86.40
34228	91.15	-8.10	15.47	49.65	40.79	43.65	42.32	66.97	93.78	53.22	17.09	48.11	39.77	72.55	96.40
34229	78.85	-8.70	15.47	49.16	14.34	49.29	29.87	247.61	50.35	108.30	38.20	73.81	32.30	242.65	79.23
34230	79.64	-8.70	15.47	97.42	13.28	59.90	27.73	227.61	78.54	142.11	34.96	82.77	28.39	221.20	97.00
34231	80.44	-8.70	15.47	81.97	24.02	59.85	23.78	211.28	103.08	136.82	38.09	83.41	25.14	204.15	116.15
34232	81.23	-8.70	15.47	127.91	38.53	50.87	18.14	210.63	124.32	172.81	48.72	74.60	18.08	203.48	134.57
34233	82.03	-8.70	15.47	185.93	62.74	43.86	8.78	186.20	144.56	225.73	69.67	61.44	7.06	178.55	152.37
34234	82.82	-8.70	15.47	206.28	59.16	43.02	37.77	155.37	138.24	244.49	62.73	49.82	38.64	147.11	143.52
34235	83.61	-8.70	15.47	172.16	62.03	51.08	42.81	146.32	128.02	206.69	63.35	51.76	43.56	139.15	131.13
34236	84.41	-8.70	15.47	200.12	96.43	53.85	50.32	141.39	116.79	233.13	97.20	53.66	51.04	136.59	118.22
34237	85.20	-8.70	15.47	194.41	82.58	48.40	53.52	124.81	97.47	226.25	80.78	48.25	53.86	122.00	97.58
34238	86.00	-8.70	15.47	176.13	68.10	43.58	53.75	107.88	84.50	206.36	63.70	43.31	53.72	107.05	83.91
34239	86.79	-8.70	15.47	153.32	54.82	41.37	52.86	94.53	76.96	181.07	47.28	40.95	52.54	95.74	76.05
34240	87.59	-8.70	15.47	130.39	44.86	40.71	51.11	84.94	73.77	154.69	33.19	40.30	50.48	88.07	72.85
34241	88.38	-8.70	15.47	108.82	38.59	40.86	48.86	78.40	74.03	128.69	21.60	40.76	47.89	83.03	73.42
34242	89.18	-8.70	15.47	88.78	36.03	41.44	46.66	74.31	77.22	103.41	13.58	42.11	45.28	79.87	77.25
34243	89.97	-8.70	15.47	70.83	36.48	42.41	44.57	72.36	83.18	79.87	12.13	44.40	42.71	78.12	84.22
34244	90.76	-8.70	15.47	54.78	38.70	44.14	42.90	72.41	91.87	58.52	16.26	47.67	40.43	77.61	94.33
34245	78.87	-8.10	13.78	48.87	16.25	58.63	20.31	160.32	71.84	157.11	42.67	90.54	26.12	150.04	88.22
34246	79.72	-8.10	13.78	61.10	16.23	60.64	18.12	159.47	89.43	158.25	40.40	89.80	22.43	145.33	101.53
34247	80.57	-8.10	13.78	82.21	21.62	61.86	14.32	154.57	106.22	165.58	40.98	87.18	16.29	137.36	115.30
34248	81.42	-8.10	13.78	96.13	28.85	60.51	9.18	143.41	119.61	171.63	42.56	80.74	8.33	123.53	126.34
34249	82.27	-8.10	13.78	102.23	36.61	57.31	12.78	134.27	127.57	170.59	45.93	70.36	9.94	112.66	132.53
34250	83.12	-8.10	13.78	100.53	43.28	57.90	19.88	134.71	134.23	161.81	49.43	64.08	17.45	113.63	137.75
34251	83.97	-8.10	13.78	121.60	49.67	59.59	34.00	127.93	133.89	174.81	52.71	60.86	32.86	107.74	136.10
34252	84.82	-8.10	13.78	112.69	50.79	61.38	37.53	119.05	128.72	160.82	51.22	59.95	36.34	100.76	129.85
34253	85.67	-8.10	13.78	111.00	49.51	63.22	44.05	114.71	123.47	154.14	46.95	60.71	43.08	100.87	123.81
34254	86.52	-8.10	13.78	106.53	47.14	64.37	46.81	109.51	118.31	145.29	41.23	61.57	45.82	100.58	118.14
34255	87.37	-8.10	13.78	99.22	44.16	65.44	47.27	104.00	114.89	133.54	34.35	62.70	46.17	99.75	114.49
34256	88.22	-8.10	13.78	90.13	41.92	66.68	46.53	98.93	113.86	119.55	27.58	64.46	45.26	98.75	113.46
34257	89.07	-8.10	13.78	80.31	40.90	68.08	45.27	94.71	115.27	104.17	21.61	67.15	43.81	97.72	115.11
34258	89.92	-8.10	13.78	70.52	41.09	69.59	43.98	91.58	118.94	88.26	17.01	71.09	42.31	96.71	119.26
34259	90.77	-8.10	13.78	61.23	42.20	71.33	42.99	89.66	124.58	72.63	14.16	76.76	41.14	95.78	125.55
34260	91.62	-8.10	13.78	52.72	43.61	73.90	42.66	88.85	131.42	58.15	12.91	85.02	40.72	94.81	133.18
34261	78.86	-8.70	13.78	50.78	15.44	61.14	28.83	164.50	69.49	155.15	41.48	97.23	32.65	153.57	88.04
34262	79.69	-8.70	13.78	63.52	16.12	62.71	25.74	163.83	85.88	156.96	39.73	95.82	28.34	149.58	99.81
34263	80.51	-8.70	13.78	87.59	22.62	62.99	20.63	157.90	100.93	166.36	40.92	92.05	21.26	140.95	111.53
34264	81.34	-8.70	13.78	98.20	32.66	61.45	14.21	146.65	113.24	170.12	45.29	85.18	12.69	127.27	121.28
34265	82.17	-8.70	13.78	103.75	40.34	59.53	10.54	139.94	118.47	168.71	48.99	76.26	4.26	119.27	124.46
34266	82.99	-8.70	13.78	108.09	50.74	59.66	12.50	135.76	122.57	165.71	56.40	68.86	6.92	114.91	126.85
34267	83.82	-8.70	13.78	119.51	55.59	61.08	21.66	130.82	123.52	170.17	58.61	64.43	19.07	110.70	126.35
34268	84.64	-8.70	13.78	114.91	50.18	62.74	31.00	124.10	120.51	160.30	50.24	62.54	29.32	105.87	122.13
34269	85.47	-8.70	13.78	113.71	49.94	64.12	37.28	119.71	116.39	154.22	47.34	62.08	35.97	105.11	117.07
34270	86.29	-8.70	13.78	109.64	46.87	65.01	40.66	114.71	112.35	145.80	41.08	62.18	39.42	104.31	112.39
34271	87.12	-8.70	13.78	102.62	43.58	65.92	42.17	109.38	109.96	134.53	34.05	62.86	40.85	103.23	109.67
34272	87.94	-8.70	13.78	93.86	41.06	67.05	42.53	104.47	109.71	121.21	27.17	64.28	41.06	102.22	109.35
34273	88.77	-8.70	13.78	84.27	39.79	68.38	42.29	100.43	111.60	106.55	21.13	66.64	40.65	101.42	111.42
34274	89.60														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
34301	85.73	-8.70	12.09	83.46	39.68	86.66	30.12	125.71	133.23	137.91	36.54	83.02	26.94	96.48	134.04
34302	86.59	-8.70	12.09	81.44	40.34	89.20	33.10	122.63	133.97	128.88	33.26	83.09	30.26	99.49	134.33
34303	87.45	-8.70	12.09	78.54	40.85	91.81	35.32	119.48	135.15	119.29	29.61	84.52	32.71	102.69	135.24
34304	88.30	-8.70	12.09	74.90	41.57	94.43	36.95	116.35	137.13	109.06	25.99	87.26	34.48	105.55	137.13
34305	89.16	-8.70	12.09	70.68	42.63	97.02	38.22	113.43	140.10	98.13	22.70	91.47	35.88	107.91	140.17
34306	90.02	-8.70	12.09	66.11	44.09	99.60	39.54	110.92	144.11	86.69	20.13	97.47	37.37	109.76	144.37
34307	90.87	-8.70	12.09	61.75	45.92	102.27	40.95	109.20	149.14	75.55	18.51	105.77	39.06	111.28	149.67
34308	91.73	-8.70	12.09	57.81	48.10	105.27	42.60	108.86	154.71	65.25	17.90	116.90	41.06	113.10	155.52
34309	78.91	-8.10	10.41	53.54	20.60	96.89	15.79	146.50	113.29	220.78	50.36	139.29	31.06	104.19	120.88
34310	79.82	-8.10	10.41	56.46	21.47	96.56	14.98	147.09	121.86	210.49	48.11	136.07	25.80	95.71	127.76
34311	80.73	-8.10	10.41	59.71	23.43	96.81	14.56	146.86	129.84	200.24	46.17	131.33	20.87	88.63	134.37
34312	81.64	-8.10	10.41	62.54	26.07	97.73	15.06	145.87	136.91	189.96	44.43	125.61	16.98	83.13	140.34
34313	82.55	-8.10	10.41	65.04	28.93	99.22	16.81	144.17	142.83	179.72	42.78	119.36	15.12	79.51	145.36
34314	83.46	-8.10	10.41	66.24	31.74	101.44	19.54	142.16	147.72	169.02	41.13	113.48	15.84	78.56	149.52
34315	84.37	-8.10	10.41	67.66	34.50	104.34	22.91	139.63	151.49	159.04	39.46	108.62	18.64	79.88	152.70
34316	85.28	-8.10	10.41	67.46	36.89	107.76	26.07	136.65	154.40	148.41	37.49	105.21	21.84	83.16	155.14
34317	86.19	-8.10	10.41	67.22	38.92	111.55	29.19	133.50	156.83	138.24	35.08	103.53	25.27	88.09	157.23
34318	87.10	-8.10	10.41	66.21	40.83	115.60	31.90	130.00	159.09	127.86	32.52	103.82	28.31	93.51	159.25
34319	88.01	-8.10	10.41	64.70	42.72	119.77	34.24	126.33	161.48	117.32	29.90	106.17	31.00	98.89	161.50
34320	88.92	-8.10	10.41	62.79	44.71	123.94	36.33	122.58	164.21	106.51	27.43	110.73	33.44	103.73	164.20
34321	89.83	-8.10	10.41	60.59	46.88	128.06	38.32	118.89	167.40	95.39	25.37	117.75	35.85	107.75	167.46
34322	90.74	-8.10	10.41	58.31	49.29	132.08	40.34	115.48	171.11	84.16	24.01	127.56	38.35	110.90	171.32
34323	91.65	-8.10	10.41	56.13	52.01	136.06	42.42	112.70	175.24	73.17	23.56	140.45	41.01	113.38	175.63
34324	92.56	-8.10	10.41	54.23	54.75	140.07	44.69	110.77	179.14	63.10	24.05	156.61	43.92	115.34	179.71
34325	78.89	-8.70	10.41	54.15	19.98	100.82	17.67	147.81	110.19	215.22	48.89	144.68	31.64	104.19	119.10
34326	79.78	-8.70	10.41	57.38	20.92	100.26	16.66	148.55	118.15	205.77	46.84	141.31	26.19	96.84	125.15
34327	80.67	-8.70	10.41	61.04	22.96	100.24	15.85	148.49	125.51	196.36	45.07	136.51	20.91	90.73	130.95
34328	81.56	-8.70	10.41	64.07	25.75	100.83	15.72	147.64	132.10	186.78	43.60	130.74	16.41	85.97	136.26
34329	82.45	-8.70	10.41	66.60	28.68	102.03	16.68	146.27	137.61	177.09	42.16	124.52	13.54	83.10	140.73
34330	83.33	-8.70	10.41	68.25	31.61	103.87	18.60	144.41	142.26	167.21	40.73	118.43	13.24	82.27	144.52
34331	84.22	-8.70	10.41	69.60	34.18	106.34	21.37	142.26	146.03	157.61	39.02	113.16	15.50	83.70	147.60
34332	85.11	-8.70	10.41	69.77	36.30	109.40	24.40	139.70	149.06	147.63	36.86	109.21	18.84	86.88	150.07
34333	86.00	-8.70	10.41	69.67	38.38	112.86	27.30	136.93	151.65	137.93	34.68	106.83	22.27	91.49	152.24
34334	86.89	-8.70	10.41	68.89	40.25	116.61	29.94	133.89	154.13	128.08	32.19	106.26	25.46	96.68	154.41
34335	87.77	-8.70	10.41	67.54	42.09	120.50	32.35	130.68	156.70	118.03	29.68	107.61	28.39	101.95	156.79
34336	88.66	-8.70	10.41	65.83	44.02	124.43	34.58	127.40	159.57	107.83	27.33	111.06	31.13	106.85	159.59
34337	89.55	-8.70	10.41	63.82	46.12	128.34	36.71	124.19	162.83	97.36	25.33	116.85	33.79	111.13	162.88
34338	90.44	-8.70	10.41	61.63	48.46	132.23	38.98	121.20	166.55	86.67	24.09	125.26	36.66	114.73	166.69
34339	91.33	-8.70	10.41	59.64	51.10	136.09	41.31	118.85	170.76	76.47	23.79	136.62	39.68	117.76	171.04
34340	92.21	-8.70	10.41	58.11	54.13	140.01	43.71	117.70	175.03	67.38	24.46	151.10	42.81	120.76	175.43
34341	78.92	-8.10	8.72	56.71	23.63	116.40	17.39	162.34	134.35	244.90	52.71	166.69	36.63	95.72	139.02
34342	79.86	-8.10	8.72	57.50	24.61	116.41	16.83	163.01	141.29	230.52	50.36	163.07	30.78	85.92	144.85
34343	80.80	-8.10	8.72	58.47	26.24	117.33	16.66	162.85	147.83	216.69	48.07	158.14	25.52	78.21	150.53
34344	81.74	-8.10	8.72	59.51	28.34	119.12	17.11	161.91	153.84	203.39	45.86	152.27	21.13	72.91	155.83
34345	82.68	-8.10	8.72	60.33	30.70	121.78	18.30	160.28	159.21	190.53	43.73	145.99	18.11	70.42	160.63
34346	83.62	-8.10	8.72	61.06	33.16	125.24	20.16	157.97	163.90	178.23	41.63	139.80	16.94	70.80	164.85
34347	84.56	-8.10	8.72	61.33	35.57	129.39	22.48	155.10	167.98	166.21	39.47	134.27	17.65	73.89	168.56
34348	85.50	-8.10	8.72	61.47	37.95	134.13	25.09	151.72	171.55	154.69	37.29	129.95	19.75	79.10	171.82
34349	86.45	-8.10	8.72	61.17	40.32	139.34	27.72	147.88	174.75	143.34	35.13	127.39	22.49	85.55	174.79
34350	87.39	-8.10	8.72	60.63	42.66	144.86	30.34	143.69	177.74	132.13	33.00	127.06	25.52	92.54	177.62
34351	88.33	-8.10	8.72	59.79	45.06	150.57	32.91	139.19	180.66	120.91	31.04	129.46	28.68	99.38	180.45
34352	89.27	-8.10	8.72	58.73	47.56	156.37	35.48	134.52	183.64	109.54	29.42	135.02	31.93	105.63	183.42
34353	90.21	-8.10	8.72	57.53	50.23	162.19	38.13	129.79	186.72	97.98	28.33	144.10	35.36	111.01	186.57
34354	91.15	-8.10	8.72	56.36	53.15	167.97	40.86	125.21	189.97	86.44	28.03	156.96	38.96	115.38	189.96
34355	92.09	-8.10	8.72	55.38	56.40	173.74	43.64	121.12	193.30	75.32	28.64	173.64	42.63	118.84	193.49
34356	93.03	-8.10	8.72	54.68	59.71	179.53	46.51	117.68	196.18	65.25	30.06	194.02	46.38	121.34	196.58
34357	78.91	-8.70	7.03	57.13	23.21	121.21	18.92	163.02	131.22	238.42	51.47	172.28	37.26	95.13	136.71
34358	79.83	-8.70	7.03	58.30	24.24	121.00	18.24	163.79	137.70	225.14	49.33	168.58	31.23	86.44	141.96
34359	80.75	-8.70	7.03	59.57	25.91	121.61	17.85	163.79	143.87	212.27	47.24	163.63	25.71	79.75	147.12
34360	81.67	-8.70	7.03	60.88	28.00	123.04	17.97	163.07	149.55	199.82	45.18	157.77	20.93	75.36	151.99
34361	82.59	-8.70	7.03	61.99	30.34	125.29	18.75	161.68	154.68	187.76	43.17	151.45	17.35	73.50	156.45
34362	83.51	-8.70	7.03	62.89	32.77	128.33	20.19	159.71	159.20	176.09	41.17	145.18	15.54	74.26	160.43
34363	84.42	-8.70	7.03	63.39	35.21	132.07	22.13	157.18	163.18	164.71	39.17	139.45	15.74	77.40	163.97
34364	85.34	-8.70	7.03	63.69	37.61	136.40	24.38	154.20	166.74	153.72	37.15	134.75	17.55	82.45	167.16
34365	86.26	-8.70	7.03	63.60	39.93	141.20	26.80	150.81	169.98	142.91	35.07	131.59	20.25	88.67	170.12
34366	87.18	-8.70	7.03	63.26	42.25	146.35	29.26	147.09	173.01	132.24	33.01	130.41	23.34	95.45	172.95
34367	88.10	-8.70	7.03	62.57	44.61	151.72	31.75	143.10	175.98	121.53	31.13	131.71	26.62	102.21	175.80
34368	89.02	-8.70	7.03	61.69	47.07	157.21	34.29	138.95	179.00	110.78	29.57	135.91	30.03	108.52	178.77
34369	89.94	-8.70	7.03	60.67	49.68	162.76	36.89	134.77	182.09	99.89	28.48	143.40	33.58	114.14	181.92
34370	90.86	-8.70	7.03	59.59	52.56	168.34	39.71	130.69	185.31	88.90	28.22	154.43	37.42	118.93	185.24
34371	91.78	-8.70	7.03	58.78	55.75	173.90									



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
34399	88.43	-8.70	7.03	60.72	47.51	184.99	32.46	156.31	193.65	125.97	33.16	156.27	26.44	103.44	193.05
34400	89.38	-8.70	7.03	60.22	50.21	192.38	35.18	151.02	196.49	114.91	32.37	161.48	30.35	110.97	195.89
34401	90.33	-8.70	7.03	59.65	53.06	199.93	38.06	145.61	199.23	103.62	32.07	171.05	34.52	117.72	198.71
34402	91.28	-8.70	7.03	59.08	56.21	207.60	41.20	140.17	201.87	92.12	32.56	185.18	39.06	123.46	201.53
34403	92.23	-8.70	7.03	58.50	59.69	215.24	44.39	135.12	204.52	81.26	33.88	203.83	43.64	128.02	204.46
34404	93.18	-8.70	7.03	59.08	63.64	222.97	47.52	130.88	206.72	71.81	35.93	226.64	48.01	131.68	207.05
34405	78.95	-8.10	5.34	60.72	29.36	155.97	19.72	204.31	174.49	265.62	50.62	222.11	44.77	78.27	175.44
34406	79.95	-8.10	5.34	59.49	30.34	157.13	19.21	204.53	179.64	245.77	48.22	217.91	38.02	69.98	180.27
34407	80.95	-8.10	5.34	58.72	31.74	159.71	19.11	203.69	184.59	228.01	45.88	212.54	32.08	63.88	184.96
34408	81.95	-8.10	5.34	58.30	33.49	163.63	19.51	201.82	189.29	212.07	43.67	206.25	27.03	60.43	189.42
34409	82.96	-8.10	5.34	58.13	35.50	168.79	20.46	198.98	193.70	197.70	41.65	199.36	23.07	59.99	193.62
34410	83.96	-8.10	5.34	58.12	37.70	175.02	21.93	195.26	197.80	184.66	39.84	192.23	20.49	62.61	197.53
34411	84.96	-8.10	5.34	58.19	40.04	182.16	23.86	190.73	201.59	172.67	38.30	185.36	19.53	67.89	201.13
34412	85.96	-8.10	5.34	58.28	42.48	190.06	26.16	185.50	205.09	161.48	37.04	179.38	20.22	75.20	204.47
34413	86.96	-8.10	5.34	58.30	45.02	198.80	28.73	179.67	208.34	150.76	36.11	175.14	22.26	83.82	207.57
34414	87.96	-8.10	5.34	58.22	47.65	207.67	31.50	173.34	211.37	140.17	35.53	173.74	25.26	93.12	210.48
34415	88.96	-8.10	5.34	57.99	50.38	217.21	34.45	166.63	214.20	129.40	35.32	176.43	28.95	102.50	213.25
34416	89.97	-8.10	5.34	57.61	53.21	227.17	37.54	159.62	216.84	118.17	35.50	184.46	33.15	111.45	215.90
34417	90.97	-8.10	5.34	57.11	56.20	237.48	40.81	152.39	219.26	106.29	36.12	198.67	37.76	119.44	218.44
34418	91.97	-8.10	5.34	56.63	59.44	248.00	44.19	145.06	221.44	93.95	37.25	219.23	42.62	125.99	220.85
34419	92.97	-8.10	5.34	56.24	62.99	258.45	47.55	137.80	223.24	81.58	38.87	245.55	47.44	130.69	223.05
34420	93.97	-8.10	5.34	55.91	66.74	268.40	51.04	130.42	224.39	69.83	40.89	275.98	52.20	132.66	224.83
34421	78.94	-8.70	5.34	61.07	29.64	162.49	21.36	203.94	171.34	258.81	50.23	228.19	45.94	77.51	172.53
34422	79.92	-8.70	5.34	60.26	30.64	163.39	20.78	204.26	176.24	240.34	48.07	223.98	38.99	70.04	177.05
34423	80.90	-8.70	5.34	59.83	32.05	165.61	20.56	203.58	180.97	223.73	45.95	218.64	32.80	64.80	181.47
34424	81.89	-8.70	5.34	59.71	33.80	169.10	20.79	201.95	185.49	208.74	43.93	212.42	27.45	62.15	185.71
34425	82.87	-8.70	5.34	59.79	35.79	173.77	21.50	199.41	189.75	195.16	42.07	205.59	23.11	62.36	189.73
34426	83.85	-8.70	5.34	60.00	37.97	179.50	22.71	196.04	193.74	182.76	40.40	198.52	20.07	65.38	193.49
34427	84.83	-8.70	5.34	60.25	40.29	186.15	24.37	191.92	197.46	171.32	38.95	191.65	18.64	70.82	197.00
34428	85.81	-8.70	5.34	60.50	42.70	193.58	26.40	187.14	200.93	160.60	37.76	185.55	18.95	78.09	200.27
34429	86.79	-8.70	5.34	60.69	45.20	201.69	28.72	181.80	204.16	150.31	36.85	181.00	20.78	86.58	203.34
34430	87.77	-8.70	5.34	60.78	47.80	210.37	31.25	176.01	207.17	140.17	36.23	178.97	23.69	95.71	206.22
34431	88.76	-8.70	5.34	60.67	50.47	219.56	33.98	169.84	209.98	129.82	35.94	180.62	27.37	104.96	208.95
34432	89.74	-8.70	5.34	60.44	53.26	229.17	36.88	163.39	212.62	119.16	36.02	187.08	31.60	113.84	211.60
34433	90.72	-8.70	5.34	60.11	56.17	239.13	39.94	156.76	215.02	107.95	36.45	199.20	36.22	121.91	214.12
34434	91.70	-8.70	5.34	59.72	59.36	249.33	43.24	149.95	217.15	96.17	37.46	217.23	41.24	128.75	216.49
34435	92.68	-8.70	5.34	59.53	62.83	259.40	46.54	143.35	219.04	84.72	39.04	240.81	46.23	133.91	218.79
34436	93.66	-8.70	5.34	59.65	66.66	268.89	49.76	137.02	219.99	74.19	40.95	268.40	50.92	138.98	220.42
34437	70.53	-9.28	17.16	138.86	101.16	15.76	35.67	32.10	11.08	154.55	108.19	15.85	46.63	45.29	25.41
34438	69.83	-9.26	17.16	105.01	82.10	15.07	34.11	24.40	10.77	115.86	88.25	15.33	40.74	38.81	25.42
34439	69.12	-9.23	17.16	78.88	65.92	14.79	31.09	19.34	11.25	84.78	71.48	15.23	33.77	33.63	25.99
34440	70.46	-9.85	17.16	118.36	87.06	15.78	24.12	29.40	10.56	131.80	91.24	15.72	36.07	40.94	25.38
34441	69.83	-9.77	17.16	93.89	72.99	15.29	25.70	23.89	11.06	103.57	76.48	15.34	32.56	36.51	25.70
34442	69.22	-9.68	17.16	73.76	60.39	15.03	25.91	19.93	11.88	79.45	63.30	15.22	28.54	32.75	26.31
34443	70.38	-10.41	17.16	97.56	72.28	15.77	16.70	27.13	10.89	109.32	73.77	15.66	28.58	37.27	25.26
34444	69.85	-10.27	17.16	81.51	63.12	15.44	19.51	23.48	11.67	90.26	64.23	15.36	26.13	34.58	25.64
34445	69.32	-10.13	17.16	67.26	53.80	15.24	21.37	20.59	12.71	72.89	54.29	15.26	23.53	31.97	26.47
34446	78.07	-9.50	17.16	41.04	13.29	21.28	51.40	345.06	25.98	57.33	34.74	52.49	51.44	343.79	68.42
34447	77.31	-9.50	17.16	103.66	40.89	31.95	5.86	363.29	70.10	109.27	40.69	71.44	11.36	364.58	111.70
34448	76.55	-9.49	17.16	28.04	41.97	33.29	27.76	395.25	112.19	46.86	52.40	83.51	28.24	397.41	156.96
34449	75.79	-9.47	17.16	65.07	65.33	53.34	27.91	416.28	165.06	78.94	76.47	95.98	29.72	421.42	205.06
34450	75.03	-9.46	17.16	114.54	102.31	90.24	17.48	436.15	237.58	127.99	114.83	130.01	24.94	444.51	276.63
34451	74.27	-9.44	17.16	617.79	153.84	33.57	158.07	278.73	199.04	641.51	173.89	58.48	191.91	281.69	228.72
34452	73.52	-9.41	17.16	442.32	285.05	22.75	73.62	159.24	102.07	468.52	311.57	29.51	104.95	162.92	122.34
34453	72.76	-9.38	17.16	324.32	194.73	23.47	47.00	93.59	38.19	348.68	210.73	24.29	76.16	98.31	53.74
34454	72.01	-9.35	17.16	243.58	149.56	20.32	34.34	63.97	16.82	266.34	160.06	20.30	56.73	71.76	31.05
34455	71.26	-9.31	17.16	183.79	123.19	17.34	35.26	44.56	12.53	203.62	131.37	17.32	51.26	55.38	26.63
34456	78.06	-10.50	17.16	15.93	27.89	42.70	90.08	519.49	37.56	33.48	44.37	110.13	89.76	517.15	116.54
34457	77.28	-10.49	17.16	23.44	51.55	48.63	87.74	517.49	85.72	40.32	65.41	114.72	87.37	516.41	146.42
34458	76.50	-10.46	17.16	61.16	81.60	69.42	83.44	518.83	148.01	73.12	95.58	130.55	83.24	519.58	198.73
34459	75.72	-10.42	17.16	401.84	184.60	43.99	99.06	419.93	189.46	408.93	220.79	103.48	106.43	420.50	234.38
34460	74.95	-10.37	17.16	289.72	467.21	83.02	260.70	328.11	213.39	300.43	524.58	123.23	260.16	330.75	259.95
34461	74.18	-10.31	17.16	521.06	346.75	27.42	70.04	177.71	111.01	540.11	384.52	53.05	101.93	177.21	146.38
34462	73.41	-10.23	17.16	362.65	206.73	24.68	32.49	113.33	24.94	383.48	222.94	27.89	60.56	114.59	49.16
34463	72.65	-10.15	17.16	257.60	161.93	21.38	5.83	71.71	15.93	278.27	172.94	22.13	48.87	75.04	35.00
34464	71.89	-10.05	17.16	194.70	125.56	18.83	13.08	50.58	11.54	213.96	132.54	18.88	42.74	56.89	28.02
34465	71.14	-9.94	17.16	150.90	103.53	16.87	19.72	37.82	10.51	167.69	108.54	16.78	38.67	47.20	25.81
34466	78.05	-11.50	17.16	24.09	119.72	41.93	499.65	354.55	49.15	43.73	218.22	98.05	497.96	352.37	139.40
34467	77.25	-11.48	17.16	50.80	212.91	51.10	491.88	347.45	88.59	64.91	290.30	105.66	490.23	345.91	165.13
34468	76.45	-11.43	17.16	133.94	338.00	69.00	469.93	324.16	123.66	144.06	405.87	119.39	468.43	323.06	193.65
34469	75.65	-11.37	17.16	443.01	311.30	29.68	280.59	217.							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
34497	77.16	-14.45	17.16	22.63	19.20	15.78	48.06	50.73	9.75	110.16	24.46	25.57	48.12	48.10	17.83
34498	76.31	-14.36	17.16	12.43	23.25	15.77	41.65	46.94	11.08	104.45	26.69	25.02	43.67	44.42	18.55
34499	75.46	-14.22	17.16	15.22	24.78	15.85	34.58	43.35	11.60	98.17	26.49	24.12	39.68	41.10	18.39
34500	74.62	-14.04	17.16	22.38	24.85	16.04	28.14	40.48	11.81	91.03	25.02	22.97	36.55	38.77	17.80
34501	73.79	-13.81	17.16	28.24	24.60	16.24	22.44	38.42	12.32	83.07	23.70	21.68	33.40	37.61	17.46
34502	72.98	-13.54	17.16	32.83	24.13	16.39	17.53	36.54	13.35	74.99	22.58	20.40	29.64	36.98	17.90
34503	72.19	-13.22	17.16	35.04	23.22	16.38	13.76	34.53	14.68	66.57	21.03	19.16	25.36	36.48	19.07
34504	71.41	-12.87	17.16	35.36	22.14	16.21	12.37	32.42	16.12	57.87	19.00	18.04	21.10	35.94	20.81
34505	70.66	-12.47	17.16	34.62	21.30	15.95	13.02	30.18	17.62	49.49	16.80	17.09	16.99	35.18	22.92
34506	67.06	-9.32	17.16	24.00	30.70	14.20	21.63	14.95	19.36	19.91	29.39	14.20	15.00	21.13	30.24
34507	67.55	-9.94	17.16	25.41	27.58	14.51	20.83	17.39	20.06	21.76	23.42	14.51	12.85	24.15	30.22
34508	68.08	-10.54	17.16	26.68	24.68	14.77	19.84	20.09	20.56	24.03	18.37	14.84	10.98	27.17	29.82
34509	67.75	-9.28	17.16	39.42	39.10	14.56	23.90	14.46	15.20	37.44	41.40	14.96	19.07	24.08	28.49
34510	68.10	-9.82	17.16	39.67	36.32	14.80	21.95	16.43	16.04	38.66	35.76	14.93	16.57	25.83	28.49
34511	68.47	-10.34	17.16	39.38	33.43	15.00	20.05	18.65	16.78	39.46	30.63	14.99	14.46	27.69	28.14
34512	68.43	-9.23	17.16	57.17	51.37	14.69	27.41	16.08	12.71	58.58	55.84	15.26	26.12	28.55	27.13
34513	68.64	-9.70	17.16	55.59	48.00	14.92	24.20	17.39	13.46	57.60	49.73	15.16	22.76	28.95	27.31
34514	68.87	-10.15	17.16	53.70	44.17	15.12	21.29	18.85	14.19	56.46	43.65	15.15	19.91	29.59	27.09
34515	69.95	-12.04	17.16	33.09	20.76	15.64	14.72	27.82	18.95	41.58	14.62	16.30	13.36	34.00	25.19
34516	70.11	-11.50	17.16	53.52	37.96	15.85	13.60	25.30	14.66	62.75	34.50	16.04	17.81	33.05	24.66
34517	70.26	-10.96	17.16	75.18	55.17	15.84	13.55	25.53	12.24	85.53	53.92	15.78	22.70	34.46	25.02
34518	69.29	-11.58	17.16	31.12	21.20	15.33	16.69	25.33	19.89	34.70	13.80	15.69	11.08	32.22	27.12
34519	69.52	-11.15	17.16	47.75	35.11	15.55	16.07	23.00	15.77	53.36	31.25	15.59	15.48	31.51	26.04
34520	69.74	-10.73	17.16	65.53	49.51	15.59	16.52	22.90	13.23	73.00	47.97	15.50	20.56	32.70	25.84
34521	68.66	-11.08	17.16	28.68	22.26	15.03	18.47	22.77	20.52	28.50	14.46	15.22	10.23	30.03	28.71
34522	68.95	-10.79	17.16	42.14	32.55	15.26	18.30	20.86	16.71	44.53	28.48	15.25	14.31	29.71	27.27
34523	69.23	-10.49	17.16	56.56	44.81	15.31	18.87	20.65	14.12	61.15	43.48	15.25	18.95	30.78	26.56
34524	70.20	-9.30	15.47	84.10	72.19	48.45	27.04	63.50	22.91	117.63	79.39	48.85	38.58	103.05	60.88
34525	69.46	-9.27	15.47	68.15	61.23	46.90	25.71	53.87	23.14	97.32	67.56	48.35	33.36	96.09	61.46
34526	68.72	-9.24	15.47	53.70	52.33	46.07	23.81	46.47	24.50	77.58	57.64	48.62	27.63	88.56	62.72
34527	70.10	-9.90	15.47	72.86	63.94	48.55	19.71	61.13	23.25	103.18	68.88	48.22	31.87	95.84	61.62
34528	69.46	-9.82	15.47	60.87	55.76	47.36	20.42	53.74	24.26	87.55	59.86	47.68	28.11	90.99	62.31
34529	68.82	-9.72	15.47	49.82	48.94	46.60	20.56	47.80	25.86	72.18	52.05	47.70	24.21	85.71	63.45
34530	70.02	-10.50	15.47	60.65	54.85	48.65	15.69	59.30	24.46	88.43	57.48	48.01	26.76	89.69	61.76
34531	69.47	-10.36	15.47	52.77	49.83	47.78	17.04	53.91	25.73	77.46	51.87	47.39	23.88	86.73	62.47
34532	68.92	-10.20	15.47	45.21	45.05	47.14	18.10	49.23	27.41	66.49	46.04	47.25	20.85	83.16	63.77
34533	78.05	-9.53	15.47	25.59	28.16	40.22	70.31	254.83	19.44	100.21	52.20	81.59	70.85	251.83	68.50
34534	77.26	-9.53	15.47	39.51	42.82	40.30	58.07	236.32	17.94	110.96	60.77	84.70	59.64	236.15	72.36
34535	76.46	-9.52	15.47	49.52	64.18	41.94	48.50	215.62	37.80	121.98	78.22	87.60	51.21	218.34	83.66
34536	75.67	-9.50	15.47	93.50	86.82	43.70	41.52	197.32	51.18	152.15	101.29	88.37	47.73	201.92	92.67
34537	74.88	-9.49	15.47	146.46	113.07	49.89	25.72	148.17	48.54	197.72	127.55	80.37	41.48	152.83	87.77
34538	74.09	-9.46	15.47	76.36	132.28	54.58	37.26	137.40	55.72	137.65	145.55	73.62	43.44	145.66	93.99
34539	73.30	-9.44	15.47	121.99	106.25	63.89	10.81	128.34	53.51	168.28	116.65	70.34	40.63	139.98	90.94
34540	72.52	-9.41	15.47	127.17	109.26	61.06	22.07	110.38	38.14	169.76	119.35	62.13	46.44	129.02	75.59
34541	71.74	-9.37	15.47	116.69	98.60	56.15	26.45	92.32	28.69	156.42	107.63	55.75	46.55	118.93	66.23
34542	70.95	-9.33	15.47	100.93	84.72	51.43	27.35	76.25	24.34	137.82	92.58	51.10	43.01	110.36	62.04
34543	78.04	-10.60	15.47	27.67	33.52	47.69	116.82	226.68	21.31	105.63	52.50	104.82	116.47	222.47	73.00
34544	77.22	-10.59	15.47	33.17	62.75	48.32	111.56	212.10	16.29	111.71	77.98	107.46	111.36	209.66	77.28
34545	76.40	-10.56	15.47	77.94	90.33	49.17	101.68	179.22	28.39	139.19	105.05	104.66	102.28	177.67	84.89
34546	75.59	-10.52	15.47	58.48	104.14	50.35	80.55	168.65	43.88	130.00	114.93	99.99	81.56	168.71	95.37
34547	74.78	-10.46	15.47	127.52	64.46	58.21	14.56	143.34	36.93	178.21	70.02	89.97	41.36	143.08	87.38
34548	73.98	-10.39	15.47	88.08	91.75	59.72	20.81	125.05	32.39	140.67	99.55	77.47	39.95	127.92	82.06
34549	73.18	-10.31	15.47	111.67	107.60	62.91	9.83	115.69	32.57	153.88	117.27	69.81	43.02	123.47	78.97
34550	72.38	-10.22	15.47	111.80	96.76	58.42	10.17	98.96	26.51	150.39	104.68	60.29	40.51	113.78	69.51
34551	71.60	-10.12	15.47	100.50	85.38	54.08	14.14	83.83	23.61	136.65	92.01	53.95	38.08	106.45	64.10
34552	70.82	-10.00	15.47	86.35	73.71	50.70	17.69	70.99	22.93	119.74	79.27	50.07	35.12	100.75	62.01
34553	78.03	-11.67	15.47	28.20	21.73	50.94	98.96	194.48	22.03	112.61	36.71	111.20	98.28	188.95	89.93
34554	77.19	-11.65	15.47	29.81	41.63	51.11	87.92	179.40	21.50	116.74	52.28	111.19	88.10	174.56	92.66
34555	76.35	-11.60	15.47	63.80	48.09	51.31	64.13	150.15	23.38	133.97	56.62	104.41	67.45	145.25	91.79
34556	75.51	-11.53	15.47	39.41	77.17	53.05	67.26	141.19	28.81	117.46	87.23	96.56	70.57	137.40	94.83
34557	74.69	-11.44	15.47	80.77	96.27	54.37	56.78	134.71	34.81	133.52	108.17	86.45	65.81	132.43	95.58
34558	73.87	-11.33	15.47	102.50	95.55	54.69	37.69	112.89	29.89	146.64	104.98	72.88	53.16	113.25	84.02
34559	73.06	-11.19	15.47	95.58	88.83	55.87	21.43	98.12	24.52	136.65	96.31	63.91	44.09	103.78	72.65
34560	72.25	-11.04	15.47	88.18	78.80	54.65	13.96	86.57	22.82	125.57	84.56	57.66	38.81	98.97	66.02
34561	71.46	-10.87	15.47	79.85	69.52	52.25	11.94	75.97	22.67	114.08	73.81	52.81	33.90	95.54	62.63
34562	70.68	-10.68	15.47	69.77	61.26	50.10	13.53	66.52	23.38	100.72	64.48	49.61	29.86	92.52	61.60
34563	78.02	-12.74	15.47	33.34	27.98	48.74	114.21	154.46	23.35	114.62	55.77	96.55	112.99	147.52	92.76
34564	77.15	-12.71	15.47	19.56	45.39	48.63	104.70	144.04	25.73	112.60	67.06	96.01	104.26	137.38	95.43
34565	76.29	-12.64	15.47	32.49	61.89	48.49	91.74	130.47	28.66	114.41	79.14	92.23	92.83	124.10	95.21
34566	75.44	-12.55	15.47	55.09	71.61	49.52	71.70	114.90	27.95	121.21	85.36	83.94	75.95	109.01	89.42
34567	74.60	-12.42	15.47	60.44	73.38	51.32	51.79	103.28	25.32	119.20	84.09	75.01	60.74	99.41	80.75
34568	73.76	-12.26	15.47	64.49	69.30	52.30	37.98	93.68	23.74						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
34595	67.62	-10.64	15.47	21.56	32.50	46.15	19.28	44.17	39.20	30.38	27.05	46.10	8.51	69.41	68.55
34596	67.29	-9.29	15.47	29.26	40.06	44.99	20.16	37.14	31.52	40.47	40.54	47.54	14.91	69.99	66.73
34597	67.65	-9.87	15.47	29.21	38.05	45.72	19.18	40.79	32.86	41.30	36.82	46.68	13.43	71.89	66.91
34598	68.03	-10.43	15.47	28.73	35.99	46.45	18.36	44.75	33.96	41.90	33.38	46.47	12.37	73.91	66.34
34599	68.00	-9.25	15.47	40.48	45.08	45.58	21.73	40.92	27.26	58.19	48.50	48.75	21.20	79.55	64.58
34600	68.22	-9.74	15.47	39.02	42.92	46.15	19.83	43.42	28.64	56.43	44.33	47.60	19.05	78.97	65.04
34601	68.44	-10.22	15.47	37.26	40.57	46.70	18.32	46.18	29.94	54.70	40.24	46.97	17.36	78.87	64.85
34602	69.56	-12.24	15.47	23.58	27.57	49.11	18.15	59.66	36.19	45.75	21.64	51.55	13.76	79.41	59.77
34603	69.72	-11.67	15.47	34.52	35.43	48.91	16.19	57.97	30.60	58.30	32.54	49.44	17.80	81.09	60.51
34604	69.89	-11.09	15.47	47.24	44.62	48.80	14.95	58.03	26.86	72.84	44.44	48.39	22.13	84.60	61.37
34605	68.87	-11.75	15.47	23.29	28.91	48.16	18.31	54.61	37.85	40.03	22.68	49.17	15.96	77.17	63.35
34606	69.11	-11.30	15.47	32.34	34.97	48.09	16.77	53.45	32.31	51.97	31.74	47.98	15.03	79.29	62.79
34607	69.35	-10.85	15.47	42.84	42.11	48.06	16.07	53.61	28.36	65.28	41.40	47.55	19.54	82.69	62.71
34608	68.21	-11.22	15.47	22.44	30.41	47.15	18.80	49.41	39.02	34.69	24.15	47.40	9.14	73.88	66.42
34609	68.52	-10.90	15.47	29.85	34.73	47.25	17.62	49.02	33.79	45.68	31.24	47.00	13.11	76.64	64.90
34610	68.82	-10.59	15.47	38.39	40.38	47.32	17.19	49.51	29.79	57.58	39.67	47.03	17.37	80.10	63.94
34611	69.86	-9.32	13.78	47.00	52.98	79.60	21.11	75.46	25.79	120.89	60.89	79.75	41.29	146.20	83.73
34612	69.09	-9.29	13.78	41.11	49.54	79.19	20.93	68.44	27.17	106.58	55.36	82.35	37.61	142.75	86.08
34613	68.33	-9.26	13.78	34.83	47.03	79.00	20.37	61.93	29.02	90.70	50.18	85.66	33.07	136.15	88.28
34614	69.75	-9.96	13.78	41.49	49.57	80.83	18.56	74.59	27.66	108.91	54.73	79.53	37.78	137.23	85.78
34615	69.08	-9.87	13.78	37.09	47.10	80.35	19.02	68.68	28.99	97.59	50.39	80.92	34.57	134.83	87.60
34616	68.42	-9.77	13.78	32.42	45.32	79.99	19.29	63.18	30.75	85.18	46.33	83.06	31.05	130.35	89.42
34617	69.65	-10.60	13.78	35.52	45.61	81.96	17.99	73.91	29.74	97.03	48.00	79.95	34.18	128.85	86.69
34618	69.08	-10.44	13.78	32.76	44.44	81.45	18.44	69.07	30.96	88.75	45.43	80.27	31.61	127.61	88.11
34619	68.52	-10.27	13.78	29.76	43.36	81.05	18.94	64.36	32.59	79.87	42.30	81.47	28.64	124.69	89.92
34620	78.04	-9.57	13.78	36.69	19.77	64.26	39.37	163.65	50.47	150.47	42.25	107.75	43.08	154.84	80.65
34621	77.21	-9.56	13.78	29.71	30.30	63.87	38.36	157.54	36.86	152.18	49.92	106.32	44.02	152.75	75.76
34622	76.38	-9.55	13.78	34.29	40.12	65.22	33.69	147.26	25.85	156.51	57.68	103.75	42.69	147.22	73.90
34623	75.56	-9.54	13.78	40.54	48.10	69.82	26.02	133.89	19.78	160.13	63.54	100.16	40.18	139.28	74.66
34624	74.73	-9.52	13.78	41.67	53.02	73.19	19.72	129.18	18.68	157.82	67.07	95.18	39.51	141.92	77.23
34625	73.91	-9.49	13.78	60.52	55.37	77.00	13.54	117.63	19.68	164.62	68.50	89.80	43.24	138.63	77.11
34626	73.09	-9.46	13.78	55.00	63.79	79.07	14.48	106.95	20.89	156.90	76.33	84.73	43.12	138.53	77.29
34627	72.27	-9.43	13.78	55.65	62.52	81.14	16.40	99.32	22.37	150.57	74.14	81.85	44.61	141.84	78.94
34628	71.46	-9.39	13.78	54.96	60.40	81.08	18.90	91.29	23.57	143.09	70.98	79.40	44.99	144.98	80.20
34629	70.65	-9.35	13.78	51.86	56.82	80.33	20.55	83.17	24.69	133.09	66.10	78.65	43.87	146.78	81.83
34630	78.02	-10.71	13.78	37.84	17.81	68.58	48.24	159.68	44.98	145.83	38.75	117.77	49.72	148.45	84.58
34631	77.16	-10.69	13.78	27.87	27.66	69.62	44.95	151.65	33.87	146.56	44.92	116.95	48.70	143.33	82.25
34632	76.31	-10.66	13.78	28.33	37.09	70.58	38.38	144.37	26.60	147.87	51.52	113.80	45.46	140.03	82.15
34633	75.46	-10.61	13.78	40.14	45.45	74.22	30.42	131.04	24.48	151.78	58.97	109.01	43.84	131.06	82.14
34634	74.62	-10.55	13.78	37.77	61.59	77.31	31.50	121.96	22.74	147.29	74.60	102.82	45.43	128.81	82.63
34635	73.78	-10.48	13.78	50.51	60.95	80.55	20.83	114.18	22.84	149.36	72.48	96.77	43.49	129.17	82.78
34636	72.95	-10.39	13.78	48.77	58.84	81.85	17.13	103.71	23.79	143.02	68.81	90.21	42.73	128.44	82.13
34637	72.12	-10.30	13.78	49.30	58.30	83.15	15.71	96.62	24.78	136.63	67.37	85.52	42.92	132.14	82.35
34638	71.30	-10.19	13.78	48.35	55.77	82.62	16.44	89.06	25.69	128.99	63.64	81.59	42.09	135.42	82.99
34639	70.49	-10.06	13.78	45.48	52.51	81.63	17.65	81.41	26.64	119.47	59.00	79.53	40.27	137.39	84.30
34640	78.01	-11.85	13.78	40.48	17.85	71.84	56.49	147.55	39.66	140.69	39.17	122.89	56.08	133.60	85.66
34641	77.12	-11.82	13.78	28.55	28.07	73.36	53.85	140.66	32.74	139.57	45.80	122.41	55.33	128.98	85.62
34642	76.25	-11.76	13.78	25.69	40.22	74.49	50.24	134.53	27.54	138.73	55.23	119.26	53.99	126.25	86.07
34643	75.38	-11.69	13.78	32.46	44.73	76.61	39.39	124.22	25.48	140.25	57.34	114.16	48.20	120.23	85.60
34644	74.51	-11.59	13.78	33.91	46.79	79.98	30.69	113.24	25.63	137.70	57.11	108.02	44.35	115.05	84.37
34645	73.66	-11.47	13.78	36.29	49.89	82.95	25.07	107.50	25.89	132.65	59.16	101.81	43.28	117.25	83.96
34646	72.81	-11.33	13.78	39.68	51.55	83.86	20.92	100.45	26.24	127.85	59.60	94.89	42.31	119.52	83.64
34647	71.98	-11.17	13.78	40.79	51.12	84.01	18.25	93.42	26.84	121.86	57.78	88.72	40.84	122.82	83.40
34648	71.15	-10.98	13.78	40.11	49.36	83.52	17.30	86.57	27.60	114.40	54.56	83.94	38.97	126.20	83.89
34649	70.34	-10.78	13.78	38.07	47.21	82.68	17.46	79.72	28.62	105.61	50.86	80.91	36.60	128.42	85.24
34650	78.00	-12.99	13.78	43.78	14.64	73.79	49.71	135.66	33.98	135.07	34.30	125.17	47.61	119.05	81.43
34651	77.09	-12.95	13.78	31.75	22.01	75.07	47.92	130.09	29.80	132.75	38.66	124.98	47.67	115.48	82.43
34652	76.19	-12.88	13.78	24.70	28.52	77.01	43.28	122.97	27.51	130.80	42.50	122.49	45.81	111.22	82.90
34653	75.30	-12.77	13.78	23.61	34.45	78.97	38.64	116.29	26.59	127.78	46.26	118.30	44.48	108.84	83.17
34654	74.41	-12.64	13.78	25.51	39.12	81.03	33.62	109.40	26.54	123.89	48.95	112.71	43.21	107.58	82.94
34655	73.54	-12.47	13.78	28.22	41.74	82.94	28.40	102.77	26.97	119.35	49.54	106.05	41.44	108.33	82.05
34656	72.68	-12.27	13.78	30.16	42.69	84.18	24.36	96.74	27.60	113.63	48.62	99.27	39.70	111.14	81.43
34657	71.84	-12.04	13.78	31.31	42.73	84.57	21.62	90.68	28.44	107.27	46.86	92.89	37.63	114.63	81.60
34658	71.01	-11.78	13.78	31.43	42.27	84.34	19.97	84.58	29.57	100.21	44.66	87.44	35.17	117.96	82.66
34659	70.20	-11.50	13.78	30.56	41.59	83.75	19.25	78.42	31.04	92.30	42.26	83.42	32.44	120.26	84.53
34660	77.98	-14.13	13.78	47.57	12.59	75.16	43.61	129.11	27.74	128.14	30.16	129.70	39.60	110.37	70.17
34661	77.06	-14.08	13.78	36.91	17.48	76.47	42.72	124.07	25.61	125.19	32.89	130.06	39.97	107.20	71.98
34662	76.14	-13.99	13.78	28.96	22.46	78.05	40.24	118.15	25.01	121.79	35.25	128.29	39.49	104.04	73.28
34663	75.22	-13.86	13.78	23.98	26.58	79.95	36.70	111.84	25.43	117.68	36.77	124.58	38.54	101.68	73.96
34664	74.32	-13.69	13.78	22.09	29.62	81.90	33.03	105.79	26.37	112.70	37.30	119.37	37.56	101.09	74.28
34665	73.43	-13.47	13.78	21.97	31.79	83.61	29.77	100.06	27.59	106.89	37.09	113.18	36.50	102.24	74.66
34666	72.56	-13.21	13.78	22.65	33.36	84.81	26.97								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
34693	68.71	-11.44	13.78	22.98	38.34	83.54	20.92	67.25	37.87	67.43	33.29	82.09	23.23	113.34	88.43
34694	68.96	-10.96	13.78	17.86	41.08	82.51	19.26	68.52	33.87	78.56	38.87	80.77	27.70	120.44	88.58
34695	67.77	-11.36	13.78	28.30	38.11	83.61	22.45	60.26	44.16	51.59	29.27	82.59	17.18	103.60	91.41
34696	68.09	-11.02	13.78	22.05	39.54	82.55	20.67	62.19	39.16	61.51	33.45	81.49	21.41	111.40	90.83
34697	68.41	-10.69	13.78	26.24	41.47	81.82	19.41	64.07	35.14	71.97	38.51	81.06	25.60	118.57	90.08
34698	69.52	-9.34	12.09	36.84	45.13	108.97	21.50	86.18	34.08	163.84	51.98	107.84	56.96	192.19	103.99
34699	68.72	-9.31	12.09	33.72	45.57	110.46	21.75	80.09	33.94	148.44	48.15	115.61	54.63	192.03	108.06
34700	67.93	-9.27	12.09	29.92	46.47	111.87	21.79	73.81	34.34	130.06	44.11	125.32	50.98	186.61	111.49
34701	69.40	-10.01	12.09	33.33	43.98	111.72	21.65	85.36	35.00	148.39	47.15	108.49	54.33	179.78	106.78
34702	68.71	-9.91	12.09	30.98	44.58	112.64	21.94	79.95	35.15	136.27	44.16	113.49	52.02	179.84	110.03
34703	68.02	-9.81	12.09	28.17	45.53	113.49	22.12	74.49	35.79	122.08	41.01	120.36	49.06	176.43	112.90
34704	69.29	-10.69	12.09	29.85	42.53	114.37	22.64	84.56	36.21	133.20	42.14	109.87	50.55	167.47	108.18
34705	68.70	-10.52	12.09	28.27	43.48	114.79	22.70	79.87	36.59	124.45	40.41	112.39	48.72	168.19	110.71
34706	68.11	-10.35	12.09	26.35	44.44	115.23	22.85	75.03	37.38	114.45	37.88	116.87	46.17	166.33	113.42
34707	78.02	-9.60	12.09	45.54	17.95	86.24	25.12	143.11	74.20	184.56	44.69	129.22	34.44	123.05	95.10
34708	77.16	-9.60	12.09	39.76	22.20	87.79	24.62	139.46	64.67	188.48	47.86	128.81	38.17	126.77	90.55
34709	76.30	-9.58	12.09	37.39	27.45	90.03	23.19	134.54	56.29	192.25	51.45	126.56	41.55	130.83	87.57
34710	75.44	-9.57	12.09	37.17	32.87	92.39	21.50	129.41	49.41	195.05	55.33	122.69	44.96	136.72	86.14
34711	74.58	-9.55	12.09	38.64	37.70	95.73	19.68	122.48	44.52	197.42	58.60	118.03	48.41	142.46	86.08
34712	73.73	-9.52	12.09	39.13	41.59	98.92	19.16	116.83	40.23	196.68	60.89	112.87	51.19	151.35	87.19
34713	72.88	-9.49	12.09	40.99	42.74	101.72	18.65	111.05	37.53	195.45	60.30	107.81	54.37	161.16	89.33
34714	72.03	-9.46	12.09	41.18	44.16	103.81	19.30	104.72	36.32	191.64	59.72	103.60	56.52	171.00	92.21
34715	71.18	-9.42	12.09	40.60	44.64	105.77	20.18	98.54	35.32	185.20	57.78	101.78	57.81	180.35	95.80
34716	70.34	-9.37	12.09	39.15	44.86	107.44	20.97	92.32	34.61	175.96	55.00	103.06	57.99	187.93	99.93
34717	78.00	-10.81	12.09	46.74	16.60	92.37	31.00	142.40	67.71	174.07	41.64	139.77	36.25	118.46	94.06
34718	77.11	-10.79	12.09	40.22	21.43	94.03	30.60	138.81	59.96	176.84	45.01	139.61	39.94	121.30	91.63
34719	76.22	-10.75	12.09	35.73	26.97	96.51	28.98	133.20	53.23	179.38	48.65	137.48	43.16	123.62	90.16
34720	75.33	-10.70	12.09	34.84	32.22	99.05	26.94	127.85	47.21	180.87	51.77	133.49	45.89	128.40	89.62
34721	74.45	-10.64	12.09	35.07	34.70	101.92	23.43	121.71	43.34	181.80	52.32	128.27	48.66	134.17	90.24
34722	73.58	-10.56	12.09	35.57	38.48	104.57	22.18	115.36	40.82	180.43	54.28	122.16	51.28	141.54	91.63
34723	72.72	-10.47	12.09	36.61	41.03	106.90	21.03	109.76	38.50	178.13	54.97	116.06	53.63	150.97	93.62
34724	71.86	-10.37	12.09	36.78	42.23	108.38	20.76	103.49	36.98	173.80	53.93	110.44	55.11	160.14	96.29
34725	71.01	-10.25	12.09	36.34	42.92	109.71	20.91	97.36	35.98	167.44	52.07	106.77	55.82	168.91	99.60
34726	70.17	-10.12	12.09	35.18	43.40	110.77	21.27	91.17	35.32	158.79	49.56	105.97	55.55	176.01	103.37
34727	77.99	-12.02	12.09	48.62	14.97	97.59	33.80	140.32	59.91	163.05	38.43	149.23	34.97	112.62	91.00
34728	77.06	-11.99	12.09	41.49	19.29	99.50	33.55	136.48	53.71	164.71	41.16	149.49	38.61	114.35	90.24
34729	76.15	-11.93	12.09	35.81	23.74	101.94	31.67	131.04	48.76	165.91	43.43	147.61	41.49	116.04	90.14
34730	75.24	-11.85	12.09	33.71	28.73	104.62	29.98	125.49	44.91	166.12	46.22	143.76	44.43	119.64	90.69
34731	74.34	-11.74	12.09	32.39	33.18	107.04	27.88	120.10	41.61	165.27	48.55	138.25	47.13	125.51	91.66
34732	73.45	-11.62	12.09	32.26	36.10	109.15	25.75	113.87	39.41	163.54	49.09	131.57	49.23	132.19	93.11
34733	72.57	-11.47	12.09	32.42	37.96	111.07	24.17	108.01	38.03	160.36	48.55	124.58	50.88	140.49	95.20
34734	71.70	-11.29	12.09	32.45	39.38	112.38	23.22	102.09	37.01	155.75	47.44	117.85	51.92	149.17	97.94
34735	70.85	-11.10	12.09	32.07	40.49	113.27	22.76	96.05	36.36	149.60	45.78	112.44	52.19	157.29	101.25
34736	70.01	-10.88	12.09	31.14	41.49	113.90	22.62	89.93	36.12	141.61	43.74	109.54	51.68	163.85	105.02
34737	77.97	-13.23	12.09	51.21	13.54	102.08	35.28	138.17	51.02	151.60	35.36	159.48	32.03	107.09	84.36
34738	77.02	-13.19	12.09	44.03	17.10	104.28	35.29	134.00	46.49	152.25	37.52	160.24	35.33	107.70	84.98
34739	76.08	-13.11	12.09	38.37	21.45	106.54	34.38	129.13	42.84	152.15	39.56	158.67	38.26	109.35	85.95
34740	75.15	-13.00	12.09	34.03	25.38	108.96	32.56	123.60	40.24	151.26	40.84	154.94	40.71	112.19	87.19
34741	74.23	-12.85	12.09	31.64	28.64	111.34	30.58	117.94	38.63	149.50	41.38	149.42	42.88	116.91	88.80
34742	73.32	-12.67	12.09	30.29	31.51	113.39	28.87	112.30	37.57	146.66	41.55	142.52	44.79	123.32	90.94
34743	72.43	-12.46	12.09	29.50	33.98	114.94	27.38	106.55	36.95	142.90	41.24	134.70	46.14	130.76	93.61
34744	71.55	-12.22	12.09	28.94	36.00	116.01	26.20	100.72	36.77	138.17	40.42	126.71	46.85	138.60	96.86
34745	70.69	-11.95	12.09	28.32	37.76	116.86	25.35	94.74	36.94	132.29	39.24	119.53	46.90	145.94	100.63
34746	69.85	-11.64	12.09	27.43	39.40	117.00	24.78	88.62	37.45	125.06	37.78	114.38	46.27	151.87	104.74
34747	77.96	-14.44	12.09	54.30	11.12	106.06	34.98	137.20	41.18	140.08	29.33	174.00	27.33	103.49	73.53
34748	76.99	-14.39	12.09	47.65	13.75	108.29	35.42	132.80	38.10	139.93	30.91	175.15	29.95	103.20	75.11
34749	76.03	-14.30	12.09	41.77	17.16	110.64	35.07	127.80	36.12	138.91	32.14	173.85	32.42	104.00	77.08
34750	75.07	-14.15	12.09	37.04	20.70	112.98	34.23	122.45	35.15	137.01	33.00	170.22	34.74	106.31	79.42
34751	74.13	-13.97	12.09	33.32	24.07	115.19	33.07	116.86	34.99	134.25	33.47	164.45	36.79	110.21	82.14
34752	73.21	-13.74	12.09	30.57	27.13	117.12	31.81	111.17	35.43	130.73	33.55	156.86	38.45	115.60	85.31
34753	72.30	-13.47	12.09	28.53	29.94	118.62	30.58	105.41	36.26	126.48	33.38	147.94	39.61	122.03	89.01
34754	71.41	-13.15	12.09	26.96	32.55	119.62	29.42	99.53	37.34	121.58	33.05	138.36	40.23	128.82	93.27
34755	70.54	-12.80	12.09	25.66	35.00	120.13	28.37	93.50	38.59	115.98	32.60	129.06	40.27	135.20	97.97
34756	69.70	-12.41	12.09	24.46	37.35	120.24	27.44	87.33	39.93	109.52	32.06	121.27	39.78	140.39	102.87
34757	77.95	-15.66	12.09	57.77	8.15	110.00	35.30	138.12	31.06	128.59	19.62	197.25	25.10	102.87	60.34
34758	76.96	-15.60	12.09	51.70	9.97	112.15	36.09	133.34	29.92	127.82	20.86	198.71	26.22	101.48	62.89
34759	75.98	-15.48	12.09	46.02	12.91	114.43	36.33	128.03	30.18	126.12	21.91	197.32	27.55	101.23	65.95
34760	75.01	-15.31	12.09	40.93	16.22	116.76	36.12	122.38	31.49	123.54	22.76	193.13	29.00	102.41	69.44
34761	74.05	-15.09	12.09	36.52	19.59	118.98	35.60	116.55	33.42	120.14	23.44	186.33	30.43	105.16	73.38
34762	73.10	-14.81	12.09	32.71	22.93	120.94	34.86	110.62	35.66	116.04	24.04	177.24	31.68	109.32	77.81
34763	72.18	-14.48	12.09	29.47	26.19	122.46	33.94	104.							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
34791	68.93	-10.78	10.41	36.08	43.32	146.84	28.36	95.84	48.31	189.05	36.73	138.29	76.38	208.11	129.83
34792	68.32	-10.60	10.41	34.30	45.40	148.33	28.31	90.97	47.45	180.27	34.89	144.00	75.93	212.63	133.99
34793	67.71	-10.42	10.41	32.06	47.57	149.91	28.27	85.90	46.92	168.85	32.43	154.07	74.24	213.82	138.18
34794	78.00	-9.64	10.41	51.59	19.29	108.32	21.75	147.45	97.19	213.83	48.33	155.46	37.53	110.35	111.10
34795	77.11	-9.63	10.41	48.91	21.04	110.22	22.26	144.72	89.87	221.91	50.49	155.64	43.25	118.72	107.07
34796	76.21	-9.62	10.41	47.14	23.69	112.57	22.41	141.24	82.97	229.58	52.58	153.96	48.92	128.61	103.99
34797	75.32	-9.60	10.41	46.39	26.64	115.45	22.35	136.99	76.70	236.74	54.28	150.59	54.53	139.95	102.11
34798	74.43	-9.58	10.41	46.44	29.59	118.47	22.39	132.48	71.09	242.88	55.49	145.69	60.02	153.29	101.54
34799	73.55	-9.55	10.41	46.73	32.32	121.66	22.53	127.38	66.44	248.08	56.01	139.74	65.47	167.91	102.42
34800	72.66	-9.52	10.41	47.11	34.99	124.88	23.07	121.99	62.41	251.50	55.96	133.41	70.46	183.75	104.62
34801	71.78	-9.48	10.41	47.27	37.22	128.11	23.74	116.42	58.73	252.85	54.81	127.79	75.05	200.22	108.09
34802	70.90	-9.44	10.41	46.91	39.36	131.27	24.52	110.59	55.49	251.36	52.76	124.43	78.94	216.40	112.76
34803	70.03	-9.39	10.41	45.82	41.50	134.54	25.28	104.57	52.48	246.01	49.77	125.66	81.87	231.16	118.45
34804	77.98	-10.92	10.41	52.68	17.81	116.85	25.80	148.37	89.41	199.01	44.84	168.09	36.56	106.58	107.14
34805	77.05	-10.89	10.41	48.95	19.63	119.04	26.27	145.20	83.01	205.74	46.67	168.66	42.58	113.33	104.61
34806	76.12	-10.85	10.41	46.46	22.43	121.47	26.30	141.41	77.04	211.94	48.36	167.08	48.43	121.88	102.97
34807	75.20	-10.80	10.41	44.61	25.56	124.20	26.00	136.87	71.81	217.53	49.75	163.55	54.19	132.00	102.45
34808	74.29	-10.73	10.41	43.97	28.95	127.01	25.85	131.94	67.10	222.21	50.87	158.26	59.68	144.01	102.99
34809	73.39	-10.65	10.41	43.57	31.76	129.79	25.60	126.70	62.92	225.90	50.96	151.64	64.95	157.64	104.68
34810	72.49	-10.55	10.41	43.50	34.32	132.42	25.65	121.05	59.42	228.10	50.31	144.27	69.75	172.26	107.59
34811	71.60	-10.44	10.41	43.30	36.71	134.99	25.88	115.27	56.28	228.51	48.95	137.23	74.02	187.52	111.61
34812	70.72	-10.32	10.41	42.75	38.99	137.43	26.25	109.24	53.46	226.44	46.85	132.02	77.51	202.41	116.63
34813	69.85	-10.18	10.41	41.64	41.32	139.93	26.67	103.06	50.93	221.16	44.14	130.91	80.00	215.94	122.46
34814	77.97	-12.20	10.41	54.41	16.25	125.12	29.28	148.61	80.11	183.70	41.29	181.80	33.56	102.32	101.29
34815	77.00	-12.16	10.41	50.08	18.01	127.48	29.78	145.11	74.78	188.95	42.79	182.75	39.55	107.52	100.22
34816	76.04	-12.10	10.41	46.74	20.88	129.99	29.88	141.00	69.90	193.59	44.13	181.37	45.38	114.61	99.94
34817	75.10	-12.01	10.41	43.98	24.05	132.56	29.54	136.30	65.55	197.55	44.95	177.76	50.98	123.55	100.53
34818	74.16	-11.90	10.41	42.31	27.16	135.14	29.09	131.10	61.89	200.74	45.19	172.14	56.32	134.21	102.15
34819	73.24	-11.76	10.41	41.17	30.19	137.57	28.70	125.68	58.71	202.91	44.98	164.87	61.34	146.57	104.77
34820	72.32	-11.60	10.41	40.36	33.07	139.72	28.44	119.91	55.90	203.94	44.20	156.45	65.88	159.96	108.38
34821	71.42	-11.42	10.41	39.64	35.75	141.68	28.32	113.91	53.48	203.47	42.79	147.86	69.81	173.83	112.99
34822	70.54	-11.21	10.41	38.77	38.32	143.48	28.31	107.72	51.38	201.00	40.83	140.58	72.99	187.36	118.46
34823	69.67	-10.98	10.41	37.55	40.92	145.24	28.34	101.38	49.61	195.88	38.52	136.77	75.30	199.60	124.58
34824	77.95	-13.48	10.41	56.82	14.40	132.99	32.00	148.72	69.15	168.38	36.79	197.94	28.66	98.49	92.97
34825	76.96	-13.43	10.41	52.24	15.99	135.44	32.63	144.92	64.82	172.19	37.96	199.30	34.21	102.16	93.12
34826	75.98	-13.35	10.41	48.13	18.65	137.99	32.79	140.49	61.13	175.33	38.78	198.13	39.64	107.71	94.09
34827	75.00	-13.23	10.41	44.80	21.83	140.50	32.65	135.57	58.06	177.73	39.25	194.46	44.92	115.28	95.90
34828	74.05	-13.07	10.41	42.07	25.16	142.84	32.31	130.25	55.52	179.37	39.30	188.45	49.95	124.68	98.57
34829	73.10	-12.88	10.41	39.92	28.40	144.92	31.84	124.57	53.50	180.23	38.83	180.36	54.61	135.59	102.16
34830	72.17	-12.66	10.41	38.21	31.49	146.72	31.40	118.62	51.92	180.14	37.90	170.73	58.83	147.55	106.68
34831	71.26	-12.40	10.41	36.75	34.49	148.20	30.99	112.43	50.66	178.89	36.61	160.37	62.50	159.93	112.06
34832	70.37	-12.11	10.41	35.35	37.44	149.44	30.63	106.05	49.67	176.15	35.03	150.68	65.49	172.02	118.14
34833	69.50	-11.79	10.41	33.84	40.37	150.54	30.29	99.53	48.93	171.38	33.22	143.80	67.66	182.91	124.62
34834	77.94	-14.76	10.41	59.81	12.23	140.34	34.50	149.17	56.39	153.48	30.51	218.63	23.43	95.92	82.25
34835	76.92	-14.70	10.41	55.15	13.60	142.89	35.27	144.98	53.20	156.00	31.48	220.41	27.76	97.90	83.54
34836	75.92	-14.60	10.41	50.75	16.19	145.44	35.65	140.22	50.89	157.79	32.13	219.34	32.27	101.90	85.70
34837	74.92	-14.45	10.41	46.73	19.38	147.87	35.68	134.99	49.40	158.84	32.39	215.40	36.79	107.93	88.72
34838	73.94	-14.25	10.41	43.18	22.79	150.09	35.46	129.38	48.59	159.18	32.30	208.71	41.19	115.84	92.60
34839	72.98	-14.01	10.41	40.08	26.26	151.98	35.06	123.46	48.30	158.80	31.91	199.49	45.37	125.27	97.34
34840	72.04	-13.72	10.41	37.37	29.70	153.48	34.53	117.27	48.37	157.68	31.29	188.19	49.22	135.69	102.90
34841	71.11	-13.39	10.41	34.98	33.08	154.58	33.90	110.86	48.66	155.73	30.48	175.59	52.65	146.52	109.19
34842	70.21	-13.01	10.41	32.84	36.41	155.34	33.21	104.27	49.05	152.77	29.56	163.01	55.57	157.10	115.99
34843	69.34	-12.60	10.41	30.84	39.70	155.82	32.46	97.57	49.48	148.43	28.58	152.56	57.83	166.65	122.95
34844	77.93	-16.04	10.41	63.20	9.96	147.12	37.16	150.06	42.59	139.41	21.58	246.02	21.72	94.95	70.99
34845	76.90	-15.98	10.41	58.60	11.04	149.73	38.08	145.38	41.06	140.85	22.46	248.18	23.58	95.15	73.49
34846	75.87	-15.86	10.41	54.02	13.57	152.28	38.65	140.19	40.82	141.53	23.16	247.01	26.06	97.44	76.87
34847	74.86	-15.68	10.41	49.59	16.85	154.69	38.89	134.57	41.60	141.48	23.67	242.44	28.98	101.85	81.08
34848	73.86	-15.44	10.41	45.38	20.46	156.82	38.83	128.59	43.07	140.73	24.00	234.55	32.15	108.17	86.08
34849	72.87	-15.14	10.41	41.43	24.19	158.58	38.51	122.33	44.92	139.31	24.19	223.56	35.39	116.03	91.83
34850	71.91	-14.79	10.41	37.78	27.95	159.90	37.93	115.84	46.89	137.28	24.29	209.90	38.56	124.89	98.30
34851	70.98	-14.38	10.41	34.43	31.67	160.74	37.12	109.16	48.77	134.63	24.33	194.35	41.57	134.16	105.35
34852	70.07	-13.92	10.41	31.41	35.35	161.10	36.10	102.35	50.44	131.35	24.35	178.20	44.36	143.20	112.76
34853	69.19	-13.41	10.41	28.71	38.96	161.07	34.92	95.46	51.78	127.46	24.38	163.59	46.84	151.36	120.16
34854	65.12	-9.40	10.41	19.34	58.89	153.31	26.37	61.58	48.57	96.30	32.76	219.44	58.48	167.15	141.10
34855	65.66	-10.19	10.41	20.45	55.73	155.60	27.80	65.82	50.72	101.87	29.76	195.04	56.43	166.33	141.45
34856	66.24	-10.95	10.41	21.25	52.53	157.54	29.28	70.65	52.33	104.74	27.31	173.56	53.60	165.11	140.54
34857	65.92	-9.35	10.41	25.35	55.29	151.73	26.57	70.65	45.28	133.11	31.14	209.13	68.30	206.98	142.71
34858	66.30	-10.03	10.41	25.11	53.17	153.33	27.71	73.15	47.39	130.28	29.74	187.28	65.96	196.50	142.88
34859	66.71	-10.69	10.41	25.02	50.93	154.95	28.81	76.09	49.10	127.99	28.44	169.40	62.87	187.45	141.33
34860	66.72	-9.29	10.41	31.04	51.95	148.78	26.69	78.58	44.41	166.38	33.41	190.63	76.07	233.23	140.54
34861	66.9														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{YZ}$ [kPa]	$\tau_{ZX}$ [kPa]	$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{YZ}$ [kPa]	$\tau_{ZX}$ [kPa]
34889	70.63	-9.46	8.72	60.41	39.12	156.61	29.90	124.52	77.65	336.40	50.06	147.52	106.30	244.01	128.66
34890	69.72	-9.41	8.72	60.66	42.31	161.16	31.21	117.97	73.35	341.96	46.27	145.92	114.02	268.18	135.65
34891	77.96	-11.02	8.72	57.49	20.83	142.23	26.26	112.90	110.70	220.80	47.31	199.84	42.22	98.46	122.22
34892	76.99	-10.99	8.72	55.67	21.45	144.30	27.08	160.01	105.14	231.68	48.61	200.87	49.77	108.01	119.52
34893	76.03	-10.95	8.72	54.30	22.97	146.81	27.76	156.36	99.83	242.64	49.60	199.76	57.52	119.64	117.63
34894	75.07	-10.89	8.72	53.61	25.14	149.60	28.37	152.04	94.81	253.59	50.17	196.47	65.45	133.38	116.71
34895	74.13	-10.82	8.72	53.34	27.67	152.59	28.94	147.11	90.13	264.46	50.16	191.08	73.56	149.12	117.00
34896	73.19	-10.73	8.72	53.55	30.45	155.67	29.60	141.62	85.77	275.05	49.55	183.79	81.77	166.71	118.62
34897	72.26	-10.63	8.72	53.96	33.36	158.82	30.35	135.69	81.65	285.07	48.20	175.05	90.05	186.01	121.71
34898	71.34	-10.52	8.72	54.44	36.38	162.01	31.22	129.35	77.72	294.00	46.09	165.75	98.27	206.69	126.39
34899	70.42	-10.39	8.72	54.75	39.56	165.35	32.17	122.75	73.92	301.09	43.24	157.69	106.25	228.40	132.68
34900	69.52	-10.24	8.72	54.65	42.95	168.94	33.13	115.99	70.20	305.20	39.86	154.10	113.68	250.51	140.53
34901	77.94	-12.37	8.72	59.10	19.25	154.28	29.86	163.32	100.31	202.13	43.25	217.39	37.87	94.10	114.67
34902	76.94	-12.33	8.72	56.48	19.89	156.52	30.69	160.05	95.47	210.99	44.16	218.78	45.48	101.83	113.16
34903	75.94	-12.26	8.72	54.21	21.55	159.01	31.32	156.06	90.96	219.72	44.68	217.74	53.26	111.89	112.54
34904	74.96	-12.17	8.72	52.49	23.94	161.63	31.82	151.42	86.80	228.32	44.76	214.22	61.17	124.17	112.97
34905	73.99	-12.05	8.72	51.21	26.77	164.27	32.25	146.19	82.96	236.71	44.31	208.28	69.19	138.50	114.56
34906	73.03	-11.90	8.72	50.37	29.83	166.85	32.67	140.43	79.43	244.80	43.25	200.10	77.28	154.60	117.47
34907	72.08	-11.74	8.72	49.84	33.03	169.35	33.13	134.22	76.15	252.35	41.58	190.10	85.36	172.23	121.79
34908	71.15	-11.54	8.72	49.49	36.36	171.78	33.65	127.65	73.06	258.98	39.36	179.17	93.34	191.06	127.58
34909	70.23	-11.33	8.72	49.13	39.81	174.22	34.22	120.81	70.10	264.07	36.73	169.01	101.03	210.67	134.81
34910	69.33	-11.08	8.72	48.57	43.43	176.80	34.78	113.85	67.26	266.68	34.09	162.76	108.27	230.46	143.36
34911	77.93	-13.72	8.72	61.48	17.31	166.41	33.30	163.63	87.75	183.83	38.29	238.23	31.12	90.18	105.08
34912	76.89	-13.67	8.72	58.26	17.97	168.78	34.13	159.97	83.73	190.64	38.90	240.03	38.29	95.86	104.78
34913	75.87	-13.58	8.72	55.26	19.78	171.24	34.76	155.63	80.20	197.16	39.11	239.05	45.63	104.14	105.47
34914	74.86	-13.45	8.72	52.56	22.40	173.66	35.19	150.65	77.13	203.41	38.84	235.22	53.11	114.79	107.24
34915	73.86	-13.29	8.72	50.25	25.50	175.96	35.48	145.11	74.48	209.36	38.07	228.57	60.68	127.52	110.21
34916	72.88	-13.09	8.72	48.31	28.87	178.06	35.69	139.08	72.18	214.95	36.83	219.25	68.31	141.98	114.43
34917	71.92	-12.85	8.72	46.68	32.41	179.93	35.85	132.61	70.13	220.07	35.16	207.66	75.93	157.82	119.96
34918	70.98	-12.58	8.72	45.32	36.06	181.59	35.99	125.79	68.27	224.46	33.18	194.64	83.45	174.64	126.79
34919	70.05	-12.27	8.72	44.12	39.81	183.14	36.13	118.72	66.53	227.67	31.15	181.84	90.72	192.03	134.81
34920	69.15	-11.93	8.72	42.94	43.70	184.71	36.23	111.53	64.83	228.97	29.55	172.30	97.51	209.41	143.79
34921	77.92	-15.07	8.72	64.51	15.06	178.34	36.68	163.94	72.75	166.56	31.86	263.53	23.32	87.18	93.81
34922	76.86	-15.01	8.72	60.91	15.72	180.80	37.54	159.84	69.74	171.49	32.35	265.77	29.27	90.62	94.76
34923	75.81	-14.90	8.72	57.34	17.70	183.20	38.17	155.10	67.51	176.01	32.46	264.79	35.57	96.90	96.82
34924	74.77	-14.74	8.72	53.89	20.59	185.44	38.58	149.77	65.96	180.14	32.18	260.49	42.13	105.78	100.01
34925	73.76	-14.53	8.72	50.64	24.00	187.40	38.77	143.90	64.98	183.87	31.49	252.85	48.86	116.84	104.37
34926	72.75	-14.28	8.72	47.63	27.70	189.04	38.79	137.56	64.41	187.20	30.45	242.01	55.71	129.63	109.90
34927	71.77	-13.97	8.72	44.90	31.55	190.33	38.66	130.82	64.11	190.08	29.13	228.35	62.63	143.69	116.58
34928	70.82	-13.62	8.72	42.45	35.51	191.29	38.41	123.76	63.92	192.39	27.73	212.68	69.54	158.56	124.34
34929	69.89	-13.23	8.72	40.28	39.54	192.01	38.06	116.49	63.72	193.93	26.57	196.61	76.31	173.79	132.98
34930	68.98	-12.79	8.72	38.34	43.65	192.60	37.61	109.12	63.41	194.17	26.17	183.12	82.70	188.89	142.17
34931	77.91	-16.43	8.72	68.02	12.83	189.69	40.18	164.24	55.85	150.81	23.86	294.38	19.30	85.38	82.77
34932	76.83	-16.36	8.72	64.19	13.47	192.19	41.08	159.65	54.28	154.17	24.36	297.07	22.20	86.44	85.08
34933	75.76	-16.23	8.72	60.22	15.65	194.51	41.74	154.45	53.91	157.04	24.64	295.99	26.09	90.57	88.52
34934	74.71	-16.04	8.72	56.19	18.82	196.56	42.13	148.71	54.52	159.43	24.68	290.97	30.72	97.56	93.04
34935	73.67	-15.79	8.72	52.19	22.53	198.25	42.26	142.48	55.82	161.32	24.47	281.98	35.87	106.95	98.62
34936	72.65	-15.47	8.72	48.29	26.52	199.51	42.12	135.82	57.50	162.74	24.03	269.14	41.41	118.15	105.23
34937	71.65	-15.10	8.72	44.56	30.65	200.31	41.72	128.81	59.29	163.68	23.44	252.83	47.23	130.57	112.78
34938	70.67	-14.67	8.72	41.07	34.84	200.67	41.08	121.53	60.97	164.12	22.88	233.84	53.26	143.68	121.16
34939	69.73	-14.19	8.72	37.89	39.08	200.66	40.23	114.10	62.39	164.01	22.63	213.78	59.44	156.98	130.13
34940	68.82	-13.65	8.72	35.06	43.35	200.41	39.21	106.61	63.41	163.42	23.17	195.65	65.60	169.98	139.32
34941	64.64	-9.42	8.72	27.82	70.65	195.74	32.96	72.46	56.04	155.40	71.70	327.37	102.82	224.87	171.54
34942	65.18	-10.25	8.72	26.77	65.63	197.20	33.31	76.30	59.42	148.28	55.87	280.56	94.39	215.73	169.79
34943	65.78	-11.05	8.72	28.20	60.96	198.40	34.50	80.92	61.94	154.38	44.35	237.98	88.99	209.85	167.27
34944	65.47	-9.37	8.72	35.81	63.99	191.94	34.09	82.98	55.50	207.79	48.66	300.29	117.21	283.97	174.75
34945	65.85	-10.08	8.72	35.26	61.48	192.82	34.66	84.67	57.95	202.34	44.60	259.73	111.20	262.21	174.32
34946	66.27	-10.78	8.72	34.16	58.41	193.74	35.11	86.90	60.07	192.67	39.19	224.52	103.56	240.32	170.34
34947	66.30	-9.31	8.72	46.06	58.60	185.56	34.60	91.68	57.45	269.85	37.43	256.83	125.72	318.18	170.87
34948	66.52	-9.92	8.72	43.04	57.35	187.06	35.14	91.71	58.64	249.39	36.50	230.91	121.20	288.89	171.65
34949	66.75	-10.52	8.72	40.20	55.85	188.73	35.54	92.49	59.87	229.33	35.16	209.44	114.65	263.04	169.26
34950	67.98	-13.07	8.72	32.71	47.57	199.96	38.09	99.45	64.00	161.67	25.27	184.55	71.39	182.20	148.35
34951	68.18	-12.33	8.72	36.76	47.51	193.04	37.09	102.46	63.03	193.14	27.29	177.06	88.30	202.56	151.02
34952	68.39	-11.61	8.72	41.80	47.19	186.14	36.22	105.32	63.43	228.04	29.22	170.30	102.57	223.89	152.12
34953	67.19	-12.45	8.72	30.80	51.87	199.39	36.95	92.78	63.98	159.30	29.25	185.93	77.11	193.03	156.34
34954	67.48	-11.87	8.72	35.53	51.16	193.38	36.54	96.60	62.40	192.24	29.97	181.07	93.35	214.67	158.64
34955	67.78	-11.30	8.72	40.82	50.26	187.44	36.08	100.21	62.24	226.76	30.36	176.02	106.28	235.55	159.01
34956	66.45	-11.78	8.72	29.19	56.36	198.90	35.78	86.51	63.44	156.07	35.68	203.75	82.70	202.47	162.71
34957	66.81	-11.38	8.72	34.30	55.02	193.90	35.89	91.05	61.55	189.70	34.36	197.39	98.09	225.60	165.18
34958	67.18	-10.98	8.72	39.57	53.35	188.88	35.77	95.28	61.03	222.80	32.32	190.29	109.43	245.76	164.89
34959	68.50	-9.39	7.03	83.84	49.5										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
34987	69.20	-10.31	7.03	71.53	46.82	197.64	40.71	129.05	91.72	407.78	37.92	176.43	155.56	266.73	154.78
34988	77.92	-12.54	7.03	62.83	23.81	184.61	32.08	180.89	120.41	215.49	44.68	253.49	43.46	85.21	129.74
34989	76.88	-12.50	7.03	61.12	23.97	186.63	33.06	177.69	116.05	227.61	45.22	255.24	52.43	93.84	127.82
34990	75.84	-12.43	7.03	59.72	25.04	189.03	34.00	173.64	111.95	240.36	45.30	254.45	61.94	105.14	126.73
34991	74.82	-12.33	7.03	58.70	26.91	191.68	34.92	168.79	108.11	253.82	44.84	251.00	72.05	118.84	126.64
34992	73.81	-12.20	7.03	58.12	29.42	194.45	35.85	163.17	104.49	268.05	43.78	244.83	82.83	134.74	127.74
34993	72.82	-12.05	7.03	58.01	32.42	197.25	36.85	156.87	101.05	283.11	42.10	235.98	94.37	152.71	130.24
34994	71.84	-11.87	7.03	58.37	35.82	200.03	37.95	149.95	97.73	298.99	39.83	224.68	106.75	172.71	134.35
34995	70.87	-11.67	7.03	59.18	39.58	202.80	39.22	142.51	94.46	315.62	37.20	211.60	120.07	194.80	140.29
34996	69.92	-11.44	7.03	60.40	43.71	205.61	40.69	134.69	91.14	332.77	34.79	198.27	134.41	219.14	148.28
34997	68.99	-11.19	7.03	61.94	48.27	208.60	42.39	126.68	87.72	349.95	33.95	188.05	149.98	246.02	158.54
34998	77.91	-13.97	7.03	65.33	21.93	202.05	36.01	180.69	106.89	195.30	39.82	278.75	35.35	80.88	119.30
34999	76.83	-13.91	7.03	62.85	22.14	204.14	36.94	177.11	103.25	204.69	40.01	280.86	43.84	87.34	118.54
35000	75.76	-13.81	7.03	60.48	23.42	206.41	37.78	172.71	100.04	214.37	39.73	279.99	52.82	96.90	118.79
35001	74.71	-13.68	7.03	58.31	25.62	208.70	38.52	167.53	97.23	224.41	38.92	275.99	62.35	109.16	120.16
35002	73.68	-13.50	7.03	56.42	28.50	210.93	39.20	161.63	94.73	234.85	37.56	268.77	72.48	123.71	122.79
35003	72.66	-13.29	7.03	54.88	31.91	212.99	39.85	155.08	92.49	245.76	35.71	258.40	83.29	140.23	126.85
35004	71.66	-13.04	7.03	53.73	35.71	214.87	40.52	147.94	90.40	257.13	33.56	245.12	94.86	158.51	132.46
35005	70.69	-12.76	7.03	53.02	39.85	216.57	41.25	140.32	88.36	268.93	31.55	229.66	107.26	178.47	139.75
35006	69.73	-12.43	7.03	52.75	44.34	218.19	42.11	132.36	86.28	280.96	30.68	213.65	120.56	200.12	148.82
35007	68.80	-12.08	7.03	52.89	49.26	219.86	43.14	124.21	84.02	292.77	32.66	200.55	134.82	223.56	159.74
35008	77.90	-15.39	7.03	68.61	19.37	220.02	39.89	180.42	90.29	176.78	33.66	308.67	25.25	77.26	107.25
35009	76.79	-15.32	7.03	65.56	19.67	222.13	40.78	176.41	87.57	183.67	33.73	311.22	32.56	81.14	107.80
35010	75.70	-15.21	7.03	62.44	21.24	224.19	41.51	171.63	85.57	190.59	33.38	310.24	40.41	88.66	109.52
35011	74.63	-15.04	7.03	59.33	23.83	226.07	42.08	166.11	84.20	197.55	32.58	305.53	48.79	99.29	112.47
35012	73.57	-14.82	7.03	56.31	27.15	227.68	42.50	159.91	83.32	204.60	31.34	297.01	57.75	112.44	116.73
35013	72.53	-14.54	7.03	53.47	30.97	228.96	42.78	153.10	82.79	211.75	29.77	284.71	67.33	127.56	122.34
35014	71.51	-14.22	7.03	50.90	35.15	229.88	42.96	145.76	82.43	219.05	28.14	268.94	77.58	144.25	129.35
35015	70.52	-13.85	7.03	48.68	39.61	230.49	43.08	137.99	82.11	226.48	27.04	250.45	88.58	162.24	137.78
35016	69.56	-13.44	7.03	46.89	44.37	230.87	43.20	129.92	81.66	234.04	27.59	230.95	100.33	181.39	147.59
35017	68.62	-12.98	7.03	45.59	49.46	231.18	43.37	121.71	80.95	241.36	31.30	214.02	112.76	201.69	158.65
35018	77.89	-16.81	7.03	72.48	16.45	237.71	43.78	179.98	70.67	160.50	26.35	343.44	17.84	74.64	95.37
35019	76.77	-16.74	7.03	69.03	16.91	239.77	44.63	175.49	69.20	165.35	26.48	346.48	22.08	75.58	97.37
35020	75.66	-16.61	7.03	65.36	18.87	241.57	45.29	170.28	68.92	170.02	26.36	345.35	27.50	80.70	100.63
35021	74.56	-16.40	7.03	61.54	21.94	243.00	45.72	164.39	69.60	174.49	25.95	339.81	33.84	89.55	105.13
35022	73.48	-16.14	7.03	57.65	25.71	243.99	45.91	157.89	70.95	178.77	25.24	329.73	40.95	101.33	110.87
35023	72.42	-15.81	7.03	53.77	29.92	244.49	45.86	150.84	72.69	182.87	24.31	315.15	48.78	115.23	117.84
35024	71.38	-15.42	7.03	50.02	34.40	244.51	45.57	143.33	74.55	186.79	23.40	296.38	57.31	130.63	125.98
35025	70.37	-14.96	7.03	46.49	39.10	244.07	45.09	135.46	76.30	190.57	23.05	274.21	66.59	147.07	135.22
35026	69.40	-14.45	7.03	43.33	43.99	243.30	44.45	127.37	77.75	194.25	24.26	250.42	76.64	164.26	145.42
35027	68.46	-13.89	7.03	40.65	49.13	242.34	43.74	119.20	78.73	198.22	28.25	228.70	87.42	182.01	156.31
35028	64.15	-9.44	7.03	38.33	91.46	246.25	44.72	86.94	65.09	226.39	147.82	508.46	177.42	322.01	214.79
35029	64.71	-10.32	7.03	44.80	83.80	243.28	45.95	89.26	71.83	263.79	123.18	406.57	174.20	302.48	206.77
35030	65.32	-11.15	7.03	38.54	74.86	240.73	43.37	92.04	75.84	224.21	90.47	313.50	144.58	263.92	198.05
35031	65.01	-9.38	7.03	69.01	79.86	235.30	49.71	100.65	68.25	415.25	101.02	422.67	211.12	436.74	220.59
35032	65.40	-10.14	7.03	59.57	74.80	232.38	48.38	97.38	71.64	355.31	86.46	336.93	196.29	356.11	215.25
35033	65.83	-10.87	7.03	50.49	70.38	232.56	46.41	97.94	74.76	297.87	76.29	279.18	174.04	298.79	203.63
35034	65.87	-9.32	7.03	82.72	68.71	219.82	48.88	106.08	73.84	494.10	60.53	308.60	210.78	433.07	205.11
35035	66.09	-9.97	7.03	71.04	67.53	221.93	48.74	103.90	74.73	422.14	62.05	274.69	203.57	371.91	205.82
35036	66.33	-10.60	7.03	60.43	65.87	224.47	47.58	103.65	76.08	356.52	61.62	247.54	188.08	321.37	199.74
35037	67.58	-13.27	7.03	38.66	54.55	241.33	43.08	111.38	79.18	201.63	36.67	216.11	98.68	200.25	167.50
35038	67.80	-12.50	7.03	44.93	54.55	231.38	43.62	114.30	80.05	248.16	39.14	206.20	125.26	221.89	169.95
35039	68.02	-11.74	7.03	53.29	53.89	221.42	44.12	117.20	81.93	302.64	38.26	196.35	147.57	245.31	170.63
35040	66.77	-12.62	7.03	37.39	60.36	240.44	42.64	104.14	78.91	205.46	48.47	221.26	111.04	219.03	178.54
35041	67.08	-12.01	7.03	45.06	59.56	231.63	44.10	107.85	78.82	256.79	49.13	212.13	138.35	242.26	180.97
35042	67.38	-11.42	7.03	54.14	58.06	222.93	45.06	111.54	80.00	313.06	45.69	202.60	159.22	265.37	180.77
35043	66.00	-11.92	7.03	36.88	67.04	240.18	42.55	97.53	77.95	210.08	66.01	252.62	124.92	239.66	188.74
35044	66.39	-11.50	7.03	45.75	65.18	232.41	44.94	101.93	77.13	266.14	62.81	236.96	153.78	264.92	192.04
35045	66.76	-11.08	7.03	55.25	62.30	224.83	46.14	106.28	77.87	323.34	53.29	221.83	172.24	287.20	191.04
35046	68.17	-9.41	5.34	112.69	54.05	219.57	49.81	135.46	114.62	644.29	43.00	181.27	218.37	296.62	166.30
35047	67.25	-9.37	5.34	125.30	60.31	226.27	55.87	126.50	109.28	717.86	44.60	187.83	251.93	343.17	178.84
35048	66.34	-9.33	5.34	140.88	68.18	234.19	63.77	118.87	103.12	807.00	55.27	220.36	294.29	403.80	197.07
35049	68.00	-10.23	5.34	97.73	57.31	231.63	53.51	133.63	111.08	560.55	42.82	193.89	228.13	281.09	173.20
35050	67.20	-10.11	5.34	106.36	63.34	236.72	58.86	125.66	106.78	611.62	51.15	200.09	259.03	317.28	185.96
35051	66.41	-9.99	5.34	116.55	71.07	242.61	65.84	118.50	101.83	669.42	69.17	226.35	298.21	362.28	203.12
35052	67.84	-11.05	5.34	81.02	60.46	244.47	54.80	131.99	107.74	466.43	49.64	207.51	221.76	281.73	178.17
35053	67.17	-10.85	5.34	86.46	65.79	247.49	58.96	125.11	104.70	500.30	60.60	211.70	248.39	289.01	189.52
35054	66.50	-10.64	5.34	93.39	73.16	251.23	63.88	118.47	101.08	541.03	82.61	231.10	276.98	321.41	204.16
35055	77.95	-9.74	5.34	62.54	29.55	175.25	25.37	201.82	160.50	264.06	50.88	243.40	54.70	84.07	162.82
35056	76.95	-9.73	5.34	63.62	29.52	176.94	26.50	199.29	155.73	284.80	52.39	244.89	63.84	94.44	158.88

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
35085	77.89	-14.21	5.34	68.32	28.31	239.26	39.09	198.64	126.49	200.02	42.34	318.11	39.37	70.82	134.95
35086	76.76	-14.15	5.34	66.19	28.30	241.04	40.09	195.15	123.29	211.22	42.24	320.35	48.80	76.80	133.82
35087	75.66	-14.05	5.34	64.14	29.23	243.13	41.05	190.70	120.51	223.33	41.66	319.48	59.03	86.26	133.58
35088	74.57	-13.90	5.34	62.26	31.05	245.37	41.99	185.33	118.10	236.48	40.55	315.27	70.22	98.60	134.37
35089	73.50	-13.72	5.34	60.68	33.67	247.63	42.92	179.09	115.99	250.83	38.94	307.58	82.53	113.30	136.31
35090	72.44	-13.50	5.34	59.50	36.98	249.79	43.90	172.05	114.10	266.58	36.98	296.39	96.22	130.01	139.58
35091	71.41	-13.24	5.34	58.87	40.92	251.78	45.02	164.29	112.32	283.96	35.13	281.84	111.59	148.60	144.36
35092	70.40	-12.93	5.34	58.93	45.47	253.58	46.39	155.90	110.53	303.29	34.49	264.51	129.03	169.09	150.85
35093	69.41	-12.60	5.34	59.88	50.70	255.21	48.18	147.01	108.63	324.92	37.02	245.86	149.11	191.79	159.30
35094	68.45	-12.22	5.34	61.91	56.87	256.76	50.63	137.78	106.46	349.26	45.51	229.22	172.68	217.30	170.07
35095	77.87	-15.70	5.34	72.13	25.33	264.96	43.53	197.77	109.19	181.76	36.78	353.71	27.79	66.74	122.48
35096	76.73	-15.63	5.34	69.33	25.45	266.65	44.43	193.88	106.81	189.95	36.52	356.39	36.03	70.01	122.66
35097	75.59	-15.51	5.34	66.40	26.70	268.32	45.20	189.07	105.13	198.58	35.86	355.30	44.99	77.72	123.94
35098	74.48	-15.33	5.34	63.42	28.98	269.85	45.84	183.40	104.06	207.74	34.76	350.16	54.78	89.08	126.41
35099	73.38	-15.10	5.34	60.51	32.11	271.12	46.36	176.91	103.45	217.49	33.28	340.82	65.53	103.20	130.15
35100	72.30	-14.81	5.34	57.75	35.92	272.05	46.81	169.69	103.16	227.92	31.67	327.26	77.40	119.44	135.23
35101	71.25	-14.48	5.34	55.29	40.31	272.62	47.22	161.81	103.02	239.17	30.53	309.69	90.63	137.37	141.76
35102	70.22	-14.09	5.34	53.29	45.24	272.81	47.70	153.38	102.90	251.43	31.08	288.82	105.50	156.84	149.82
35103	69.23	-13.65	5.34	51.94	50.76	272.71	48.37	144.53	102.61	265.01	35.24	266.34	122.32	177.87	159.51
35104	68.26	-13.17	5.34	51.45	57.05	272.41	49.41	135.43	102.01	280.00	44.91	246.05	141.48	200.82	170.94
35105	77.87	-17.20	5.34	76.58	21.28	291.19	47.70	196.69	87.26	166.40	29.83	393.91	17.39	63.60	109.19
35106	76.70	-17.12	5.34	73.30	21.61	292.69	48.51	192.34	85.98	172.17	29.66	397.10	22.90	63.40	110.83
35107	75.55	-16.98	5.34	69.74	23.35	293.82	49.14	187.15	85.88	178.05	29.24	395.77	29.57	68.73	113.76
35108	74.41	-16.77	5.34	65.96	26.25	294.49	49.54	181.15	86.72	184.03	28.53	389.59	37.23	78.83	118.00
35109	73.29	-16.49	5.34	62.05	29.98	294.63	49.73	174.42	88.26	190.14	27.55	378.39	45.86	92.40	123.54
35110	72.19	-16.14	5.34	58.11	34.30	294.21	49.69	167.02	90.22	196.38	26.51	362.14	55.49	108.35	130.41
35111	71.11	-15.73	5.34	54.26	39.07	293.22	49.46	159.06	92.32	202.80	25.92	341.11	66.23	125.94	138.60
35112	70.07	-15.25	5.34	50.64	44.23	291.71	49.09	150.63	94.36	209.48	26.81	316.07	78.25	144.77	148.08
35113	69.06	-14.72	5.34	47.44	49.81	289.77	48.68	141.89	96.12	216.65	30.72	288.90	91.77	164.67	158.82
35114	68.09	-14.12	5.34	44.89	55.98	287.59	48.37	132.99	97.43	225.10	39.21	263.72	107.02	185.66	170.74
35115	63.67	-9.47	5.34	170.60	160.66	311.21	120.63	125.62	77.60	969.18	435.33	835.46	568.32	682.67	308.15
35116	64.23	-10.38	5.34	69.50	120.23	284.67	73.38	99.55	89.60	402.49	256.84	515.35	306.91	380.59	258.61
35117	64.85	-11.25	5.34	51.05	96.76	281.95	56.88	102.76	94.92	303.55	162.05	379.88	212.60	302.90	232.08
35118	64.56	-9.40	5.34	173.23	100.51	263.93	91.09	115.99	86.07	992.42	155.50	449.65	432.18	581.53	267.36
35119	64.95	-10.19	5.34	110.38	98.92	266.96	81.34	106.93	90.66	632.78	173.07	379.73	370.36	416.68	252.62
35120	65.38	-10.96	5.34	71.73	90.06	269.71	65.88	107.74	95.14	420.06	143.35	316.91	275.81	327.68	228.82
35121	65.44	-9.34	5.34	158.05	80.33	245.65	74.84	114.28	95.46	905.19	85.68	297.50	350.77	481.19	225.83
35122	65.67	-10.01	5.34	121.40	81.84	252.29	73.99	112.28	96.10	697.02	104.01	283.09	339.10	401.03	226.52
35123	65.91	-10.67	5.34	90.13	81.29	258.39	68.04	113.04	97.71	522.35	110.84	267.08	297.20	338.49	217.48
35124	67.19	-13.48	5.34	43.28	62.95	285.29	48.39	124.39	98.20	234.12	54.42	248.82	124.13	208.03	183.41
35125	67.41	-12.67	5.34	52.07	63.83	271.88	50.95	127.10	101.18	296.11	60.93	235.48	162.55	224.61	183.04
35126	67.65	-11.87	5.34	64.71	63.07	258.05	53.42	129.71	104.33	373.29	59.29	221.51	196.29	242.20	181.38
35127	66.35	-12.79	5.34	42.90	71.03	283.11	49.16	116.32	98.21	245.54	75.47	255.24	144.45	232.62	197.27
35128	66.67	-12.16	5.34	54.22	71.05	271.26	53.41	119.72	99.94	316.95	80.77	240.60	187.21	249.94	195.95
35129	66.99	-11.53	5.34	68.72	69.06	259.15	56.67	123.08	102.24	400.98	75.50	225.21	220.83	266.44	192.83
35130	65.56	-12.06	5.34	43.85	81.39	281.69	51.33	108.85	97.40	259.72	107.17	295.26	170.91	262.73	212.36
35131	65.96	-11.61	5.34	58.21	80.08	271.20	57.59	112.82	98.04	344.17	109.00	269.09	220.36	280.75	210.64
35132	66.35	-11.18	5.34	74.30	75.49	260.53	61.39	116.79	99.82	434.47	92.48	243.86	253.48	295.62	205.86
35133	86.37	-9.28	17.16	222.93	61.42	14.45	47.02	48.63	25.20	250.67	54.39	14.43	47.79	50.25	24.40
35134	87.07	-9.26	17.16	179.30	46.82	13.90	49.87	40.61	24.68	203.20	36.30	13.85	50.43	42.72	23.93
35135	87.78	-9.23	17.16	143.59	36.93	13.80	50.51	35.76	25.24	162.82	21.40	13.78	50.75	38.28	24.68
35136	86.44	-9.85	17.16	199.92	49.62	14.43	38.28	46.40	21.94	223.61	41.34	14.32	39.57	47.53	21.11
35137	87.07	-9.77	17.16	167.18	39.92	14.10	43.60	40.82	23.07	187.88	28.36	14.00	44.52	42.47	22.34
35138	87.68	-9.68	17.16	138.93	33.19	14.04	46.82	37.00	24.54	156.09	16.99	14.00	47.36	39.10	24.01
35139	86.52	-10.41	17.16	176.22	38.66	14.49	33.65	44.60	20.29	196.35	29.00	14.38	35.72	45.39	19.47
35140	87.05	-10.27	17.16	153.45	33.20	14.32	39.29	41.03	22.16	171.32	20.47	14.22	40.74	42.33	21.49
35141	87.58	-10.13	17.16	132.19	29.27	14.27	43.70	38.34	24.13	147.43	12.48	14.21	44.60	40.12	23.67
35142	78.83	-9.50	17.16	16.26	6.54	24.53	52.24	349.81	30.13	44.12	32.78	52.87	53.16	347.74	66.58
35143	79.59	-9.50	17.16	78.28	28.04	36.63	7.81	377.60	73.00	86.85	27.90	69.18	22.35	376.32	103.56
35144	80.35	-9.49	17.16	58.57	23.32	34.17	30.01	421.65	114.36	71.79	32.81	74.16	30.50	420.98	142.70
35145	81.11	-9.47	17.16	102.44	45.02	53.23	31.56	455.21	169.16	114.34	52.09	81.97	31.57	456.56	189.69
35146	81.87	-9.46	17.16	161.33	81.28	87.84	21.99	489.19	243.31	174.33	87.14	109.39	21.88	493.29	259.69
35147	82.63	-9.44	17.16	767.96	111.95	39.64	138.00	327.01	212.39	798.45	116.59	44.84	147.19	328.53	222.43
35148	83.38	-9.41	17.16	566.54	232.12	24.61	60.56	190.55	117.32	598.23	238.60	25.28	64.86	191.46	121.28
35149	84.14	-9.38	17.16	441.82	143.56	24.50	37.13	117.91	52.30	474.60	143.98	24.52	38.84	118.63	52.72
35150	84.89	-9.35	17.16	349.84	103.44	19.70	33.01	84.14	30.95	382.29	101.16	19.78	34.02	85.10	30.30
35151	85.64	-9.31	17.16	278.59	80.32	16.07	41.14	62.23	26.78	309.27	75.88	16.11	42.03	63.45	25.98
35152	78.84	-10.50	17.16	33.68	10.22	40.52	90.67	525.96	26.84	45.34	33.94	106.23	90.50	523.20	108.16
35153	79.62	-10.49	17.16	60.93	24.94	40.30	89.68	537.19	73.04	70.55	41.82	101.90	89.65	534.84	125.22
35154	80.40	-10.46	17.16	105.35	53.78	51.13	87.66	552.64	135.88	114.52	65.51	105.04	87.54	551.43	170.35
35155	81.18	-10.													



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
35183	79.71	-13.46	17.16	102.38	18.04	15.95	119.56	60.07	10.79	146.63	50.08	25.81	119.05	57.70	35.67
35184	80.55	-13.38	17.16	125.76	27.63	15.89	100.08	57.18	11.20	163.00	47.38	24.28	100.49	54.89	31.19
35185	81.38	-13.27	17.16	149.60	30.15	16.03	78.18	54.97	10.67	180.94	40.51	22.34	80.20	52.70	25.32
35186	82.20	-13.12	17.16	160.12	30.06	16.03	57.73	54.62	10.09	187.55	32.90	20.44	61.76	52.27	19.25
35187	83.01	-12.93	17.16	169.81	29.85	16.25	38.57	54.04	10.00	193.89	28.14	19.05	44.77	51.67	14.50
35188	83.81	-12.71	17.16	168.03	28.35	16.12	18.75	52.25	10.88	190.04	24.56	17.74	29.46	50.12	12.08
35189	84.60	-12.45	17.16	159.37	24.79	15.95	10.07	50.33	12.74	179.34	19.65	16.81	24.01	48.70	12.27
35190	85.37	-12.16	17.16	149.16	22.01	15.81	17.53	48.46	15.59	166.99	15.45	16.17	26.72	47.53	14.66
35191	86.12	-11.84	17.16	135.98	20.28	15.60	27.77	46.28	19.12	151.51	11.52	15.70	33.31	46.15	18.31
35192	78.88	-14.50	17.16	60.45	5.77	15.93	49.30	55.04	6.22	125.29	15.57	25.25	48.74	52.30	14.60
35193	79.74	-14.45	17.16	78.72	5.47	16.05	42.71	54.84	6.27	133.56	13.16	24.47	43.33	52.07	13.14
35194	80.59	-14.36	17.16	93.91	8.56	16.29	32.97	53.77	7.28	140.40	11.68	23.42	36.25	50.99	11.86
35195	81.44	-14.22	17.16	103.94	10.06	16.61	22.88	52.83	8.37	143.45	9.81	22.26	30.69	50.05	10.70
35196	82.28	-14.04	17.16	111.60	10.40	17.05	14.06	52.41	9.58	144.70	8.29	21.16	27.70	49.71	10.07
35197	83.11	-13.81	17.16	115.64	10.49	17.40	9.35	52.48	11.40	143.24	8.37	20.13	27.14	49.97	10.73
35198	83.92	-13.54	17.16	117.23	10.51	17.63	13.30	52.33	14.05	140.09	9.19	19.27	28.88	50.18	12.94
35199	84.71	-13.22	17.16	115.22	10.84	17.61	21.16	51.68	17.22	134.18	10.04	18.49	32.65	50.09	16.10
35200	85.49	-12.87	17.16	110.39	12.33	17.40	28.70	50.60	20.65	125.98	11.32	17.79	36.97	49.70	19.73
35201	86.24	-12.47	17.16	103.72	15.26	17.06	35.23	49.07	24.21	116.30	13.35	17.19	41.06	48.95	23.65
35202	89.84	-9.32	17.16	58.33	39.45	14.64	46.64	32.89	36.17	60.83	27.51	15.00	44.49	35.49	38.18
35203	89.35	-9.94	17.16	64.47	36.40	15.01	47.26	35.88	35.35	67.67	26.69	15.23	45.88	38.35	37.11
35204	88.82	-10.54	17.16	70.89	32.92	15.39	47.48	39.02	34.35	75.01	25.39	15.50	47.11	41.26	35.75
35205	89.15	-9.28	17.16	84.25	33.03	14.21	48.68	32.19	30.38	92.22	14.50	14.49	47.71	34.93	31.03
35206	88.80	-9.82	17.16	87.88	30.48	14.52	47.72	34.69	29.93	95.81	14.04	14.70	47.24	37.13	30.52
35207	88.43	-10.34	17.16	91.07	27.83	14.83	46.42	37.31	29.44	99.10	13.93	14.93	46.59	39.41	29.94
35208	88.47	-9.23	17.16	111.78	32.07	13.89	50.06	33.20	27.04	125.45	10.85	13.97	49.81	35.98	26.92
35209	88.26	-9.70	17.16	112.04	29.61	14.15	47.93	35.08	26.64	124.73	8.88	14.18	48.03	37.48	26.52
35210	88.03	-10.15	17.16	112.25	27.14	14.45	45.74	36.93	26.28	124.24	7.87	14.47	46.35	38.91	26.16
35211	86.95	-12.04	17.16	96.13	19.14	16.63	40.50	47.05	27.45	106.07	16.28	16.65	44.39	47.67	27.31
35212	86.79	-11.50	17.16	122.94	20.07	15.41	35.56	43.98	22.45	136.24	9.11	15.40	39.08	44.55	21.87
35213	86.64	-10.96	17.16	149.71	27.89	14.75	33.03	43.59	20.37	166.36	16.59	14.68	35.93	44.22	19.58
35214	87.61	-11.58	17.16	87.90	23.80	16.21	44.45	44.67	30.25	95.61	19.61	16.21	46.82	45.96	30.62
35215	87.38	-11.15	17.16	110.93	21.68	15.25	40.87	41.83	25.28	122.21	9.33	15.23	43.09	43.01	25.07
35216	87.16	-10.73	17.16	134.02	25.85	14.66	38.71	41.12	22.76	148.77	11.34	14.58	40.65	42.28	22.21
35217	88.24	-11.08	17.16	79.05	28.68	15.82	46.80	42.00	32.64	84.76	23.19	15.86	47.79	43.82	33.55
35218	87.95	-10.79	17.16	98.97	24.71	15.12	44.57	39.70	27.90	108.22	12.45	15.15	45.76	41.38	28.11
35219	87.67	-10.49	17.16	118.90	25.61	14.60	42.81	38.95	25.06	131.60	7.97	14.56	43.96	40.58	24.83
35220	86.70	-9.30	15.47	150.87	51.07	41.78	43.94	97.09	70.71	175.50	43.25	41.05	43.61	97.01	69.92
35221	87.44	-9.27	15.47	130.16	42.39	41.19	44.79	88.47	70.04	151.84	30.71	40.51	44.13	90.21	69.21
35222	88.18	-9.24	15.47	110.52	36.86	41.32	44.72	82.43	71.61	128.53	20.20	40.95	43.74	85.73	71.05
35223	86.80	-9.90	15.47	140.70	43.75	42.00	36.98	96.77	64.94	161.83	34.43	41.17	36.71	96.08	64.20
35224	87.44	-9.82	15.47	124.16	37.93	41.72	39.72	90.33	66.86	142.89	25.03	40.96	39.10	91.27	66.12
35225	88.08	-9.72	15.47	108.40	34.32	41.88	41.50	85.46	69.81	124.33	17.09	41.41	40.58	87.84	69.30
35226	86.88	-10.50	15.47	129.11	36.49	42.54	32.49	96.93	61.31	147.08	25.42	41.82	32.48	95.78	60.60
35227	87.43	-10.36	15.47	117.09	33.55	42.44	35.85	92.41	64.66	133.19	19.35	41.74	35.41	92.68	64.00
35228	87.98	-10.20	15.47	105.06	31.69	42.56	38.69	88.64	68.33	119.07	14.08	42.06	37.90	90.26	67.88
35229	78.85	-9.53	15.47	52.56	14.63	48.58	70.57	257.54	49.66	109.92	43.94	84.95	71.26	252.18	79.48
35230	79.64	-9.53	15.47	96.09	17.47	55.19	59.13	243.95	79.27	140.50	40.09	89.56	59.56	237.38	99.15
35231	80.44	-9.52	15.47	110.30	37.11	55.23	49.23	227.20	102.89	155.62	49.54	88.96	49.52	220.04	117.94
35232	81.23	-9.50	15.47	162.00	59.18	52.17	42.21	211.72	118.17	200.38	68.39	83.67	41.67	204.33	130.14
35233	82.02	-9.49	15.47	223.51	85.26	44.62	25.43	162.32	116.05	258.80	91.86	65.52	24.25	154.27	124.80
35234	82.81	-9.46	15.47	138.41	108.62	47.95	31.30	156.81	119.77	174.72	113.33	57.68	29.75	148.87	126.25
35235	83.60	-9.44	15.47	195.96	84.26	56.97	16.67	155.93	113.34	227.03	85.78	58.68	17.11	149.31	117.44
35236	84.38	-9.41	15.47	202.30	86.83	53.27	32.13	140.74	94.00	231.92	86.79	53.20	33.04	135.30	95.77
35237	85.16	-9.37	15.47	190.82	75.82	48.02	38.62	124.24	81.11	219.26	73.52	47.55	39.12	120.41	81.40
35238	85.95	-9.33	15.47	172.02	62.52	43.80	41.91	109.02	74.01	198.87	57.70	43.15	41.93	107.02	73.51
35239	78.86	-10.60	15.47	59.38	11.52	50.34	116.97	229.23	43.14	117.64	39.50	103.96	116.65	223.43	78.99
35240	79.68	-10.59	15.47	100.08	32.45	54.18	112.06	219.47	64.61	145.39	50.14	103.93	111.69	212.70	91.32
35241	80.50	-10.56	15.47	153.11	59.68	49.53	102.81	190.44	81.80	190.47	71.60	94.24	102.14	183.24	102.68
35242	81.31	-10.52	15.47	128.72	80.04	48.93	75.35	184.16	97.08	169.68	86.56	85.09	74.30	176.60	113.56
35243	82.12	-10.46	15.47	207.19	46.65	52.68	9.43	164.41	87.40	239.16	48.47	72.68	13.05	157.05	99.56
35244	82.92	-10.39	15.47	160.74	71.13	53.64	12.45	150.69	78.25	191.39	72.73	62.74	12.40	143.13	86.49
35245	83.72	-10.31	15.47	190.86	83.33	55.72	10.46	147.00	76.14	217.99	84.09	58.39	14.55	140.21	80.95
35246	84.52	-10.22	15.47	191.27	73.27	50.04	16.90	131.97	68.65	217.15	71.81	50.58	18.85	126.10	70.62
35247	85.30	-10.12	15.47	177.14	62.56	45.74	25.63	117.81	64.65	201.82	58.89	45.41	26.45	113.41	64.97
35248	86.08	-10.00	15.47	158.88	52.04	43.16	32.46	105.79	63.96	181.99	45.77	42.45	32.60	103.24	63.46
35249	78.87	-11.67	15.47	63.67	7.92	51.70	98.21	197.35	34.14	125.48	28.91	109.00	97.18	191.04	89.61
35250	79.71	-11.65	15.47	104.17	24.20	52.73	85.60	187.96	47.83	151.60	35.75	104.57	84.30	181.12	90.89
35251	80.55	-11.60	15.47	143.82	31.50	50.16	59.97	163.94	52.31	183.11	38.30	92.71	58.74	156.94	86.00
35252	81.39	-11.53	15.47	114.05	56.07	50.43	60.30	161.18	57.33	154.39	61.70	81.87	58.97	153.88	83.73
35253	82.21	-11.44	15.47	164.11	70.57	50.77	52.88	161.91	63.26	193.48	75.53	71.21	52.79	154.68	81.97
35254	83.03	-11.33	15.47	188.19	71.26	49									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
35281	80.70	-14.73	15.47	82.80	9.68	47.17	28.84	114.28	20.64	129.12	13.25	75.11	31.14	104.07	34.25
35282	81.59	-14.58	15.47	90.57	11.86	47.85	22.43	113.88	24.17	129.35	11.63	70.80	28.27	103.70	32.61
35283	82.47	-14.39	15.47	95.39	13.44	48.78	17.18	113.71	28.08	127.44	10.52	66.39	26.47	103.79	32.17
35284	83.34	-14.14	15.47	98.28	14.64	49.73	14.38	113.73	32.75	124.41	10.18	62.24	25.53	104.38	33.73
35285	84.18	-13.85	15.47	99.18	15.65	50.42	15.11	113.53	38.31	120.35	10.28	58.55	25.51	105.13	37.47
35286	85.01	-13.51	15.47	98.44	16.68	50.73	18.57	112.78	44.65	115.54	10.37	55.45	26.48	105.74	42.99
35287	85.82	-13.13	15.47	96.24	17.96	50.63	23.21	111.23	51.57	110.05	10.28	52.94	28.41	105.87	49.75
35288	86.61	-12.70	15.47	92.62	19.59	50.19	28.06	108.71	58.79	103.77	10.00	51.02	31.06	105.21	57.23
35289	90.32	-9.34	15.47	59.60	36.28	44.78	42.99	78.02	89.55	63.56	15.20	47.35	40.69	82.65	91.71
35290	99.82	-10.00	15.47	65.04	33.32	45.67	42.43	84.04	86.20	69.40	14.01	47.32	40.44	87.87	87.90
35291	89.28	-10.64	15.47	70.66	30.27	46.72	41.42	90.23	82.48	75.58	12.74	47.59	39.90	93.05	83.58
35292	89.61	-9.29	15.47	74.85	34.53	42.93	43.40	77.58	81.07	83.43	11.18	44.27	41.63	82.40	81.97
35293	89.25	-9.87	15.47	78.32	32.31	43.65	42.04	82.80	78.90	86.53	10.48	44.46	40.45	86.60	79.61
35294	88.87	-10.43	15.47	81.49	29.98	44.53	40.33	88.05	76.47	89.49	9.94	44.89	39.06	90.77	76.92
35295	88.90	-9.25	15.47	91.58	34.36	41.88	44.18	78.95	75.24	104.99	12.47	42.14	42.82	83.36	75.25
35296	88.68	-9.74	15.47	92.57	32.47	42.45	42.09	83.01	73.66	104.78	11.24	42.49	40.85	86.41	73.64
35297	88.46	-10.22	15.47	93.50	30.55	43.19	39.91	87.05	72.03	104.83	10.31	43.08	38.92	89.43	71.94
35298	87.34	-12.24	15.47	88.17	21.57	49.45	32.56	105.23	65.64	97.20	9.97	49.56	33.87	103.56	64.55
35299	87.18	-11.67	15.47	101.37	24.76	45.55	30.82	100.41	61.67	113.21	10.66	45.43	31.73	98.91	60.82
35300	87.01	-11.09	15.47	115.36	29.64	43.57	30.55	97.90	60.13	130.19	16.55	43.11	30.99	96.53	59.37
35301	88.03	-11.75	15.47	82.89	24.12	48.58	36.45	100.93	71.95	90.27	10.36	48.56	36.60	100.97	71.55
35302	87.79	-11.30	15.47	94.42	25.97	45.33	34.93	96.69	67.25	104.68	9.54	45.08	34.93	96.76	66.77
35303	87.55	-10.85	15.47	106.72	29.02	43.50	34.40	94.29	64.60	120.00	13.20	42.99	34.20	94.32	64.00
35304	88.69	-11.22	15.47	76.84	27.04	47.72	39.45	95.93	77.71	82.82	11.46	48.01	38.70	97.47	78.05
35305	88.38	-10.90	15.47	87.03	27.72	45.13	38.17	92.69	72.55	95.82	9.51	45.12	37.51	94.17	72.55
35306	88.08	-10.59	15.47	97.92	29.31	43.54	37.46	90.81	69.05	109.62	10.73	43.21	36.78	92.13	68.77
35307	87.04	-9.32	13.78	103.10	41.69	66.72	37.27	113.35	104.47	131.99	31.61	63.68	35.69	106.31	104.32
35308	87.81	-9.29	13.78	95.07	39.57	67.71	38.65	108.92	105.62	119.95	25.53	64.77	36.97	105.37	105.36
35309	88.57	-9.26	13.78	86.39	38.55	68.90	39.42	105.23	108.34	106.93	20.17	66.74	37.61	104.72	108.18
35310	87.15	-9.96	13.78	100.61	38.78	67.86	33.32	116.14	99.20	125.55	26.99	65.04	31.54	109.17	99.10
35311	87.82	-9.87	13.78	93.79	37.57	68.68	35.46	112.47	102.00	115.52	22.38	65.84	33.62	108.41	101.78
35312	88.48	-9.77	13.78	86.63	37.15	69.65	37.12	109.22	105.61	105.03	18.42	67.41	35.23	107.78	105.45
35313	87.25	-10.60	13.78	97.22	35.77	69.19	30.54	119.11	95.06	118.53	22.26	66.85	28.76	112.19	94.92
35314	87.82	-10.44	13.78	91.97	35.55	69.82	32.91	116.12	98.88	110.83	19.30	67.29	31.05	111.60	98.66
35315	88.38	-10.27	13.78	86.29	35.65	70.54	35.14	113.28	102.91	102.64	16.76	68.31	33.21	111.03	102.71
35316	78.86	-9.57	13.78	53.61	13.42	64.87	38.73	165.54	64.84	152.55	37.91	107.11	40.60	153.46	87.88
35317	79.69	-9.56	13.78	69.77	16.44	65.57	36.21	163.22	79.21	156.43	37.68	104.44	36.75	148.38	96.68
35318	80.52	-9.55	13.78	89.78	24.83	64.84	29.85	156.54	92.11	164.12	40.37	98.97	28.94	139.38	105.41
35319	81.34	-9.54	13.78	99.27	33.26	62.19	20.22	146.66	101.73	166.58	43.64	89.56	17.21	127.57	111.91
35320	82.17	-9.52	13.78	98.98	39.19	61.73	13.24	146.60	109.16	160.12	46.07	81.51	5.64	126.87	116.88
35321	82.99	-9.49	13.78	124.30	41.75	62.03	15.85	138.66	108.83	175.47	45.73	73.83	11.46	118.45	114.20
35322	83.81	-9.46	13.78	115.30	50.18	63.11	19.03	131.09	107.52	162.16	51.98	68.65	15.39	111.19	110.95
35323	84.63	-9.43	13.78	115.61	49.32	64.58	25.36	127.74	108.00	157.06	48.54	65.75	23.08	110.09	110.02
35324	85.44	-9.39	13.78	114.25	47.67	65.34	30.99	123.33	106.23	151.10	44.23	64.07	29.28	108.82	107.17
35325	86.25	-9.35	13.78	109.86	44.72	65.96	34.93	118.31	104.71	142.65	38.20	63.42	33.38	107.51	104.92
35326	78.88	-10.71	13.78	56.49	11.60	68.69	47.27	162.04	57.60	148.94	34.67	116.34	47.19	148.30	88.73
35327	79.74	-10.69	13.78	75.35	15.59	67.75	41.95	158.69	70.01	154.48	33.99	111.54	40.58	142.81	93.93
35328	80.59	-10.66	13.78	85.66	24.13	67.17	33.01	156.26	79.65	155.94	36.37	105.28	30.24	138.67	98.05
35329	81.44	-10.61	13.78	108.16	31.61	65.27	24.07	147.35	83.74	166.67	40.14	95.71	19.65	128.36	97.60
35330	82.28	-10.55	13.78	102.46	46.65	64.66	23.29	142.74	89.75	156.52	52.36	86.69	18.40	122.93	99.72
35331	83.12	-10.48	13.78	119.35	46.85	64.93	13.99	139.44	94.16	164.92	49.66	78.83	6.24	119.79	100.95
35332	83.95	-10.39	13.78	115.17	45.67	65.47	15.36	132.58	93.71	156.06	45.75	72.79	10.15	113.63	97.95
35333	84.78	-10.30	13.78	114.60	45.26	66.25	20.66	129.58	93.97	150.63	42.84	68.74	17.91	112.88	96.33
35334	85.60	-10.19	13.78	112.16	43.24	66.68	25.82	125.36	95.03	144.09	38.03	66.23	23.79	111.65	96.08
35335	86.41	-10.06	13.78	107.13	40.81	67.18	30.21	120.53	96.83	135.40	32.45	65.07	28.40	110.25	97.07
35336	78.89	-11.85	13.78	58.03	11.28	71.11	55.40	150.39	48.42	144.07	34.91	120.76	53.69	134.58	86.36
35337	79.78	-11.82	13.78	74.85	15.53	69.73	50.59	149.13	56.81	148.40	34.40	115.42	47.95	131.73	87.06
35338	80.65	-11.76	13.78	85.31	26.03	68.89	44.78	148.71	65.22	149.42	38.54	108.64	41.52	130.14	88.51
35339	81.52	-11.69	13.78	105.67	31.25	67.77	32.14	143.44	71.10	158.77	38.88	100.02	28.17	123.84	88.19
35340	82.39	-11.59	13.78	105.83	34.22	66.89	21.53	137.01	72.93	153.71	37.90	90.61	16.68	116.77	84.94
35341	83.24	-11.47	13.78	107.57	37.01	67.00	16.38	136.32	75.62	149.07	37.95	82.68	11.70	116.73	83.58
35342	84.09	-11.33	13.78	110.81	38.72	67.30	15.26	133.68	79.32	146.60	37.01	76.39	11.69	115.46	84.12
35343	84.92	-11.17	13.78	110.40	38.71	67.63	18.11	130.42	82.59	141.69	34.33	71.73	15.74	114.38	85.12
35344	85.75	-10.98	13.78	107.47	37.63	68.05	22.58	126.83	86.32	134.94	30.35	68.74	20.71	113.69	87.38
35345	86.56	-10.78	13.78	102.61	36.47	68.59	27.10	122.75	90.77	126.71	26.04	67.18	25.34	112.90	90.97
35346	78.90	-12.99	13.78	58.51	10.17	72.71	48.45	138.89	39.50	138.10	31.05	122.78	45.20	120.80	80.06
35347	79.81	-12.95	13.78	72.65	12.53	71.55	44.16	139.69	45.52	141.15	29.52	117.87	40.34	120.45	78.43
35348	80.71	-12.88	13.78	84.96	17.75	70.21	37.14	138.69	50.90	143.65	29.10	110.77	33.18	118.60	76.37
35349	81.60	-12.77	13.78	91.63	23.00	69.36	30.42	137.84	55.83	142.40	29.58	102.96	26.82	117.33	74.63
35350	82.49	-12.64	13.78	99.04	27.31	68.91	24.03	136.58	60.56	142.02	29.97	94.87	21.26	116.28	73.55
35351	83.36	-12.47	13.78	103.03	30.05	68.77	18.56	134.99	64.72	139.76	29.28	87.04	16.80	115.52	72.91
35352</															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
35379	90.07	-9.31	13.78	69.15	39.12	72.19	40.57	101.78	117.70	79.68	13.20	74.31	38.52	105.16	118.33
35380	89.70	-9.92	13.78	72.62	37.36	72.90	38.97	107.84	113.68	82.75	12.83	73.71	36.90	109.72	114.05
35381	89.31	-10.52	13.78	75.89	35.53	73.75	37.12	113.71	109.25	85.80	12.69	73.49	35.11	113.99	109.28
35382	89.32	-9.26	13.78	77.34	38.49	70.32	39.99	102.85	112.34	92.87	15.85	69.77	38.04	104.76	112.51
35383	89.11	-9.79	13.78	79.20	37.11	70.96	38.20	107.67	109.43	93.50	15.10	69.90	36.21	108.30	109.49
35384	88.88	-10.30	13.78	80.97	35.67	71.74	36.31	112.35	106.31	94.40	14.48	70.36	34.37	111.64	106.22
35385	87.74	-12.45	13.78	84.08	29.10	78.21	29.71	131.34	90.22	94.73	13.72	78.14	29.19	125.35	88.34
35386	87.56	-11.83	13.78	88.17	30.71	73.65	28.97	126.35	90.98	102.23	14.67	72.72	27.85	120.03	90.08
35387	87.38	-11.22	13.78	92.74	32.90	70.96	29.13	122.40	92.26	110.37	17.79	69.25	27.58	115.73	91.87
35388	88.45	-11.92	13.78	80.50	31.15	77.85	33.00	127.03	98.21	89.53	13.08	77.01	31.82	123.65	96.88
35389	88.19	-11.44	13.78	84.30	32.15	73.88	32.10	122.79	97.47	96.58	13.81	72.40	30.59	118.92	96.76
35390	87.94	-10.96	13.78	88.58	33.53	71.41	31.86	119.45	97.23	104.26	16.18	69.34	30.12	115.04	96.82
35391	89.13	-11.36	13.78	76.21	33.31	77.42	35.96	121.85	105.80	83.89	12.47	77.13	34.32	120.82	105.14
35392	88.81	-11.02	13.78	79.88	33.74	74.11	34.86	118.70	103.77	90.58	13.04	72.99	33.11	117.07	103.38
35393	88.49	-10.69	13.78	84.00	34.48	71.91	34.30	116.30	102.26	97.85	14.75	70.08	32.42	114.00	102.01
35394	87.38	-9.34	12.09	80.31	39.86	92.99	32.70	123.70	130.21	117.61	28.07	86.18	29.58	106.69	130.43
35395	88.18	-9.31	12.09	76.99	40.64	95.27	34.66	120.92	132.84	108.47	24.96	88.18	31.81	109.24	132.91
35396	88.97	-9.27	12.09	73.17	41.73	97.55	36.30	118.30	136.23	98.84	22.11	91.55	33.67	111.42	136.30
35397	87.50	-10.01	12.09	81.02	38.95	94.87	30.82	127.53	125.38	113.25	25.49	88.56	27.33	111.63	125.61
35398	88.19	-9.91	12.09	78.05	39.85	96.65	32.95	125.06	128.82	105.70	23.18	89.89	29.83	113.54	128.87
35399	88.88	-9.81	12.09	74.76	40.99	98.44	34.85	122.60	132.67	97.96	21.18	92.39	32.06	115.07	132.68
35400	87.61	-10.69	12.09	81.34	37.94	96.80	29.57	131.55	120.79	108.83	22.94	91.22	25.95	116.61	120.91
35401	88.20	-10.52	12.09	78.88	39.01	98.08	31.59	129.29	124.83	102.97	21.48	91.85	28.34	117.87	124.81
35402	88.79	-10.35	12.09	76.04	40.18	99.41	33.67	126.92	128.88	96.76	20.35	93.41	30.76	118.89	128.78
35403	78.88	-9.60	12.09	52.85	15.86	85.27	24.14	145.03	84.22	180.68	42.12	127.70	29.96	118.96	100.84
35404	79.74	-9.60	12.09	61.71	17.08	84.34	21.74	145.18	93.86	177.15	40.45	124.02	24.34	114.25	106.94
35405	80.60	-9.58	12.09	68.89	20.83	83.46	18.67	144.04	102.41	172.94	39.82	118.41	17.98	109.32	112.59
35406	81.46	-9.57	12.09	75.49	25.69	83.16	16.02	142.71	109.56	168.28	40.21	111.98	11.45	105.41	117.33
35407	82.32	-9.55	12.09	82.28	30.38	82.90	14.81	139.21	114.75	164.43	40.70	104.59	5.90	100.30	120.51
35408	83.17	-9.52	12.09	81.75	34.49	83.45	15.88	137.25	119.52	155.58	41.03	97.84	6.29	98.70	123.69
35409	84.02	-9.49	12.09	86.07	36.09	84.66	19.49	135.21	122.76	150.65	39.03	92.28	12.71	98.76	125.63
35410	84.87	-9.46	12.09	86.05	37.88	86.42	23.42	132.22	124.38	143.00	37.36	88.42	18.26	99.16	126.20
35411	85.72	-9.42	12.09	85.01	38.74	88.47	27.12	129.44	126.12	134.92	34.62	86.15	22.98	101.17	127.17
35412	86.56	-9.37	12.09	83.08	39.35	90.71	30.25	126.55	128.00	126.46	31.48	85.45	26.74	103.86	128.50
35413	78.90	-10.81	12.09	55.03	14.49	90.69	29.89	144.76	76.03	171.18	39.19	137.43	31.65	115.85	97.39
35414	79.79	-10.79	12.09	63.57	16.33	89.48	27.33	145.85	84.12	168.03	37.91	133.07	26.01	113.12	101.04
35415	80.68	-10.75	12.09	72.82	20.57	88.10	23.83	144.74	91.48	165.37	37.59	126.53	19.47	109.08	104.56
35416	81.57	-10.70	12.09	76.82	25.51	87.29	20.23	143.86	98.46	159.82	37.76	119.11	12.49	106.52	108.35
35417	82.45	-10.64	12.09	84.17	28.27	86.89	17.00	141.97	103.42	156.65	36.30	111.20	3.39	104.14	110.67
35418	83.32	-10.56	12.09	84.49	32.04	87.15	16.92	139.66	107.16	149.02	36.32	103.77	2.93	102.69	112.25
35419	84.18	-10.47	12.09	87.24	34.70	88.02	18.74	138.19	111.20	143.56	35.48	97.49	9.48	103.79	114.60
35420	85.04	-10.37	12.09	87.00	36.25	89.45	21.71	135.60	114.76	136.38	33.53	92.89	15.09	104.83	116.87
35421	85.89	-10.25	12.09	85.85	37.30	91.14	25.04	133.05	118.17	128.92	31.04	89.85	20.02	106.97	119.34
35422	86.73	-10.12	12.09	83.79	38.16	93.02	28.22	130.23	121.80	121.11	28.27	88.43	24.17	109.38	122.34
35423	78.91	-12.02	12.09	56.99	13.22	95.64	32.60	143.11	66.59	161.02	36.22	146.41	30.51	111.32	92.25
35424	79.84	-11.99	12.09	65.31	15.03	94.09	30.02	144.80	73.54	158.53	34.77	141.50	25.15	110.11	94.03
35425	80.75	-11.93	12.09	73.79	18.54	92.55	26.12	144.64	79.78	156.13	33.61	134.61	18.53	107.95	95.64
35426	81.66	-11.85	12.09	77.90	22.95	91.35	22.82	144.26	85.38	151.09	33.38	126.52	12.75	106.78	97.28
35427	82.56	-11.74	12.09	83.27	27.12	90.83	20.03	143.88	91.09	147.00	33.32	118.27	7.58	106.89	99.66
35428	83.45	-11.62	12.09	86.04	30.20	90.89	18.55	142.21	96.19	141.80	32.40	110.39	5.54	106.75	102.06
35429	84.33	-11.47	12.09	86.99	32.31	91.44	19.10	140.78	100.82	135.63	30.80	103.41	9.24	108.16	104.60
35430	85.20	-11.29	12.09	86.94	34.00	92.48	21.13	139.00	105.66	129.19	28.93	97.87	14.01	110.27	107.91
35431	86.05	-11.10	12.09	85.84	35.44	93.82	23.93	136.78	110.73	122.45	26.91	93.95	18.57	112.61	111.89
35432	86.89	-10.88	12.09	83.79	36.77	95.36	27.00	134.09	116.02	115.34	24.83	91.72	22.76	114.86	116.48
35433	78.93	-13.23	12.09	59.05	12.13	100.04	34.02	141.37	56.34	150.32	33.32	156.28	28.18	106.97	84.19
35434	79.88	-13.19	12.09	66.70	13.68	98.17	31.60	143.53	62.08	148.41	31.62	150.86	23.79	107.02	84.49
35435	80.82	-13.11	12.09	73.26	17.06	96.64	28.51	144.79	67.99	145.57	30.31	143.79	19.27	107.28	85.32
35436	81.75	-13.00	12.09	79.06	20.71	95.40	25.01	145.13	73.74	142.33	29.03	135.46	14.73	107.65	86.56
35437	82.67	-12.85	12.09	82.55	23.96	94.62	22.11	145.02	79.27	137.80	27.69	126.60	11.50	108.67	88.29
35438	83.58	-12.67	12.09	84.83	26.88	94.44	20.52	144.71	85.01	132.69	26.48	118.03	10.85	110.61	91.00
35439	84.47	-12.46	12.09	86.06	29.46	94.80	20.37	143.94	91.05	127.34	25.32	110.26	12.51	113.05	94.74
35440	85.35	-12.22	12.09	86.17	31.65	95.55	21.60	142.69	97.33	121.67	24.07	103.71	15.52	115.77	99.33
35441	86.21	-11.95	12.09	85.26	33.61	96.60	23.82	140.85	103.86	115.71	22.81	98.73	19.04	118.40	104.71
35442	87.05	-11.64	12.09	83.42	35.44	97.84	26.59	138.38	110.59	109.44	21.58	95.53	22.70	120.61	110.73
35443	78.94	-14.44	12.09	61.27	10.41	103.97	33.67	140.82	45.31	139.41	27.60	170.34	24.62	104.49	72.47
35444	79.91	-14.39	12.09	67.86	11.99	102.08	31.56	143.57	50.28	137.89	25.88	164.41	21.91	105.87	72.09
35445	80.87	-14.30	12.09	73.64	14.88	100.45	28.95	145.52	55.78	135.49	24.24	156.66	19.44	107.57	72.46
35446	81.83	-14.15	12.09	78.19	18.16	99.22	26.29	146.85	61.70	132.18	22.82	147.68	17.59	109.70	73.79
35447	82.77	-13.97	12.09	81.62	21.39	98.46	24.00	147.66	68.03	128.27	21.66	138.02	16.57	112.30	76.22
35448	83.69	-13.74	12.09	83.84	24.40	98.18	22.52	147.99	74.72	123.84	20.77	128.29	16.50	115.32	79.78
35449	84.60	-13.47	12.09	85.00	27.17	98.36	22.13	147.84	81.83						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
35477	88.34	-11.08	12.09	78.89	38.39	99.92	31.30	133.19	121.63	98.89	20.01	94.29	28.25	122.67	121.31
35478	89.57	-11.50	12.09	74.66	40.70	105.69	35.39	136.56	126.33	84.54	18.99	102.18	33.53	132.27	125.14
35479	89.23	-11.14	12.09	75.32	40.17	103.07	34.20	133.05	126.59	88.96	18.71	98.48	31.84	127.20	125.95
35480	88.90	-10.79	12.09	76.19	39.84	100.88	33.38	130.29	126.90	93.80	19.28	95.40	30.60	122.81	126.62
35481	87.72	-9.35	10.41	69.90	41.57	122.27	31.05	134.59	151.89	116.38	28.73	110.14	26.38	106.35	152.06
35482	88.54	-9.32	10.41	68.36	43.45	125.68	33.29	131.73	155.05	107.34	26.77	112.59	29.32	110.78	155.10
35483	89.37	-9.29	10.41	66.55	45.49	129.09	35.43	128.91	158.54	98.16	25.07	117.10	32.12	114.72	158.58
35484	87.85	-10.06	10.41	72.02	41.53	125.11	30.43	138.31	146.92	112.22	27.15	113.51	25.30	112.37	147.09
35485	88.57	-9.96	10.41	70.54	43.29	127.73	32.55	135.77	150.51	104.87	25.78	115.06	28.27	115.82	150.53
35486	89.28	-9.86	10.41	68.86	45.19	130.36	34.60	133.15	154.29	97.55	24.70	118.30	31.10	118.76	154.26
35487	87.97	-10.78	10.41	74.01	41.45	127.93	30.19	142.32	141.67	108.28	25.66	117.07	24.94	118.44	141.73
35488	88.58	-10.60	10.41	72.64	43.11	129.78	32.00	139.97	145.71	102.58	24.83	117.69	27.60	120.87	145.65
35489	89.19	-10.42	10.41	70.99	44.84	131.70	34.00	137.44	149.64	96.66	24.40	119.62	30.38	122.97	149.48
35490	78.90	-9.64	10.41	55.18	18.95	106.89	20.82	149.29	104.66	205.62	46.34	153.35	31.70	103.21	115.78
35491	79.79	-9.63	10.41	59.00	20.13	105.95	19.56	150.24	111.98	197.21	44.60	149.47	25.83	97.24	120.76
35492	80.69	-9.62	10.41	62.90	22.44	105.56	18.29	150.39	118.83	188.69	43.10	144.19	20.04	92.45	125.67
35493	81.58	-9.60	10.41	66.29	25.27	105.63	17.47	149.68	125.00	180.06	41.68	137.80	14.73	88.83	130.23
35494	82.47	-9.58	10.41	68.51	28.23	106.43	17.60	148.72	130.48	170.87	40.33	131.11	10.87	87.29	134.40
35495	83.35	-9.55	10.41	71.05	31.00	107.87	18.87	147.05	134.95	162.30	38.82	124.56	10.11	87.17	137.79
35496	84.24	-9.52	10.41	71.62	33.69	109.93	20.88	145.04	138.81	152.85	37.35	118.74	12.26	88.89	140.78
35497	85.12	-9.48	10.41	72.19	35.89	112.52	23.41	142.84	142.36	143.84	35.42	114.09	15.87	92.34	143.65
35498	86.00	-9.44	10.41	71.99	37.92	115.55	26.06	140.27	145.55	134.75	33.33	110.99	19.64	96.68	146.31
35499	86.87	-9.39	10.41	71.20	39.82	118.86	28.66	137.45	148.71	125.58	31.09	109.61	23.21	101.52	149.09
35500	78.92	-10.92	10.41	56.97	17.58	115.09	24.76	150.61	96.07	192.05	43.09	165.40	30.38	101.15	110.37
35501	79.85	-10.89	10.41	61.54	19.02	113.61	23.25	151.86	102.75	184.91	41.51	160.66	24.08	96.88	114.06
35502	80.78	-10.85	10.41	65.39	21.61	112.71	21.60	152.43	109.14	177.24	40.12	154.48	17.79	94.02	117.91
35503	81.70	-10.80	10.41	69.37	24.63	112.32	20.21	152.12	114.91	169.73	38.82	147.24	11.66	92.24	121.57
35504	82.61	-10.73	10.41	71.48	27.95	112.58	19.61	151.31	120.32	161.38	37.75	139.59	6.68	92.04	125.24
35505	83.51	-10.65	10.41	73.79	30.76	113.50	19.96	150.10	125.37	153.52	36.26	132.14	5.40	93.45	128.88
35506	84.41	-10.55	10.41	74.49	33.30	115.07	21.26	148.29	129.89	145.06	34.60	125.44	8.91	95.95	132.28
35507	85.30	-10.44	10.41	74.88	35.58	117.13	23.26	146.28	134.25	136.86	32.80	119.88	13.47	99.73	135.76
35508	86.18	-10.32	10.41	74.46	37.69	119.62	25.63	143.81	138.55	128.56	30.90	115.88	17.86	103.95	139.41
35509	87.05	-10.18	10.41	73.46	39.71	122.37	28.13	141.01	142.89	120.22	29.01	113.68	21.91	108.34	143.29
35510	78.93	-12.20	10.41	59.12	16.16	123.05	28.17	151.25	85.91	178.06	39.75	178.51	27.43	98.64	103.15
35511	79.90	-12.16	10.41	63.86	17.76	121.20	26.57	152.98	91.88	172.11	38.27	173.04	21.22	96.26	105.59
35512	80.86	-12.10	10.41	67.86	20.52	119.85	24.81	154.00	97.85	165.55	36.92	166.02	15.08	95.28	108.48
35513	81.80	-12.01	10.41	71.67	23.64	119.04	23.13	154.26	103.70	158.93	35.52	157.94	8.89	95.46	111.12
35514	82.74	-11.90	10.41	74.10	26.72	118.80	22.02	153.84	109.25	151.75	34.05	149.34	2.93	96.77	115.10
35515	83.66	-11.76	10.41	75.87	29.66	119.20	21.76	153.07	114.71	144.45	32.61	140.84	2.77	99.47	118.80
35516	84.58	-11.60	10.41	76.83	32.43	120.23	22.39	151.73	120.19	137.10	31.18	133.04	7.96	102.95	122.89
35517	85.48	-11.42	10.41	77.03	34.95	121.76	23.80	149.94	125.65	129.71	29.69	126.37	12.84	107.01	127.29
35518	86.36	-11.21	10.41	76.54	37.28	123.68	25.78	147.67	131.15	122.28	28.20	121.26	17.38	111.23	132.02
35519	87.23	-10.98	10.41	75.41	39.53	125.87	28.09	144.92	136.75	114.83	26.86	118.04	21.61	115.24	137.08
35520	78.95	-13.48	10.41	61.61	14.50	130.66	30.86	151.79	74.10	164.03	35.44	194.03	23.14	96.57	93.66
35521	79.94	-13.43	10.41	66.19	16.25	128.57	29.29	154.08	79.56	159.19	34.01	187.84	17.77	96.14	95.17
35522	80.92	-13.35	10.41	70.31	18.98	126.84	27.52	155.58	85.24	153.85	32.52	179.91	12.66	96.96	97.34
35523	81.90	-13.23	10.41	73.55	22.15	125.61	25.87	156.44	91.12	147.97	31.10	170.79	8.38	98.97	100.18
35524	82.85	-13.07	10.41	76.13	25.43	124.95	24.59	156.69	97.23	141.85	29.79	161.05	6.17	101.99	103.74
35525	83.80	-12.88	10.41	77.85	28.56	124.87	23.94	156.35	103.49	135.53	28.53	151.26	7.50	105.75	107.92
35526	84.73	-12.66	10.41	78.75	31.49	125.35	24.06	155.46	109.90	129.09	27.35	142.01	10.86	110.03	112.69
35527	85.64	-12.40	10.41	78.92	34.26	126.33	24.96	154.01	116.50	122.61	26.34	133.85	14.70	114.47	118.06
35528	86.53	-12.11	10.41	78.41	36.88	127.70	26.50	151.97	123.27	116.12	25.50	127.30	18.61	118.71	123.94
35529	87.40	-11.79	10.41	77.27	39.40	129.36	28.53	149.30	130.12	109.58	24.83	122.81	22.47	122.42	130.21
35530	78.96	-14.76	10.41	64.45	12.63	137.85	33.32	152.72	60.50	150.30	29.32	214.03	19.49	95.78	81.92
35531	79.98	-14.70	10.41	68.80	14.62	135.54	31.81	155.55	65.47	146.54	28.02	206.92	16.19	97.17	82.63
35532	80.98	-14.60	10.41	72.61	17.54	133.56	30.15	157.67	71.10	142.18	26.72	197.85	13.83	99.81	84.33
35533	81.98	-14.45	10.41	75.75	20.82	131.99	28.54	159.12	77.29	137.36	25.50	187.32	12.71	103.43	87.04
35534	82.96	-14.25	10.41	78.10	24.18	130.91	27.21	159.95	83.96	132.18	24.49	175.91	12.93	107.79	90.75
35535	83.92	-14.01	10.41	79.71	27.49	130.38	26.36	160.18	91.10	126.80	23.78	164.26	14.23	112.63	95.47
35536	84.86	-13.72	10.41	80.59	30.69	130.38	26.13	159.77	98.65	121.33	23.37	153.02	16.24	117.60	101.12
35537	85.79	-13.39	10.41	80.77	33.74	130.86	26.58	158.69	106.53	115.82	23.22	142.84	18.71	122.37	107.61
35538	86.69	-13.01	10.41	80.27	36.66	131.72	27.69	156.88	114.66	110.29	23.28	134.37	21.50	126.61	114.78
35539	87.56	-12.60	10.41	79.14	39.43	132.87	29.35	154.28	122.93	104.72	23.44	128.20	24.52	130.02	122.47
35540	78.97	-16.04	10.41	67.64	10.84	144.55	35.93	154.17	45.53	137.24	20.64	240.65	20.57	96.60	69.50
35541	80.00	-15.98	10.41	71.69	13.23	142.13	34.46	157.60	49.85	134.45	19.78	232.38	20.11	99.74	69.16
35542	81.03	-15.86	10.41	75.22	16.39	139.95	32.87	160.38	55.36	131.06	19.13	221.73	20.19	104.01	70.09
35543	82.04	-15.68	10.41	78.11	19.84	138.13	31.32	162.50	61.90	127.21	18.84	209.21	20.64	109.09	72.40
35544	83.04	-15.44	10.41	80.32	23.38	136.73	29.97	163.97	69.31	123.02	18.98	195.46	21.30	114.65	76.14
35545	84.03	-15.14	10.41	81.83	26.87	135.82	28.98	164.77	77.44	118.65	19.53	181.18	22.09	120.36	81.30
35546	84.99	-14.79	10.41	82.66	30.28	135.40	28.47	164.84	86.20	114.19	20.37	167.14	23.04	125.90	87.80

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
35575	88.97	-10.69	8.72	70.06	47.32	165.62	33.45	150.38	163.90	105.37	28.58	145.67	28.17	123.54	163.62
35576	89.59	-10.49	8.72	68.93	49.36	168.24	35.37	147.30	167.62	99.25	28.60	148.10	31.29	126.38	167.28
35577	78.92	-9.67	8.72	57.99	22.44	129.18	21.60	163.96	125.50	226.80	49.08	182.03	37.07	93.53	132.44
35578	79.84	-9.66	8.72	59.67	23.62	128.59	20.72	164.92	131.65	214.86	47.25	177.84	30.62	86.33	137.05
35579	80.77	-9.65	8.72	61.39	25.45	128.74	20.03	165.10	137.51	203.23	45.42	172.36	24.63	81.18	141.66
35580	81.70	-9.63	8.72	62.96	27.72	129.70	19.75	164.60	142.99	191.87	43.63	166.01	19.32	78.30	146.11
35581	82.62	-9.61	8.72	64.40	30.17	131.42	20.05	163.41	148.00	180.89	41.83	159.17	15.16	77.67	150.28
35582	83.54	-9.58	8.72	65.29	32.68	133.91	20.98	161.67	152.60	170.06	40.01	152.36	12.87	79.37	154.19
35583	84.45	-9.54	8.72	66.06	35.11	137.09	22.49	159.41	156.79	159.66	38.11	146.04	13.05	83.03	157.82
35584	85.36	-9.50	8.72	66.32	37.50	140.86	24.41	156.67	160.63	149.42	36.21	140.72	15.17	88.13	161.21
35585	86.27	-9.46	8.72	66.28	39.84	145.10	26.58	153.55	164.27	139.41	34.30	136.84	18.29	94.17	164.50
35586	87.18	-9.41	8.72	65.92	42.19	149.69	28.90	150.09	167.79	129.51	32.48	134.88	21.79	100.58	167.76
35587	78.94	-11.02	8.72	59.71	21.27	140.56	25.26	164.99	116.46	210.22	45.85	196.64	34.93	91.12	125.59
35588	79.91	-10.99	8.72	62.00	22.70	139.44	24.18	166.28	122.29	199.86	44.31	191.57	28.00	86.01	129.41
35589	80.87	-10.95	8.72	64.29	24.81	138.99	23.19	166.74	127.96	189.73	42.72	185.08	21.50	83.05	133.42
35590	81.83	-10.89	8.72	66.14	27.32	139.30	22.52	166.50	133.43	179.68	41.10	177.65	15.63	82.30	137.52
35591	82.77	-10.82	8.72	67.82	29.94	140.36	22.34	165.59	138.63	169.94	39.39	169.72	10.89	83.59	141.60
35592	83.71	-10.73	8.72	68.83	32.62	142.16	22.75	164.05	143.56	160.29	37.71	161.81	8.56	86.65	145.61
35593	84.64	-10.63	8.72	69.56	35.22	144.62	23.76	162.01	148.31	150.95	36.00	154.41	9.76	91.17	149.62
35594	85.56	-10.52	8.72	69.74	37.75	147.66	25.26	159.44	152.89	141.74	34.30	148.05	13.11	96.57	153.62
35595	86.48	-10.39	8.72	69.55	40.22	151.14	27.14	156.44	157.38	132.71	32.68	143.19	17.13	102.43	157.67
35596	87.38	-10.24	8.72	68.98	42.68	154.95	29.28	153.03	161.85	123.80	31.21	140.35	21.24	108.27	161.82
35597	78.96	-12.37	8.72	61.95	19.82	152.29	28.81	165.80	105.52	193.39	42.11	213.53	30.52	88.84	116.99
35598	79.96	-12.33	8.72	64.71	21.46	150.69	27.62	167.47	111.01	184.75	40.81	207.53	23.53	85.99	120.01
35599	80.96	-12.26	8.72	67.30	23.79	149.69	26.47	168.33	116.55	176.13	39.38	199.98	16.89	85.36	123.47
35600	81.94	-12.17	8.72	69.40	26.53	149.35	25.53	168.45	122.08	167.50	37.89	191.34	10.73	86.73	127.26
35601	82.91	-12.05	8.72	71.11	29.42	149.71	24.98	167.91	127.61	158.99	36.39	182.13	5.42	89.82	131.35
35602	83.87	-11.90	8.72	72.26	32.31	150.77	24.94	166.72	133.12	150.58	34.89	172.87	3.97	94.18	135.68
35603	84.82	-11.74	8.72	72.91	35.12	152.45	25.47	164.95	138.60	142.30	33.42	164.09	7.89	99.44	140.22
35604	85.75	-11.54	8.72	73.05	37.85	154.67	26.55	162.62	144.09	134.16	32.05	156.36	12.58	105.11	144.97
35605	86.67	-11.33	8.72	72.72	40.52	157.33	28.08	159.76	149.61	126.14	30.85	150.22	17.20	110.79	149.93
35606	87.57	-11.08	8.72	71.95	43.14	160.30	29.98	156.39	155.17	118.20	29.88	146.22	21.64	116.10	155.11
35607	78.97	-13.72	8.72	64.72	18.01	164.16	32.23	166.54	92.36	176.91	37.38	233.65	24.26	87.19	106.39
35608	80.01	-13.67	8.72	67.77	19.87	162.16	31.00	168.65	97.51	169.94	36.28	226.63	17.78	86.71	108.63
35609	81.03	-13.58	8.72	70.46	22.48	160.64	29.76	169.99	102.99	162.79	35.05	217.85	11.69	88.39	111.59
35610	82.04	-13.45	8.72	72.72	25.48	159.68	28.66	170.59	108.77	155.57	33.76	207.78	6.08	91.80	115.20
35611	83.04	-13.29	8.72	74.43	28.62	159.32	27.84	170.49	114.78	148.31	32.49	196.95	2.25	96.50	119.40
35612	84.02	-13.09	8.72	75.59	31.78	159.59	27.45	169.73	121.02	141.08	31.32	185.95	5.44	102.03	124.14
35613	84.98	-12.85	8.72	76.21	34.89	160.44	27.57	168.32	127.47	133.92	30.33	175.38	10.06	107.95	129.38
35614	85.92	-12.58	8.72	76.30	37.90	161.82	28.22	166.28	134.07	126.85	29.52	165.86	14.57	113.85	135.06
35615	86.85	-12.27	8.72	75.87	40.83	163.62	29.37	163.60	140.80	119.86	28.94	158.04	18.93	119.36	141.11
35616	87.75	-11.93	8.72	74.96	43.67	165.74	30.97	160.28	147.59	112.91	28.57	152.54	23.14	124.19	147.45
35617	78.98	-15.07	8.72	67.98	15.95	175.88	35.59	167.34	76.67	161.31	31.12	258.15	17.94	86.59	94.03
35618	80.04	-15.01	8.72	71.14	18.09	173.57	34.34	169.98	81.48	155.85	30.24	249.99	13.39	88.49	95.41
35619	81.09	-14.90	8.72	73.88	21.01	171.59	33.06	171.87	86.99	150.11	29.29	239.71	10.15	92.36	97.83
35620	82.13	-14.74	8.72	76.13	24.32	170.03	31.86	173.02	93.15	144.18	28.40	227.84	9.01	97.64	101.24
35621	83.14	-14.53	8.72	77.84	27.79	168.98	30.87	173.46	99.87	138.15	27.68	214.96	10.14	103.79	105.61
35622	84.15	-14.28	8.72	78.99	31.27	168.47	30.20	173.19	107.09	132.09	27.19	201.70	12.64	110.33	110.86
35623	85.13	-13.97	8.72	79.57	34.69	168.50	29.95	172.21	114.71	126.06	26.97	188.77	15.69	116.82	116.92
35624	86.08	-13.62	8.72	79.60	38.02	169.01	30.18	170.49	122.67	120.06	27.00	176.89	18.95	122.90	123.68
35625	87.01	-13.23	8.72	79.09	41.22	169.95	30.93	168.01	130.85	114.09	27.24	166.86	22.31	128.24	131.04
35626	87.92	-12.79	8.72	78.05	44.28	171.23	32.15	164.76	139.16	108.14	27.64	159.42	25.74	132.60	138.83
35627	78.99	-16.43	8.72	71.60	13.96	187.12	39.06	168.20	58.81	147.00	23.27	288.12	17.58	87.24	81.68
35628	80.07	-16.36	8.72	74.79	16.45	184.58	37.80	171.45	63.14	142.86	22.73	278.68	17.06	91.44	81.86
35629	81.14	-16.23	8.72	77.52	19.71	182.24	36.48	173.99	68.71	138.39	22.37	266.64	17.51	97.34	83.39
35630	82.19	-16.04	8.72	79.75	23.35	180.19	35.19	175.80	75.38	133.69	22.29	252.54	18.58	104.29	86.28
35631	83.23	-15.79	8.72	81.43	27.13	178.52	34.03	176.87	82.98	128.84	22.56	237.06	19.98	111.71	90.55
35632	84.25	-15.47	8.72	82.54	30.92	177.29	33.11	177.17	91.37	123.92	23.18	220.91	21.55	119.12	96.16
35633	85.25	-15.10	8.72	83.09	34.66	176.53	32.53	176.66	100.38	119.00	24.08	204.92	23.24	126.11	102.99
35634	86.23	-14.67	8.72	83.07	38.27	176.23	32.36	175.29	109.89	114.07	25.17	189.98	25.06	132.32	110.90
35635	87.17	-14.19	8.72	82.46	41.73	176.32	32.66	173.02	119.75	109.13	26.33	177.07	27.07	137.46	119.69
35636	88.08	-13.65	8.72	81.25	44.99	176.76	33.47	169.81	129.80	104.08	27.44	167.06	29.32	141.33	129.14
35637	92.26	-9.42	8.72	62.29	58.57	179.54	44.10	131.90	186.32	73.67	30.71	179.78	43.73	131.52	186.46
35638	91.72	-10.25	8.72	66.66	57.00	179.46	42.22	139.95	177.55	78.77	30.58	171.63	41.61	136.53	177.45
35639	91.12	-11.05	8.72	70.92	55.28	179.30	40.39	147.82	168.49	84.04	30.32	165.02	39.48	140.90	168.07
35640	91.43	-9.37	8.72	62.29	55.11	174.26	41.29	133.52	183.17	81.59	28.96	164.91	39.78	127.26	183.16
35641	91.05	-10.08	8.72	66.07	54.23	174.81	39.98	140.23	176.36	84.97	29.11	161.25	38.19	131.66	176.19
35642	90.63	-10.78	8.72	69.72	53.11	175.33	38.60	146.62	169.03	88.44	29.13	158.41	36.53	135.50	168.68
35643	90.60	-9.31	8.72	62.69	52.11	169.11	38.66	135.96	180.41	90.57	28.26	152.98	36.01	122.73	180.29
35644	90.38	-9.92	8.72	65.75	51.72	170.29	37.84	141.00	175.12	91.91	28.50	152.61	34.99	126.63	174.90
35645	90.15	-10.52	8.72	68.73	51										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
35673	87.49	-9.43	7.03	63.96	45.22	182.55	30.10	163.76	185.60	134.08	34.41	160.61	21.75	100.78	185.05
35674	78.96	-11.12	7.03	62.24	25.68	166.78	27.08	183.01	136.55	222.77	47.27	228.73	40.22	81.99	141.92
35675	79.96	-11.09	7.03	63.44	27.04	166.10	26.12	184.06	141.79	210.04	45.81	223.23	32.62	76.87	145.86
35676	80.96	-11.05	7.03	64.65	28.91	166.32	25.36	184.24	146.97	198.04	44.24	216.39	25.71	74.52	149.97
35677	81.95	-10.99	7.03	65.79	31.11	167.45	24.90	183.59	152.02	186.74	42.59	208.57	19.59	74.85	154.16
35678	82.94	-10.91	7.03	66.71	33.51	169.48	24.85	182.19	156.94	176.01	40.95	200.20	14.62	77.56	158.35
35679	83.91	-10.82	7.03	67.44	35.99	172.34	25.26	180.08	161.70	165.81	39.31	191.74	11.55	82.20	162.52
35680	84.87	-10.71	7.03	67.86	38.51	175.96	26.13	177.33	166.32	156.02	37.74	183.68	11.35	88.20	166.64
35681	85.83	-10.59	7.03	68.02	41.05	180.21	27.43	174.01	170.81	146.56	36.28	176.60	13.73	95.02	170.73
35682	86.77	-10.46	7.03	67.89	43.59	184.98	29.09	170.17	175.20	137.30	35.00	171.11	17.43	102.15	174.81
35683	87.70	-10.31	7.03	67.50	46.17	190.13	31.05	165.86	179.51	128.18	33.95	167.91	21.61	109.18	178.92
35684	78.98	-12.54	7.03	64.66	24.59	182.92	31.02	183.20	125.14	204.18	43.82	249.17	35.11	79.58	132.44
35685	80.02	-12.50	7.03	66.48	26.16	181.71	29.95	184.61	130.19	193.61	42.73	242.62	27.43	77.03	135.80
35686	81.06	-12.43	7.03	68.14	28.28	181.25	29.01	185.14	135.35	183.52	41.46	234.51	20.37	77.34	139.55
35687	82.08	-12.33	7.03	69.59	30.75	181.80	28.30	184.83	140.58	173.90	40.09	225.28	14.04	80.10	143.60
35688	83.09	-12.20	7.03	70.71	33.41	182.74	27.91	183.75	145.85	164.67	38.68	215.40	8.87	84.76	147.90
35689	84.08	-12.05	7.03	71.51	36.14	184.65	27.92	181.95	151.15	155.80	37.31	205.38	6.57	90.74	152.38
35690	85.06	-11.87	7.03	71.94	38.90	187.25	28.37	179.47	156.46	147.21	36.04	195.77	8.78	97.48	157.03
35691	86.03	-11.67	7.03	72.01	41.64	190.43	29.26	176.37	161.78	138.84	34.92	187.20	13.04	104.49	161.83
35692	86.98	-11.44	7.03	71.72	44.37	194.09	30.57	172.69	167.10	130.61	33.99	180.33	17.70	111.36	166.77
35693	87.91	-11.19	7.03	71.06	47.09	198.09	32.22	168.45	172.44	122.46	33.34	175.89	22.38	117.73	171.85
35694	78.99	-13.97	7.03	67.78	22.82	200.08	34.95	183.41	111.14	186.36	39.28	273.63	27.44	77.87	121.06
35695	80.07	-13.91	7.03	70.03	24.64	198.40	33.83	185.25	115.96	177.87	38.51	265.90	20.15	78.13	123.73
35696	81.14	-13.81	7.03	72.01	27.07	197.28	32.76	186.21	121.14	169.62	37.54	256.32	13.36	81.14	127.08
35697	82.19	-13.68	7.03	73.64	29.88	196.80	31.85	186.33	126.65	161.60	36.50	245.38	7.05	86.20	131.01
35698	83.22	-13.50	7.03	74.89	32.88	196.99	31.18	185.67	132.45	153.81	35.47	233.60	1.49	92.61	135.47
35699	84.24	-13.29	7.03	75.71	35.97	197.83	30.84	184.25	138.50	146.22	34.52	221.58	4.68	99.74	140.40
35700	85.24	-13.04	7.03	76.11	39.05	199.27	30.88	182.11	144.75	138.80	33.72	209.93	9.88	107.08	145.74
35701	86.21	-12.76	7.03	76.08	42.10	201.25	31.36	179.28	151.16	131.51	33.12	199.36	14.86	114.21	151.45
35702	87.17	-12.43	7.03	75.63	45.08	203.66	32.26	175.78	157.67	124.29	32.74	190.63	19.64	120.78	157.47
35703	88.10	-12.08	7.03	74.76	48.01	206.39	33.59	171.61	164.22	117.11	32.59	184.52	24.25	126.53	163.72
35704	79.00	-15.39	7.03	71.48	20.40	217.85	38.84	183.62	93.94	169.97	33.33	302.67	18.60	77.18	107.91
35705	80.11	-15.32	7.03	74.02	22.52	215.78	37.70	185.97	98.50	163.33	32.82	293.65	12.73	80.36	109.73
35706	81.20	-15.21	7.03	76.18	25.35	214.05	36.56	187.46	103.80	156.73	32.22	282.36	7.98	85.97	112.57
35707	82.27	-15.04	7.03	77.93	28.59	212.75	35.49	188.11	109.77	150.19	31.65	269.34	5.82	93.12	116.35
35708	83.33	-14.82	7.03	79.22	32.03	211.94	34.58	187.96	116.34	143.73	31.18	255.22	7.69	101.06	121.01
35709	84.37	-14.54	7.03	80.05	35.54	211.64	33.92	187.02	123.42	137.35	30.91	240.65	11.35	109.17	126.48
35710	85.39	-14.22	7.03	80.39	39.04	211.84	33.58	185.28	130.93	131.05	30.85	226.38	15.35	117.01	132.69
35711	86.38	-13.85	7.03	80.25	42.46	212.50	33.63	182.76	138.75	124.80	31.01	213.22	19.36	124.20	139.53
35712	87.34	-13.44	7.03	79.63	45.77	213.56	34.12	179.46	146.80	118.57	31.37	202.05	23.32	130.45	146.89
35713	88.28	-12.98	7.03	78.56	48.93	214.94	35.05	175.37	154.95	112.35	31.89	193.77	27.24	135.55	154.64
35714	79.01	-16.81	7.03	75.61	17.64	235.45	42.74	183.73	73.51	155.47	26.10	336.50	15.12	77.68	94.68
35715	80.13	-16.74	7.03	78.33	20.12	233.12	41.58	186.67	77.74	150.40	25.87	326.11	14.16	83.74	95.33
35716	81.24	-16.61	7.03	80.61	23.41	230.89	40.37	188.80	83.25	145.22	25.76	312.90	14.78	91.74	97.34
35717	82.34	-16.40	7.03	82.42	27.14	228.85	39.17	190.11	89.90	139.98	25.88	297.48	16.42	100.75	100.68
35718	83.42	-16.14	7.03	83.73	31.07	227.09	38.06	190.59	97.53	134.73	26.28	280.56	18.56	110.01	105.35
35719	84.48	-15.81	7.03	84.53	35.06	225.68	37.12	190.21	105.98	129.48	26.97	262.89	20.91	118.98	111.27
35720	85.52	-15.42	7.03	84.82	39.00	224.64	36.42	188.96	115.07	124.25	27.91	245.37	23.36	127.22	118.33
35721	86.53	-14.96	7.03	84.57	42.82	223.98	36.05	186.81	124.64	119.02	29.04	228.95	25.87	134.42	126.38
35722	87.50	-14.45	7.03	83.79	46.47	223.67	36.08	183.73	134.54	113.75	30.28	214.71	28.48	140.32	135.24
35723	88.44	-13.89	7.03	82.45	49.89	223.66	36.57	179.72	144.61	108.37	31.51	203.69	31.21	144.79	144.68
35724	92.75	-9.44	7.03	63.04	63.08	223.35	46.21	138.40	201.20	76.15	36.07	217.99	46.59	136.60	201.46
35725	92.19	-10.32	7.03	67.59	61.78	223.79	44.35	146.87	192.41	81.58	35.74	208.76	44.46	141.47	192.56
35726	91.59	-11.15	7.03	71.94	60.25	224.25	42.58	155.14	183.29	87.12	35.26	201.41	42.29	145.64	183.26
35727	91.89	-9.38	7.03	62.39	59.30	216.10	43.16	141.43	198.95	84.32	33.89	199.33	42.12	132.10	198.84
35728	91.50	-10.14	7.03	66.37	58.68	217.34	41.93	148.27	191.99	87.90	34.01	195.52	40.59	136.33	191.79
35729	91.07	-10.87	7.03	70.21	57.77	218.61	40.67	154.82	184.50	91.59	33.94	192.68	38.95	139.99	184.22
35730	91.03	-9.32	7.03	62.26	56.00	209.00	40.29	145.21	196.93	93.76	32.67	184.08	37.77	127.05	196.56
35731	90.81	-9.97	7.03	65.54	55.87	211.03	39.63	150.14	191.44	95.16	33.03	184.28	36.87	130.86	190.99
35732	90.57	-10.60	7.03	68.75	55.60	213.02	38.87	155.05	185.51	97.06	33.24	184.88	35.81	134.25	185.03
35733	89.32	-13.27	7.03	80.77	52.99	223.83	37.55	174.84	154.45	103.31	32.82	196.86	34.03	147.47	154.16
35734	89.10	-12.50	7.03	77.21	51.71	216.29	36.28	170.87	162.59	106.83	32.64	189.23	30.76	138.91	162.05
35735	88.88	-11.74	7.03	73.73	50.51	208.91	35.04	167.50	169.90	110.94	32.77	181.83	28.11	130.64	169.24
35736	90.13	-12.62	7.03	78.38	55.75	224.00	38.97	169.11	164.15	98.09	33.76	194.40	36.90	148.47	163.82
35737	89.82	-12.01	7.03	75.36	54.02	217.42	37.67	166.12	169.82	101.57	33.12	187.99	33.82	140.75	169.28
35738	89.52	-11.42	7.03	72.53	52.52	210.98	36.38	163.72	174.89	105.70	32.94	181.66	31.12	133.33	174.24
35739	90.90	-11.92	7.03	75.57	58.28	224.27	40.66	162.62	173.72	92.77	34.70	196.30	39.66	147.95	173.50
35740	90.51	-11.50	7.03	73.17	56.30	218.60	39.16	160.81	176.97	96.25	33.71	189.82	36.68	141.47	176.55
35741	90.14	-11.08	7.03	71.04	54.39	213.03	37.81	159.57	180.01	100.38	32.95	183.59	34.00	135.28	179.49
35742	88.73	-9.41	5.34	63.62	50.96	224.96	34.23	172.21	205.37	127.90	36.43	187.09	26.56	109.95	204.28
35743	89.65	-9.37													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
35771	79.00	-12.72	5.34	66.74	30.58	214.26	33.40	201.70	144.36	207.55	45.61	283.60	39.16	70.61	148.57
35772	80.08	-12.67	5.34	68.09	32.01	213.51	32.36	202.79	149.00	195.92	44.72	276.70	31.01	69.22	152.10
35773	81.16	-12.59	5.34	69.37	33.90	213.70	31.51	202.88	153.80	185.30	43.64	268.21	23.68	70.91	155.97
35774	82.22	-12.49	5.34	70.50	36.10	214.86	30.90	202.03	158.72	175.53	42.49	258.56	17.26	75.14	160.09
35775	83.26	-12.35	5.34	71.41	38.49	216.95	30.60	200.31	163.73	166.47	41.35	248.18	12.11	81.22	164.42
35776	84.29	-12.19	5.34	72.07	40.99	219.92	30.65	197.78	168.80	157.95	40.27	237.60	9.42	88.49	168.90
35777	85.31	-12.01	5.34	72.45	43.55	223.65	31.09	194.52	173.90	149.83	39.30	227.39	10.47	96.42	173.51
35778	86.30	-11.79	5.34	72.53	46.12	228.04	31.92	190.58	179.00	141.95	38.50	218.24	14.11	104.52	178.23
35779	87.28	-11.55	5.34	72.28	48.70	232.95	33.12	186.02	184.07	134.17	37.90	210.96	18.68	112.43	183.04
35780	88.24	-11.29	5.34	71.70	51.29	238.25	34.66	180.88	189.13	126.37	37.55	206.43	23.53	119.81	187.94
35781	89.17	-11.01	5.34	70.41	53.92	243.67	36.37	175.81	193.20	118.61	37.25	202.50	28.42	127.29	192.83
35782	90.14	-10.71	5.34	72.29	56.69	249.16	38.26	170.83	196.27	111.30	37.00	200.00	33.33	134.80	197.72
35783	91.24	-10.40	5.34	73.94	59.57	254.75	40.34	166.46	198.34	104.00	36.75	198.00	38.22	142.31	202.61
35784	92.33	-10.09	5.34	75.30	62.59	260.46	42.51	162.23	200.41	96.70	36.50	196.00	43.11	149.82	207.50
35785	93.40	-9.77	5.34	76.33	65.74	266.28	44.77	158.12	202.48	88.70	36.25	194.00	48.00	157.33	212.39
35786	94.46	-9.44	5.34	77.00	69.04	272.21	47.12	154.11	204.55	80.70	36.00	192.00	52.89	164.84	217.28
35787	95.49	-9.10	5.34	77.30	72.47	278.16	49.56	150.10	206.62	72.70	35.75	190.00	57.78	172.35	222.17
35788	96.50	-8.75	5.34	77.21	76.06	284.22	52.08	146.10	208.69	64.70	35.50	188.00	62.67	180.42	227.06
35789	97.49	-8.40	5.34	76.72	79.79	290.39	54.69	142.10	210.76	56.70	35.25	186.00	67.56	188.49	231.95
35790	98.45	-8.05	5.34	75.84	83.56	296.66	57.38	138.10	212.83	48.70	35.00	184.00	72.45	196.56	236.84
35791	99.39	-7.70	5.34	74.74	87.38	303.04	60.15	134.10	214.90	40.70	34.75	182.00	77.34	204.63	241.73
35792	100.31	-7.35	5.34	76.98	91.24	309.47	63.00	130.10	217.00	32.70	34.50	180.00	82.23	212.70	246.62
35793	101.21	-7.00	5.34	78.87	95.14	316.00	65.93	126.10	219.10	24.70	34.25	178.00	87.12	220.77	251.51
35794	102.12	-6.65	5.34	80.36	99.07	322.61	68.94	122.10	221.20	16.70	34.00	176.00	92.01	228.84	256.40
35795	103.01	-6.30	5.34	81.44	103.03	329.30	72.03	118.10	223.30	8.70	33.75	174.00	96.90	236.91	261.29
35796	103.89	-5.95	5.34	82.07	107.02	336.07	75.18	114.10	225.40	0.70	33.50	172.00	101.79	244.98	266.18
35797	104.76	-5.60	5.34	82.25	111.03	342.92	78.34	110.10	227.50	-7.30	33.25	170.00	106.68	253.05	271.07
35798	105.62	-5.25	5.34	81.96	115.06	349.99	81.51	106.10	229.60	-15.30	33.00	168.00	111.57	261.12	276.16
35799	106.47	-4.90	5.34	81.22	119.11	357.18	84.77	102.10	231.70	-23.30	32.75	166.00	116.46	269.19	281.25
35800	107.31	-4.55	5.34	80.02	123.18	364.49	88.12	98.10	233.80	-31.30	32.50	164.00	121.35	277.26	286.34
35801	108.14	-4.20	5.34	79.51	127.27	371.92	91.56	94.10	235.90	-39.30	32.25	162.00	126.24	285.33	291.43
35802	108.96	-3.85	5.34	81.99	131.37	379.55	95.00	90.10	238.00	-47.30	32.00	160.00	131.13	293.40	296.52
35803	109.77	-3.50	5.34	84.02	135.48	387.28	98.44	86.10	240.10	-55.30	31.75	158.00	136.02	301.47	301.61
35804	110.57	-3.15	5.34	85.57	139.60	395.11	101.87	82.10	242.20	-63.30	31.50	156.00	140.91	309.54	306.70
35805	111.36	-2.80	5.34	86.63	143.73	403.04	105.30	78.10	244.30	-71.30	31.25	154.00	145.80	317.61	311.79
35806	112.14	-2.45	5.34	87.18	147.87	411.07	108.73	74.10	246.40	-79.30	31.00	152.00	150.69	325.70	316.88
35807	112.91	-2.10	5.34	87.22	152.01	419.10	112.16	70.10	248.50	-87.30	30.75	150.00	155.58	333.79	322.05
35808	113.68	-1.75	5.34	86.74	156.15	427.23	115.59	66.10	250.60	-95.30	30.50	148.00	160.47	341.88	327.34
35809	114.44	-1.40	5.34	85.73	160.30	435.46	119.02	62.10	252.70	-103.30	30.25	146.00	165.36	350.05	332.43
35810	115.19	-1.05	5.34	84.17	164.44	443.79	122.45	58.10	254.80	-111.30	30.00	144.00	170.25	358.22	337.52
35811	115.93	-0.70	5.34	83.71	168.58	452.21	125.88	54.10	256.90	-119.30	29.75	142.00	175.14	366.39	342.61
35812	116.66	-0.35	5.34	83.43	172.72	460.72	129.31	50.10	259.00	-127.30	29.50	140.00	180.03	374.56	347.70
35813	117.38	-0.00	5.34	72.91	176.87	469.23	132.74	46.10	261.10	-135.30	29.25	138.00	184.92	382.73	352.79
35814	118.09	0.35	5.34	63.15	181.01	477.84	136.17	42.10	263.20	-143.30	29.00	136.00	189.81	390.90	357.88
35815	118.79	0.70	5.34	67.26	185.15	486.45	139.60	38.10	265.30	-151.30	28.75	134.00	194.70	399.07	362.97
35816	119.48	1.05	5.34	71.23	189.29	495.16	143.03	34.10	267.40	-159.30	28.50	132.00	199.59	407.24	368.06
35817	120.16	1.40	5.34	62.93	193.43	503.97	146.46	30.10	269.50	-167.30	28.25	130.00	204.48	415.41	373.15
35818	120.83	1.75	5.34	66.33	197.57	512.78	149.89	26.10	271.60	-175.30	28.00	128.00	209.37	423.58	378.24
35819	121.49	2.10	5.34	69.67	201.71	521.69	153.32	22.10	273.70	-183.30	27.75	126.00	214.26	431.75	383.33
35820	122.14	2.45	5.34	82.29	205.85	530.60	156.75	18.10	275.80	-191.30	27.50	124.00	219.15	439.92	388.42
35821	122.78	2.80	5.34	78.57	210.00	539.57	160.18	14.10	277.90	-199.30	27.25	122.00	224.04	448.09	393.51
35822	123.41	3.15	5.34	74.79	214.14	548.60	163.61	10.10	280.00	-207.30	27.00	120.00	228.93	456.26	398.60
35823	124.03	3.50	5.34	79.71	218.28	557.69	167.04	6.10	282.10	-215.30	26.75	118.00	233.82	464.43	403.69
35824	124.64	3.85	5.34	76.61	222.42	566.84	170.47	2.10	284.20	-223.30	26.50	116.00	238.71	472.60	408.78
35825	125.24	4.20	5.34	73.57	226.56	576.04	173.90	-1.90	286.30	-231.30	26.25	114.00	243.60	480.77	413.87
35826	125.83	4.55	5.34	76.72	230.70	585.29	177.33	-5.90	288.40	-239.30	26.00	112.00	248.49	488.86	418.96
35827	126.41	4.90	5.34	74.30	234.84	594.59	180.76	-9.90	290.50	-247.30	25.75	110.00	253.38	496.95	424.05
35828	126.98	5.25	5.34	72.05	238.98	603.94	184.19	-13.90	292.60	-255.30	25.50	108.00	258.27	505.04	429.14
35829	127.54	5.60	4.00	59.71	243.12	613.34	187.62	-17.90	294.70	-263.30	25.25	106.00	263.16	513.13	434.23
35830	128.09	5.95	4.00	59.75	247.26	622.78	191.05	-21.90	296.80	-271.30	25.00	104.00	268.05	521.22	439.32
35831	128.63	6.30	4.00	59.75	251.40	632.22	194.48	-25.90	298.90	-279.30	24.75	102.00	272.94	529.31	444.41
35832	129.16	6.65	4.00	59.71	255.54	641.66	197.91	-29.90	301.00	-287.30	24.50	100.00	277.83	537.40	449.50
35833	129.68	7.00	4.00	54.61	259.68	651.10	201.34	-33.90	303.10	-295.30	24.25	98.00	282.72	545.49	454.59
35834	130.19	7.35	4.00	54.49	263.82	660.54	204.77	-37.90	305.20	-303.30	24.00	96.00	287.61	553.58	459.68
35835	130.69	7.70	4.00	54.49	267.96	670.00	208.20	-41.90	307.30	-311.30	23.75	94.00	292.50	561.67	464.77
35836	131.18	8.05	4.00	54.61	272.10	679.44	211.63	-45.90	309.40	-319.30	23.50	92.00	297.39	569.76	469.86
35837	131.66	8.40	4.00	50.34	276.24	688.88	215.06	-49.90	311.50	-327.30	23.25	90.00	302.28	577.85	474.95
35838	132.13	8.75	4.00	50.05	280.38	698.32	218.49	-53.90	313.60	-335.30	23.00	88.00	307.17	585.94	480.04
35839	132.59	9.10	4.00	50.05	284.52	707.76	221.92	-57.90	315.70	-343.30	22.75	86.00	312.06	594.03	485.13
35840	133.04	9.45	4.00	50.34	288.66	717.20	225.35	-61.90	317.80						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
35869	90.40	1.65	4.00	35.28	48.24	229.47	39.76	155.16	250.43	130.30	31.45	167.87	39.58	80.64	250.37
35870	90.45	0.55	4.00	33.92	48.04	228.97	39.96	154.16	251.39	130.24	31.15	166.98	39.95	79.41	251.39
35871	90.45	-0.55	4.00	33.92	48.04	228.97	39.97	154.16	251.40	130.24	31.15	166.97	39.95	79.41	251.39
35872	90.40	-1.65	4.00	35.28	48.25	229.47	39.78	155.17	250.45	130.30	31.46	167.86	39.59	80.64	250.39
35873	91.54	1.65	4.00	33.79	51.39	242.65	44.20	142.77	252.58	117.23	33.87	188.00	44.06	92.66	252.52
35874	91.59	0.55	4.00	32.31	51.19	242.20	44.44	141.53	253.52	117.06	33.63	187.60	44.42	91.54	253.51
35875	91.59	-0.55	4.00	32.31	51.19	242.20	44.44	141.54	253.52	117.06	33.63	187.59	44.43	91.54	253.52
35876	91.54	-1.65	4.00	33.79	51.39	242.66	44.22	142.78	252.60	117.23	33.87	187.99	44.07	92.66	252.54
35877	92.68	1.65	4.00	31.80	54.67	256.49	48.74	130.11	254.72	101.69	36.71	219.75	48.64	102.92	254.67
35878	92.73	0.55	4.00	30.16	54.47	256.07	49.01	128.63	255.64	101.33	36.55	219.96	49.00	101.86	255.64
35879	92.73	-0.55	4.00	30.16	54.47	256.07	49.02	128.64	255.65	101.33	36.55	219.95	49.01	101.86	255.64
35880	92.68	-1.65	4.00	31.80	54.68	256.50	48.76	130.12	254.75	101.69	36.72	219.73	48.65	102.92	254.69
35881	93.82	1.65	4.00	29.27	58.10	271.22	53.32	117.00	256.84	83.27	39.78	262.70	53.29	109.83	256.80
35882	93.88	0.55	4.00	27.41	57.91	270.85	53.64	115.26	257.77	82.61	39.69	263.63	53.64	108.73	257.76
35883	93.88	-0.55	4.00	27.41	57.91	270.85	53.65	115.26	257.78	82.61	39.69	263.62	53.65	108.73	257.77
35884	93.82	-1.65	4.00	29.27	58.11	271.24	53.33	117.01	256.86	83.27	39.79	262.67	53.30	109.83	256.82
35885	94.96	1.65	4.00	26.34	61.74	286.67	57.88	103.03	258.79	62.19	42.83	314.65	57.93	111.59	258.78
35886	95.02	0.55	4.00	24.20	61.53	286.38	58.29	100.96	259.83	61.09	42.81	316.36	58.29	110.31	259.82
35887	95.02	-0.55	4.00	24.20	61.53	286.38	58.29	100.96	259.83	61.09	42.81	316.35	58.30	110.31	259.83
35888	94.96	-1.65	4.00	26.34	61.76	286.70	57.89	103.04	258.81	62.19	42.84	314.61	57.94	111.59	258.81
35889	96.10	1.65	4.00	23.70	65.60	302.49	62.55	87.94	260.81	40.03	46.13	374.59	62.67	106.97	260.83
35890	96.16	0.55	4.00	21.32	65.44	302.30	62.91	85.50	261.62	38.27	46.16	377.09	62.93	105.40	261.62
35891	96.16	-0.55	4.00	21.32	65.44	302.31	62.92	85.50	261.63	38.27	46.16	377.08	62.93	105.40	261.63
35892	96.10	-1.65	4.00	23.70	65.62	302.52	62.56	87.95	260.83	40.03	46.15	374.54	62.68	106.98	260.87
35893	79.03	1.65	3.00	57.71	26.53	130.25	4.39	244.16	221.95	286.59	40.61	216.19	11.61	68.05	221.94
35894	79.03	0.55	3.00	57.74	26.40	127.68	2.95	244.49	222.84	288.18	40.51	214.54	4.66	68.05	222.84
35895	79.03	-0.55	3.00	57.74	26.40	127.68	2.96	244.49	222.84	288.18	40.51	214.54	4.67	68.05	222.84
35896	79.03	-1.65	3.00	57.71	26.52	130.24	4.40	244.16	221.95	286.59	40.61	216.17	11.62	68.06	221.95
35897	80.18	1.65	3.00	52.60	27.29	135.25	6.23	243.07	227.49	256.96	37.25	212.54	11.04	60.52	227.49
35898	80.19	0.55	3.00	52.47	27.14	132.88	5.49	243.36	228.44	258.17	37.12	210.90	6.28	60.41	228.44
35899	80.19	-0.55	3.00	52.46	27.14	132.88	5.49	243.36	228.44	258.17	37.12	210.89	6.29	60.41	228.44
35900	80.18	-1.65	3.00	52.60	27.28	135.24	6.25	243.07	227.50	256.96	37.26	212.52	11.04	60.53	227.50
35901	81.34	1.65	3.00	48.38	28.48	143.35	8.84	240.21	232.69	232.05	34.13	207.50	11.66	53.11	232.68
35902	81.35	0.55	3.00	48.08	28.32	141.25	8.45	240.46	233.68	232.96	33.95	205.86	8.83	52.82	233.68
35903	81.35	-0.55	3.00	48.08	28.32	141.24	8.45	240.46	233.68	232.97	33.95	205.85	8.83	52.82	233.68
35904	81.34	-1.65	3.00	48.38	28.48	143.34	8.86	240.21	232.69	232.06	34.13	207.48	11.67	53.13	232.69
35905	82.49	1.65	3.00	44.99	30.05	153.89	11.95	235.62	237.45	211.25	31.41	201.28	13.47	46.20	237.44
35906	82.50	0.55	3.00	44.52	29.87	152.08	11.74	235.80	238.48	211.90	31.18	199.64	11.93	45.64	238.48
35907	82.50	-0.55	3.00	44.52	29.87	152.07	11.75	235.80	238.49	211.91	31.19	199.63	11.93	45.65	238.48
35908	82.49	-1.65	3.00	44.99	30.04	153.87	11.96	235.62	237.46	211.25	31.42	201.26	13.47	46.22	237.45
35909	83.64	1.65	3.00	42.36	31.94	166.15	15.40	229.35	241.73	193.96	29.27	194.14	16.16	40.58	241.71
35910	83.66	0.55	3.00	41.73	31.74	164.62	15.32	229.44	242.79	194.42	28.99	192.49	15.41	39.67	242.79
35911	83.66	-0.55	3.00	41.73	31.74	164.61	15.32	229.44	242.79	194.42	28.99	192.48	15.41	39.68	242.79
35912	83.64	-1.65	3.00	42.36	31.93	166.13	15.42	229.35	241.74	193.96	29.27	194.12	16.17	40.60	241.73
35913	84.80	1.65	3.00	40.41	34.10	179.48	19.12	221.48	245.49	179.65	27.85	186.42	19.45	37.58	245.47
35914	84.82	0.55	3.00	39.63	33.89	178.21	19.12	221.46	246.57	179.96	27.52	184.77	19.16	36.29	246.56
35915	84.82	-0.55	3.00	39.63	33.89	178.21	19.13	221.46	246.57	179.96	27.52	184.76	19.16	36.30	246.57
35916	84.80	-1.65	3.00	40.41	34.09	179.46	19.14	221.49	245.51	179.65	27.85	186.40	19.46	37.60	245.49
35917	85.95	1.65	3.00	39.04	36.50	193.35	23.06	212.13	248.75	167.79	27.29	178.68	23.15	38.68	248.72
35918	85.98	0.55	3.00	38.12	36.28	192.31	23.11	211.97	249.82	167.98	26.92	177.02	23.12	37.11	249.82
35919	85.98	-0.55	3.00	38.12	36.27	192.30	23.12	211.97	249.83	167.98	26.92	177.02	23.13	37.12	249.82
35920	85.95	-1.65	3.00	39.04	36.49	193.33	23.08	212.13	248.76	167.79	27.29	178.66	23.16	38.70	248.73
35921	87.11	1.65	3.00	38.14	39.11	207.36	27.18	201.45	251.53	157.79	27.65	171.82	27.13	44.35	251.49
35922	87.14	0.55	3.00	37.10	38.88	206.51	27.28	201.13	252.59	157.90	27.28	170.19	27.27	42.71	252.58
35923	87.14	-0.55	3.00	37.10	38.87	206.50	27.28	201.14	252.59	157.91	27.28	170.18	27.27	42.71	252.59
35924	87.11	-1.65	3.00	38.13	39.11	207.34	27.20	201.46	251.55	157.80	27.65	171.80	27.14	44.37	251.51
35925	88.26	1.65	3.00	37.56	41.91	221.25	31.48	189.68	253.90	149.03	28.94	167.37	31.36	53.78	253.85
35926	88.30	0.55	3.00	36.42	41.67	220.55	31.61	189.18	254.94	149.08	28.58	165.82	31.59	52.22	254.93
35927	88.30	-0.55	3.00	36.42	41.66	220.55	31.61	189.18	254.94	149.08	28.58	165.82	31.60	52.22	254.94
35928	88.26	-1.65	3.00	37.56	41.91	221.24	31.50	189.69	253.92	149.03	28.94	167.36	31.37	53.79	253.87
35929	89.42	1.65	3.00	37.16	44.87	234.95	35.97	177.12	255.97	140.74	31.08	167.74	35.80	65.80	255.92
35930	89.45	0.55	3.00	35.93	44.62	234.36	36.12	176.41	256.97	140.74	30.74	166.35	36.10	64.38	256.97
35931	89.45	-0.55	3.00	35.93	44.62	234.36	36.12	176.41	256.98	140.74	30.74	166.35	36.10	64.38	256.97
35932	89.42	-1.65	3.00	37.16	44.87	234.95	35.98	177.13	255.99	140.74	31.08	167.73	35.81	65.81	255.94
35933	90.57	1.65	3.00	36.77	47.99	248.60	40.65	164.13	257.86	131.98	33.93	176.15	40.48	79.44	257.80
35934	90.61	0.55	3.00	35.45	47.73	248.07	40.83	163.19	258.82	131.92	33.65	175.06	40.81	78.17	258.82
35935	90.61	-0.55	3.00	35.45	47.74	248.07	40.83	163.20	258.83	131.92	33.65	175.06	40.81	78.17	258.82
35936	90.57	-1.65	3.00	36.77	47.99	248.59	40.66	164.14	257.89	131.98	33.93	176.14	40.49	79.44	257.82
35937	91.72	1.65	3.00	36.14	51.23	262.57	45.51	151.11	259.72	121.56	37.33	196.00	45.36	93.72	259.65
35938	91.77	0.55	3.00	34.74	50.98	262.08	45.73	149.94	260.64	121.42	37.11	195.38	45.71	92.59	260.63
35939	91.77	-0.55	3.00	34.74	50.98	262.08	45.73	149.94	260.64	121.42	37.12				



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
35967	75.59	0.55	4.00	81.35	28.50	122.93	2.07	220.59	191.70	431.15	56.35	203.30	5.99	109.80	191.70
35968	75.60	1.65	4.00	80.85	28.54	125.35	4.69	220.36	191.06	427.85	56.44	204.95	17.46	109.41	191.08
35969	74.47	-1.65	4.00	90.26	30.25	132.19	5.27	214.38	184.55	484.14	58.19	201.19	19.61	123.12	184.59
35970	74.45	-0.55	4.00	90.90	30.26	129.93	2.78	214.57	185.12	488.06	57.95	199.48	6.90	123.59	185.12
35971	74.45	0.55	4.00	90.90	30.26	129.93	2.79	214.57	185.12	488.06	57.95	199.48	6.86	123.59	185.12
35972	74.47	1.65	4.00	90.26	30.25	132.17	5.29	214.38	184.55	484.15	58.19	201.20	19.57	123.13	184.59
35973	73.33	-1.65	4.00	101.21	32.75	140.58	5.75	206.69	178.09	549.92	58.42	194.82	21.51	138.17	178.16
35974	73.31	-0.55	4.00	101.97	32.84	138.54	3.22	206.82	178.59	554.46	57.93	193.01	7.62	138.71	178.60
35975	73.31	0.55	4.00	101.97	32.83	138.53	3.23	206.82	178.59	554.47	57.93	193.02	7.57	138.71	178.60
35976	73.33	1.65	4.00	101.21	32.75	140.57	5.77	206.69	178.10	549.94	58.42	194.83	21.46	138.17	178.17
35977	72.19	-1.65	4.00	113.99	36.14	149.86	6.01	197.32	171.68	626.87	56.52	185.43	22.94	154.86	171.80
35978	72.17	-0.55	4.00	114.85	36.33	148.03	3.32	197.39	172.11	631.96	55.68	183.48	8.05	155.47	172.13
35979	72.17	0.55	4.00	114.85	36.33	148.02	3.33	197.39	172.12	631.98	55.68	183.48	7.99	155.47	172.13
35980	72.19	1.65	4.00	113.99	36.14	149.85	6.04	197.32	171.69	626.90	56.52	185.44	22.87	154.87	171.81
35981	71.05	-1.65	4.00	129.05	40.54	159.43	6.00	186.35	165.29	717.04	52.11	172.58	23.54	173.58	165.49
35982	71.02	-0.55	4.00	129.97	40.86	157.79	2.99	186.33	165.64	722.53	50.93	170.40	8.07	174.24	165.67
35983	71.02	0.55	4.00	129.97	40.86	157.79	3.01	186.33	165.65	722.54	50.93	170.40	7.98	174.25	165.67
35984	71.05	1.65	4.00	129.05	40.54	159.41	6.03	186.35	165.30	717.08	52.11	172.58	23.46	173.60	165.50
35985	69.91	-1.65	4.00	146.96	46.15	168.81	5.71	173.88	158.82	823.04	46.13	155.93	22.89	194.78	159.15
35986	69.88	-0.55	4.00	147.91	46.61	167.35	2.21	173.76	159.09	828.68	45.08	153.42	7.55	195.49	159.12
35987	69.88	0.55	4.00	147.90	46.61	167.34	2.24	173.76	159.09	828.70	45.08	153.42	7.45	195.50	159.13
35988	69.91	1.65	4.00	146.96	46.14	168.79	5.74	173.88	158.83	823.09	46.13	155.93	22.79	194.80	159.16
35989	68.77	-1.65	4.00	168.54	53.18	177.66	5.40	160.09	152.14	948.41	44.68	135.97	20.63	218.95	152.68
35990	68.74	-0.55	4.00	169.49	53.75	176.34	1.92	159.86	152.31	953.90	45.31	133.05	6.68	219.71	152.37
35991	68.74	0.55	4.00	169.49	53.75	176.34	1.96	159.86	152.32	953.91	45.30	133.05	6.55	219.73	152.38
35992	68.77	1.65	4.00	168.54	53.18	177.64	5.44	160.09	152.15	948.47	44.68	135.96	20.51	218.99	152.69
35993	67.63	-1.65	4.00	195.03	61.91	185.80	6.34	145.24	145.07	1098.44	61.05	116.64	16.89	246.65	145.96
35994	67.59	-0.55	4.00	195.96	62.51	184.60	4.83	144.90	145.12	1103.48	64.30	113.59	6.89	247.49	145.23
35995	67.59	0.55	4.00	195.96	62.51	184.59	4.85	144.90	145.13	1103.51	64.29	113.58	6.78	247.51	145.23
35996	67.63	1.65	4.00	195.03	61.91	185.79	6.38	145.25	145.08	1098.51	61.04	116.62	16.75	246.70	145.96
35997	66.50	-1.65	4.00	228.37	72.59	193.29	10.60	129.77	137.33	1281.92	101.11	113.18	14.01	278.38	138.81
35998	66.45	-0.55	4.00	229.29	73.08	192.16	10.88	129.32	137.24	1286.24	105.81	111.55	11.19	279.30	137.41
35999	66.45	0.55	4.00	229.29	73.08	192.16	10.89	129.33	137.24	1286.27	105.81	111.54	11.15	279.33	137.41
36000	66.50	1.65	4.00	228.37	72.59	193.28	10.63	129.78	137.33	1281.99	101.10	113.17	13.89	278.46	138.80
36001	65.36	-1.65	4.00	271.86	85.40	200.55	19.42	114.42	128.45	1514.85	163.58	154.04	18.96	314.39	130.98
36002	65.31	-0.55	4.00	272.74	85.73	199.46	20.91	113.89	128.17	1517.71	169.05	155.91	20.85	315.09	128.46
36003	65.31	0.55	4.00	272.74	85.73	199.46	20.91	113.89	128.18	1517.74	169.05	155.91	20.85	315.13	128.45
36004	65.36	1.65	4.00	271.85	85.40	200.54	19.44	114.43	128.46	1514.92	163.58	154.06	18.94	314.48	130.96
36005	64.22	-1.65	4.00	331.28	100.57	208.82	34.47	100.62	117.57	1828.06	249.92	257.75	35.28	353.94	121.85
36006	64.17	-0.55	4.00	331.91	100.95	207.73	37.03	100.01	116.98	1826.60	257.84	262.84	37.30	352.65	117.41
36007	64.17	0.55	4.00	331.91	100.95	207.73	37.03	100.02	116.98	1826.61	257.85	262.86	37.32	352.68	117.40
36008	64.22	1.65	4.00	331.28	100.57	208.83	34.48	100.63	117.58	1828.10	249.93	257.82	35.32	354.05	121.81
36009	63.08	-1.65	4.00	417.14	118.96	221.58	59.51	91.21	102.61	2283.06	368.59	454.96	65.45	394.49	109.08
36010	63.02	-0.55	4.00	417.41	119.76	220.34	63.11	90.20	101.46	2270.13	384.31	460.01	64.58	384.25	101.94
36011	63.02	0.55	4.00	417.41	119.76	220.34	63.11	90.20	101.47	2270.13	384.33	460.04	64.60	384.28	101.93
36012	63.08	1.65	4.00	417.14	118.96	221.60	59.50	91.23	102.63	2283.06	368.64	455.07	65.50	394.58	109.03
36013	61.94	-1.65	4.00	547.28	143.93	256.79	103.24	90.60	77.11	2988.42	545.78	895.73	116.41	421.72	85.34
36014	61.88	-0.55	4.00	549.17	144.51	254.86	107.68	88.26	76.40	2958.14	577.11	887.24	110.87	386.06	76.69
36015	61.88	0.55	4.00	549.18	144.51	254.87	107.68	88.26	76.41	2958.12	577.14	887.27	110.88	386.08	76.69
36016	61.94	1.65	4.00	547.29	143.94	256.83	103.22	90.62	77.15	2988.35	545.86	895.86	116.44	421.78	85.29
36017	60.80	-1.65	4.00	760.92	182.44	365.84	192.79	146.93	17.44	4221.57	852.86	2045.35	205.03	757.83	16.98
36018	60.74	-0.55	4.00	768.34	182.20	368.57	199.79	147.50	19.56	4186.89	918.23	2014.62	203.81	689.14	22.27
36019	60.74	0.55	4.00	768.34	182.20	368.58	199.79	147.51	19.61	4186.84	918.26	2014.63	203.81	689.14	22.35
36020	60.80	1.65	4.00	760.91	182.45	365.87	192.79	146.95	17.54	4221.42	852.96	2045.42	205.04	757.83	17.04
36021	77.87	-1.65	3.00	63.79	26.28	128.79	3.75	243.47	216.13	321.69	44.01	218.23	13.10	75.54	216.13
36022	77.87	-0.55	3.00	63.97	26.16	126.13	1.31	243.81	216.96	323.72	43.92	216.58	4.41	75.61	216.96
36023	77.87	0.55	3.00	63.98	26.17	126.13	1.31	243.81	216.96	323.71	43.92	216.58	4.40	75.61	216.96
36024	77.87	1.65	3.00	63.79	26.28	128.78	3.74	243.47	216.13	321.69	44.00	218.24	13.09	75.54	216.13
36025	76.72	-1.65	3.00	70.93	26.62	130.93	4.25	240.98	210.12	363.12	47.21	218.47	15.09	82.96	210.12
36026	76.71	-0.55	3.00	71.27	26.53	128.29	1.98	241.31	210.89	365.65	47.10	216.80	5.24	83.08	210.89
36027	76.71	0.55	3.00	71.27	26.53	128.29	1.98	241.31	210.89	365.65	47.09	216.80	5.22	83.07	210.89
36028	76.72	1.65	3.00	70.94	26.62	130.92	4.25	240.97	210.13	363.13	47.21	218.49	15.07	82.95	210.13
36029	75.56	-1.65	3.00	79.28	27.63	136.29	5.20	236.67	204.01	411.93	49.90	216.67	17.27	90.32	204.01
36030	75.55	-0.55	3.00	79.76	27.57	133.78	3.31	236.99	204.71	415.02	49.71	214.96	6.43	90.45	204.71
36031	75.55	0.55	3.00	79.77	27.57	133.78	3.31	236.99	204.71	415.02	49.71	214.96	6.41	90.45	204.71
36032	75.56	1.65	3.00	79.29	27.63	136.28	5.21	236.67	204.01	411.93	49.90	216.69	17.25	90.31	204.01
36033	74.41	-1.65	3.00	89.03	29.39	144.21	6.13	230.56	197.84	469.32	51.68	212.53	19.43	97.62	197.84
36034	74.40	-0.55	3.00	89.64	29.37	141.90	4.39	230.84	198.48	473.01	51.33	210.74	7.57	97.76	198.48
36035	74.40	0.55	3.00	89.64	29.37	141.89	4.40	230.84	198.48	473.01	51.33	210.75	7.54	97.76	198.48
36036	74.41	1.65	3.00	89.03	29.39	144.19	6.14	230.56	197.84	469.33	51.68	212.54	19.40	97.62	197.85
3603															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
36065	65.18	-1.65	3.00	281.56	87.24	220.85	18.97	128.75	147.04	1516.80	167.53	184.87	18.73	104.48	150.26
36066	65.13	-0.55	3.00	282.18	87.58	219.76	20.78	128.26	147.22	1518.44	173.54	187.47	20.73	104.87	147.58
36067	65.13	0.55	3.00	282.18	87.57	219.76	20.78	128.26	147.22	1518.44	173.55	187.47	20.73	104.91	147.58
36068	65.18	1.65	3.00	281.55	87.24	220.84	18.99	128.76	147.05	1516.90	167.54	184.88	18.69	104.59	150.24
36069	64.02	-1.65	3.00	343.34	102.40	229.99	35.96	115.50	141.56	1803.13	245.84	329.30	36.37	61.44	147.30
36070	63.97	-0.55	3.00	342.77	103.48	228.88	39.18	115.22	141.62	1796.13	257.84	335.68	39.52	59.95	142.21
36071	63.97	0.55	3.00	342.77	103.48	228.88	39.17	115.23	141.62	1796.14	257.86	335.70	39.54	59.98	142.19
36072	64.02	1.65	3.00	343.34	102.39	229.99	35.96	115.51	141.58	1803.19	245.88	329.36	36.39	61.56	147.26
36073	62.87	-1.65	3.00	427.70	119.66	245.70	64.13	107.72	138.78	2163.46	341.89	605.29	70.61	58.31	146.10
36074	62.81	-0.55	3.00	423.24	123.16	244.50	70.07	109.03	138.05	2125.50	373.74	614.81	72.80	72.13	138.54
36075	62.81	0.55	3.00	423.24	123.16	244.50	70.06	109.04	138.06	2125.50	373.78	614.84	72.82	72.10	138.53
36076	62.87	1.65	3.00	427.70	119.66	245.71	64.10	107.74	138.81	2163.46	341.97	605.39	70.65	58.21	146.06
36077	61.71	-1.65	3.00	542.80	141.32	282.70	115.39	110.26	140.71	2593.99	467.84	1147.16	140.42	184.82	141.53
36078	61.65	-0.55	3.00	532.02	144.20	281.66	124.22	115.44	143.00	2478.36	522.39	1151.15	131.80	253.39	143.04
36079	61.65	0.55	3.00	532.02	144.21	281.66	124.20	115.44	143.03	2478.33	522.43	1151.16	131.80	253.38	143.07
36080	61.71	1.65	3.00	542.81	141.33	282.72	115.34	110.25	140.78	2593.91	467.97	1147.24	140.43	184.76	141.59
36081	60.56	-1.65	3.00	703.90	159.52	324.97	228.92	100.76	179.56	3101.88	542.33	1561.21	266.61	204.28	198.81
36082	60.50	-0.55	3.00	699.97	151.28	331.77	234.49	103.07	188.37	2910.64	554.81	1519.90	237.06	387.66	190.15
36083	60.50	0.55	3.00	699.97	151.28	331.77	234.48	103.07	188.42	2910.61	554.84	1519.91	237.06	387.66	190.20
36084	60.56	1.65	3.00	703.90	159.53	324.99	228.89	100.76	179.71	3101.76	542.45	1561.27	266.61	204.29	198.99
36085	79.02	2.50	4.00	59.68	27.58	124.01	6.45	227.73	209.16	300.63	46.77	205.66	17.65	73.68	209.17
36086	80.15	2.50	4.00	54.81	28.33	128.37	7.76	226.94	215.13	270.93	43.15	201.65	15.86	63.33	215.13
36087	81.28	2.50	4.00	50.78	29.52	135.41	9.88	224.53	220.75	245.55	39.67	196.28	15.12	53.78	220.74
36088	82.42	2.50	4.00	47.50	31.07	144.59	12.63	220.52	225.93	223.88	36.48	189.80	15.63	45.53	225.91
36089	83.55	2.50	4.00	44.90	32.94	155.33	15.82	214.97	230.62	205.38	33.71	182.54	17.33	39.66	230.58
36090	84.68	2.50	4.00	42.89	35.06	167.10	19.34	207.98	234.77	189.55	31.49	174.92	19.94	37.72	234.71
36091	85.81	2.50	4.00	41.34	37.42	179.45	23.08	199.64	238.40	175.87	29.94	167.57	23.16	40.72	238.33
36092	86.95	2.50	4.00	40.14	39.96	192.07	26.99	190.13	241.56	163.79	29.17	161.47	26.78	48.07	241.47
36093	88.08	2.50	4.00	39.15	42.68	204.75	31.04	179.62	244.32	152.68	29.26	158.15	30.68	58.30	244.21
36094	89.21	2.50	4.00	38.21	45.55	217.43	35.21	168.36	246.79	141.82	30.20	159.82	34.79	70.07	246.66
36095	90.35	2.50	4.00	37.16	48.55	230.21	39.50	156.59	249.07	130.40	31.91	169.16	39.08	82.38	248.93
36096	91.48	2.50	4.00	35.83	51.69	243.33	43.90	144.51	251.27	117.50	34.24	188.63	43.55	94.26	251.13
36097	92.61	2.50	4.00	34.04	54.97	257.11	48.38	132.18	253.43	102.23	36.98	219.52	48.15	104.46	253.30
36098	93.74	2.50	4.00	31.77	58.39	271.77	52.90	119.45	255.55	84.22	39.94	261.48	52.83	111.42	255.45
36099	94.88	2.50	4.00	29.19	62.02	287.12	57.36	105.94	257.47	63.75	42.91	312.35	57.47	113.44	257.44
36100	96.01	2.50	4.00	26.82	65.99	302.76	61.72	91.40	258.61	42.49	46.04	371.16	62.00	109.28	258.68
36101	97.01	3.10	4.00	59.64	27.72	127.20	7.62	227.41	208.00	298.21	46.80	207.82	21.55	73.59	208.01
36102	80.14	3.10	4.00	54.99	28.49	131.32	8.60	226.67	213.89	269.05	43.23	203.80	19.00	63.49	213.89
36103	81.27	3.10	4.00	51.18	29.70	138.04	10.42	224.32	219.44	244.11	39.83	198.43	17.45	54.27	219.42
36104	82.39	3.10	4.00	48.12	31.28	146.87	12.94	220.41	224.56	222.80	36.72	191.96	17.14	46.47	224.52
36105	83.52	3.10	4.00	45.73	33.16	157.27	15.97	214.99	229.20	204.59	34.03	184.70	18.13	41.11	229.14
36106	84.65	3.10	4.00	43.90	35.31	168.72	19.36	208.14	233.33	188.99	31.88	177.08	20.22	39.63	233.25
36107	85.78	3.10	4.00	42.52	37.68	180.80	23.02	199.99	236.96	175.49	30.39	169.72	23.11	42.84	236.85
36108	86.90	3.10	4.00	41.46	40.23	193.18	26.86	190.69	240.13	163.54	29.67	163.56	26.51	50.15	239.99
36109	88.03	3.10	4.00	40.60	42.95	205.69	30.86	180.43	242.92	152.53	29.76	160.12	30.28	60.22	242.76
36110	89.16	3.10	4.00	39.77	45.82	218.24	34.98	169.43	245.43	141.78	30.68	161.52	34.32	71.81	245.24
36111	90.28	3.10	4.00	38.84	48.83	230.92	39.23	157.94	247.75	130.47	32.32	170.42	38.58	83.96	247.54
36112	91.41	3.10	4.00	37.64	51.96	243.98	43.59	146.16	249.98	117.74	34.57	189.23	43.04	95.72	249.77
36113	92.54	3.10	4.00	36.02	55.23	257.72	48.02	134.15	252.17	102.73	37.21	219.28	47.66	105.85	251.97
36114	93.67	3.10	4.00	33.97	58.65	272.31	52.48	121.76	254.29	85.11	40.06	260.24	52.36	112.87	254.14
36115	94.79	3.10	4.00	31.65	62.25	287.55	56.90	108.67	256.25	65.22	42.95	310.03	57.06	115.12	256.20
36116	95.92	3.10	4.00	29.73	66.26	303.03	61.10	94.87	257.23	44.98	46.01	367.71	61.53	111.64	257.33
36117	79.02	2.50	3.00	57.70	26.73	133.85	5.92	243.72	220.68	284.41	40.78	218.54	17.19	68.06	220.68
36118	80.17	2.50	3.00	52.83	27.51	138.58	7.22	242.67	226.15	255.29	37.47	214.88	15.44	60.71	226.14
36119	81.32	2.50	3.00	48.84	28.73	146.33	9.43	239.88	231.27	230.82	34.41	209.84	14.77	53.56	231.26
36120	82.47	2.50	3.00	45.68	30.32	156.47	12.27	235.39	235.98	210.35	31.77	203.62	15.38	47.01	235.96
36121	83.62	2.50	3.00	43.27	32.23	168.33	15.55	229.24	240.23	193.34	29.70	196.48	17.18	41.87	240.19
36122	84.77	2.50	3.00	41.53	34.41	181.30	19.16	221.53	243.97	179.24	28.34	188.77	19.87	39.39	243.92
36123	85.92	2.50	3.00	40.34	36.83	194.85	23.01	212.36	247.23	167.54	27.82	181.02	23.20	40.86	247.16
36124	87.06	2.50	3.00	39.60	39.46	208.60	27.08	201.91	250.03	157.67	28.21	174.12	26.95	46.62	249.94
36125	88.21	2.50	3.00	39.16	42.27	222.28	31.33	190.40	252.44	148.99	29.49	169.58	31.03	55.95	252.33
36126	89.36	2.50	3.00	38.88	45.25	235.84	35.78	178.13	254.56	140.77	31.58	169.73	35.39	67.80	254.43
36127	90.51	2.50	3.00	38.59	48.37	249.38	40.42	165.46	256.51	132.09	34.37	177.71	40.02	81.24	256.36
36128	91.66	2.50	3.00	38.08	51.62	263.31	45.24	152.77	258.42	121.78	37.68	196.91	44.88	95.32	258.27
36129	92.81	2.50	3.00	36.98	54.98	278.31	50.15	140.32	260.41	108.40	41.30	229.89	49.89	108.68	260.26
36130	93.96	2.50	3.00	34.80	58.45	294.91	54.98	127.76	262.49	90.41	44.87	276.94	54.90	118.68	262.37
36131	95.11	2.50	3.00	31.86	62.08	313.13	59.58	114.35	264.50	68.79	48.29	336.00	59.72	122.65	264.44
36132	96.25	2.50	3.00	28.21	66.00	331.45	63.71	99.14	265.57	44.03	50.97	401.83	64.06	119.11	265.62
36133	79.02	3.10	3.00	57.68	26.92	137.23	7.11	243.27	219.45	282.21	40.91	220.79	21.05	68.04	219.45
36134	80.16	3.10	3.00	53.03	27.72	141.72	8.08	242.26	224.84	253.61	37.65	217.12	18.58	60.86	224.84

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
36163	69.95	2.50	4.00	145.59	45.52	170.88	8.79	174.05	158.44	814.96	47.85	159.43	35.87	193.83	159.20
36164	70.00	3.10	4.00	144.09	44.93	172.89	11.12	174.23	158.06	806.10	49.59	162.75	46.04	192.81	159.22
36165	68.82	2.50	4.00	167.17	52.37	179.53	8.50	160.41	151.90	940.49	44.41	139.98	32.97	217.95	153.13
36166	68.87	3.10	4.00	165.66	51.56	181.35	10.90	160.74	151.66	931.60	44.77	143.81	43.21	216.88	153.52
36167	67.69	2.50	4.00	193.68	61.04	187.51	8.59	145.73	145.00	1091.11	56.82	120.86	27.20	245.58	146.98
36168	67.74	3.10	4.00	192.20	60.11	189.20	10.66	146.22	144.91	1082.73	53.17	124.93	36.55	244.45	147.90
36169	66.56	2.50	4.00	227.01	71.90	194.89	10.89	130.42	137.45	1275.42	94.63	115.68	19.67	277.20	140.73
36170	66.62	3.10	4.00	225.52	71.06	196.47	11.70	131.07	137.55	1267.79	88.10	118.31	26.42	275.90	142.43
36171	65.42	2.50	4.00	270.43	85.10	202.09	17.85	115.19	128.79	1509.44	156.90	151.90	17.59	313.13	134.47
36172	65.49	3.10	4.00	268.74	84.74	203.61	16.84	115.97	129.09	1502.02	150.48	150.08	18.39	311.39	137.50
36173	64.29	2.50	4.00	329.86	100.59	210.37	31.42	101.44	118.18	1825.33	243.08	250.86	30.95	353.69	128.51
36174	64.36	3.10	4.00	327.71	100.90	211.83	28.89	102.22	118.66	1816.84	239.23	243.52	27.14	350.99	134.44
36175	63.16	2.50	4.00	415.78	118.78	223.13	54.94	92.15	103.64	2287.73	356.96	444.57	58.35	399.74	123.19
36176	63.23	3.10	4.00	413.01	119.35	224.48	51.16	92.60	104.28	2277.02	355.57	431.19	51.49	395.75	136.52
36177	62.02	2.50	4.00	544.77	143.33	259.17	97.68	92.88	78.79	3009.72	522.82	896.17	104.53	450.59	116.55
36178	62.11	3.10	4.00	541.01	143.04	259.99	92.49	92.94	79.93	2996.36	520.18	874.74	92.77	448.11	151.51
36179	60.89	2.50	4.00	749.96	183.47	362.22	188.49	144.54	17.48	4226.17	792.10	2053.95	189.21	803.77	74.36
36180	60.98	3.10	4.00	743.82	180.68	358.87	180.37	142.91	20.49	4206.59	777.56	2011.02	180.36	798.52	140.52
36181	77.88	2.50	3.00	63.56	26.46	132.51	5.69	243.00	214.94	318.90	44.16	220.61	19.69	75.44	214.94
36182	77.88	3.10	3.00	63.32	26.64	136.01	7.09	242.53	213.80	316.09	44.27	222.88	24.24	75.32	213.80
36183	76.73	2.50	3.00	70.49	26.77	134.62	6.26	240.51	209.03	359.64	47.39	220.89	22.66	82.79	209.03
36184	76.74	3.10	3.00	70.03	26.93	138.08	7.73	240.05	207.97	356.09	47.51	223.19	27.90	82.61	207.97
36185	75.58	2.50	3.00	78.63	27.74	139.81	7.16	236.23	203.01	407.65	50.18	219.15	25.85	90.12	203.01
36186	75.59	3.10	3.00	77.96	27.86	143.12	8.65	235.79	202.03	403.28	50.37	221.50	31.85	89.91	202.03
36187	74.43	2.50	3.00	88.19	29.43	147.46	8.08	230.17	196.93	464.21	52.17	215.09	29.05	97.43	196.94
36188	74.45	3.10	3.00	87.32	29.48	150.53	9.61	229.78	196.05	458.93	52.52	217.54	35.88	97.23	196.06
36189	73.28	2.50	3.00	99.41	31.91	156.80	8.85	222.34	190.83	530.83	52.87	208.38	32.00	104.69	190.86
36190	73.31	3.10	3.00	98.36	31.88	159.59	10.46	222.02	190.04	524.61	53.51	210.96	39.69	104.52	190.89
36191	72.13	2.50	3.00	112.68	35.30	167.11	9.37	212.79	184.72	609.35	51.75	198.57	34.30	111.80	184.80
36192	72.16	3.10	3.00	111.46	35.13	169.60	11.10	212.57	184.02	602.24	52.83	201.35	42.87	111.69	184.16
36193	70.98	2.50	3.00	128.45	39.74	177.71	9.54	201.60	178.57	702.03	48.49	185.16	35.42	118.51	178.77
36194	71.02	3.10	3.00	127.11	39.39	179.92	11.44	201.50	177.98	694.21	50.03	188.25	44.77	118.49	178.28
36195	69.84	2.50	3.00	147.37	45.45	188.07	9.25	188.91	172.36	811.62	44.05	167.73	34.68	124.36	172.79
36196	69.88	3.10	3.00	145.97	44.88	190.03	11.35	188.95	171.87	803.44	45.57	171.27	44.55	124.42	172.51
36197	68.69	2.50	3.00	170.33	52.75	197.78	8.44	174.92	166.05	941.55	44.25	146.78	31.41	128.46	166.92
36198	68.74	3.10	3.00	168.94	51.99	199.54	10.75	175.14	165.66	933.53	43.82	150.84	41.25	128.57	166.95
36199	67.54	2.50	3.00	198.59	62.02	206.62	7.63	159.98	159.61	1096.39	61.35	126.82	25.42	129.09	161.37
36200	67.59	3.10	3.00	197.24	61.18	208.24	9.84	160.38	159.31	1088.99	57.16	131.00	34.31	129.13	161.88
36201	66.39	2.50	3.00	234.12	73.53	214.64	9.37	144.58	153.09	1282.87	101.11	126.46	18.44	122.96	156.66
36202	66.45	3.10	3.00	232.70	72.93	216.18	10.23	145.19	152.84	1276.03	94.97	128.62	24.89	122.68	158.01
36203	65.24	2.50	3.00	280.26	87.15	222.40	17.10	129.52	146.74	1512.25	161.14	181.80	18.10	103.77	153.91
36204	65.31	3.10	3.00	278.46	87.21	223.92	15.88	130.36	146.43	1504.82	156.07	179.04	19.92	102.75	156.94
36205	64.09	2.50	3.00	342.65	102.10	231.54	32.39	116.22	141.22	1803.83	236.58	320.84	31.63	61.54	155.12
36206	64.16	3.10	3.00	340.17	102.78	233.09	29.78	117.27	140.74	1794.06	234.08	312.66	30.69	59.43	161.91
36207	62.94	2.50	3.00	429.74	117.46	247.47	58.61	107.41	138.32	2185.31	319.68	593.35	58.17	50.23	161.56
36208	63.02	3.10	3.00	426.71	118.23	248.96	55.32	108.57	137.30	2172.76	318.90	579.08	59.14	53.34	177.18
36209	61.79	2.50	3.00	550.32	136.44	283.20	105.18	105.64	144.39	2681.15	405.03	1123.79	105.67	137.36	163.86
36210	61.88	3.10	3.00	547.93	133.53	284.11	101.13	105.21	144.08	2672.18	392.59	1097.37	117.08	140.38	195.60
36211	60.65	2.50	3.00	726.76	159.52	322.56	202.63	99.35	156.13	3376.06	483.22	1616.60	209.05	55.89	158.92
36212	60.74	3.10	3.00	729.38	158.56	319.55	198.65	101.61	157.03	3386.32	474.51	1572.85	260.41	55.49	174.26
36213	95.75	3.97	4.00	34.03	66.53	303.56	60.33	100.50	255.76	48.85	46.04	361.26	61.00	115.37	255.93
36214	95.47	5.09	4.00	39.91	67.08	304.35	58.68	108.87	251.64	54.46	45.95	351.15	59.68	120.89	251.89
36215	95.12	6.19	4.00	46.04	67.60	305.30	56.78	118.35	246.71	60.73	45.84	339.23	58.11	127.11	247.03
36216	94.71	7.27	4.00	51.93	67.95	306.39	54.80	128.09	241.08	67.01	45.70	326.00	56.38	133.25	241.46
36217	94.63	3.96	4.00	35.62	62.67	288.33	55.99	113.42	253.90	67.79	42.98	305.67	56.24	118.01	253.81
36218	94.37	5.08	4.00	41.26	63.28	289.61	54.57	120.76	250.09	71.78	43.11	298.97	54.91	122.49	249.95
36219	94.05	6.19	4.00	47.05	63.87	291.19	52.90	128.98	245.30	76.25	43.23	291.21	53.28	127.39	245.09
36220	93.66	7.27	4.00	52.85	64.39	293.04	50.97	137.80	239.45	81.09	43.31	282.88	51.27	132.47	239.16
36221	93.52	3.96	4.00	37.57	59.07	273.28	51.69	125.83	251.98	86.70	40.25	257.90	51.48	115.33	251.74
36222	93.27	5.08	4.00	42.76	59.73	274.90	50.46	132.15	248.17	89.23	40.61	254.45	50.07	119.17	247.79
36223	92.97	6.18	4.00	48.21	60.40	276.93	48.98	139.35	243.43	92.17	41.02	250.66	48.31	123.42	242.88
36224	92.61	7.27	4.00	53.71	61.01	279.39	47.34	147.12	237.79	95.45	41.46	246.96	46.25	127.83	237.07
36225	92.40	3.96	4.00	39.30	55.67	258.82	47.34	137.63	249.84	103.61	37.58	218.81	46.73	108.22	249.53
36226	92.18	5.08	4.00	44.10	56.36	260.67	46.28	143.08	246.03	105.08	38.22	218.34	45.23	111.90	245.53
36227	91.90	6.18	4.00	49.20	57.09	263.04	45.04	149.33	241.32	106.82	38.96	218.19	43.39	115.96	240.60
36228	91.56	7.26	4.00	54.38	57.77	265.95	43.68	156.11	235.74	108.80	39.75	218.69	41.25	120.15	234.81
36229	91.28	3.96	4.00	40.66	52.41	245.18	43.00	149.10	247.62	118.16	35.11	190.34	42.09	98.18	247.28
36230	91.08	5.08	4.00	45.14	53.13	247.22	42.11	153.72	243.76	118.90	36.04	192.39	40.55	102.00	243.22
36231	90.82	6.18	4.00	49.94	53.91	249.85	41.09	159.06	239.02	119.79	37.10	195.26	38.66	106.19	238.24
36232	90.51	7.26	4.00	54.85	54.68	253.12	40.00	164.89	233.43	120.84	38.24	199.19			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
36261	82.36	3.95	4.00	49.21	31.64	150.92	13.52	220.19	222.09	220.83	37.14	195.85	19.40	48.02	222.03
36262	82.29	5.06	4.00	50.96	32.28	157.39	14.61	219.88	218.09	217.72	37.88	202.14	22.31	50.40	217.99
36263	82.21	6.16	4.00	53.06	33.09	165.17	16.08	219.50	213.21	213.92	38.82	209.87	24.94	53.00	213.07
36264	82.12	7.25	4.00	55.44	34.08	174.16	17.97	219.05	207.52	209.48	39.96	219.01	27.08	55.68	207.36
36265	81.24	3.95	4.00	51.90	30.03	142.68	11.38	223.94	217.07	241.48	40.10	202.30	20.77	55.09	217.04
36266	81.20	5.06	4.00	53.11	30.62	150.00	12.96	223.35	213.24	237.33	40.60	208.55	24.89	56.35	213.20
36267	81.14	6.16	4.00	54.60	31.39	158.70	14.91	222.63	208.56	232.26	41.27	216.23	28.54	57.72	208.50
36268	81.07	7.25	4.00	56.39	32.35	168.63	17.21	221.80	203.08	226.36	42.09	225.32	31.53	59.11	203.03
36269	80.12	3.95	4.00	55.32	28.79	136.48	9.98	226.16	211.66	265.61	43.36	207.66	23.34	63.73	211.65
36270	80.10	5.05	4.00	55.94	29.33	144.55	12.06	225.38	208.04	260.17	43.63	213.90	28.59	64.09	208.04
36271	80.06	6.15	4.00	56.77	30.05	154.05	14.43	224.42	203.59	253.54	44.01	221.56	33.20	64.42	203.61
36272	80.02	7.25	4.00	57.86	30.98	164.77	17.06	223.31	198.39	245.82	44.50	230.63	36.96	64.65	198.44
36273	79.01	3.95	4.00	59.56	27.99	132.74	9.40	226.83	205.92	293.79	46.80	211.68	26.84	73.39	205.94
36274	79.00	5.05	4.00	59.55	28.48	141.37	11.89	225.92	202.54	286.78	46.86	217.93	33.19	73.05	202.59
36275	78.99	6.15	4.00	59.67	29.15	151.43	14.57	224.81	198.38	278.23	46.95	225.61	38.76	72.54	198.47
36276	78.97	7.25	4.00	59.98	30.03	162.73	17.43	223.53	193.48	268.27	47.09	234.71	43.29	71.80	193.65
36277	96.00	3.96	3.00	35.22	66.67	332.62	62.26	107.54	262.98	50.29	50.73	391.78	63.11	124.32	263.11
36278	95.72	5.09	3.00	40.97	67.36	333.82	60.53	115.39	259.14	55.82	50.36	381.55	61.83	129.09	259.34
36279	95.38	6.19	3.00	47.00	68.04	335.30	58.53	124.38	254.54	61.99	49.94	369.51	60.28	134.54	254.80
36280	94.97	7.27	3.00	52.78	68.59	337.02	56.43	133.74	249.30	68.16	49.46	356.18	58.56	139.96	249.59
36281	94.86	3.96	3.00	37.93	62.91	314.69	58.17	121.28	261.15	72.52	48.12	329.45	58.47	126.40	261.01
36282	94.61	5.08	3.00	43.33	63.72	316.35	56.70	128.14	257.60	76.21	48.03	322.90	57.12	130.12	257.38
36283	94.29	6.19	3.00	48.93	64.55	318.41	54.97	135.89	253.13	80.37	47.91	315.34	55.45	134.21	252.80
36284	93.91	7.27	3.00	54.57	65.36	320.84	52.95	144.28	247.64	84.88	47.75	307.26	53.41	138.50	247.21
36285	93.73	3.96	3.00	40.20	59.34	296.75	53.77	133.77	259.12	92.50	45.02	273.89	53.53	122.00	258.82
36286	93.49	5.08	3.00	45.14	60.22	298.75	52.53	139.76	255.54	94.66	45.24	270.99	52.08	125.27	255.07
36287	93.20	6.18	3.00	50.36	61.19	301.26	51.03	146.62	251.08	97.17	45.51	267.89	50.29	128.90	250.41
36288	92.84	7.26	3.00	55.66	62.13	304.32	49.37	154.05	245.80	99.98	45.83	265.00	48.19	132.67	244.92
36289	92.60	3.96	3.00	41.91	55.91	280.27	49.15	145.53	256.97	109.46	41.80	229.91	48.47	112.17	256.61
36290	92.38	5.08	3.00	46.48	56.84	282.43	48.14	150.76	253.33	110.60	42.39	230.22	46.97	115.59	252.76
36291	92.10	6.18	3.00	51.37	57.89	285.19	46.95	156.77	248.86	111.96	43.10	231.02	45.13	119.36	248.04
36292	91.78	7.26	3.00	56.36	58.95	288.62	45.64	163.33	243.62	113.49	43.89	232.61	42.97	123.23	242.54
36293	91.47	3.96	3.00	42.71	52.56	265.33	44.43	157.15	254.86	122.29	38.50	199.42	43.47	99.25	254.48
36294	91.26	5.08	3.00	47.04	53.53	267.57	43.62	161.58	251.12	122.86	39.41	202.28	41.99	103.05	250.51
36295	91.01	6.18	3.00	51.70	54.64	270.48	42.70	166.72	246.55	123.55	40.51	206.13	40.15	107.23	245.68
36296	90.71	7.26	3.00	56.51	55.81	274.13	41.71	172.35	241.21	124.36	41.75	211.16	37.98	111.52	240.08
36297	90.34	3.96	3.00	42.99	49.31	251.52	39.75	168.99	252.80	132.28	35.44	182.02	38.68	85.64	252.44
36298	90.15	5.07	3.00	47.11	50.29	253.89	39.12	172.58	248.92	132.53	36.61	186.71	37.27	89.87	248.34
36299	89.92	6.18	3.00	51.60	51.44	256.98	38.44	176.78	244.20	132.83	38.02	192.68	35.52	94.49	243.37
36300	89.64	7.26	3.00	56.25	52.70	260.88	37.78	181.42	238.72	133.21	39.63	200.04	33.44	99.24	237.62
36301	89.20	3.96	3.00	43.03	46.18	238.21	35.24	180.83	250.70	140.75	32.85	175.17	34.20	72.66	250.38
36302	89.04	5.07	3.00	46.96	47.16	240.84	34.77	183.59	246.68	140.78	34.21	180.98	32.93	77.27	246.16
36303	88.83	6.17	3.00	51.27	48.34	244.24	34.31	186.84	241.81	140.82	35.85	188.22	31.35	82.29	241.05
36304	88.58	7.26	3.00	55.76	49.65	248.50	33.96	190.46	236.15	140.88	37.74	196.93	29.46	87.42	235.15
36305	88.07	3.96	3.00	43.05	43.19	225.05	30.92	192.32	248.46	148.78	30.88	175.62	30.07	61.19	248.18
36306	87.92	5.07	3.00	46.76	44.16	228.07	30.61	194.30	244.32	148.61	32.35	181.99	29.04	66.08	243.87
36307	87.73	6.17	3.00	50.85	45.34	231.94	30.38	196.65	239.29	148.39	34.15	189.86	27.75	71.35	238.64
36308	87.51	7.26	3.00	55.16	46.68	236.74	30.34	199.28	233.49	148.15	36.22	199.22	26.19	76.74	232.61
36309	86.94	3.96	3.00	43.18	40.35	211.91	26.81	203.13	245.95	157.23	29.64	180.41	26.36	52.02	245.73
36310	86.81	5.07	3.00	46.63	41.30	215.47	26.67	204.40	241.72	156.80	31.17	187.01	25.72	56.99	241.35
36311	86.64	6.17	3.00	50.47	42.47	219.98	26.70	205.91	236.59	156.29	33.02	195.12	24.88	62.31	236.05
36312	86.45	7.26	3.00	54.55	43.83	225.48	26.98	207.62	230.67	155.68	35.18	204.71	23.80	67.70	229.94
36313	85.81	3.96	3.00	43.57	37.69	198.85	22.93	212.96	243.11	166.78	29.22	187.37	23.20	45.99	242.93
36314	85.69	5.07	3.00	46.70	38.61	203.10	23.01	213.61	238.83	166.03	30.71	194.02	23.14	50.69	238.54
36315	85.55	6.17	3.00	50.23	39.76	208.40	23.31	214.38	233.64	165.11	32.55	202.17	22.95	55.69	233.22
36316	85.38	7.26	3.00	54.04	41.12	214.77	23.95	215.25	227.64	164.02	34.70	211.79	22.57	60.78	227.06
36317	84.68	3.96	3.00	44.32	35.23	186.12	19.31	221.60	239.85	178.05	29.63	195.12	20.78	43.68	239.72
36318	84.58	5.06	3.00	47.09	36.11	191.18	19.66	221.71	235.58	176.84	31.02	201.74	21.55	47.66	235.36
36319	84.46	6.16	3.00	50.25	37.24	197.40	20.29	221.84	230.39	175.37	32.74	209.86	22.23	51.94	230.07
36320	84.31	7.26	3.00	53.71	38.59	204.76	21.33	221.99	224.38	173.64	34.80	219.42	22.72	56.32	223.94
36321	83.54	3.95	3.00	45.58	32.99	174.09	16.03	228.88	236.16	191.55	30.81	202.80	19.38	44.96	236.07
36322	83.46	5.06	3.00	47.91	33.84	180.04	16.71	228.54	231.93	189.74	32.04	209.38	21.21	47.91	231.79
36323	83.37	6.16	3.00	50.63	34.93	187.27	17.74	228.13	226.80	187.53	33.59	217.43	22.92	51.14	226.58
36324	83.25	7.25	3.00	53.67	36.26	195.70	19.21	227.66	220.84	184.96	35.47	226.91	24.34	54.49	220.54
36325	82.41	3.95	3.00	47.45	31.03	163.22	13.18	234.68	232.02	207.80	32.68	209.90	19.26	48.95	231.96
36326	82.35	5.06	3.00	49.28	31.83	170.11	14.28	233.98	227.89	205.20	33.71	216.44	22.27	50.84	227.80
36327	82.27	6.16	3.00	51.48	32.88	178.37	15.77	233.13	222.87	202.04	35.04	224.43	25.03	52.93	222.73
36328	82.18	7.25	3.00	54.02	34.19	187.89	17.68	232.16	217.03	198.36	36.68	233.84	27.33	55.11	216.84
36329	81.28	3.95	3.00	50.03	29.39	154.07	10.94	238.91	227.45	227.29	35.12	216.10	20.49	54.58	227.42
36330	81.24	5.06	3.00	51.31	30.14	161.87	12.53	237.93	223.47	223.69	35.93	222.59	24.66	55.57	223.42
36331	81.18	6.16	3.00	52.92	31.14	171.11	14.49	236.74	218.62						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
36359	73.61	6.16	4.00	89.17	32.70	167.73	20.18	205.01	170.84	477.56	60.23	220.22	78.51	129.42	172.03
36360	73.73	7.26	4.00	84.20	33.18	178.04	23.86	204.44	167.83	446.50	59.01	230.58	89.05	125.41	169.57
36361	72.31	3.96	4.00	109.00	35.40	159.32	13.61	197.03	169.40	597.45	59.85	195.61	56.49	151.46	170.12
36362	72.41	5.06	4.00	104.81	35.13	166.37	17.66	196.87	167.63	572.74	61.14	203.27	73.07	148.61	168.85
36363	72.53	6.16	4.00	99.40	35.10	174.81	21.78	196.72	165.42	540.80	61.38	212.59	88.59	144.88	167.29
36364	72.68	7.26	4.00	92.94	35.41	184.53	25.80	196.60	162.80	502.33	60.26	223.54	101.55	140.22	165.48
36365	71.20	3.96	4.00	123.46	39.16	167.96	14.29	186.52	163.40	684.11	57.47	183.81	60.31	169.85	164.58
36366	71.31	5.07	4.00	118.52	38.49	174.43	18.81	186.73	161.91	655.15	60.11	192.18	79.89	166.65	163.87
36367	71.46	6.17	4.00	111.90	38.10	182.28	23.47	187.05	160.05	616.55	61.43	202.25	98.96	162.39	163.00
36368	71.63	7.26	4.00	103.72	38.17	191.43	27.98	187.49	157.83	568.96	60.74	214.00	115.31	156.99	161.95
36369	70.08	3.96	4.00	140.96	43.97	176.52	14.70	174.59	157.37	787.62	52.60	168.68	62.09	190.77	159.25
36370	70.21	5.07	4.00	135.32	42.72	182.47	19.80	175.23	156.20	754.53	56.92	178.03	85.18	187.25	159.29
36371	70.38	6.17	4.00	127.39	41.80	189.81	25.20	176.10	154.71	708.49	59.97	189.11	109.00	182.44	159.28
36372	70.58	7.26	4.00	117.16	41.48	198.49	30.45	177.19	152.90	649.69	60.27	201.89	130.26	176.19	159.18
36373	68.96	3.96	4.00	162.36	50.16	184.88	14.75	161.39	151.20	912.23	46.63	150.60	60.48	214.73	154.18
36374	69.12	5.07	4.00	156.16	48.15	190.22	20.48	162.51	150.40	875.76	51.43	161.17	87.36	210.97	155.20
36375	69.31	6.17	4.00	146.89	46.40	197.16	26.83	163.98	149.33	821.89	56.55	173.50	117.46	205.67	156.32
36376	69.53	7.26	4.00	134.26	45.47	205.50	33.19	165.81	147.97	749.48	58.60	187.50	146.02	198.45	157.42
36377	67.85	3.96	4.00	188.88	58.28	192.30	14.42	147.18	144.75	1063.65	48.38	132.23	53.90	242.23	149.43
36378	68.02	5.07	4.00	182.37	55.36	197.51	20.62	148.79	144.40	1025.55	46.72	143.68	84.06	238.39	151.75
36379	68.23	6.17	4.00	171.92	52.38	204.17	28.12	150.88	143.83	964.56	51.24	157.08	122.08	232.80	154.33
36380	68.48	7.26	4.00	156.50	50.39	212.33	36.13	153.48	142.97	876.03	55.50	172.21	161.58	224.65	157.00
36381	66.73	3.96	4.00	222.23	69.14	199.42	14.25	132.34	137.73	1250.06	75.80	123.55	41.37	273.53	145.18
36382	66.92	5.08	4.00	215.77	65.41	204.39	20.07	134.43	137.95	1213.16	58.19	132.93	72.14	269.80	149.17
36383	67.16	6.18	4.00	204.66	60.70	210.87	28.63	137.11	138.04	1148.10	48.78	145.25	118.70	264.50	153.54
36384	67.44	7.26	4.00	186.30	56.80	218.99	39.03	140.46	137.79	1041.95	51.43	160.13	174.60	255.85	158.22
36385	65.62	3.96	4.00	265.20	83.51	206.44	16.42	117.49	129.65	1485.05	136.57	147.89	25.31	308.34	142.11
36386	65.82	5.08	4.00	258.91	79.95	211.23	19.46	120.00	130.56	1451.80	108.19	147.63	49.29	304.64	148.13
36387	66.08	6.18	4.00	248.18	73.34	217.54	27.81	123.18	131.57	1389.52	71.49	152.03	100.29	300.76	154.36
36388	66.39	7.26	4.00	227.55	66.05	225.66	41.21	127.14	132.21	1268.60	51.66	161.72	179.21	293.11	161.40
36389	64.50	3.96	4.00	323.06	101.36	214.51	25.20	103.75	119.53	1796.08	231.39	230.59	22.14	345.32	142.53
36390	64.72	5.08	4.00	316.07	100.44	219.07	22.31	106.42	121.11	1763.58	207.47	214.58	22.21	340.18	150.87
36391	65.00	6.18	4.00	306.68	94.05	225.13	26.21	109.93	123.36	1712.99	152.42	202.73	60.58	339.38	158.09
36392	65.34	7.26	4.00	286.35	81.83	233.08	41.23	114.31	125.62	1591.08	83.39	197.88	162.10	336.60	167.10
36393	63.38	3.96	4.00	406.33	121.43	226.89	45.09	93.32	105.32	2243.91	360.47	405.42	43.03	382.95	153.41
36394	63.63	5.08	4.00	396.44	125.20	230.92	36.36	95.14	107.27	2197.81	359.30	369.33	32.39	370.68	164.78
36395	63.93	6.18	4.00	387.23	125.45	236.49	30.33	98.68	110.66	2158.48	316.58	337.34	20.07	374.68	169.26
36396	64.29	7.27	4.00	371.10	113.64	243.98	39.22	103.41	115.43	2062.09	208.83	310.66	107.71	384.26	179.05
36397	62.27	3.96	4.00	532.27	143.96	259.82	83.47	91.08	81.48	2938.75	533.79	816.75	82.05	417.94	189.40
36398	62.53	5.08	4.00	519.10	148.36	260.69	70.29	89.80	84.22	2863.15	556.06	740.72	67.32	389.66	204.55
36399	62.85	6.19	4.00	506.28	157.44	263.73	56.29	92.15	87.73	2814.80	548.32	676.91	54.10	401.43	200.02
36400	63.24	7.27	4.00	495.62	165.39	269.30	49.83	98.07	94.09	2765.26	481.36	621.02	54.36	440.18	205.46
36401	61.15	3.97	4.00	738.49	171.49	352.51	162.47	141.45	26.90	4147.99	790.38	1891.10	172.40	747.78	203.64
36402	61.43	5.09	4.00	725.46	163.61	342.42	143.25	137.99	35.36	4042.01	805.45	1730.31	149.29	684.74	209.26
36403	61.78	6.19	4.00	707.83	166.48	331.93	123.79	135.45	41.43	3962.53	786.26	1593.47	118.26	685.22	186.68
36404	62.19	7.27	4.00	697.79	188.11	322.30	110.28	136.15	45.99	3925.94	754.99	1455.00	132.39	736.76	187.79
36405	77.88	3.95	3.00	62.89	26.97	142.07	9.12	241.67	211.74	310.90	44.40	226.93	30.41	75.04	211.74
36406	77.89	5.05	3.00	62.32	27.59	151.48	11.85	240.32	208.39	302.67	44.66	233.48	37.86	74.57	208.39
36407	77.90	6.15	3.00	61.77	28.45	162.42	14.71	238.68	204.27	292.58	44.96	241.52	44.45	73.88	204.29
36408	77.92	7.25	3.00	61.37	29.62	174.65	17.71	236.78	199.43	280.85	45.35	251.04	49.89	72.91	199.47
36409	76.75	3.95	3.00	69.20	27.22	144.11	9.87	239.19	206.06	349.53	47.62	227.31	35.08	82.22	206.06
36410	76.78	5.05	3.00	67.96	27.78	153.47	12.74	237.85	202.95	339.05	47.79	233.98	43.80	81.56	202.97
36411	76.81	6.15	3.00	66.59	28.59	164.36	15.74	236.23	199.13	326.15	47.90	242.16	51.52	80.63	199.17
36412	76.85	7.25	3.00	65.23	29.70	176.52	18.85	234.37	194.63	311.13	47.97	251.83	57.88	79.36	194.72
36413	75.62	3.95	3.00	76.72	28.09	148.90	10.86	234.99	200.28	395.11	50.56	225.73	40.15	89.48	200.29
36414	75.66	5.06	3.00	74.81	28.57	157.92	13.87	233.74	197.43	381.96	50.76	232.57	50.33	88.73	197.46
36415	75.72	6.16	3.00	72.55	29.30	168.47	17.01	232.23	193.92	365.68	50.75	240.95	59.42	87.69	193.99
36416	75.78	7.25	3.00	70.14	30.35	180.28	20.23	230.51	189.79	346.63	50.54	250.87	66.90	86.28	189.94
36417	74.49	3.95	3.00	85.67	29.63	155.91	11.92	229.07	194.46	448.94	52.93	221.92	45.44	96.81	194.49
36418	74.55	5.06	3.00	83.05	29.99	164.39	15.11	227.98	191.87	432.70	53.34	229.02	57.36	96.08	191.94
36419	74.63	6.16	3.00	79.85	30.60	174.36	18.44	226.67	188.69	412.34	53.36	237.71	68.13	95.06	188.83
36420	74.72	7.25	3.00	76.26	31.56	185.61	21.83	225.19	184.94	388.35	52.95	247.96	77.04	93.64	185.21
36421	73.36	3.95	3.00	96.31	31.88	164.50	12.93	221.46	188.62	512.64	54.35	215.58	50.68	104.18	188.71
36422	73.44	5.06	3.00	92.97	32.04	172.31	16.38	220.59	186.30	492.87	55.26	223.06	64.69	103.57	186.47
36423	73.53	6.16	3.00	88.75	32.49	181.58	19.98	219.58	183.46	467.69	55.54	232.18	77.60	102.68	183.76
36424	73.65	7.25	3.00	83.85	33.32	192.14	23.62	218.45	180.12	437.64	55.06	242.90	88.38	101.41	180.62
36425	72.22	3.96	3.00	109.04	34.92	174.02	13.79	212.19	182.78	588.25	54.35	206.34	55.43	111.48	183.00
36426	72.32	5.06	3.00	104.96	34.79	181.12	17.61	211.62	180.75	564.60	56.15	214.36	71.97	111.09	181.12
36427	72.44	6.16	3.00	99.63	34.98	189.66	21.62	210.98	178.26	533.76	57.05	224.08	87.67	110.50	178.86
36428	72.59	7.26	3.00	93.21	35.63	199.49	25.62	210.31	175.34	496.30					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
36457	63.17	3.96	3.00	416.32	122.12	251.38	50.50	111.82	135.66	2121.98	333.31	550.06	67.33	66.39	196.48
36458	63.41	5.08	3.00	401.71	130.45	255.69	41.59	116.82	132.66	2059.00	355.33	508.94	54.12	76.01	206.85
36459	63.70	6.18	3.00	393.88	136.21	261.40	29.85	121.38	130.68	2042.23	337.04	464.63	30.15	59.20	203.46
36460	64.06	7.26	3.00	389.27	126.01	268.81	33.53	125.09	132.66	2023.53	237.95	415.75	91.27	44.52	200.11
36461	62.04	3.96	3.00	532.70	136.94	285.18	97.90	110.88	137.84	2569.20	431.88	1045.85	161.24	187.88	235.62
36462	62.29	5.08	3.00	508.39	145.38	285.57	87.80	119.16	134.36	2436.40	483.84	959.40	142.59	240.43	242.21
36463	62.61	6.19	3.00	492.99	159.02	287.31	68.70	124.65	127.72	2408.73	507.58	873.58	84.71	213.64	219.89
36464	62.99	7.27	3.00	498.50	178.37	291.82	50.30	130.61	120.54	2497.12	491.89	794.10	69.45	112.31	208.02
36465	60.90	3.96	3.00	698.30	152.67	317.10	202.91	108.38	176.64	3118.28	504.80	1428.31	330.40	214.80	209.11
36466	61.18	5.09	3.00	672.62	134.95	313.52	180.00	114.25	173.33	2918.00	491.06	1281.70	252.23	376.40	183.58
36467	61.52	6.19	3.00	655.23	136.53	299.46	158.51	118.23	160.30	2901.68	495.17	1160.32	215.30	362.17	160.05
36468	61.93	7.27	3.00	652.89	168.95	291.43	132.02	130.09	138.80	3064.55	558.20	1079.68	169.32	191.17	138.33
36469	94.34	8.10	4.00	56.63	68.11	307.29	52.79	136.08	234.99	72.25	45.30	315.21	54.49	138.17	235.40
36470	94.04	8.70	4.00	60.22	68.13	308.08	51.42	142.45	230.65	76.44	45.12	307.23	53.18	142.09	231.04
36471	93.32	8.10	4.00	57.45	64.74	294.73	49.39	145.06	234.30	85.15	43.45	276.43	49.57	136.56	233.93
36472	93.04	8.70	4.00	60.63	64.80	296.10	48.39	150.36	230.37	88.09	43.53	271.81	48.37	139.35	229.94
36473	92.29	8.10	4.00	58.01	61.39	281.64	46.09	153.49	232.81	98.21	41.84	244.50	44.54	131.29	231.96
36474	92.03	8.70	4.00	61.01	61.54	283.44	45.17	158.14	228.80	100.20	42.02	242.99	43.16	133.68	227.87
36475	91.27	8.10	4.00	58.45	58.24	268.63	42.62	161.70	230.80	110.53	40.38	219.80	39.40	123.43	229.70
36476	91.02	8.70	4.00	61.36	58.46	270.76	41.81	165.86	226.86	111.97	40.74	221.07	37.87	125.62	225.66
36477	90.24	8.10	4.00	58.75	55.25	256.16	39.19	169.72	228.49	121.84	39.17	203.16	34.52	113.85	227.29
36478	90.02	8.70	4.00	61.51	55.58	258.61	38.62	173.29	224.56	122.67	39.80	206.62	33.02	116.12	223.24
36479	89.22	8.10	4.00	58.82	52.37	244.37	35.86	177.52	225.94	131.99	38.17	194.23	30.14	103.40	224.75
36480	89.01	8.70	4.00	61.46	52.76	247.12	35.53	180.53	222.00	132.33	38.98	199.21	28.64	105.83	220.69
36481	88.19	8.10	4.00	58.69	49.55	233.27	32.67	185.11	223.20	141.35	37.42	191.68	26.37	92.83	222.10
36482	88.01	8.70	4.00	61.25	50.02	236.34	32.59	187.54	219.26	141.38	38.40	197.57	24.94	95.44	218.04
36483	87.16	8.10	4.00	58.42	46.81	222.81	29.67	192.36	220.30	150.39	37.02	193.73	23.39	82.74	219.33
36484	87.00	8.70	4.00	60.83	47.32	226.24	29.84	194.23	216.34	150.07	38.09	200.09	22.11	85.51	215.26
36485	86.14	8.10	4.00	58.06	44.16	212.97	26.90	199.13	217.22	159.55	37.00	198.73	21.45	73.68	216.40
36486	85.99	8.70	4.00	60.34	44.72	216.82	27.32	200.47	213.23	158.88	38.10	205.26	20.43	76.53	212.34
36487	85.11	8.10	4.00	57.70	41.62	203.81	24.43	205.29	213.92	169.29	37.39	205.36	20.88	66.19	213.27
36488	84.99	8.70	4.00	59.84	42.22	208.14	25.11	206.14	209.95	168.23	38.48	211.91	20.24	68.98	209.24
36489	84.09	8.10	4.00	57.43	39.22	195.45	22.37	210.68	210.40	180.00	38.21	212.68	21.89	60.80	209.91
36490	83.98	8.70	4.00	59.40	39.85	200.31	23.30	211.09	206.46	178.46	39.23	219.17	21.71	63.34	205.94
36491	83.06	8.10	4.00	57.33	36.99	188.08	20.77	215.18	206.62	192.03	39.42	220.05	24.45	57.94	206.30
36492	82.98	8.70	4.00	59.09	37.64	193.48	21.95	215.22	202.76	189.90	40.34	226.45	24.70	60.02	202.42
36493	82.04	8.10	4.00	57.48	34.97	181.88	19.73	218.68	202.60	205.70	40.99	227.03	28.32	57.79	202.43
36494	81.97	8.70	4.00	59.00	35.64	187.80	21.12	218.40	198.84	202.83	41.76	233.34	28.94	59.23	198.68
36495	81.01	8.10	4.00	57.98	33.24	177.06	19.24	221.10	198.34	221.34	42.87	233.28	33.29	60.21	198.31
36496	80.96	8.70	4.00	59.20	33.92	183.46	20.80	220.58	194.72	217.53	43.46	239.53	34.20	60.93	194.73
36497	79.99	8.10	4.00	58.93	31.85	173.78	19.29	222.38	193.87	239.26	44.99	238.57	39.20	64.79	193.98
36498	79.96	8.70	4.00	59.79	32.53	180.57	20.95	221.67	190.42	234.31	45.37	244.78	40.36	64.81	190.60
36499	78.96	8.10	4.00	60.43	30.88	172.16	19.80	222.45	189.22	259.82	47.27	242.68	45.99	71.10	189.49
36500	78.95	8.70	4.00	60.87	31.54	179.22	21.52	221.64	185.99	253.45	47.41	248.90	47.36	70.50	186.35
36501	94.61	8.10	3.00	57.39	68.93	338.51	54.32	141.49	243.51	73.28	48.80	345.34	56.67	144.36	243.82
36502	94.32	8.70	3.00	60.88	69.12	339.80	52.85	147.73	239.35	77.33	48.42	337.35	55.35	147.94	239.65
36503	93.57	8.10	3.00	59.04	65.97	323.07	51.31	151.24	242.79	88.66	47.74	301.05	51.67	141.98	242.27
36504	93.29	8.70	3.00	62.11	66.26	324.88	50.27	156.37	239.12	91.38	47.74	296.62	50.44	144.39	238.53
36505	92.53	8.10	3.00	59.81	62.82	307.13	48.09	160.18	241.15	102.35	46.15	263.24	46.45	135.64	240.12
36506	92.27	8.70	3.00	62.69	63.19	309.40	47.14	164.68	237.40	104.03	46.28	262.26	45.02	137.69	236.27
36507	91.48	8.10	3.00	60.29	59.76	291.79	44.61	168.75	238.99	114.85	44.57	234.65	41.09	126.26	237.72
36508	91.25	8.70	3.00	63.11	60.24	294.36	43.80	172.81	235.32	116.01	44.98	236.66	39.52	128.27	233.92
36509	90.44	8.10	3.00	60.32	56.76	277.54	40.97	177.04	236.55	125.14	42.82	216.06	36.07	114.85	235.20
36510	90.22	8.70	3.00	63.03	57.38	280.33	40.45	180.53	232.86	125.79	43.56	220.24	34.56	117.10	231.36
36511	89.40	8.10	3.00	59.97	53.76	264.53	37.35	185.30	233.94	133.60	41.03	206.81	31.61	102.92	232.63
36512	89.20	8.70	3.00	62.60	54.47	267.53	37.08	188.20	230.19	133.89	42.02	212.38	30.15	105.43	228.73
36513	88.36	8.10	3.00	59.36	50.78	252.48	33.84	193.51	231.25	140.97	39.39	204.75	27.80	91.40	230.05
36514	88.17	8.70	3.00	61.95	51.57	255.73	33.84	195.80	227.45	141.08	40.60	211.08	26.47	94.13	226.10
36515	87.31	8.10	3.00	58.63	47.85	241.16	30.53	201.51	228.47	147.98	38.03	207.53	24.79	80.90	227.41
36516	87.15	8.70	3.00	61.10	48.70	244.75	30.78	203.19	224.60	147.85	39.37	214.19	23.66	83.76	223.41
36517	86.27	8.10	3.00	57.85	45.04	230.48	27.48	209.08	225.56	155.19	37.08	213.18	22.80	71.87	224.67
36518	86.13	8.70	3.00	60.21	45.92	234.49	27.97	210.19	221.62	154.80	38.49	219.92	21.95	74.72	220.63
36519	85.23	8.10	3.00	57.14	42.35	220.47	24.76	216.01	222.48	163.11	36.60	220.25	22.10	64.70	221.77
36520	85.10	8.70	3.00	59.37	43.26	224.98	25.50	216.60	218.52	162.41	38.04	226.96	21.64	67.39	217.72
36521	84.18	8.10	3.00	56.57	39.82	211.25	22.47	222.13	219.20	172.18	36.64	227.80	22.89	59.73	218.67
36522	84.08	8.70	3.00	58.65	40.76	216.32	23.45	222.25	215.25	171.06	38.04	234.42	22.87	62.07	214.64
36523	83.14	8.10	3.00	56.23	37.50	203.03	20.69	227.28	215.71	182.78	37.18	235.21	25.16	57.13	215.33
36524	83.06	8.70	3.00	58.12	38.45	208.69	21.90	227.01	211.80	181.12	38.50	241.74	25.54	58.95	211.37
36525	82.10	8.10	3.00	56.21	35.42	196.04	19.48	231.35	212.00	195.24	38.21	242.07	28.73	56.86	211.75
36526	82.03	8.70	3.00	57.86	36.39	202.28	20.90	230.74	208.16	192.89	39.40	248.52	29.47	58.05	207.89
36527	81.06														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
36555	66.66	8.10	4.00	202.50	62.43	233.32	52.96	130.82	132.32	1125.39	50.82	172.30	243.49	282.63	167.18
36556	66.88	8.70	4.00	178.89	62.37	239.58	59.23	133.87	132.21	994.54	49.33	181.32	274.26	271.25	170.70
36557	65.63	8.10	4.00	255.87	72.74	240.82	59.59	118.37	126.67	1412.16	56.14	199.59	270.94	327.62	175.72
36558	65.88	8.70	4.00	221.50	71.35	247.42	70.57	121.81	127.04	1220.01	54.76	203.87	330.11	313.56	181.37
36559	64.61	8.10	4.00	339.08	94.19	250.91	64.25	107.55	119.60	1862.08	104.12	289.65	277.63	382.70	189.45
36560	64.87	8.70	4.00	290.31	85.82	257.31	85.73	110.93	120.84	1580.46	78.95	279.62	399.10	368.07	197.66
36561	63.58	8.10	4.00	471.72	155.68	275.56	71.23	102.83	102.08	2591.47	346.71	569.16	264.22	458.66	233.79
36562	63.86	8.70	4.00	407.00	131.09	279.46	106.86	104.77	112.88	2190.19	229.23	508.52	485.38	441.77	232.80
36563	62.56	8.10	4.00	706.91	226.24	317.48	115.81	137.60	52.88	3913.35	769.83	1324.10	315.74	769.57	249.43
36564	62.86	8.70	4.00	653.30	257.42	324.58	183.25	132.86	64.20	3451.11	810.40	1206.58	822.32	747.14	380.57
36565	77.93	8.10	3.00	61.24	30.77	184.82	20.17	235.17	195.23	270.90	45.78	259.35	53.16	71.96	195.31
36566	77.94	8.70	3.00	61.29	31.72	192.39	21.95	233.97	192.03	263.40	46.16	265.82	54.86	71.13	192.17
36567	76.89	8.10	3.00	64.29	30.81	186.64	21.36	232.80	190.73	298.35	48.07	260.28	61.69	78.12	190.89
36568	76.91	8.70	3.00	63.75	31.73	194.19	23.17	231.63	187.76	288.72	48.19	266.87	63.63	77.06	187.99
36569	75.84	8.10	3.00	68.29	31.41	190.15	22.81	229.06	186.20	330.36	50.32	259.53	71.35	84.89	186.46
36570	75.89	8.70	3.00	67.07	32.29	197.53	24.64	227.99	183.47	318.08	50.16	266.31	73.57	83.69	183.84
36571	74.80	8.10	3.00	73.38	32.56	195.07	24.49	223.97	181.69	367.77	52.42	256.93	82.29	92.22	182.12
36572	74.87	8.70	3.00	71.36	33.40	202.19	26.36	223.07	179.21	352.19	51.97	263.97	84.87	90.97	179.80
36573	73.76	8.10	3.00	79.76	34.26	201.11	26.42	217.53	177.21	411.69	54.24	252.28	94.73	100.09	177.95
36574	73.84	8.70	3.00	76.81	35.06	207.90	28.35	216.88	175.01	391.95	53.49	259.68	97.77	98.87	175.96
36575	72.72	8.10	3.00	87.71	36.48	207.94	28.65	209.79	172.81	463.59	55.67	245.38	108.89	108.48	174.08
36576	72.82	8.70	3.00	83.63	37.25	214.39	30.67	209.46	170.88	438.57	54.62	253.22	112.60	107.40	172.46
36577	71.67	8.10	3.00	97.65	39.24	215.25	31.23	200.82	168.50	525.54	56.61	236.03	125.06	117.34	170.65
36578	71.80	8.70	3.00	92.16	39.97	221.40	33.39	200.87	166.86	493.69	55.25	244.44	129.77	116.53	169.44
36579	70.63	8.10	3.00	110.19	42.54	222.78	34.26	190.72	164.28	600.51	56.94	224.12	143.57	126.52	167.86
36580	70.77	8.70	3.00	102.91	43.25	228.68	36.67	191.22	162.96	559.64	55.30	233.24	149.84	126.21	167.11
36581	69.59	8.10	3.00	126.31	46.43	230.32	37.87	179.65	160.18	692.98	56.68	209.89	164.82	135.63	165.95
36582	69.75	8.70	3.00	116.63	47.13	236.10	40.68	180.64	159.20	639.86	54.72	219.83	173.61	136.20	165.73
36583	68.54	8.10	3.00	147.57	51.07	237.78	42.17	167.80	156.19	810.04	55.82	194.52	188.95	143.84	165.28
36584	68.73	8.70	3.00	134.53	51.66	243.55	45.75	169.33	155.60	739.64	53.83	205.27	202.30	145.97	165.62
36585	67.50	8.10	3.00	176.51	56.82	245.20	47.28	155.52	152.32	963.10	54.50	182.03	215.83	149.25	166.27
36586	67.70	8.70	3.00	158.71	57.30	251.13	52.22	157.55	152.16	868.01	52.65	192.94	237.08	154.42	167.20
36587	66.46	8.10	3.00	217.50	64.24	252.90	53.22	143.37	148.55	1171.86	54.18	183.92	244.36	147.29	169.51
36588	66.68	8.70	3.00	192.65	64.34	259.11	60.92	145.77	149.00	1040.15	52.96	192.29	281.11	158.77	170.73
36589	65.42	8.10	3.00	278.18	75.54	261.89	58.94	132.67	144.57	1469.85	60.28	227.67	266.41	128.02	176.58
36590	65.65	8.70	3.00	242.65	73.62	268.19	72.96	134.92	146.18	1282.89	58.15	225.21	337.35	152.47	177.05
36591	64.37	8.10	3.00	369.02	101.41	275.36	60.83	127.31	138.60	1900.27	118.30	370.11	260.47	80.38	195.81
36592	64.63	8.70	3.00	322.60	89.33	280.95	88.56	127.93	143.23	1652.07	82.41	337.47	402.01	123.97	189.75
36593	63.33	8.10	3.00	501.97	177.28	297.94	66.88	136.20	124.29	2505.95	392.88	717.96	239.82	63.94	231.01
36594	63.61	8.70	3.00	453.33	145.56	302.35	110.21	134.40	137.53	2225.71	258.77	630.38	481.09	95.13	233.42
36595	62.29	8.10	3.00	709.03	226.28	302.66	113.98	155.66	110.39	3412.09	659.17	1072.53	270.52	101.83	126.97
36596	62.58	8.70	3.00	724.88	287.24	329.04	191.92	179.51	117.31	3354.65	814.50	1082.56	763.56	187.33	231.58
36597	60.89	-2.50	4.00	749.97	183.47	362.16	188.49	144.50	17.40	4226.37	791.99	2053.78	189.21	803.73	74.61
36598	60.98	-3.10	4.00	743.82	180.69	358.78	180.37	142.86	20.45	4206.81	777.48	2010.72	180.39	798.39	140.85
36599	62.02	-2.50	4.00	544.76	143.33	259.10	97.70	92.85	78.73	3009.79	522.74	895.93	104.50	450.46	116.72
36600	62.11	-3.10	4.00	540.99	143.04	259.90	92.50	92.89	79.89	2996.39	520.13	874.39	92.76	447.89	151.76
36601	63.16	-2.50	4.00	415.77	118.78	223.09	54.94	92.11	103.62	2287.70	356.93	444.39	58.30	399.57	123.30
36602	63.23	-3.10	4.00	413.00	119.35	224.43	51.15	92.55	104.26	2276.95	355.55	430.95	51.45	395.51	136.66
36603	64.29	-2.50	4.00	329.86	100.59	210.36	31.40	101.41	118.17	1825.24	243.08	250.76	30.92	353.52	128.57
36604	64.36	-3.10	4.00	327.71	100.90	211.81	28.86	102.18	118.65	1816.71	239.23	243.39	27.13	350.77	134.51
36605	65.42	-2.50	4.00	270.44	85.10	202.09	17.82	115.17	128.79	1509.32	156.91	151.87	17.65	312.98	134.49
36606	65.49	-3.10	4.00	268.75	84.73	203.61	16.79	115.95	129.08	1501.87	150.49	150.05	18.49	311.21	137.53
36607	66.56	-2.50	4.00	227.02	71.89	194.90	10.85	130.40	137.43	1275.31	94.65	115.70	19.81	277.08	140.73
36608	66.62	-3.10	4.00	225.53	71.06	196.49	11.65	131.06	137.53	1267.65	88.12	118.33	26.55	275.77	142.43
36609	67.69	-2.50	4.00	193.69	61.04	187.53	8.54	145.72	144.98	1091.01	56.83	120.89	27.33	245.50	146.97
36610	67.74	-3.10	4.00	192.20	60.11	189.22	10.61	146.21	144.89	1082.60	53.17	124.96	36.66	244.35	147.81
36611	68.82	-2.50	4.00	167.18	52.37	179.55	8.46	160.40	151.89	940.40	44.41	140.00	33.08	217.89	153.11
36612	68.87	-3.10	4.00	165.66	51.57	181.38	10.86	160.73	151.64	931.49	44.76	143.83	43.30	216.81	153.50
36613	69.95	-2.50	4.00	145.59	45.52	170.91	8.76	174.04	158.42	814.90	47.84	159.43	35.96	193.79	159.18
36614	70.00	-3.10	4.00	144.10	44.93	172.92	11.08	174.22	158.04	806.01	49.58	162.76	46.12	192.76	159.20
36615	71.09	-2.50	4.00	127.73	40.13	161.77	8.84	186.38	164.78	709.21	53.79	175.64	36.36	172.66	165.24
36616	71.12	-3.10	4.00	126.32	39.75	164.01	10.99	186.42	164.28	700.84	55.27	178.57	45.95	171.71	165.00
36617	72.22	-2.50	4.00	112.78	35.90	152.48	8.63	197.24	171.07	619.69	57.68	188.19	35.01	154.02	171.35
36618	72.25	-3.10	4.00	111.51	35.70	154.96	10.62	197.16	170.47	612.14	58.62	190.84	43.79	153.15	170.90
36619	73.35	-2.50	4.00	100.14	32.65	143.48	8.20	206.51	177.37	543.57	59.10	197.38	32.58	137.42	177.54
36620	73.38	-3.10	4.00	99.04	32.58	146.22	10.04	206.33	176.68	537.00	59.59	199.84	40.46	136.64	176.94
36621	74.49	-2.50	4.00	89.38	30.25	135.36	7.60	214.13	183.73	478.69	58.54	203.62	29.57	122.48	183.83
36622	74.51	-3.10	4.00	88.47	30.26	138.35	9.33	213.88	182.94	473.11	58.75	205.96	36.56	121.81	183.10
36623	75.62	-2.50	4.00	80.16	28.60	128.76	6.93	220.07	190.15	423.28	56.60	207.29	26.34	108.88	190.20
36624	75.63	-3.10	4.00	79.45	28.67	131.9									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
36653	74.43	-2.50	3.00	88.18	29.43	147.48	8.06	230.17	196.92	464.19	52.17	215.07	29.08	97.43	196.93
36654	74.45	-3.10	3.00	87.31	29.49	150.56	9.59	229.78	196.04	458.91	52.52	217.51	35.90	97.23	196.05
36655	75.58	-2.50	3.00	78.63	27.74	139.83	7.15	236.24	203.00	407.64	50.19	219.12	25.87	90.13	203.00
36656	75.59	-3.10	3.00	77.96	27.86	143.14	8.64	235.80	202.03	403.27	50.38	221.48	31.87	89.92	202.03
36657	76.73	-2.50	3.00	70.48	26.77	134.63	6.25	240.52	209.03	359.63	47.40	220.87	22.67	82.80	209.03
36658	76.74	-3.10	3.00	70.02	26.93	138.10	7.72	240.05	207.97	356.09	47.52	223.16	27.91	82.62	207.97
36659	77.88	-2.50	3.00	63.55	26.46	132.52	5.69	243.01	214.95	318.91	44.17	220.58	19.70	75.45	214.95
36660	77.88	-3.10	3.00	63.31	26.63	136.01	7.09	242.54	213.80	316.09	44.28	222.85	24.24	75.33	213.80
36661	96.01	-2.50	4.00	26.83	66.02	302.80	61.73	91.41	258.64	42.50	46.06	371.09	62.01	109.29	258.72
36662	94.88	-2.50	4.00	29.19	62.05	287.15	57.37	105.96	257.50	63.76	42.93	312.30	57.49	113.44	257.48
36663	93.74	-2.50	4.00	31.78	58.41	271.80	52.92	119.47	255.58	84.22	39.95	261.44	52.85	111.42	255.49
36664	92.61	-2.50	4.00	34.04	54.98	257.13	48.40	132.20	253.46	102.23	36.99	219.49	48.17	104.46	253.34
36665	91.48	-2.50	4.00	35.83	51.70	243.34	43.92	144.52	251.30	117.50	34.25	188.61	43.57	94.26	251.16
36666	90.35	-2.50	4.00	37.16	48.56	230.21	39.52	156.60	249.10	130.40	31.92	169.14	39.10	82.38	248.96
36667	89.21	-2.50	4.00	38.20	45.55	217.43	35.23	168.38	246.82	141.82	30.21	159.80	34.80	70.08	246.69
36668	88.08	-2.50	4.00	39.14	42.68	204.74	31.06	179.64	244.35	152.68	29.26	158.13	30.69	58.31	244.24
36669	86.95	-2.50	4.00	40.14	39.96	192.05	27.02	190.14	241.58	163.79	29.17	161.45	26.80	48.09	241.49
36670	85.81	-2.50	4.00	41.34	37.41	179.43	23.11	199.65	238.42	175.88	29.94	167.55	23.17	40.75	238.35
36671	84.68	-2.50	4.00	42.88	35.06	167.08	19.36	207.99	234.79	189.56	31.49	174.90	19.95	37.74	234.73
36672	83.55	-2.50	4.00	44.90	32.93	155.31	15.85	214.98	230.63	205.39	33.72	182.52	17.34	39.69	230.59
36673	82.42	-2.50	4.00	47.50	31.06	144.57	12.65	220.52	225.95	223.88	36.49	189.78	15.64	45.56	225.92
36674	81.28	-2.50	4.00	50.77	29.51	135.40	9.90	224.53	220.76	245.55	39.68	196.25	15.13	53.80	220.75
36675	80.15	-2.50	4.00	54.81	28.32	128.36	7.78	226.95	215.14	270.94	43.16	201.62	15.87	63.35	215.14
36676	79.02	-2.50	4.00	59.68	27.57	124.00	6.47	227.73	209.17	300.64	46.79	205.63	17.66	73.69	209.17
36677	95.92	-3.10	4.00	29.73	66.29	303.09	61.12	94.88	257.27	44.99	46.04	367.62	61.55	111.65	257.39
36678	94.79	-3.10	4.00	31.66	62.27	287.60	56.91	108.69	256.29	65.23	42.97	309.96	57.08	115.12	256.25
36679	93.67	-3.10	4.00	33.97	58.67	272.34	52.50	121.78	254.33	85.11	40.08	260.19	52.39	112.86	254.19
36680	92.54	-3.10	4.00	36.02	55.24	257.74	48.05	134.17	252.21	102.73	37.22	219.24	47.68	105.85	252.02
36681	91.41	-3.10	4.00	37.64	51.97	243.99	43.62	146.18	250.02	117.74	34.58	189.20	43.06	95.72	249.81
36682	90.28	-3.10	4.00	38.84	48.83	230.92	39.26	157.96	247.78	130.47	32.33	170.40	38.60	83.97	247.58
36683	89.16	-3.10	4.00	39.77	45.82	218.23	35.01	169.45	245.46	141.78	30.68	161.51	34.34	71.82	245.27
36684	88.03	-3.10	4.00	40.59	42.95	205.67	30.89	180.44	242.96	152.53	29.77	160.10	30.30	60.23	242.79
36685	86.90	-3.10	4.00	41.46	40.23	193.17	26.89	190.71	240.16	163.54	29.67	163.54	26.53	50.17	240.02
36686	85.78	-3.10	4.00	42.51	37.67	180.77	23.05	200.01	236.99	175.49	30.40	169.69	23.12	42.87	236.87
36687	84.65	-3.10	4.00	43.89	35.30	168.69	19.39	208.15	233.36	189.00	31.89	177.06	20.24	39.67	233.27
36688	83.52	-3.10	4.00	45.72	33.15	157.25	16.00	214.99	229.22	204.60	34.04	184.68	18.14	41.14	229.16
36689	82.39	-3.10	4.00	48.12	31.27	146.85	12.97	220.41	224.58	222.81	36.73	191.93	17.15	46.49	224.54
36690	81.27	-3.10	4.00	51.18	29.69	138.03	10.45	224.33	219.45	244.11	39.84	198.40	17.46	54.30	219.43
36691	80.14	-3.10	4.00	54.99	28.49	131.31	8.62	226.68	213.90	269.05	43.25	203.77	19.01	63.51	213.90
36692	79.01	-3.10	4.00	59.63	27.72	127.19	7.63	227.42	208.01	298.21	46.81	207.79	21.55	73.61	208.02
36693	96.25	-2.50	3.00	28.22	66.03	331.51	63.73	99.15	265.61	44.04	51.00	401.75	64.08	119.12	265.67
36694	95.11	-2.50	3.00	31.86	62.11	313.18	59.60	114.36	264.53	68.80	48.31	335.94	59.74	122.65	264.49
36695	93.96	-2.50	3.00	34.80	58.46	294.95	55.00	127.78	262.53	90.41	44.89	276.89	54.92	118.68	262.41
36696	92.81	-2.50	3.00	36.98	54.99	278.33	50.17	140.34	260.45	108.40	41.32	229.85	49.91	108.67	260.30
36697	91.66	-2.50	3.00	38.07	51.63	263.32	45.26	152.79	258.45	121.78	37.69	196.89	44.89	95.32	258.30
36698	90.51	-2.50	3.00	38.59	48.37	249.38	40.45	165.47	256.54	132.08	34.37	177.69	40.03	81.24	256.39
36699	89.36	-2.50	3.00	38.87	45.25	235.83	35.80	178.15	254.59	140.77	31.59	169.71	35.41	67.81	254.46
36700	88.21	-2.50	3.00	39.15	42.27	222.27	31.36	190.42	252.47	148.99	29.49	169.56	31.05	55.96	252.35
36701	87.06	-2.50	3.00	39.59	39.46	208.58	27.10	201.93	250.05	157.67	28.21	174.10	26.96	46.64	249.96
36702	85.92	-2.50	3.00	40.34	36.83	194.83	23.04	212.37	247.25	167.54	27.83	180.99	23.21	40.89	247.18
36703	84.77	-2.50	3.00	41.52	34.40	181.28	19.19	221.54	243.99	179.25	28.35	188.74	19.89	39.42	243.94
36704	83.62	-2.50	3.00	43.27	32.22	168.31	15.58	229.25	240.25	193.35	29.70	196.45	17.19	41.89	240.21
36705	82.47	-2.50	3.00	45.68	30.31	156.45	12.30	235.39	236.00	210.36	31.78	203.59	15.39	47.03	235.98
36706	81.32	-2.50	3.00	48.84	28.72	146.31	9.45	239.88	231.29	230.83	34.42	209.81	14.78	53.58	231.28
36707	80.17	-2.50	3.00	52.82	27.50	138.57	7.24	242.67	226.16	255.30	37.48	214.85	15.45	60.73	226.15
36708	79.02	-2.50	3.00	57.70	26.72	133.84	5.94	243.72	220.68	284.42	40.79	218.51	17.20	68.08	220.68
36709	96.17	-3.10	3.00	31.03	66.35	331.92	63.09	102.34	264.32	46.49	50.87	398.22	63.63	121.15	264.42
36710	95.02	-3.10	3.00	34.17	62.40	313.74	59.12	116.88	263.40	70.15	48.28	333.65	59.33	124.03	263.33
36711	93.88	-3.10	3.00	36.84	58.80	295.61	54.58	129.95	261.34	91.17	44.96	275.82	54.45	119.90	261.17
36712	92.74	-3.10	3.00	38.83	55.34	279.03	49.84	142.22	259.24	108.79	41.51	229.86	49.43	109.97	259.02
36713	91.59	-3.10	3.00	39.81	51.98	264.04	44.99	154.37	257.20	121.97	37.99	197.77	44.41	96.78	256.97
36714	90.45	-3.10	3.00	40.23	48.72	250.14	40.22	166.74	255.23	132.16	34.77	179.21	39.58	82.88	255.01
36715	89.31	-3.10	3.00	40.42	45.59	236.67	35.62	179.12	253.23	140.77	32.05	171.63	35.00	69.62	253.03
36716	88.16	-3.10	3.00	40.60	42.60	223.25	31.21	191.11	251.06	148.92	29.99	171.70	30.72	57.92	250.88
36717	87.02	-3.10	3.00	40.92	39.78	209.75	27.01	202.36	248.61	157.52	28.73	176.33	26.77	48.68	248.47
36718	85.88	-3.10	3.00	41.53	37.13	196.26	23.01	212.59	245.79	167.28	28.33	183.25	23.23	42.82	245.68
36719	84.74	-3.10	3.00	42.55	34.70	183.00	19.24	221.57	242.53	178.83	28.81	191.00	20.24	41.04	242.45
36720	83.59	-3.10	3.00	44.11	32.49	170.38	15.74	229.13	238.80	192.72	30.11	198.70	18.05	43.05	238.74
36721	82.45	-3.10	3.00	46.32	30.56	158.88	12.62	235.14	234.59	209.46	32.11	205.83	16.95	47.76	234.55
36722	81.31	-3.10	3.00	49.26	28.95	149.12	10.00	239.54	229.92	229.58	34.68	212.04	17.14	53.97	229.91
36723	80.16	-3.10	3.00	53.02	27.71	141.71	8.10	242.26	224.86	253.62	37.67				



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
36751	85.44	-6.17	4.00	51.03	39.74	192.25	23.21	202.84	225.07	172.28	34.09	187.81	22.27	56.75	224.65
36752	85.27	-7.26	4.00	54.71	40.74	198.33	23.76	204.17	219.12	170.66	35.87	197.11	21.61	62.10	218.57
36753	86.82	-3.96	4.00	43.69	40.68	195.19	26.68	191.71	237.58	163.06	30.53	167.37	26.02	53.61	237.36
36754	86.69	-5.07	4.00	47.09	41.44	198.57	26.47	193.33	233.41	162.33	31.93	173.62	25.17	58.67	233.04
36755	86.52	-6.17	4.00	50.87	42.33	202.88	26.39	195.24	228.32	161.45	33.59	181.35	24.08	64.06	227.80
36756	86.32	-7.26	4.00	54.85	43.31	208.15	26.56	197.36	222.41	160.42	35.43	190.55	22.73	69.50	221.72
36757	87.94	-3.96	4.00	43.03	43.41	207.37	30.57	181.88	240.42	152.25	30.63	163.71	29.56	63.44	240.15
36758	87.78	-5.07	4.00	46.72	44.17	210.26	30.17	184.18	236.31	151.85	32.04	169.63	28.35	68.24	235.88
36759	87.59	-6.17	4.00	50.77	45.05	213.96	29.83	186.88	231.30	151.37	33.68	177.00	26.84	73.41	230.68
36760	87.37	-7.26	4.00	55.01	46.01	218.57	29.66	189.87	225.46	150.82	35.49	185.83	25.03	78.67	224.63
36761	89.05	-3.96	4.00	42.40	46.29	219.70	34.60	171.36	242.99	141.68	31.49	164.65	33.47	74.75	242.68
36762	88.88	-5.07	4.00	46.34	47.04	222.20	34.04	174.40	238.97	141.58	32.81	169.87	32.05	79.20	238.47
36763	88.67	-6.17	4.00	50.65	47.90	225.45	33.46	177.95	234.05	141.48	34.35	176.44	30.30	84.03	233.35
36764	88.42	-7.26	4.00	55.12	48.81	229.51	32.97	181.86	228.30	141.38	36.02	184.43	28.23	88.98	227.37
36765	90.17	-3.96	4.00	41.65	49.29	232.23	38.77	160.38	245.38	130.59	33.03	172.72	37.67	86.64	245.04
36766	89.98	-5.08	4.00	45.86	50.03	234.47	38.05	164.20	241.45	130.84	34.19	176.68	36.16	90.73	240.92
36767	89.74	-6.18	4.00	50.40	50.86	237.37	37.25	168.63	236.64	131.16	35.53	181.80	34.29	95.22	235.87
36768	89.46	-7.26	4.00	55.09	51.70	241.01	36.46	173.51	230.98	131.57	36.97	188.23	32.10	99.82	229.98
36769	91.28	-3.96	4.00	40.66	52.43	245.20	43.04	149.12	247.66	118.16	35.13	190.31	42.12	98.18	247.33
36770	91.08	-5.08	4.00	45.14	53.14	247.24	42.16	153.75	243.82	118.90	36.05	192.36	40.59	101.99	243.28
36771	90.82	-6.18	4.00	49.94	53.92	249.87	41.14	159.09	239.08	119.79	37.11	195.24	38.71	106.18	238.31
36772	90.51	-7.26	4.00	54.86	54.69	253.16	40.07	164.92	233.50	120.85	38.25	199.18	36.50	110.48	232.48
36773	92.40	-3.96	4.00	39.30	55.69	258.84	47.37	137.66	249.89	103.62	37.59	218.77	46.76	108.21	249.58
36774	92.18	-5.08	4.00	44.10	56.38	260.71	46.32	143.11	246.09	105.08	38.24	218.29	45.27	111.89	245.59
36775	91.90	-6.18	4.00	49.20	57.11	263.08	45.09	149.36	241.38	106.83	38.98	218.15	43.44	115.95	240.68
36776	91.56	-7.26	4.00	54.39	57.78	266.00	43.74	156.15	235.82	108.81	39.77	218.66	41.30	120.23	234.89
36777	93.52	-3.96	4.00	37.57	59.10	273.32	51.72	125.85	252.03	86.70	40.27	257.84	51.51	115.33	251.80
36778	93.27	-5.08	4.00	42.77	59.75	274.95	50.49	132.19	248.23	89.23	40.63	254.38	50.10	119.17	247.87
36779	92.97	-6.18	4.00	48.22	60.43	276.99	49.03	139.39	243.50	92.18	41.05	250.59	48.35	123.41	242.96
36780	92.61	-7.27	4.00	53.73	61.04	279.46	47.39	147.16	237.86	95.46	41.49	246.91	46.30	127.81	237.16
36781	94.63	-3.96	4.00	35.63	62.70	288.38	56.02	113.45	253.95	67.80	43.00	305.59	56.26	118.01	253.88
36782	94.37	-5.08	4.00	41.27	63.32	289.68	54.60	120.79	250.15	71.79	43.14	298.88	54.94	122.49	250.03
36783	94.05	-6.19	4.00	47.07	63.91	291.27	52.94	129.02	245.37	76.27	43.27	291.11	53.32	127.38	245.17
36784	93.66	-7.27	4.00	52.87	64.43	293.13	51.01	137.84	239.53	81.11	43.34	282.79	51.32	132.47	239.25
36785	95.75	-3.97	4.00	34.04	66.57	303.62	60.35	100.52	255.81	48.87	46.07	361.16	61.02	115.38	256.00
36786	95.47	-5.09	4.00	39.92	67.12	304.43	58.70	108.90	251.70	54.48	45.98	351.03	59.71	120.90	251.98
36787	95.12	-6.19	4.00	46.05	67.64	305.40	56.81	118.38	246.78	60.75	45.88	339.10	58.14	127.12	247.13
36788	94.71	-7.27	4.00	51.94	67.99	306.50	54.83	128.12	241.15	67.03	45.74	325.87	56.42	133.26	241.56
36789	79.02	-3.95	3.00	57.65	27.28	143.09	8.91	242.44	217.25	278.19	41.14	224.76	26.30	67.98	217.25
36790	79.01	-5.05	3.00	57.72	27.94	152.24	11.39	241.14	213.68	271.83	41.56	231.25	32.63	67.83	213.67
36791	79.00	-6.15	3.00	57.95	28.86	162.90	14.06	239.57	209.29	264.06	42.11	239.21	38.21	67.53	209.28
36792	78.98	-7.25	3.00	58.41	30.07	174.86	16.92	237.74	204.13	255.03	42.83	248.63	42.84	67.04	204.14
36793	80.15	-3.95	3.00	53.39	28.10	147.18	9.49	241.51	222.52	250.56	38.00	221.09	22.92	61.09	222.51
36794	80.12	-5.05	3.00	54.08	28.81	155.77	11.58	240.34	218.73	245.72	38.61	227.56	28.18	61.41	218.71
36795	80.09	-6.15	3.00	55.03	29.77	165.85	13.95	238.91	214.09	239.83	39.42	235.50	32.84	61.70	214.06
36796	80.05	-7.25	3.00	56.28	31.02	177.22	16.59	237.26	208.66	232.99	40.46	244.88	36.71	61.88	208.62
36797	81.28	-3.95	3.00	50.02	29.37	154.05	10.97	238.91	227.47	227.30	35.13	216.05	20.49	54.61	227.44
36798	81.24	-5.06	3.00	51.30	30.12	161.84	12.56	237.93	223.50	223.71	35.95	222.55	24.67	55.60	223.45
36799	81.18	-6.16	3.00	52.91	31.12	171.09	14.51	236.75	218.65	219.33	37.03	230.50	28.40	56.68	218.57
36800	81.12	-7.25	3.00	54.85	32.40	181.62	16.83	235.38	212.99	214.25	38.38	239.87	31.51	57.77	212.88
36801	82.41	-3.95	3.00	47.44	31.02	163.19	13.22	234.69	232.04	207.81	32.70	209.86	19.27	48.98	231.99
36802	82.35	-5.06	3.00	49.27	31.81	170.08	14.32	233.98	227.92	205.22	33.73	216.39	22.28	50.87	227.83
36803	82.27	-6.16	3.00	51.47	32.85	178.34	15.81	233.14	222.91	202.05	35.06	224.38	25.03	52.96	222.77
36804	82.18	-7.25	3.00	54.01	34.16	187.86	17.72	232.16	217.08	198.38	36.69	233.80	27.33	55.13	216.88
36805	83.54	-3.95	3.00	45.57	32.98	174.06	16.07	228.89	236.19	191.56	30.82	202.76	19.40	45.00	236.10
36806	83.46	-5.06	3.00	47.90	33.82	180.01	16.75	228.55	231.97	189.75	32.05	209.33	21.23	47.95	231.82
36807	83.37	-6.16	3.00	50.62	34.90	187.23	17.79	228.14	226.84	187.55	33.60	217.38	22.94	51.17	226.62
36808	83.25	-7.25	3.00	53.66	36.23	195.67	19.25	227.67	220.89	184.97	35.48	226.87	24.35	54.51	220.58
36809	84.68	-3.96	3.00	44.32	35.21	186.09	19.35	221.61	239.89	178.05	29.63	195.08	20.80	43.72	239.76
36810	84.58	-5.08	3.00	47.08	36.10	191.14	19.70	221.72	235.62	176.85	31.02	201.70	21.57	47.70	235.40
36811	84.46	-6.16	3.00	50.24	37.21	197.36	20.34	221.85	230.43	175.38	32.75	209.82	22.25	51.97	230.11
36812	84.31	-7.26	3.00	53.70	38.56	204.73	21.38	222.00	224.43	173.65	34.79	219.38	22.73	56.34	223.99
36813	85.81	-3.96	3.00	43.56	37.68	198.82	22.97	212.98	243.14	166.79	29.22	187.34	23.22	46.02	242.97
36814	85.69	-5.07	3.00	46.69	38.60	203.07	23.05	213.62	238.87	166.04	30.72	193.99	23.16	50.72	238.58
36815	85.55	-6.17	3.00	50.23	39.74	208.36	23.36	214.39	233.69	165.12	32.55	202.14	22.97	55.72	233.27
36816	85.38	-7.26	3.00	54.03	41.09	214.74	24.01	215.27	227.70	164.03	34.69	211.77	22.59	60.80	227.12
36817	86.94	-3.96	3.00	43.17	40.34	211.88	26.85	203.14	245.99	157.23	29.64	180.38	26.39	52.05	245.77
36818	86.81	-5.07	3.00	46.62	41.29	215.44	26.72	204.42	241.77	156.81	31.17	186.98	25.75	57.02	241.40
36819	86.64	-6.17	3.00	50.46	42.45	219.95	26.75	205.93	236.65	156.29	33.02	195.09	24.91	62.33	236.11
36820	86.45	-7.26	3.00	54.54	43.81	225.46	27.04	207.64	230.73	155.69	35.17	204.69	23.84	67.72	230.00
36821	88.07	-3.96	3.00	43.04	43.18	225.03	30.96	192.34	248.50						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
36849	96.00	-3.96	3.00	35.22	66.71	332.70	62.28	107.57	263.04	50.31	50.77	391.66	63.13	124.33	263.19
36850	95.72	-5.09	3.00	40.98	67.41	333.92	60.56	115.42	259.21	55.83	50.40	381.41	61.86	129.10	259.43
36851	95.38	-6.19	3.00	47.01	68.10	335.42	58.57	124.42	254.63	62.01	49.98	369.36	60.32	134.54	254.91
36852	94.97	-7.27	3.00	52.80	68.64	337.16	56.48	133.78	249.39	68.18	49.50	356.03	58.61	139.97	249.71
36853	61.15	-3.97	4.00	738.50	171.50	352.37	162.46	141.36	26.89	4148.22	790.43	1890.53	172.48	747.47	203.99
36854	61.43	-5.09	4.00	725.47	163.64	342.25	143.21	137.88	35.35	4042.24	805.67	1729.52	149.31	684.22	209.47
36855	61.78	-6.19	4.00	707.84	166.50	331.80	123.74	135.35	41.41	3962.72	786.52	1592.73	118.22	684.67	186.64
36856	62.19	-7.27	4.00	697.81	188.12	322.22	110.24	136.08	45.95	3926.09	755.21	1454.53	132.18	736.36	187.60
36857	62.27	-3.96	4.00	532.23	143.96	259.69	83.46	91.00	81.46	2938.67	533.81	816.21	82.08	417.55	189.68
36858	62.53	-5.08	4.00	519.05	148.36	260.54	70.25	89.68	84.21	2862.94	556.19	740.04	67.30	389.10	204.71
36859	62.85	-6.19	4.00	506.25	157.43	263.61	56.25	92.03	87.71	2814.59	548.47	676.30	54.14	400.85	199.99
36860	63.24	-7.27	4.00	495.63	165.37	269.21	49.80	97.98	94.03	2765.17	481.42	620.61	54.16	439.78	205.32
36861	63.38	-3.96	4.00	406.33	121.42	226.82	45.06	93.25	105.31	2243.76	360.51	405.09	43.01	382.62	153.56
36862	63.63	-5.08	4.00	396.44	125.19	230.85	36.31	95.06	107.26	2197.58	359.40	368.95	32.36	370.26	164.86
36863	63.93	-6.18	4.00	387.25	125.43	236.43	30.28	98.60	110.64	2158.25	316.67	337.03	20.06	374.26	169.23
36864	64.29	-7.27	4.00	371.14	113.61	243.93	39.19	103.35	115.38	2061.95	208.80	310.45	107.57	383.95	178.97
36865	64.50	-3.96	4.00	323.07	101.35	214.49	25.15	103.70	119.51	1795.89	231.43	230.42	22.17	345.04	142.60
36866	64.72	-5.08	4.00	316.09	100.43	219.04	22.25	106.36	121.09	1763.33	207.53	214.40	22.26	339.86	150.90
36867	65.00	-6.18	4.00	306.71	94.02	225.10	26.16	109.88	123.32	1712.75	152.45	202.60	60.57	339.05	158.06
36868	65.34	-7.26	4.00	286.39	81.81	233.05	41.21	114.26	125.58	1590.89	83.37	197.81	162.04	336.36	167.04
36869	65.62	-3.96	4.00	265.21	83.50	206.44	16.36	117.46	129.63	1484.86	136.61	147.85	25.43	308.13	142.14
36870	65.82	-5.08	4.00	258.93	79.94	211.22	19.41	119.96	130.54	1451.56	108.22	147.60	49.36	304.40	148.12
36871	66.08	-6.18	4.00	248.20	73.33	217.53	27.78	123.14	131.53	1389.29	71.50	152.02	100.51	300.53	154.32
36872	66.39	-7.26	4.00	227.58	66.04	225.66	41.19	127.11	132.17	1268.39	51.65	161.72	179.19	292.93	161.35
36873	66.73	-3.96	4.00	222.24	69.14	199.43	14.19	132.31	137.71	1249.89	75.82	123.58	41.48	273.38	145.18
36874	66.92	-5.08	4.00	215.79	65.41	204.40	20.02	134.40	137.92	1212.96	58.20	132.96	72.22	269.64	149.15
36875	67.16	-6.18	4.00	204.68	60.69	210.88	28.60	137.08	138.00	1147.90	48.77	145.28	118.74	264.33	153.50
36876	67.44	-7.26	4.00	186.32	56.80	219.00	39.00	140.43	137.74	1041.75	51.42	160.15	174.60	255.73	158.17
36877	67.85	-3.96	4.00	188.89	58.28	192.32	14.38	147.16	144.72	1063.49	48.38	132.26	54.00	242.12	149.41
36878	68.02	-5.07	4.00	182.38	55.36	197.53	20.58	148.77	144.37	1025.38	46.71	143.71	84.13	238.27	151.72
36879	68.23	-6.17	4.00	171.94	52.39	204.19	28.09	150.86	143.79	964.39	51.23	157.10	122.12	232.69	154.28
36880	68.48	-7.26	4.00	156.52	50.40	212.35	36.11	153.46	142.92	875.87	55.49	172.21	161.58	224.56	156.95
36881	68.96	-3.96	4.00	162.37	50.16	184.71	14.71	161.38	151.18	912.11	46.62	150.61	60.56	214.66	154.16
36882	69.12	-5.07	4.00	156.17	48.15	190.25	20.45	162.50	150.37	875.63	51.42	161.18	87.42	210.89	155.17
36883	69.31	-6.17	4.00	146.91	46.41	197.19	26.80	163.96	149.30	821.76	56.53	173.51	117.50	205.59	156.28
36884	69.53	-7.26	4.00	134.27	45.48	205.53	33.17	165.79	147.93	749.35	58.60	187.49	146.02	198.39	157.38
36885	70.08	-3.96	4.00	140.96	43.97	176.55	14.67	174.58	157.34	787.53	52.59	168.68	62.16	190.72	159.23
36886	70.21	-5.07	4.00	135.32	42.73	182.50	19.77	175.22	156.17	754.42	56.91	178.02	85.23	187.20	159.25
36887	70.38	-6.17	4.00	127.39	41.81	189.85	25.17	176.08	154.68	708.38	59.96	189.10	109.03	182.39	159.24
36888	70.58	-7.26	4.00	117.17	41.50	198.53	30.43	177.18	152.87	649.59	60.27	201.86	130.26	176.15	159.14
36889	71.20	-3.96	4.00	123.47	39.17	168.00	14.26	186.52	163.38	684.04	57.46	183.81	60.37	169.82	164.55
36890	71.31	-5.07	4.00	118.53	38.50	174.46	18.78	186.72	161.89	655.07	60.10	192.16	79.93	166.62	163.84
36891	71.46	-6.17	4.00	111.90	38.12	182.32	23.44	187.04	160.03	616.47	61.43	202.23	98.99	162.36	162.96
36892	71.63	-7.26	4.00	103.72	38.18	191.47	27.96	187.49	157.80	568.89	60.76	213.97	115.32	156.97	161.91
36893	72.31	-3.96	4.00	109.00	35.41	159.36	13.59	197.03	169.38	597.40	59.85	195.59	56.53	151.44	170.10
36894	72.41	-5.06	4.00	104.81	35.14	166.40	17.63	196.86	167.60	572.68	61.14	203.25	73.11	148.59	168.82
36895	72.53	-6.16	4.00	99.40	35.11	174.85	21.75	196.71	165.40	540.74	61.39	212.55	88.61	144.86	167.26
36896	72.68	-7.26	4.00	92.94	35.42	184.57	25.77	196.60	162.78	502.27	60.27	223.50	101.55	140.21	165.45
36897	73.43	-3.95	4.00	96.93	32.49	151.05	12.76	206.01	175.42	524.40	60.14	204.27	51.62	135.13	175.86
36898	73.51	-5.06	4.00	93.48	32.50	158.70	16.43	205.55	173.37	503.70	60.57	211.43	65.71	132.64	174.12
36899	73.61	-6.16	4.00	89.17	32.71	167.77	20.16	205.01	170.83	477.52	60.24	220.18	78.52	129.41	172.00
36900	73.73	-7.26	4.00	84.19	33.19	178.08	23.84	204.44	167.81	446.47	59.03	230.53	89.05	125.41	169.55
36901	74.54	-3.95	4.00	86.76	30.31	143.58	11.86	213.42	181.52	462.57	58.88	210.17	46.28	120.51	181.78
36902	74.61	-5.06	4.00	84.04	30.50	151.80	15.25	212.72	179.20	445.48	58.85	216.98	58.30	118.38	179.66
36903	74.69	-6.16	4.00	80.75	30.87	161.45	18.69	211.89	176.32	424.19	58.31	225.34	69.03	115.63	177.07
36904	74.78	-7.25	4.00	77.06	31.47	172.32	22.12	210.97	172.92	399.19	57.20	235.23	77.78	112.22	174.05
36905	75.66	-3.95	4.00	78.15	28.81	137.51	10.95	219.21	187.67	409.97	56.58	213.60	40.92	107.25	187.83
36906	75.70	-5.06	4.00	76.14	29.11	146.18	14.11	218.35	185.08	396.05	56.36	220.17	51.20	105.50	185.36
36907	75.76	-6.16	4.00	73.78	29.59	156.29	17.34	217.32	181.87	378.87	55.83	228.24	60.28	103.22	182.34
36908	75.83	-7.25	4.00	71.24	30.29	167.62	20.61	216.15	178.08	358.81	54.96	237.81	67.65	100.40	178.82
36909	76.78	-3.95	4.00	70.86	27.94	133.40	10.12	223.37	193.84	365.08	53.62	214.84	35.79	95.10	193.93
36910	76.80	-5.05	4.00	69.54	28.33	142.33	13.10	222.42	190.98	353.88	53.40	221.25	44.59	93.75	191.15
36911	76.84	-6.15	4.00	68.05	28.88	152.70	16.16	221.28	187.45	340.12	53.00	229.12	52.31	91.98	187.74
36912	76.88	-7.25	4.00	66.55	29.65	164.29	19.30	219.97	183.27	324.12	52.44	238.45	58.59	89.76	183.75
36913	77.89	-3.95	4.00	64.71	27.68	131.72	9.53	225.91	199.95	326.68	50.29	214.12	31.05	83.86	200.00
36914	77.90	-5.05	4.00	64.05	28.12	140.63	12.30	224.95	196.83	317.78	50.18	220.41	38.56	82.97	196.93
36915	77.91	-6.15	4.00	63.39	28.74	151.00	15.19	223.78	192.98	306.87	50.00	228.16	45.13	81.77	193.15
36916	77.93	-7.25	4.00	62.84	29.57	162.59	18.21	222.43	188.43	294.18	49.79	237.34	50.49	80.23	188.73
36917	60.90	-3.96	3.00	698.08	152.61	316.90	202.95	108.43	176.45	3117.81	504.67	1427.48	330.92	215.56	209.26
36918	61.18	-5.09	3.00	672.22	134.92	313.22	180.00	114.28	173.						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
36947	69.17	-6.17	3.00	151.03	46.93	214.90	26.43	177.23	162.75	830.30	54.25	182.42	115.71	131.93	166.52
36948	69.39	-7.26	3.00	138.38	46.18	223.06	33.06	178.47	161.37	759.45	57.29	197.20	145.79	134.08	166.18
36949	69.96	-3.96	3.00	143.01	43.97	193.62	14.67	189.06	170.98	786.09	48.47	177.56	60.39	124.59	171.96
36950	70.09	-5.07	3.00	137.58	42.80	199.46	19.58	189.30	169.59	754.75	53.05	187.47	83.48	125.07	171.09
36951	70.26	-6.17	3.00	129.79	42.02	206.69	24.95	189.66	167.91	710.36	56.80	199.15	107.81	125.74	170.03
36952	70.45	-7.26	3.00	119.54	41.99	215.26	30.34	190.18	165.96	652.71	58.03	212.52	130.04	126.32	168.81
36953	71.09	-3.96	3.00	124.37	38.87	183.92	14.40	201.35	176.89	678.28	52.44	193.77	59.04	118.44	177.37
36954	71.21	-5.07	3.00	119.57	38.31	190.35	18.70	201.15	175.16	650.62	55.57	202.57	78.61	118.41	175.94
36955	71.35	-6.17	3.00	113.04	38.13	198.19	23.28	200.97	173.06	613.31	57.61	213.11	98.00	118.31	174.21
36956	71.52	-7.26	3.00	104.86	38.52	207.34	27.84	200.85	170.60	566.75	57.78	225.34	114.94	117.94	172.25
36957	72.22	-3.96	3.00	109.04	34.92	174.06	13.77	212.19	182.76	588.20	54.35	206.32	55.47	111.46	182.97
36958	72.32	-5.06	3.00	104.95	34.80	181.17	17.58	211.62	180.72	564.55	56.16	214.34	72.00	111.08	181.10
36959	72.44	-6.16	3.00	99.63	35.00	189.70	21.59	210.99	178.23	533.71	57.06	224.04	87.68	110.49	178.83
36960	72.59	-7.26	3.00	93.21	35.66	199.54	25.60	210.31	175.32	496.25	56.74	235.40	101.00	109.55	176.24
36961	73.36	-3.95	3.00	96.31	31.89	164.54	12.90	221.46	188.60	512.61	54.35	215.56	50.71	104.17	188.69
36962	73.44	-5.06	3.00	92.96	32.05	172.35	16.35	220.60	186.28	492.83	55.27	223.02	64.71	103.56	186.45
36963	73.53	-6.16	3.00	88.75	32.51	181.62	19.96	219.58	183.44	467.65	55.56	232.13	77.61	102.68	183.73
36964	73.65	-7.25	3.00	83.84	33.34	192.18	23.60	218.45	180.10	437.62	55.09	242.84	88.37	101.41	180.60
36965	74.49	-3.95	3.00	85.66	29.64	155.94	11.90	229.08	194.45	448.92	52.93	221.89	45.46	96.81	194.48
36966	74.55	-5.06	3.00	83.04	29.99	164.42	15.09	227.98	191.85	432.67	53.35	228.98	57.37	96.09	191.92
36967	74.63	-6.16	3.00	79.85	30.62	174.39	18.42	226.68	188.67	412.33	53.38	237.66	68.13	95.06	188.81
36968	74.72	-7.25	3.00	76.26	31.57	185.64	21.81	225.20	184.93	388.34	52.98	247.90	77.02	93.65	185.20
36969	75.62	-3.95	3.00	76.72	28.10	148.92	10.85	235.00	200.27	395.10	50.57	225.69	40.16	89.48	200.28
36970	75.66	-5.06	3.00	74.80	28.58	157.95	13.86	233.75	197.42	381.96	50.78	232.52	50.34	88.74	197.45
36971	75.72	-6.16	3.00	72.54	29.31	168.49	16.99	232.24	193.91	365.68	50.78	240.90	59.41	87.70	193.98
36972	75.78	-7.25	3.00	70.13	30.36	180.31	20.22	230.52	189.79	346.63	50.58	250.80	66.89	86.29	194.94
36973	76.75	-3.95	3.00	69.19	27.22	144.12	9.86	239.20	206.06	349.53	47.64	227.27	35.09	82.23	206.06
36974	76.78	-5.05	3.00	67.95	27.78	153.49	12.74	237.86	202.95	339.05	47.81	233.93	43.80	81.57	202.96
36975	76.81	-6.15	3.00	66.58	28.59	164.38	15.73	236.24	199.13	326.16	47.92	242.10	51.52	80.64	199.17
36976	76.85	-7.25	3.00	65.21	29.70	176.54	18.84	234.38	194.64	311.14	48.00	251.77	57.87	79.37	194.72
36977	77.88	-3.95	3.00	62.88	26.97	142.07	9.12	241.68	211.74	310.91	44.42	226.89	30.42	75.06	211.74
36978	77.89	-5.05	3.00	62.31	27.58	151.48	11.85	240.33	208.40	302.68	44.68	233.43	37.86	74.59	208.40
36979	77.90	-6.15	3.00	61.76	28.45	162.43	14.70	238.68	204.28	292.59	44.99	241.47	44.44	73.90	204.30
36980	77.92	-7.25	3.00	61.36	29.62	174.66	17.71	236.79	199.44	280.87	45.38	250.98	49.88	72.93	199.48
36981	78.96	-8.10	4.00	60.42	30.87	172.17	19.80	222.45	189.24	259.82	47.29	242.63	45.99	71.12	189.50
36982	78.95	-8.70	4.00	60.87	31.53	179.23	21.52	221.64	186.00	253.45	47.44	248.85	47.36	70.52	186.36
36983	79.99	-8.10	4.00	58.92	31.84	173.78	19.30	222.38	193.89	239.27	45.01	238.52	39.20	64.81	194.00
36984	79.96	-8.70	4.00	59.78	32.51	180.58	20.96	221.68	190.44	234.32	45.39	244.73	40.35	64.83	190.62
36985	81.01	-8.10	4.00	57.97	33.22	177.05	19.26	221.11	198.37	221.35	42.89	233.23	33.29	60.23	198.34
36986	80.96	-8.70	4.00	59.19	33.89	183.47	20.81	220.58	194.75	217.55	43.48	239.47	34.20	60.95	194.75
36987	82.04	-8.10	4.00	57.47	34.95	181.87	19.76	218.69	202.64	205.71	41.01	226.98	28.33	57.81	202.46
36988	81.97	-8.70	4.00	58.99	35.62	187.82	21.14	218.40	198.87	202.84	41.78	233.29	28.94	59.25	198.71
36989	83.06	-8.10	4.00	57.32	36.96	188.07	20.81	215.19	206.67	192.04	39.43	220.21	24.46	57.95	206.34
36990	82.98	-8.70	4.00	59.08	37.61	193.49	21.98	215.22	202.80	189.91	40.35	226.41	24.71	60.03	202.46
36991	84.09	-8.10	4.00	57.43	39.19	195.45	22.41	210.69	210.44	180.00	38.21	212.65	21.91	60.81	209.96
36992	83.98	-8.70	4.00	59.39	39.82	200.33	23.34	211.10	206.50	178.47	39.24	219.14	21.73	63.34	205.98
36993	85.11	-8.10	4.00	57.70	41.60	203.80	24.49	205.30	213.97	169.29	37.39	205.34	20.91	66.19	213.32
36994	84.99	-8.70	4.00	59.83	42.19	208.17	25.16	206.15	210.00	168.24	38.48	211.89	20.28	68.97	209.28
36995	86.14	-8.10	4.00	58.05	44.14	212.97	26.96	199.15	217.27	159.55	36.99	198.72	21.49	73.67	216.45
36996	85.99	-8.70	4.00	60.33	44.69	216.85	27.37	200.48	213.29	158.88	38.09	205.27	20.47	76.51	212.39
36997	87.16	-8.10	4.00	58.42	46.79	222.81	29.73	192.38	220.36	150.39	37.01	193.73	23.43	82.73	219.39
36998	87.00	-8.70	4.00	60.83	47.30	226.28	29.90	194.24	216.39	150.07	38.07	200.11	22.16	85.49	215.32
36999	88.19	-8.10	4.00	58.69	49.54	233.29	32.74	185.13	223.26	141.35	37.42	191.69	26.42	92.81	222.16
37000	88.01	-8.70	4.00	61.25	50.00	236.40	32.65	187.56	219.32	141.37	38.38	197.61	25.00	95.41	218.10
37001	89.22	-8.10	4.00	58.82	52.36	244.40	35.93	177.55	226.00	131.99	38.16	194.24	30.20	103.38	224.81
37002	89.01	-8.70	4.00	61.47	52.75	247.19	35.60	180.55	222.06	132.33	38.96	199.25	28.70	105.79	220.75
37003	90.24	-8.10	4.00	58.76	55.26	256.20	39.26	169.75	228.56	121.85	39.18	203.17	34.58	113.83	227.36
37004	90.02	-8.70	4.00	61.52	55.58	258.69	38.69	173.32	224.64	122.67	39.79	206.65	33.08	116.07	223.32
37005	91.27	-8.10	4.00	58.46	58.25	268.70	42.69	161.74	230.88	110.54	40.39	219.79	39.46	123.40	229.78
37006	91.02	-8.70	4.00	61.37	58.47	270.86	41.87	165.89	226.94	111.98	40.75	221.09	37.93	125.58	225.74
37007	92.29	-8.10	4.00	58.03	61.42	281.73	46.15	153.53	232.89	98.23	41.86	244.47	44.60	131.27	232.05
37008	92.03	-8.70	4.00	61.03	61.56	283.55	45.23	158.18	228.89	100.22	42.03	242.98	43.22	133.64	227.96
37009	93.32	-8.10	4.00	57.46	64.77	294.83	49.43	145.10	234.38	85.18	43.48	276.36	48.62	136.54	234.02
37010	93.04	-8.70	4.00	60.65	64.83	296.22	48.44	150.40	230.46	88.12	43.56	271.77	49.43	139.33	230.04
37011	94.34	-8.10	4.00	56.65	68.15	307.41	52.83	136.12	235.07	72.27	45.34	315.09	54.54	138.17	235.49
37012	94.04	-8.70	4.00	60.24	68.17	308.22	51.46	142.49	230.73	76.47	45.15	307.14	53.22	142.08	231.14
37013	78.97	-8.10	3.00	59.01	31.25	184.84	19.30	236.19	199.66	247.37	43.57	256.85	45.65	66.54	199.69
37014	78.96	-8.70	3.00	59.57	32.21	192.29	21.05	235.03	196.27	241.61	44.18	263.25	47.13	66.07	196.33
37015	80.01	-8.10	3.00	57.50	32.22	186.76	18.84	235.86	203.97	227.19	41.49	253.06	39.07	61.98	203.92
37016	79.99	-8.70	3.00	58.48	33.18	193.93	20.53	234.81	200.41	222.82	42.31	259.43	40.33	61.96	200.37
37017	81.06	-8.10	3.00	56.59	33.62	19									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
37045	62.56	-8.10	4.00	706.95	226.25	317.43	115.77	137.56	52.81	3913.51	770.00	1323.86	315.38	769.42	249.22
37046	62.86	-8.70	4.00	653.31	257.45	324.54	183.22	132.86	64.11	3451.06	810.63	1206.38	821.92	747.47	380.36
37047	63.58	-8.10	4.00	471.76	155.65	275.50	71.20	102.78	102.01	2591.50	346.63	568.87	263.91	458.49	233.67
37048	63.86	-8.70	4.00	407.10	131.04	279.39	106.83	104.73	112.78	2190.47	228.95	508.25	485.07	441.85	232.78
37049	64.61	-8.10	4.00	339.14	94.15	250.86	64.24	107.50	119.53	1862.04	104.00	289.50	277.51	382.52	189.38
37050	64.87	-8.70	4.00	290.35	85.77	257.24	85.74	110.89	120.76	1580.37	78.80	279.46	399.13	368.05	197.60
37051	65.63	-8.10	4.00	255.91	72.72	240.79	59.59	118.33	126.61	1411.99	56.12	199.53	270.91	327.47	175.66
37052	65.88	-8.70	4.00	221.53	71.34	247.36	70.57	121.77	126.97	1219.83	54.75	203.81	330.09	313.56	181.30
37053	66.66	-8.10	4.00	202.52	62.43	233.30	52.95	130.78	132.27	1125.19	50.81	172.30	243.46	282.53	167.13
37054	66.88	-8.70	4.00	178.92	62.37	239.54	59.22	133.84	132.15	994.38	49.32	181.30	274.23	271.27	170.65
37055	67.68	-8.10	4.00	166.74	55.39	226.45	46.85	143.49	137.30	931.03	52.35	173.24	213.75	246.18	161.78
37056	67.89	-8.70	4.00	149.82	55.57	232.41	51.06	146.00	136.86	837.36	50.02	183.61	231.84	237.18	163.95
37057	68.71	-8.10	4.00	141.32	49.90	219.71	41.81	155.82	142.06	790.12	55.07	185.15	187.05	216.36	158.94
37058	68.89	-8.70	4.00	128.85	50.16	225.53	44.97	157.74	141.36	720.67	52.54	195.35	198.59	209.16	160.09
37059	69.74	-8.10	4.00	122.45	45.46	212.94	37.63	167.45	146.69	682.36	57.17	199.52	163.48	191.49	158.16
37060	69.90	-8.70	4.00	113.11	45.82	218.75	40.20	168.81	145.71	629.66	54.65	209.05	171.17	185.67	158.55
37061	70.76	-8.10	4.00	107.97	41.74	206.14	34.14	178.19	151.27	596.84	58.44	212.94	142.82	170.33	158.98
37062	70.91	-8.70	4.00	100.88	42.11	212.06	36.40	179.04	150.01	556.00	56.23	221.75	148.38	165.50	158.76
37063	71.79	-8.10	4.00	96.57	38.57	199.40	31.22	187.92	155.85	527.02	58.88	224.23	124.81	152.02	160.99
37064	71.91	-8.70	4.00	91.17	38.98	205.51	33.30	188.32	154.33	494.93	56.96	232.38	129.04	147.96	160.25
37065	72.81	-8.10	4.00	87.44	35.92	192.89	28.75	196.54	160.48	468.87	58.53	233.10	109.01	135.97	163.89
37066	72.92	-8.70	4.00	83.37	36.37	199.25	30.71	196.55	158.70	443.44	56.93	240.71	112.38	132.53	162.70
37067	73.84	-8.10	4.00	80.06	33.77	186.83	26.62	203.98	165.17	419.74	57.54	239.61	95.11	121.78	167.45
37068	73.92	-8.70	4.00	77.08	34.25	193.45	28.51	203.68	163.15	399.49	56.25	246.79	97.90	118.85	165.85
37069	74.86	-8.10	4.00	74.09	32.12	181.47	24.78	210.20	169.94	377.80	56.02	243.91	82.83	109.14	171.46
37070	74.93	-8.70	4.00	72.01	32.65	188.35	26.63	209.65	167.66	361.64	55.04	250.75	85.21	106.66	169.50
37071	75.89	-8.10	4.00	69.29	31.00	177.08	23.18	215.16	174.77	341.72	54.12	246.19	71.94	97.84	175.79
37072	75.94	-8.70	4.00	67.98	31.57	184.17	24.99	214.44	172.24	328.83	53.44	252.78	74.01	95.78	173.50
37073	76.91	-8.10	4.00	65.50	30.42	173.93	21.80	218.86	179.63	310.50	51.95	246.63	62.26	87.75	180.31
37074	76.94	-8.70	4.00	64.85	31.03	181.13	23.59	218.04	176.85	300.25	51.57	253.03	64.08	86.12	177.71
37075	77.94	-8.10	4.00	62.58	30.38	172.24	20.66	221.29	184.47	283.40	49.64	245.39	53.65	78.82	184.91
37076	77.95	-8.70	4.00	62.51	31.02	179.44	22.41	220.44	181.45	275.30	49.53	251.67	55.24	77.66	182.03
37077	62.29	-8.10	3.00	709.03	226.32	302.65	114.00	155.44	110.30	3412.15	659.33	1072.21	270.07	101.57	126.74
37078	62.58	-8.70	3.00	724.79	287.30	328.99	191.88	179.30	117.20	3354.38	814.88	1082.25	762.87	187.24	231.33
37079	63.33	-8.10	3.00	502.03	177.28	297.90	66.86	136.05	124.20	2505.96	392.87	717.67	239.28	63.79	230.83
37080	63.61	-8.70	3.00	453.48	145.54	302.30	110.11	134.29	137.42	2226.14	258.48	630.23	480.26	94.78	233.34
37081	64.37	-8.10	3.00	369.10	101.38	275.32	60.80	127.23	138.54	1900.23	118.18	369.98	260.11	80.01	195.70
37082	64.63	-8.70	3.00	322.67	89.27	280.90	88.56	127.86	143.16	1652.00	82.16	337.32	401.75	123.71	189.63
37083	65.42	-8.10	3.00	278.23	75.52	261.87	58.92	132.62	144.51	1469.65	60.26	227.65	266.22	127.73	176.50
37084	65.65	-8.70	3.00	242.70	73.62	268.16	72.93	134.88	146.11	1282.68	58.15	225.16	337.09	152.31	176.97
37085	66.46	-8.10	3.00	217.54	64.25	252.90	53.19	143.33	148.50	1171.63	54.20	183.94	244.20	147.10	169.45
37086	66.68	-8.70	3.00	192.68	64.36	259.10	60.88	145.75	148.94	1039.96	53.00	192.30	280.84	158.67	170.67
37087	67.50	-8.10	3.00	176.53	56.84	245.21	47.24	155.49	152.27	962.89	54.53	182.04	215.70	149.12	166.21
37088	67.70	-8.70	3.00	158.73	57.33	251.14	52.18	157.53	152.10	867.82	52.73	192.96	236.89	154.37	167.15
37089	68.54	-8.10	3.00	147.58	51.10	237.81	42.13	167.79	156.14	809.86	55.86	194.50	188.85	143.75	165.23
37090	68.73	-8.70	3.00	134.55	51.70	243.57	45.70	169.31	155.54	739.47	53.91	205.27	202.11	145.96	165.57
37091	69.59	-8.10	3.00	126.32	46.47	230.36	37.83	179.64	160.14	692.84	56.73	209.84	164.73	135.58	165.90
37092	69.75	-8.70	3.00	116.65	47.18	236.13	40.63	180.63	159.15	639.74	54.81	219.80	173.43	136.21	165.68
37093	70.63	-8.10	3.00	110.20	42.58	222.83	34.22	190.72	164.25	600.42	57.00	224.07	143.50	126.49	167.81
37094	70.77	-8.70	3.00	102.92	43.30	228.72	36.63	191.21	162.91	559.56	55.39	233.20	149.69	126.22	167.07
37095	71.67	-8.10	3.00	97.65	39.28	215.30	31.20	200.82	168.46	525.47	56.66	235.96	125.00	117.33	170.62
37096	71.80	-8.70	3.00	92.17	40.03	221.44	33.36	200.87	166.82	493.64	55.34	244.38	129.64	116.56	169.40
37097	72.72	-8.10	3.00	87.71	36.52	207.99	28.62	209.79	172.79	463.55	55.72	245.31	108.83	108.48	174.05
37098	72.82	-8.70	3.00	83.63	37.30	214.44	30.64	209.45	170.84	438.56	54.70	253.16	112.49	107.43	172.42
37099	73.76	-8.10	3.00	79.76	34.29	201.16	26.40	217.53	177.19	411.68	54.29	252.21	94.68	100.10	177.93
37100	73.84	-8.70	3.00	76.80	35.11	207.95	28.32	216.88	174.97	391.97	53.57	259.60	97.69	98.90	175.93
37101	74.80	-8.10	3.00	73.37	32.59	195.11	24.47	223.97	181.67	367.78	52.47	256.86	82.26	92.24	182.10
37102	74.87	-8.70	3.00	71.36	33.44	202.23	26.34	223.07	179.19	352.23	52.04	263.90	84.80	91.00	179.77
37103	75.84	-8.10	3.00	68.28	31.42	190.18	22.79	229.07	186.20	330.38	50.37	259.46	71.32	84.91	186.46
37104	75.89	-8.70	3.00	67.06	32.31	197.57	24.62	228.00	183.46	318.12	50.22	266.24	73.53	83.72	183.83
37105	76.89	-8.10	3.00	64.28	30.82	186.67	21.35	232.81	190.73	298.38	48.12	260.21	61.67	78.15	190.89
37106	76.91	-8.70	3.00	63.74	31.74	194.22	23.15	231.64	187.76	288.77	48.24	266.80	63.61	77.08	187.99
37107	77.93	-8.10	3.00	61.23	30.77	184.83	20.16	235.18	195.24	270.92	45.81	259.29	53.16	71.99	195.33
37108	77.94	-8.70	3.00	61.28	31.71	192.41	21.95	233.98	192.04	263.45	46.19	265.76	54.87	71.16	192.18
37109	89.19	9.43	3.00	65.75	55.73	274.90	37.68	190.07	226.09	132.42	43.32	221.08	29.40	111.19	224.46
37110	90.14	9.39	3.00	66.05	58.33	286.60	40.54	183.25	228.85	124.98	44.43	227.95	33.75	121.68	227.22
37111	91.09	9.35	3.00	66.04	60.90	299.26	43.34	176.35	231.45	116.22	45.46	241.88	38.47	131.56	229.96
37112	89.38	10.30	3.00	69.81	57.99	287.51	38.97	191.13	221.22	128.89	45.04	233.72	29.48	120.52	219.42
37113	90.21	10.18	3.00	69.67	60.01	296.95	41.14	185.34	224.13	122.37	45.57	239.47	33.69	128.78	222.39
37114	91.03	10.05	3.00	69.27	62.09	306.82	43.23	179.36							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
37143	84.57	12.40	3.00	73.67	49.62	268.32	34.10	219.41	191.56	154.17	46.70	280.11	14.14	85.69	190.55
37144	85.63	12.20	3.00	74.32	51.80	273.82	34.76	215.08	196.56	148.32	46.41	269.43	14.34	94.65	195.19
37145	86.68	11.97	3.00	74.70	53.97	280.15	35.77	210.07	201.58	142.71	46.23	259.84	16.96	103.95	199.93
37146	87.70	11.71	3.00	74.77	56.10	287.19	37.07	204.46	206.57	137.05	46.15	252.34	21.01	112.27	204.72
37147	88.70	11.43	3.00	74.46	58.19	294.81	38.64	198.31	211.49	131.07	46.16	248.15	25.77	123.31	209.56
37148	79.04	14.55	3.00	72.97	41.67	289.63	42.21	225.52	156.88	182.27	49.71	362.54	34.17	58.18	160.27
37149	80.22	14.48	3.00	74.82	43.03	288.96	41.13	226.52	160.81	173.67	49.40	354.21	26.43	62.39	163.24
37150	81.38	14.37	3.00	76.47	44.75	289.23	40.18	226.39	165.23	166.19	48.94	343.88	19.54	69.24	166.79
37151	82.53	14.22	3.00	77.86	46.72	290.45	39.39	225.21	170.09	159.63	48.41	332.05	13.61	77.76	170.85
37152	83.65	14.02	3.00	78.97	48.84	292.60	38.82	223.05	175.30	153.76	47.88	319.22	9.39	87.21	175.34
37153	84.75	13.79	3.00	79.76	51.04	295.61	38.50	219.99	180.78	148.33	47.39	306.02	8.73	97.04	180.21
37154	85.83	13.51	3.00	80.20	53.27	299.37	38.46	216.10	186.47	143.12	46.96	293.16	11.86	106.87	185.38
37155	86.89	13.18	3.00	80.25	55.47	303.77	38.73	211.44	192.26	137.89	46.60	281.55	16.59	116.39	190.80
37156	87.92	12.82	3.00	79.87	57.62	308.66	39.34	206.07	198.09	132.45	46.32	272.22	21.83	125.32	196.41
37157	88.92	12.43	3.00	79.05	59.71	313.89	40.30	200.01	203.85	126.59	46.13	266.33	27.22	133.40	202.11
37158	79.06	16.14	3.00	78.60	38.36	329.51	48.08	224.68	140.96	170.21	45.38	408.31	22.96	57.54	148.40
37159	80.26	16.07	3.00	80.80	40.01	328.31	46.95	226.15	144.71	163.71	45.42	398.21	15.91	65.77	150.60
37160	81.45	15.93	3.00	82.66	42.14	327.58	45.79	226.53	149.21	157.89	45.30	385.57	9.37	76.07	153.66
37161	82.62	15.74	3.00	84.13	44.60	327.37	44.65	225.87	154.40	152.59	45.12	371.00	3.33	87.25	157.51
37162	83.78	15.49	3.00	85.18	47.27	327.66	43.59	224.22	160.19	147.64	44.93	355.13	3.15	98.60	162.10
37163	84.90	15.19	3.00	85.81	50.03	328.45	42.67	221.61	166.48	142.86	44.77	338.72	8.71	109.62	167.37
37164	86.01	14.83	3.00	85.96	52.82	329.66	41.97	218.09	173.16	138.07	44.69	322.61	14.25	119.98	173.22
37165	87.08	14.41	3.00	85.63	55.55	331.22	41.56	213.69	180.12	133.13	44.70	307.81	19.69	129.41	179.58
37166	88.12	13.95	3.00	84.80	58.17	333.03	41.53	208.45	187.25	127.88	44.82	295.46	25.02	137.68	186.35
37167	89.12	13.43	3.00	83.45	60.61	335.01	41.95	202.41	194.45	122.26	45.03	286.72	30.24	144.62	193.41
37168	79.06	17.73	3.00	84.69	30.24	373.86	52.89	224.16	116.22	160.92	36.04	461.51	12.39	59.11	131.99
37169	80.29	17.65	3.00	87.08	32.41	372.20	51.76	226.20	119.90	155.91	36.35	449.56	8.71	71.54	133.28
37170	81.50	17.50	3.00	88.99	35.37	370.34	50.49	227.19	124.84	151.21	36.65	434.30	8.01	85.01	135.81
37171	82.70	17.27	3.00	90.40	38.85	368.37	49.13	227.14	130.94	146.71	37.04	416.45	10.33	98.49	139.57
37172	83.87	16.97	3.00	91.29	42.62	366.34	47.74	226.06	138.05	142.30	37.56	396.79	14.00	111.37	144.50
37173	85.03	16.60	3.00	91.65	46.50	364.31	46.39	223.94	145.99	137.88	38.21	376.24	18.09	123.26	150.53
37174	86.15	16.16	3.00	91.46	50.33	362.31	45.19	220.81	154.56	133.32	39.00	355.85	22.30	133.85	157.54
37175	87.24	15.66	3.00	90.70	54.00	360.38	44.22	216.67	163.60	128.54	39.90	336.79	26.54	142.95	165.38
37176	88.30	15.08	3.00	89.37	57.42	358.52	43.59	211.54	172.93	123.42	40.89	320.37	30.76	150.38	173.89
37177	89.31	14.45	3.00	87.43	60.48	356.75	43.42	205.47	182.36	117.85	41.89	307.91	34.94	156.07	182.84
37178	93.89	9.49	3.00	64.83	69.37	342.00	51.37	155.37	234.70	81.67	48.15	327.23	53.82	152.01	235.01
37179	93.31	10.46	3.00	69.68	69.11	345.04	49.40	164.64	226.75	87.54	47.29	316.24	51.53	156.21	227.07
37180	92.67	11.40	3.00	74.39	68.43	348.43	47.68	173.91	218.30	93.63	46.22	307.64	49.20	159.81	218.59
37181	92.96	9.43	3.00	65.61	66.59	327.81	48.96	162.31	234.17	94.04	47.48	292.79	48.82	147.37	233.56
37182	92.56	10.27	3.00	69.70	66.80	332.01	47.63	169.23	227.78	97.38	47.25	290.19	47.05	150.72	227.16
37183	92.11	11.08	3.00	73.70	66.63	336.52	46.34	176.09	220.81	100.95	46.79	288.83	45.13	153.67	220.24
37184	92.03	9.36	3.00	65.79	63.69	313.20	46.21	169.14	233.09	105.02	46.31	263.57	43.70	140.47	231.91
37185	91.81	10.07	3.00	69.17	64.34	318.62	45.49	173.69	228.02	105.89	46.54	267.22	42.68	143.77	226.79
37186	91.56	10.78	3.00	72.51	64.72	324.22	44.68	178.46	222.49	107.44	46.54	271.33	41.40	146.72	221.29
37187	90.25	13.76	3.00	85.13	63.15	354.94	43.81	198.63	191.55	112.36	43.09	300.43	38.98	159.71	191.73
37188	90.01	12.90	3.00	81.80	62.74	336.55	42.74	196.16	201.22	116.98	45.55	282.42	34.87	149.46	200.14
37189	89.76	12.05	3.00	77.98	61.52	318.45	41.43	194.25	208.79	121.15	46.19	264.65	31.92	139.46	207.08
37190	91.12	13.03	3.00	82.09	65.36	352.93	44.75	191.08	200.57	106.42	44.06	298.14	42.77	161.48	200.73
37191	90.78	12.36	3.00	79.59	64.38	337.45	43.78	189.87	207.64	111.59	45.88	282.01	38.79	152.51	206.71
37192	90.44	11.69	3.00	76.67	62.91	322.00	42.49	189.09	213.12	116.12	46.24	266.03	35.64	143.60	211.58
37193	91.94	12.25	3.00	78.61	67.22	351.02	46.03	182.88	209.40	100.18	45.14	301.22	46.20	161.57	209.63
37194	91.52	11.78	3.00	76.98	65.93	338.34	44.99	183.09	213.96	105.86	46.40	285.61	42.35	154.33	213.28
37195	91.10	11.32	3.00	74.99	64.11	325.44	43.69	183.56	217.53	110.72	46.17	270.33	39.20	146.94	216.27
37196	89.00	9.42	4.00	64.51	53.62	253.67	35.97	182.57	217.62	130.55	39.87	206.96	27.90	111.17	216.19
37197	89.94	9.38	4.00	64.52	56.20	263.98	38.65	176.11	220.25	121.87	40.45	213.11	32.24	120.41	218.83
37198	90.87	9.34	4.00	64.35	58.86	274.78	41.36	169.48	222.69	112.43	41.17	225.06	36.86	128.89	221.42
37199	89.18	10.27	4.00	68.34	55.37	264.60	37.09	183.83	212.31	126.47	40.97	217.92	28.10	119.72	210.76
37200	89.99	10.15	4.00	68.04	57.52	272.69	39.20	178.31	215.12	119.19	41.29	222.69	32.28	126.97	213.62
37201	90.80	10.02	4.00	67.59	59.78	280.93	41.31	172.58	217.80	111.61	41.79	231.59	36.51	133.40	216.48
37202	89.34	11.13	4.00	72.24	56.92	276.62	38.22	185.57	206.16	122.65	41.63	230.08	28.88	128.23	204.58
37203	90.03	10.92	4.00	71.65	58.65	282.03	39.67	180.82	209.40	116.84	41.73	232.79	32.54	133.42	217.00
37204	90.71	10.70	4.00	70.79	60.55	287.61	41.49	175.73	212.30	110.53	42.21	238.36	36.47	138.06	211.95
37205	78.96	9.77	4.00	61.95	32.87	192.74	24.83	220.20	179.67	240.75	47.50	261.56	48.19	68.87	180.28
37206	79.99	9.76	4.00	61.54	33.92	193.63	24.12	220.41	184.05	223.61	45.84	256.94	40.64	64.23	184.39
37207	81.01	9.74	4.00	61.49	35.37	195.95	23.77	219.50	188.35	208.59	44.27	251.12	33.99	61.72	188.44
37208	82.02	9.72	4.00	61.71	37.14	199.63	23.85	217.56	192.54	195.40	42.85	244.33	28.27	61.59	192.39
37209	83.03	9.69	4.00	62.11	39.16	204.58	24.40	214.64	196.59	183.76	41.65	236.84	23.62	63.88	196.21
37210	84.04	9.65	4.00	62.61	41.36	210.67	25.43	210.83	200.49	173.40	40.69	229.00	20.30	68.44	199.88
37211	85.05	9.62	4.00	63.15	43.69	217.75	26.91	206.25	204.24	164.06	40.02	221.25	18.68	74.91	203.40
37212	86.05	9.57	4.00	63.67	46.12	225.70	28.78	200.99	207.84	155.42	39.64	214.19	18.94	82.87	206.78
37213	87.														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
37241	85.69	13.39	4.00	78.77	48.77	274.22	36.49	207.78	176.06	143.32	42.37	272.77	10.88	107.22	175.44
37242	86.73	13.08	4.00	78.70	51.33	277.84	36.78	203.49	181.94	137.11	42.01	261.19	15.94	116.18	180.89
37243	87.74	12.73	4.00	78.23	53.85	281.89	37.43	198.48	187.88	130.81	41.81	251.78	21.19	124.48	186.56
37244	88.72	12.34	4.00	77.34	56.32	286.26	38.47	192.78	193.80	124.28	41.76	245.56	26.43	131.84	192.37
37245	79.04	15.95	4.00	77.09	32.31	300.43	45.59	214.54	128.29	173.72	40.73	382.06	21.87	61.79	137.15
37246	80.22	15.88	4.00	79.26	34.13	299.06	44.46	216.24	132.26	166.70	40.70	372.14	14.79	68.74	139.34
37247	81.39	15.75	4.00	81.07	36.51	298.04	43.32	216.89	136.98	160.20	40.53	359.67	8.23	78.03	142.42
37248	82.54	15.57	4.00	82.49	39.27	297.50	42.22	216.53	142.39	154.13	40.31	345.31	2.18	88.42	146.33
37249	83.67	15.32	4.00	83.50	42.26	297.43	41.23	215.21	148.39	148.35	40.13	329.69	3.83	99.11	151.00
37250	84.78	15.03	4.00	84.07	45.35	297.84	40.40	212.96	154.91	142.76	40.02	313.54	9.32	109.54	156.37
37251	85.86	14.68	4.00	84.18	48.46	298.67	39.81	209.82	161.83	137.21	40.02	297.69	14.63	119.33	162.37
37252	86.91	14.28	4.00	83.82	51.52	299.87	39.53	205.81	169.05	131.61	40.16	283.09	19.76	128.19	168.91
37253	87.93	13.82	4.00	82.99	54.46	301.36	39.64	200.97	176.45	125.83	40.43	270.81	24.74	135.89	175.87
37254	88.92	13.32	4.00	81.68	57.22	303.05	40.17	195.31	183.93	119.83	40.81	261.93	29.59	142.23	183.15
37255	79.05	17.50	4.00	82.50	26.84	336.18	50.10	213.89	103.98	162.05	33.47	428.96	12.64	62.85	121.07
37256	80.25	17.43	4.00	84.89	29.09	334.40	48.98	216.15	107.84	156.67	33.66	417.29	9.74	73.68	122.30
37257	81.44	17.28	4.00	86.81	32.13	332.46	47.76	217.41	112.98	151.51	33.87	402.39	9.68	85.94	124.81
37258	82.61	17.06	4.00	88.24	35.68	330.48	46.49	217.68	119.30	146.52	34.19	384.99	11.97	98.48	128.59
37259	83.76	16.77	4.00	89.16	39.51	328.54	45.24	216.95	126.64	141.61	34.68	365.85	15.30	110.60	133.58
37260	84.90	16.41	4.00	89.57	43.43	326.68	44.08	215.22	134.80	136.73	35.34	345.86	18.98	121.83	139.70
37261	86.00	15.98	4.00	89.44	47.32	324.95	43.08	212.49	143.61	131.79	36.17	326.02	22.75	131.86	146.84
37262	87.07	15.48	4.00	88.78	51.06	323.36	42.33	208.78	152.88	126.73	37.15	307.46	26.54	140.44	154.83
37263	88.10	14.93	4.00	87.58	54.59	321.90	41.94	204.08	162.44	121.46	38.24	291.44	30.31	147.40	163.51
37264	89.10	14.31	4.00	85.81	57.81	320.59	41.98	198.44	172.09	115.89	39.37	279.20	34.05	152.65	172.65
37265	93.61	9.48	4.00	64.23	68.13	309.63	50.07	150.13	225.67	80.88	45.02	297.29	51.72	146.50	226.07
37266	93.04	10.43	4.00	69.05	67.57	311.88	48.27	159.27	217.47	86.74	44.41	286.62	49.51	151.05	217.88
37267	92.41	11.33	4.00	73.67	66.66	314.45	46.66	168.32	208.84	92.75	43.62	278.25	47.26	154.92	209.20
37268	92.70	9.42	4.00	64.18	64.90	298.32	47.15	156.40	225.17	90.93	43.37	267.62	46.83	142.67	224.72
37269	92.30	10.23	4.00	68.29	64.83	301.50	45.93	163.30	218.47	94.48	43.22	264.46	45.18	146.30	218.01
37270	91.86	11.03	4.00	72.30	64.40	304.94	44.72	170.08	211.22	98.22	42.85	262.52	43.41	149.45	210.80
37271	91.79	9.35	4.00	64.17	61.82	286.45	44.32	162.74	224.22	101.52	42.12	243.39	41.89	136.70	223.25
37272	91.57	10.05	4.00	67.58	62.21	290.75	43.71	167.38	218.88	102.70	42.43	245.76	40.95	140.18	217.86
37273	91.32	10.73	4.00	70.94	62.37	295.16	43.00	172.17	213.08	104.47	42.53	248.62	39.79	143.25	212.10
37274	90.03	13.64	4.00	83.71	60.67	319.29	42.56	192.01	181.51	110.54	40.66	271.79	37.71	155.87	181.75
37275	89.79	12.80	4.00	80.10	59.64	304.44	41.05	189.40	190.94	114.33	41.45	257.34	33.87	146.55	190.08
37276	89.55	11.97	4.00	76.26	58.44	290.09	39.68	187.33	198.89	118.45	41.98	243.36	30.91	137.26	197.47
37277	90.88	12.93	4.00	80.91	63.09	317.81	43.62	184.83	190.73	104.87	41.67	269.40	41.19	157.26	190.94
37278	90.55	12.27	4.00	77.99	61.55	305.33	42.15	183.40	197.58	108.86	41.87	256.51	37.51	149.12	196.84
37279	90.22	11.62	4.00	74.98	60.08	293.10	40.81	182.43	203.37	113.26	42.16	244.10	34.40	140.90	202.09
37280	91.69	12.17	4.00	77.70	65.21	316.39	45.01	176.98	199.76	99.01	42.77	272.14	44.38	157.00	200.05
37281	91.28	11.71	4.00	75.51	63.40	306.20	43.39	176.88	204.11	103.18	42.45	259.41	40.85	150.45	203.59
37282	90.87	11.26	4.00	73.37	61.54	296.02	42.05	177.17	207.93	107.83	42.18	247.52	37.74	143.74	206.90
37283	67.72	9.45	3.00	140.65	60.18	261.40	58.00	157.73	151.05	771.82	50.05	205.81	258.99	161.96	169.30
37284	66.77	9.40	3.00	166.64	67.56	268.92	68.05	146.97	148.66	903.03	54.23	205.64	310.53	171.00	173.60
37285	65.82	9.36	3.00	203.48	76.84	277.37	82.69	136.81	146.74	1079.64	65.88	232.86	381.05	174.86	179.65
37286	67.56	10.34	3.00	119.07	66.31	276.94	64.10	155.75	148.97	659.77	55.33	221.90	277.14	173.43	173.56
37287	66.73	10.21	3.00	136.95	73.95	282.88	73.88	146.57	147.50	750.29	68.20	223.36	327.56	185.36	178.73
37288	65.90	10.07	3.00	160.90	84.44	289.38	88.13	137.81	146.45	863.49	93.06	246.55	396.82	196.25	184.80
37289	67.41	11.22	3.00	94.52	72.34	294.62	65.92	154.03	146.43	533.40	69.84	240.55	269.71	184.87	179.45
37290	66.69	11.00	3.00	105.19	79.45	298.11	73.94	146.28	145.72	590.08	86.35	241.32	313.28	198.24	185.07
37291	65.99	10.77	3.00	120.27	90.34	302.11	84.38	138.60	145.11	664.07	119.38	258.62	364.31	212.12	191.88
37292	77.93	9.79	3.00	61.88	33.70	207.17	25.56	231.72	185.54	249.37	46.85	279.43	56.56	69.32	185.85
37293	76.90	9.79	3.00	63.41	33.68	208.98	26.80	229.31	181.57	271.84	48.41	280.67	65.88	75.11	182.04
37294	75.87	9.77	3.00	65.66	34.22	212.12	28.29	225.66	177.66	297.89	49.84	280.16	76.46	81.88	178.35
37295	74.84	9.75	3.00	68.79	35.34	216.41	30.03	220.77	173.83	328.11	51.05	277.74	88.53	89.52	174.88
37296	73.81	9.73	3.00	72.95	37.03	221.61	32.05	214.67	170.12	363.27	51.92	273.22	102.36	97.99	171.72
37297	72.79	9.69	3.00	78.36	39.28	227.50	34.41	207.41	166.54	404.38	52.36	266.43	118.37	107.26	169.01
37298	71.76	9.65	3.00	85.31	42.10	233.86	37.24	199.07	163.11	452.80	52.27	257.23	137.07	117.31	166.91
37299	70.74	9.61	3.00	94.23	45.52	240.52	40.68	189.74	159.83	510.45	51.65	245.58	159.20	128.12	165.62
37300	69.72	9.55	3.00	105.77	49.61	247.34	45.00	179.56	156.71	580.15	50.62	231.81	185.79	139.53	165.38
37301	68.71	9.50	3.00	120.94	54.49	254.28	50.58	168.71	153.77	666.21	49.64	217.18	218.38	151.20	166.42
37302	77.92	11.38	3.00	63.70	36.97	230.70	31.09	228.43	175.60	229.23	48.58	302.31	56.03	66.20	176.42
37303	76.85	11.36	3.00	63.88	36.90	232.54	32.36	225.81	172.03	247.96	49.50	303.83	65.94	71.69	173.20
37304	75.78	11.32	3.00	64.60	37.44	235.44	33.82	221.99	168.67	269.71	50.20	303.24	77.20	78.75	170.30
37305	74.72	11.26	3.00	66.01	38.60	239.23	35.50	216.97	165.53	294.99	50.57	300.37	90.07	87.16	167.82
37306	73.66	11.18	3.00	68.29	40.40	243.73	37.42	210.80	162.60	324.43	50.53	295.01	104.87	96.78	165.86
37307	72.61	11.08	3.00	71.66	42.84	248.74	39.69	203.55	159.89	358.83	50.02	287.01	122.10	107.52	164.55
37308	71.57	10.96	3.00	76.40	45.94	254.10	42.42	195.29	157.36	399.30	49.10	276.28	142.38	119.32	164.06
37309	70.53	10.82	3.00	82.91	49.74	259.67	45.84	186.13	155.01	447.41	48.04	262.91	166.63	132.14	164.55
37310	69.50	10.66	3.00	91.79	54.36	265.36	50.29	176.22	152.81	505.51	47.60	247.50	196.25	145.	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
37339	69.90	14.46	3.00	56.56	54.87	337.72	53.21	177.25	135.72	259.90	42.23	345.18	115.66	138.44	168.01
37340	68.85	13.99	3.00	54.99	61.02	337.34	54.19	167.71	136.37	277.93	48.68	319.64	136.47	159.05	176.11
37341	67.83	13.47	3.00	54.50	68.54	336.54	55.88	157.79	136.98	298.40	61.97	295.60	161.21	181.11	185.99
37342	77.84	17.74	3.00	81.89	29.24	375.15	53.82	221.09	113.86	166.38	35.75	469.43	17.70	49.75	131.92
37343	76.63	17.66	3.00	78.68	29.50	375.94	54.52	217.05	112.87	172.19	35.34	472.73	24.07	46.39	133.17
37344	75.43	17.51	3.00	75.14	31.08	376.22	54.99	212.03	113.04	178.50	34.79	471.10	31.41	50.91	135.66
37345	74.23	17.29	3.00	71.30	33.81	375.91	55.22	206.06	114.19	185.32	34.08	464.15	39.76	62.21	139.41
37346	73.06	16.99	3.00	67.25	37.47	374.96	55.21	199.19	116.08	192.63	33.28	451.61	49.24	77.82	144.45
37347	71.91	16.62	3.00	63.07	41.88	373.32	54.98	191.52	118.48	200.42	32.71	433.36	59.97	96.03	150.84
37348	70.78	16.18	3.00	58.88	46.90	370.99	54.59	183.12	121.16	208.65	33.02	409.60	72.16	115.96	158.62
37349	69.69	15.67	3.00	54.82	52.54	368.00	54.11	174.13	123.92	217.35	35.41	381.12	86.05	137.24	167.86
37350	68.63	15.10	3.00	51.06	58.87	364.42	53.68	164.70	126.62	226.73	41.52	349.89	101.98	159.74	178.60
37351	67.61	14.46	3.00	47.89	66.16	360.40	53.52	155.01	129.13	237.70	53.00	320.42	120.40	183.46	190.99
37352	63.01	9.50	3.00	427.60	309.41	346.98	289.14	145.90	172.08	1968.63	864.33	918.71	1175.08	310.22	305.19
37353	63.60	10.47	3.00	80.35	178.05	337.65	109.11	115.06	143.13	468.84	399.50	588.01	437.98	379.83	297.75
37354	64.24	11.40	3.00	58.91	127.55	343.53	70.76	121.34	138.60	357.27	227.71	446.53	264.74	311.26	262.65
37355	63.95	9.43	3.00	323.33	123.81	308.28	151.10	127.78	146.89	1590.31	195.57	520.87	670.67	176.86	215.20
37356	64.36	10.28	3.00	173.55	138.40	318.18	131.93	124.47	147.98	890.44	275.12	432.44	566.12	255.08	217.72
37357	64.81	11.10	3.00	86.10	119.76	325.53	89.46	126.15	142.15	494.40	215.02	358.10	368.04	272.29	227.04
37358	64.88	9.37	3.00	254.86	93.72	289.53	107.16	128.63	145.87	1311.40	101.97	319.77	489.06	172.57	189.62
37359	65.11	10.09	3.00	180.56	101.54	300.49	107.80	130.11	146.17	947.46	145.51	310.64	480.91	212.69	195.47
37360	65.37	10.80	3.00	118.27	104.59	310.90	94.31	132.24	144.59	649.02	165.99	299.10	404.83	233.70	202.51
37361	66.66	13.78	3.00	45.73	74.92	356.01	54.01	145.55	131.50	249.84	72.76	301.99	141.57	208.55	204.25
37362	66.93	12.93	3.00	55.55	77.35	335.08	58.60	148.61	137.72	320.92	83.82	281.36	189.51	202.93	196.15
37363	67.20	12.09	3.00	71.60	76.63	314.16	63.07	151.48	142.53	413.80	83.78	260.49	234.20	195.12	187.17
37364	65.79	13.04	3.00	45.05	85.85	351.40	55.73	136.57	133.69	265.48	100.84	307.28	167.56	236.22	219.64
37365	66.15	12.38	3.00	58.74	87.49	333.04	63.18	140.38	138.60	349.55	112.12	283.69	224.48	224.64	207.05
37366	66.50	11.73	3.00	78.52	85.15	314.93	69.18	144.07	142.48	455.42	108.08	261.15	271.67	211.13	194.41
37367	64.97	12.26	3.00	45.81	100.90	347.10	60.24	128.07	136.04	283.62	143.67	351.28	204.25	269.59	237.92
37368	65.40	11.80	3.00	65.33	101.45	331.13	71.22	132.53	139.70	389.69	154.64	312.25	273.75	249.17	219.38
37369	65.83	11.34	3.00	88.36	95.03	315.53	79.02	136.81	142.91	506.78	135.38	277.73	325.72	229.15	202.34
37370	67.91	9.43	4.00	133.19	57.73	242.24	55.96	146.61	135.26	745.93	46.71	195.31	250.37	231.44	167.58
37371	66.97	9.39	4.00	155.24	64.79	248.90	64.89	135.58	131.14	864.45	50.45	193.88	297.97	262.04	175.54
37372	66.04	9.35	4.00	186.10	73.70	256.20	77.69	124.58	126.62	1025.48	62.96	214.30	363.33	299.18	187.22
37373	67.74	10.29	4.00	113.92	62.59	256.48	61.08	144.95	132.27	642.14	50.30	209.39	265.78	229.06	173.20
37374	66.92	10.16	4.00	129.18	69.72	261.60	69.49	135.57	129.09	724.42	62.64	209.87	311.37	255.03	181.91
37375	66.11	10.03	4.00	149.38	79.39	267.17	81.50	126.33	125.60	828.22	87.07	228.80	373.96	286.16	193.37
37376	67.58	11.15	4.00	91.98	67.40	272.10	62.60	143.55	129.12	524.27	62.94	225.59	258.75	224.63	178.83
37377	66.89	10.94	4.00	101.36	73.93	275.04	69.42	135.75	127.02	576.74	78.49	225.92	298.12	246.12	187.19
37378	66.20	10.71	4.00	114.39	83.67	278.51	78.12	127.88	124.55	645.37	109.61	241.12	343.98	271.13	197.88
37379	77.94	9.77	4.00	62.85	32.29	193.18	25.82	218.88	175.30	260.31	49.13	264.78	56.66	75.39	176.24
37380	76.92	9.76	4.00	64.30	32.24	194.89	27.04	216.42	171.02	282.66	50.65	266.28	66.11	83.47	172.35
37381	75.91	9.75	4.00	66.44	32.76	197.80	28.47	212.79	166.78	308.19	51.97	266.06	76.72	92.95	168.67
37382	74.89	9.73	4.00	69.39	33.85	201.71	30.12	208.02	162.62	337.41	52.95	263.92	88.68	103.77	165.30
37383	73.88	9.70	4.00	73.28	35.49	206.41	32.02	202.11	158.56	371.00	53.49	259.71	102.27	115.98	162.37
37384	72.87	9.66	4.00	78.28	37.67	211.72	34.25	195.12	154.60	409.84	53.46	253.26	117.83	129.69	160.07
37385	71.87	9.63	4.00	84.63	40.39	217.44	36.90	187.09	150.72	455.09	52.77	244.46	135.84	145.11	158.59
37386	70.87	9.58	4.00	92.68	43.68	223.43	40.12	178.08	146.90	508.42	51.37	233.31	156.95	162.54	158.20
37387	69.87	9.53	4.00	102.93	47.60	229.58	44.12	168.21	143.09	572.28	49.38	220.17	182.08	182.42	159.24
37388	68.87	9.48	4.00	116.21	52.28	235.84	49.24	157.57	139.23	650.48	47.29	206.26	212.61	205.37	162.12
37389	77.92	11.32	4.00	64.14	34.14	214.93	30.89	216.60	165.74	238.86	48.96	286.59	55.75	71.75	167.52
37390	76.86	11.29	4.00	64.31	34.05	216.68	32.12	213.88	161.85	257.82	49.83	288.22	65.89	79.22	164.30
37391	75.80	11.24	4.00	65.02	34.59	219.41	33.52	210.03	158.12	279.45	50.38	287.82	77.25	88.60	161.45
37392	74.75	11.18	4.00	66.39	35.76	222.93	35.10	205.06	154.58	304.17	50.50	285.12	90.06	99.69	159.11
37393	73.71	11.10	4.00	68.57	37.57	227.04	36.91	199.01	151.19	332.54	50.09	279.97	104.62	112.39	157.42
37394	72.68	11.00	4.00	71.75	40.00	231.58	39.03	191.94	147.95	365.25	49.10	272.23	121.35	126.73	156.54
37395	71.66	10.88	4.00	76.15	43.05	236.39	41.58	183.90	144.82	403.28	47.56	261.83	140.80	142.81	156.69
37396	70.64	10.75	4.00	82.09	46.76	241.36	44.75	174.99	141.74	447.99	45.71	248.90	163.79	160.87	158.12
37397	69.64	10.60	4.00	90.06	51.22	246.39	48.81	165.30	138.64	501.49	44.32	234.08	191.50	181.30	161.13
37398	68.65	10.43	4.00	100.84	56.64	251.44	54.22	154.94	135.46	567.37	45.22	219.13	225.77	204.66	166.10
37399	77.90	12.86	4.00	66.58	35.31	239.84	36.20	214.58	154.99	217.72	48.17	313.75	50.71	67.52	158.29
37400	76.80	12.82	4.00	65.54	35.18	241.57	37.37	211.59	151.59	232.94	48.42	315.65	60.89	73.92	155.93
37401	75.71	12.75	4.00	64.81	35.75	244.08	38.62	207.50	148.48	250.19	48.26	315.10	72.22	82.96	154.14
37402	74.62	12.64	4.00	64.51	37.03	247.12	39.98	202.35	145.65	269.78	47.62	311.78	84.96	94.22	153.05
37403	73.55	12.51	4.00	64.79	39.03	250.55	41.49	196.17	143.05	292.10	46.45	305.51	99.41	107.40	152.79
37404	72.50	12.34	4.00	65.81	41.75	254.20	43.23	189.03	140.64	317.64	44.83	296.16	115.99	122.36	153.53
37405	71.45	12.15	4.00	67.80	45.19	257.95	45.33	181.00	138.34	347.07	43.09	283.73	135.26	139.07	155.44
37406	70.43	11.92	4.00	71.05	49.41	261.68	48.00	172.16	136.08	381.33	42.06	268.51	158.05	157.66	158.76
37407	69.42	11.67	4.00	75.97	54.54	265.34	51.54	162.62	133.78	421.86	43.61	251.43	185.61	178.43	163.76
37408	68.43	11.40	4.00	83.13	60.88	268.									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
37437	68.81	14.94	4.00	49.95	54.95	331.04	51.77	154.56	112.85	226.45	37.37	322.72	99.93	161.69	169.19
37438	67.81	14.32	4.00	47.27	61.90	327.86	51.67	145.15	114.83	237.39	48.49	294.91	117.74	184.15	181.39
37439	63.29	9.48	4.00	369.86	257.12	330.90	239.39	117.43	111.03	1897.96	776.00	950.68	1071.71	587.44	353.76
37440	63.87	10.43	4.00	80.91	158.15	317.88	98.61	107.17	116.35	461.91	374.67	587.80	407.40	390.88	279.32
37441	64.50	11.34	4.00	59.65	116.94	316.95	67.34	112.24	117.98	355.33	217.04	429.93	255.87	308.99	248.23
37442	64.20	9.42	4.00	286.55	114.99	284.48	134.24	107.57	115.74	1527.96	182.09	444.51	632.74	401.84	235.21
37443	64.61	10.24	4.00	158.68	124.26	293.50	116.58	111.97	118.70	856.23	254.45	396.42	527.03	350.33	234.12
37444	65.05	11.04	4.00	84.95	108.81	299.86	82.64	116.48	119.52	488.88	199.12	336.55	349.21	305.23	228.78
37445	65.11	9.35	4.00	228.98	89.17	266.55	98.57	114.41	121.38	1244.57	99.44	281.51	464.45	344.58	205.70
37446	65.34	10.06	4.00	165.42	94.38	277.11	97.54	117.96	121.82	906.38	136.85	283.94	449.67	317.78	210.25
37447	65.59	10.74	4.00	112.63	95.81	286.45	86.28	121.66	122.22	632.43	152.69	278.08	380.75	292.02	210.06
37448	66.88	13.65	4.00	45.69	70.12	324.47	52.16	135.98	116.45	249.68	67.78	278.27	138.29	207.98	194.42
37449	67.13	12.82	4.00	55.60	71.78	306.52	56.14	138.75	121.14	319.78	77.39	260.37	184.14	214.20	190.08
37450	67.38	11.99	4.00	71.04	71.09	289.01	60.11	141.38	125.34	410.35	76.46	242.78	226.17	219.39	184.62
37451	66.03	12.94	4.00	45.66	80.19	321.07	53.77	127.29	117.57	265.82	95.12	285.55	163.47	234.31	209.14
37452	66.37	12.28	4.00	58.97	80.97	305.02	60.23	130.69	120.87	348.06	104.22	263.37	217.00	238.37	202.02
37453	66.71	11.64	4.00	77.48	78.76	289.71	65.41	134.05	124.11	450.05	99.17	243.54	260.61	240.32	193.96
37454	65.22	12.17	4.00	47.21	93.85	318.36	57.87	119.04	118.30	285.22	136.91	331.71	198.96	266.73	225.84
37455	65.64	11.72	4.00	65.47	93.30	303.86	67.31	122.93	120.27	387.71	144.04	291.61	263.08	267.17	215.64
37456	66.05	11.27	4.00	86.56	87.48	290.38	73.72	126.82	122.88	499.36	124.38	259.27	309.76	265.57	204.28
37457	88.99	-9.43	4.00	64.55	53.58	253.77	36.02	182.68	217.64	130.60	39.84	207.09	27.92	111.08	216.21
37458	89.93	-9.39	4.00	64.55	56.18	264.10	38.70	176.21	220.29	121.92	40.43	213.20	32.26	120.33	218.87
37459	90.86	-9.35	4.00	64.39	58.85	274.91	41.41	169.57	222.75	112.48	41.15	225.10	36.89	128.82	221.48
37460	89.16	-10.29	4.00	68.41	55.32	264.70	37.12	184.04	212.23	126.59	40.94	218.15	28.07	119.56	210.67
37461	89.98	-10.16	4.00	68.10	57.48	272.81	39.24	178.49	215.08	119.31	41.26	222.80	32.27	126.84	213.58
37462	90.79	-10.03	4.00	67.66	59.78	281.07	41.35	172.74	217.80	111.71	41.77	231.62	36.51	133.30	216.48
37463	89.32	-11.15	4.00	72.33	56.86	276.73	38.25	185.82	206.00	122.81	41.62	230.36	28.82	128.04	204.42
37464	90.01	-10.94	4.00	71.73	58.61	282.15	39.71	181.05	209.30	116.99	41.71	232.92	32.51	133.27	207.85
37465	90.70	-10.71	4.00	70.86	60.52	287.74	41.53	175.92	212.25	110.66	42.20	238.40	36.46	137.95	210.95
37466	78.96	-9.77	4.00	61.97	32.85	192.76	24.84	220.21	179.65	240.80	47.51	261.62	48.23	68.90	180.26
37467	79.98	-9.76	4.00	61.56	33.88	193.67	24.14	220.44	184.00	223.70	45.85	257.07	40.72	64.26	184.35
37468	80.99	-9.75	4.00	61.52	35.31	196.01	23.80	219.56	188.29	208.70	44.27	251.34	34.09	61.75	188.38
37469	82.01	-9.73	4.00	61.75	37.07	199.70	23.89	217.64	192.46	195.50	42.84	244.62	28.37	61.59	192.32
37470	83.02	-9.70	4.00	62.15	39.08	204.66	24.44	214.75	196.51	183.85	41.63	237.18	23.70	63.86	196.14
37471	84.03	-9.66	4.00	62.66	41.28	210.75	25.47	210.96	200.42	173.48	40.66	229.36	20.36	68.39	199.81
37472	85.03	-9.63	4.00	63.19	43.61	217.83	26.95	206.38	204.18	164.12	39.98	221.60	18.71	74.84	203.34
37473	86.03	-9.58	4.00	63.71	46.04	225.77	28.82	201.13	207.79	155.48	39.59	214.51	18.95	82.78	206.73
37474	87.03	-9.53	4.00	64.15	48.56	234.48	31.02	195.31	211.26	147.24	39.49	208.94	20.89	91.78	210.01
37475	88.03	-9.48	4.00	64.47	51.15	243.89	33.46	189.06	214.59	139.06	39.67	206.01	24.08	101.40	213.19
37476	78.98	-11.32	4.00	64.38	34.79	214.18	29.81	218.19	169.86	222.36	47.91	282.83	46.68	66.51	171.10
37477	80.04	-11.29	4.00	64.87	35.94	214.48	28.95	218.68	174.16	207.94	46.71	277.28	38.62	63.79	174.95
37478	81.10	-11.24	4.00	65.52	37.49	216.07	28.39	218.08	178.54	195.28	45.50	270.39	31.48	63.69	178.91
37479	82.15	-11.18	4.00	66.26	39.34	218.88	28.17	216.45	182.95	184.11	44.35	262.39	25.30	66.09	182.94
37480	83.19	-11.10	4.00	66.99	41.41	222.86	28.35	213.87	187.36	174.18	43.32	253.61	20.29	70.70	187.01
37481	84.22	-11.00	4.00	67.66	43.63	227.91	28.95	210.42	191.76	165.24	42.46	244.48	16.88	77.07	191.07
37482	85.24	-10.88	4.00	68.21	45.94	233.92	29.97	206.20	196.11	157.04	41.79	235.51	15.68	84.72	195.12
37483	86.26	-10.75	4.00	68.60	48.30	240.76	31.36	201.30	200.40	149.32	41.33	227.41	16.87	93.24	199.14
37484	87.26	-10.60	4.00	68.78	50.70	248.32	33.09	195.82	204.60	141.79	41.08	221.05	19.86	102.21	203.14
37485	88.25	-10.43	4.00	68.74	53.14	256.49	35.08	189.84	208.69	134.20	41.03	217.56	23.91	111.26	207.11
37486	79.00	-12.86	4.00	67.80	36.06	238.78	35.10	216.48	158.81	204.44	47.65	309.23	41.57	64.14	161.25
37487	80.10	-12.82	4.00	69.03	37.34	238.51	34.13	217.30	163.00	192.77	46.89	302.49	33.42	64.00	164.70
37488	81.19	-12.75	4.00	70.23	39.02	239.33	33.35	217.05	167.43	182.45	46.03	294.19	26.16	66.77	168.47
37489	82.28	-12.64	4.00	71.33	40.98	241.20	32.83	215.80	172.07	173.23	45.12	284.60	19.83	71.91	172.52
37490	83.35	-12.51	4.00	72.27	43.14	244.09	32.61	213.61	176.88	164.92	44.26	274.14	14.79	78.77	176.79
37491	84.40	-12.34	4.00	72.99	45.42	247.94	32.74	210.56	181.81	157.30	43.48	263.32	11.92	86.76	181.24
37492	85.45	-12.15	4.00	73.46	47.76	252.65	33.22	206.72	186.81	150.13	42.82	252.74	12.25	95.40	185.83
37493	86.47	-11.92	4.00	73.65	50.12	258.10	34.07	202.16	191.83	143.21	42.30	243.17	15.27	104.27	190.53
37494	87.48	-11.67	4.00	73.52	52.49	264.15	35.26	196.96	196.84	136.32	41.95	235.54	19.64	113.03	195.31
37495	88.47	-11.40	4.00	73.04	54.87	270.67	36.76	191.15	201.81	129.25	41.79	230.93	24.55	121.34	200.17
37496	79.02	-14.41	4.00	72.11	35.54	267.52	40.48	215.26	145.61	188.01	45.60	342.22	33.04	62.29	150.30
37497	80.16	-14.35	4.00	73.89	37.00	266.70	39.43	216.47	149.64	178.88	45.23	334.06	25.23	65.40	153.17
37498	81.28	-14.25	4.00	75.47	38.91	266.70	38.46	216.65	154.12	170.67	44.69	324.00	18.14	71.36	156.61
37499	82.39	-14.11	4.00	76.79	41.12	267.50	37.64	215.83	159.02	163.20	44.08	312.38	11.88	79.20	160.58
37500	83.49	-13.92	4.00	77.82	43.54	269.08	37.01	214.08	164.28	156.29	43.45	299.72	7.20	88.10	165.01
37501	84.58	-13.69	4.00	78.51	46.07	271.42	36.64	211.45	169.84	149.79	42.87	286.62	6.83	97.47	169.84
37502	85.64	-13.42	4.00	78.83	48.64	274.43	36.56	207.98	175.62	143.51	42.39	273.79	10.72	106.83	175.03
37503	86.68	-13.11	4.00	78.78	51.22	278.01	36.83	203.73	181.55	137.29	42.03	262.07	15.79	115.84	180.52
37504	87.70	-12.76	4.00	78.31	53.77	282.05	37.47	198.73	187.56	130.99	41.81	252.46	21.07	124.18	186.25
37505	88.69	-12.36	4.00	77.42	56.25	286.39	38.50	193.02	193.56	124.45	41.75	246.01	26.34	131.61	192.14
37506	79.04	-15.96	4.00	77.10	32.29	300.48	45.60	214.47	128.19	173.82	40.76	382.27</			



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
37535	90.02	-13.65	4.00	83.76	60.66	319.44	42.60	192.07	181.49	110.60	40.67	271.94	37.75	155.79	181.70
37536	89.77	-12.82	4.00	80.16	59.61	304.60	41.10	189.57	190.82	114.45	41.45	257.57	33.86	146.40	189.95
37537	89.52	-11.99	4.00	76.34	58.39	290.23	39.72	187.56	198.72	118.61	41.98	243.63	30.86	137.09	197.29
37538	90.87	-12.94	4.00	80.95	63.09	317.96	43.67	184.90	190.74	104.92	41.68	269.50	41.24	157.20	190.93
37539	90.53	-12.28	4.00	78.05	61.54	305.49	42.19	183.56	197.51	108.97	41.87	256.62	37.52	149.01	196.76
37540	90.19	-11.64	4.00	75.06	60.04	293.24	40.85	182.65	203.25	113.41	42.16	244.24	34.38	140.77	201.96
37541	91.68	-12.17	4.00	77.73	65.21	316.56	45.05	177.05	199.79	99.05	42.79	272.19	44.43	156.94	200.07
37542	91.26	-11.72	4.00	75.57	63.39	306.36	43.43	177.02	204.09	103.27	42.45	259.44	40.86	150.36	203.56
37543	90.85	-11.27	4.00	73.44	61.52	296.16	42.09	177.35	207.88	107.96	42.17	247.57	37.73	143.63	206.84
37544	89.18	-9.45	3.00	65.81	55.70	274.91	37.72	190.23	226.05	132.50	43.32	221.21	29.41	111.09	224.42
37545	90.13	-9.40	3.00	66.11	58.31	286.63	40.59	183.40	228.84	125.08	44.44	227.98	33.77	121.59	227.21
37546	91.08	-9.36	3.00	66.10	60.90	299.32	43.39	176.48	231.48	116.32	45.47	241.84	38.51	131.49	229.99
37547	89.34	-10.34	3.00	69.94	57.95	287.49	38.97	191.52	220.93	129.11	45.04	234.01	29.36	120.30	219.12
37548	90.17	-10.21	3.00	69.79	59.98	296.95	41.15	185.68	223.93	122.58	45.57	239.52	33.61	128.61	222.18
37549	91.00	-10.07	3.00	69.39	62.08	306.85	43.25	179.64	226.76	115.32	46.12	250.08	38.01	136.12	225.19
37550	89.49	-11.22	3.00	74.03	59.85	301.96	40.13	193.22	215.21	125.64	46.06	248.69	29.86	129.47	213.35
37551	90.21	-11.00	3.00	73.48	61.36	308.43	41.54	188.18	218.54	120.20	46.11	252.05	33.69	135.45	216.82
37552	90.91	-10.77	3.00	72.59	63.05	315.15	43.31	182.73	221.48	113.98	46.44	258.75	37.86	140.85	219.92
37553	78.97	-9.79	3.00	60.99	34.24	206.85	24.58	232.90	189.57	230.02	45.32	276.57	48.33	64.70	189.73
37554	80.00	-9.79	3.00	60.59	35.27	208.07	23.93	232.86	193.58	213.34	43.85	272.35	41.05	61.42	193.59
37555	81.03	-9.77	3.00	60.60	36.71	210.84	23.68	231.64	197.56	199.01	42.55	266.88	34.69	59.79	197.41
37556	82.06	-9.75	3.00	60.94	38.50	215.08	23.89	229.29	201.46	186.73	41.51	260.35	29.26	60.08	201.13
37557	83.09	-9.73	3.00	61.51	40.56	220.68	24.61	225.89	205.28	176.22	40.79	253.00	24.91	62.43	204.75
37558	84.11	-9.69	3.00	62.23	42.84	227.47	25.84	221.53	209.00	167.19	40.43	245.12	21.85	66.83	208.24
37559	85.14	-9.65	3.00	63.05	45.28	235.31	27.56	216.33	212.61	159.33	40.44	237.13	20.40	73.13	211.63
37560	86.16	-9.61	3.00	63.88	47.85	244.04	29.70	210.42	216.13	152.33	40.81	229.60	20.68	81.05	214.92
37561	87.18	-9.55	3.00	64.67	50.49	253.58	32.18	203.95	219.56	145.82	41.51	223.60	22.55	90.28	218.15
37562	88.19	-9.50	3.00	65.37	53.20	263.92	34.91	197.10	222.92	139.38	42.46	220.22	25.63	100.47	221.34
37563	78.98	-11.38	3.00	63.94	37.58	230.08	30.03	229.86	179.37	213.12	47.60	298.89	47.22	62.50	179.89
37564	80.05	-11.36	3.00	64.47	38.71	230.74	29.25	230.09	183.29	199.25	46.59	293.80	39.45	60.86	183.53
37565	81.12	-11.32	3.00	65.21	40.23	232.73	28.79	229.19	187.36	187.35	45.65	287.24	32.60	61.43	187.31
37566	82.18	-11.26	3.00	66.07	42.06	236.01	28.70	227.20	191.53	177.15	44.86	279.45	26.72	64.17	191.19
37567	83.24	-11.18	3.00	66.97	44.13	240.54	29.04	224.19	195.79	168.37	44.28	270.74	22.01	68.90	195.15
37568	84.29	-11.08	3.00	67.85	46.36	246.20	29.83	220.27	200.10	160.74	43.94	261.51	18.84	75.30	199.15
37569	85.33	-10.96	3.00	68.65	48.70	252.88	31.05	215.54	204.43	153.96	43.84	252.28	17.67	83.05	203.19
37570	86.37	-10.82	3.00	69.31	51.08	260.48	32.67	210.11	208.75	147.73	43.97	243.78	18.65	91.81	207.25
37571	87.40	-10.66	3.00	69.79	53.48	268.90	34.61	204.12	213.03	141.71	44.29	236.99	21.38	101.25	211.33
37572	88.41	-10.49	3.00	70.03	55.87	278.10	36.80	197.68	217.25	135.57	44.75	233.22	25.26	111.06	215.43
37573	79.00	-12.97	3.00	68.01	40.74	257.11	36.02	227.25	168.63	196.93	49.78	326.91	42.48	60.10	170.05
37574	80.11	-12.94	3.00	69.29	41.93	257.25	35.13	227.84	172.45	185.89	49.17	320.70	34.64	60.83	173.35
37575	81.21	-12.87	3.00	70.57	43.49	258.47	34.45	227.33	176.61	176.38	48.50	312.74	27.67	64.20	177.01
37576	82.30	-12.77	3.00	71.78	45.33	260.80	34.05	225.78	181.07	168.15	47.86	303.37	21.66	69.71	180.99
37577	83.39	-12.63	3.00	72.87	47.35	264.21	33.97	223.25	185.77	160.96	47.30	292.99	16.92	76.83	185.24
37578	84.47	-12.46	3.00	73.77	49.48	268.66	34.23	219.83	190.68	154.55	46.85	282.07	14.16	85.07	189.72
37579	85.53	-12.26	3.00	74.45	51.66	274.04	34.84	215.59	195.71	148.67	46.52	271.27	14.14	94.04	194.38
37580	86.58	-12.03	3.00	74.85	53.84	280.27	35.81	210.63	200.81	143.03	46.31	261.41	16.65	103.39	199.17
37581	87.61	-11.77	3.00	74.93	55.99	287.24	37.08	205.03	205.90	137.35	46.20	253.52	20.70	112.79	204.06
37582	88.63	-11.48	3.00	74.63	58.11	294.83	38.64	198.84	210.95	131.35	46.19	248.89	25.53	121.94	209.02
37583	79.02	-14.56	3.00	72.99	41.64	289.84	42.25	225.48	156.74	182.47	49.75	362.90	34.19	58.07	160.17
37584	80.16	-14.51	3.00	74.81	42.94	289.47	41.26	226.46	160.40	173.96	49.45	355.23	26.66	62.03	162.92
37585	81.30	-14.42	3.00	76.45	44.61	289.89	40.36	226.41	164.60	166.54	49.01	345.46	19.84	68.67	166.27
37586	82.42	-14.27	3.00	77.87	46.54	291.13	39.60	225.34	169.29	159.99	48.50	334.01	13.89	77.04	170.17
37587	83.54	-14.08	3.00	79.01	48.64	293.21	39.01	223.31	174.40	154.10	47.97	321.39	9.49	86.42	174.55
37588	84.64	-13.85	3.00	79.83	50.84	296.10	38.66	220.37	179.86	148.65	47.47	308.20	8.52	96.24	179.37
37589	85.73	-13.57	3.00	80.30	53.08	299.74	38.58	216.57	185.58	143.43	47.02	295.17	11.49	106.13	184.55
37590	86.79	-13.25	3.00	80.37	55.31	304.01	38.81	211.97	191.45	138.19	46.65	283.23	16.23	115.74	190.03
37591	87.83	-12.88	3.00	80.02	57.49	308.81	39.37	206.62	197.39	132.74	46.35	273.46	21.51	124.79	195.73
37592	88.85	-12.48	3.00	79.20	59.61	313.98	40.32	200.53	203.29	126.87	46.14	267.08	26.98	133.01	201.56
37593	79.04	-16.15	3.00	78.61	38.32	329.68	48.10	224.63	140.83	170.37	45.40	408.63	22.92	57.36	148.32
37594	80.22	-16.09	3.00	80.78	39.88	328.75	47.02	226.08	144.36	163.89	45.40	399.10	16.00	65.31	150.36
37595	81.39	-15.96	3.00	82.63	41.95	328.17	45.91	226.51	148.67	158.10	45.28	386.94	9.53	75.42	153.26
37596	82.54	-15.78	3.00	84.11	44.37	327.99	44.80	225.93	153.73	152.80	45.10	372.69	3.50	86.51	156.99
37597	83.69	-15.54	3.00	85.18	47.03	328.25	43.74	224.37	159.45	147.85	44.92	356.99	2.90	97.82	161.50
37598	84.82	-15.23	3.00	85.83	49.81	328.95	42.81	221.85	165.72	143.06	44.78	340.57	8.45	108.87	166.72
37599	85.92	-14.88	3.00	86.02	52.62	330.06	42.08	218.40	172.43	138.28	44.70	324.30	14.00	119.30	172.58
37600	87.00	-14.46	3.00	85.72	55.39	331.52	41.65	214.06	179.46	133.34	44.71	309.22	19.46	128.83	178.98
37601	88.05	-13.99	3.00	84.90	58.04	333.26	41.59	208.84	186.70	128.10	44.82	296.49	24.82	137.22	185.82
37602	89.07	-13.47	3.00	83.57	60.53	335.17	41.98	202.79	194.02	122.47	45.02	287.35	30.08	144.28	192.99
37603	79.06	-17.74	3.00	84.73	30.23	373.93	52.89	224.12	116.13	160.99	36.06	461.66	12.34	58.95	131.93
37604	80.27	-17.66	3.00	87.08	32.32	372.39	51.78	226.13	119.72	155.98	36.31	449.96	8.70	71.21	133.17
37605	81.47														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
37633	66.03	-9.34	4.00	186.50	73.73	256.08	77.67	124.47	126.50	1027.31	63.00	214.31	363.25	299.37	187.14
37634	67.72	-10.27	4.00	114.65	62.68	256.26	61.21	144.66	132.14	645.91	50.36	208.90	266.82	229.66	173.23
37635	66.91	-10.15	4.00	129.98	69.81	261.39	69.65	135.33	128.96	728.39	62.71	209.71	312.43	255.59	181.92
37636	66.10	-10.02	4.00	150.25	79.47	266.97	81.69	126.13	125.47	832.42	87.15	228.98	375.01	286.68	193.31
37637	67.56	-11.13	4.00	92.68	67.59	271.83	62.86	143.20	129.01	528.02	63.32	225.02	260.56	225.35	178.94
37638	66.87	-10.92	4.00	102.12	74.14	274.79	69.73	135.44	126.91	580.58	78.98	225.79	299.98	246.80	187.29
37639	66.19	-10.70	4.00	115.18	83.87	278.29	78.47	127.63	124.43	649.24	110.13	241.43	345.92	271.77	197.96
37640	77.94	-9.77	4.00	62.86	32.29	193.19	25.81	218.88	175.31	260.36	49.16	264.67	56.69	75.43	176.24
37641	76.91	-9.76	4.00	64.32	32.24	194.89	27.02	216.38	171.00	282.90	50.70	266.13	66.20	83.54	172.33
37642	75.89	-9.74	4.00	66.47	32.76	197.78	28.44	212.71	166.74	308.61	52.02	265.82	76.86	93.06	168.64
37643	74.88	-9.72	4.00	69.45	33.86	201.67	30.09	207.90	162.57	338.03	53.02	263.60	88.87	103.93	165.26
37644	73.87	-9.69	4.00	73.37	35.51	206.36	31.99	201.96	158.50	371.82	53.57	259.32	102.49	116.18	162.33
37645	72.86	-9.65	4.00	78.41	37.71	211.65	34.22	194.95	154.52	410.83	53.55	252.81	118.08	129.93	160.02
37646	71.85	-9.62	4.00	84.81	40.44	217.36	36.87	186.90	150.63	456.24	52.85	243.98	136.10	145.39	158.54
37647	70.85	-9.57	4.00	92.89	43.72	223.34	40.09	177.89	146.80	509.71	51.45	232.84	157.20	162.85	158.16
37648	69.86	-9.52	4.00	103.19	47.64	229.47	44.10	168.02	142.99	573.70	49.44	219.73	182.29	182.76	159.21
37649	68.86	-9.47	4.00	116.51	52.31	235.73	49.22	157.39	139.12	651.99	47.33	205.90	212.76	205.73	162.08
37650	77.91	-11.31	4.00	64.14	34.13	214.93	30.87	216.60	165.77	238.99	48.99	286.41	55.83	71.81	167.54
37651	76.84	-11.28	4.00	64.32	34.04	216.64	32.08	213.83	161.85	258.37	49.86	288.01	66.15	79.41	164.30
37652	75.77	-11.23	4.00	65.06	34.59	219.32	33.48	209.91	158.10	280.43	50.41	287.43	77.66	88.92	161.44
37653	74.72	-11.16	4.00	66.48	35.79	222.80	35.07	204.86	154.54	305.58	50.53	284.56	90.62	100.13	159.10
37654	73.67	-11.07	4.00	68.75	37.63	226.89	36.89	198.75	151.14	334.37	50.13	279.24	105.31	112.93	157.41
37655	72.64	-10.97	4.00	72.01	40.08	231.41	39.03	191.62	147.89	367.50	49.13	271.36	122.15	127.34	156.54
37656	71.62	-10.86	4.00	76.51	43.15	236.20	41.60	183.55	144.74	405.91	47.58	260.86	141.71	143.48	156.70
37657	70.61	-10.72	4.00	82.56	46.87	241.15	44.79	174.63	141.64	450.97	45.73	247.92	164.76	161.57	158.15
37658	69.61	-10.58	4.00	90.62	51.33	246.17	48.89	164.94	138.54	504.78	44.36	233.16	192.52	182.00	161.17
37659	68.62	-10.41	4.00	101.50	56.74	251.22	54.32	154.62	135.34	570.95	45.27	218.39	226.79	205.34	166.14
37660	77.89	-12.86	4.00	66.56	35.31	239.83	36.18	214.59	155.04	217.88	48.19	313.54	50.81	67.55	158.34
37661	76.77	-12.81	4.00	65.52	35.19	241.53	37.33	211.52	151.61	233.53	48.45	315.41	61.23	74.14	155.95
37662	75.66	-12.73	4.00	64.79	35.78	243.95	38.58	207.35	148.49	251.22	48.28	314.62	72.79	83.38	154.16
37663	74.57	-12.62	4.00	64.53	37.10	246.94	39.95	202.10	145.65	271.26	47.61	311.05	85.74	94.81	153.09
37664	73.50	-12.48	4.00	64.87	39.15	250.32	41.48	195.85	143.04	294.01	46.43	304.55	100.38	108.13	152.85
37665	72.44	-12.31	4.00	65.99	41.90	253.95	43.25	188.64	140.62	319.95	44.80	295.01	117.14	123.19	153.61
37666	71.40	-12.12	4.00	68.08	45.37	257.68	45.38	180.57	138.30	349.76	43.06	282.45	136.57	139.96	155.55
37667	70.38	-11.89	4.00	71.45	49.60	261.40	48.09	171.71	136.03	384.34	42.09	267.19	159.50	158.58	158.89
37668	69.38	-11.65	4.00	76.47	54.75	265.05	51.68	162.19	133.71	425.15	43.75	250.21	187.19	179.33	160.90
37669	68.39	-11.37	4.00	83.74	61.08	268.59	56.68	152.13	131.29	474.44	51.14	233.99	221.94	202.83	170.86
37670	77.87	-14.40	4.00	70.10	34.69	268.79	41.53	212.99	142.24	198.38	45.73	347.47	41.80	62.97	148.23
37671	76.72	-14.34	4.00	68.06	34.59	270.42	42.56	209.61	139.40	210.31	45.54	349.74	51.62	67.85	146.90
37672	75.58	-14.23	4.00	66.08	35.30	272.45	43.59	205.16	137.03	223.60	44.90	348.75	62.43	76.43	146.39
37673	74.45	-14.09	4.00	64.29	36.84	274.76	44.61	199.70	135.05	238.45	43.79	344.35	74.44	87.95	146.77
37674	73.35	-13.89	4.00	62.80	39.20	277.20	45.67	193.28	133.40	255.08	42.25	336.37	87.94	101.78	148.15
37675	72.27	-13.66	4.00	61.77	42.34	279.64	46.83	185.97	131.97	273.76	40.56	324.70	103.28	117.51	150.67
37676	71.21	-13.39	4.00	61.38	46.26	281.96	48.21	177.86	130.68	294.86	39.39	309.46	120.94	134.92	154.46
37677	70.17	-13.08	4.00	61.88	51.00	284.07	49.99	169.03	129.42	318.91	40.16	291.12	141.56	153.98	159.71
37678	69.16	-12.73	4.00	63.58	56.72	285.94	52.45	159.62	128.11	346.65	45.29	271.03	166.15	174.87	166.64
37679	68.18	-12.34	4.00	66.87	63.85	287.58	56.00	149.76	126.64	379.11	58.05	252.35	196.22	198.08	175.57
37680	77.86	-15.95	4.00	74.57	31.33	301.89	46.60	211.77	125.26	181.57	40.63	388.64	29.63	58.63	136.02
37681	76.68	-15.88	4.00	71.81	31.36	303.31	47.48	208.00	123.16	190.22	40.26	391.38	38.25	60.83	135.96
37682	75.51	-15.75	4.00	68.90	32.40	304.72	48.24	203.22	121.78	199.63	39.50	390.13	47.69	68.15	136.94
37683	74.36	-15.57	4.00	65.93	34.41	306.05	48.88	197.49	120.98	209.92	38.35	384.67	58.13	79.55	139.00
37684	73.23	-15.32	4.00	62.99	37.31	307.18	49.42	190.86	120.66	221.18	36.93	374.80	69.78	93.88	142.22
37685	72.12	-15.03	4.00	60.19	41.00	307.99	49.91	183.40	120.66	233.51	35.58	360.45	82.88	110.34	146.68
37686	71.04	-14.68	4.00	57.70	45.43	308.43	50.41	175.20	120.84	247.08	35.12	341.79	97.79	128.46	152.48
37687	69.99	-14.28	4.00	55.71	50.60	308.46	51.07	166.38	121.08	262.19	37.06	319.47	114.91	148.02	159.74
37688	68.97	-13.82	4.00	54.48	56.64	308.09	52.07	157.06	121.24	279.31	43.57	295.17	134.82	169.01	168.58
37689	67.98	-13.32	4.00	54.35	63.82	307.40	53.70	147.41	121.20	298.85	56.83	272.71	158.25	191.73	179.19
37690	77.85	-17.50	4.00	79.66	25.76	337.65	51.05	210.59	101.52	167.79	33.30	436.69	17.52	55.20	121.17
37691	76.65	-17.43	4.00	76.42	26.07	338.72	51.81	206.37	100.45	173.85	33.01	439.96	23.76	53.39	122.56
37692	75.46	-17.28	4.00	72.86	27.70	339.31	52.36	201.22	100.54	180.22	32.46	438.38	31.06	58.48	125.24
37693	74.29	-17.06	4.00	69.06	30.48	339.39	52.70	195.18	101.60	186.94	31.68	431.65	39.38	69.39	129.21
37694	73.14	-16.77	4.00	65.08	34.16	338.88	52.81	188.32	103.38	194.00	30.72	419.53	48.76	84.21	134.50
37695	72.00	-16.41	4.00	61.04	38.54	337.75	52.72	180.70	105.62	201.42	29.87	401.96	59.32	101.51	141.14
37696	70.90	-15.98	4.00	57.05	43.47	336.00	52.46	172.43	108.08	209.23	29.80	379.16	71.22	120.46	149.14
37697	69.83	-15.48	4.00	53.26	48.95	333.65	52.10	163.62	110.53	217.53	31.77	351.93	84.72	140.65	158.53
37698	68.80	-14.93	4.00	49.89	55.04	330.80	51.77	154.43	112.82	226.65	37.50	322.23	100.15	161.97	169.31
37699	67.80	-14.31	4.00	47.24	61.98	327.63	51.68	145.03	114.78	237.61	48.68	294.52	117.92	184.40	181.53
37700	63.29	-9.48	4.00	370.43	257.20	330.84	239.51	117.35	110.93	1900.65	776.01	950.61	1072.01	586.90	353.87
37701	63.86	-10.43	4.00	80.85	158.31	317.79	98.79	107.09	116.19	461.36	375.05	588.21	408.04	391.37	279.87
37702	64.49	-11.33	4.00	59.65	117.07	316.81	67.43	112.15	117.86	355.20					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
37731	73.78	-9.71	3.00	73.16	37.08	221.54	32.03	214.50	170.07	364.95	52.02	272.69	102.83	98.30	171.67
37732	72.76	-9.67	3.00	78.65	39.35	227.44	34.40	207.20	166.49	406.44	52.47	265.81	118.90	107.58	168.96
37733	71.73	-9.63	3.00	85.69	42.18	233.80	37.24	198.83	163.05	455.21	52.39	256.55	137.64	117.62	166.86
37734	70.71	-9.59	3.00	94.70	45.60	240.45	40.70	189.49	159.76	513.17	51.77	244.89	159.79	128.39	165.57
37735	69.70	-9.54	3.00	106.32	49.69	247.26	45.02	179.31	156.63	583.15	50.73	231.16	186.38	139.74	165.33
37736	68.69	-9.48	3.00	121.56	54.56	254.20	50.61	168.48	153.69	669.41	49.73	216.63	218.91	151.31	166.38
37737	77.90	-11.37	3.00	63.70	36.95	230.61	31.06	228.43	175.60	229.52	48.63	302.18	56.16	66.28	176.41
37738	76.80	-11.34	3.00	63.87	36.86	232.32	32.30	225.73	172.02	249.06	49.53	303.43	66.44	72.01	173.19
37739	75.72	-11.29	3.00	64.66	37.42	235.15	33.77	221.78	168.66	271.68	50.22	302.53	78.03	79.30	170.29
37740	74.64	-11.22	3.00	66.19	38.62	238.92	35.46	216.64	165.51	297.85	50.59	299.32	91.20	87.89	167.81
37741	73.58	-11.13	3.00	68.64	40.47	243.42	37.42	210.35	162.58	328.17	50.54	293.67	106.30	97.63	165.87
37742	72.53	-11.03	3.00	72.20	42.96	248.45	39.72	202.99	159.86	363.43	50.02	285.42	123.78	108.43	164.58
37743	71.49	-10.91	3.00	77.15	46.09	253.82	42.51	194.67	157.32	404.71	49.10	274.51	144.29	120.22	164.10
37744	70.46	-10.77	3.00	83.88	49.92	259.40	45.99	185.48	154.96	453.57	48.04	261.09	168.73	132.97	164.60
37745	69.44	-10.62	3.00	92.97	54.55	265.09	50.50	175.59	152.75	512.35	47.64	245.80	198.50	146.57	166.26
37746	68.44	-10.45	3.00	105.39	60.20	270.88	56.58	165.16	150.70	585.04	49.59	230.54	236.66	160.75	169.20
37747	77.88	-12.96	3.00	66.74	40.01	257.86	37.06	225.52	165.17	210.02	50.30	330.94	51.50	62.27	167.16
37748	76.74	-12.91	3.00	65.63	39.85	259.48	38.23	222.54	162.08	225.67	50.58	332.49	61.89	67.40	164.75
37749	75.61	-12.82	3.00	64.88	40.37	261.99	39.55	218.38	159.38	243.73	50.54	331.42	73.51	74.96	162.91
37750	74.50	-12.71	3.00	64.62	41.58	265.21	41.00	213.08	157.01	264.52	50.10	327.58	86.65	84.49	161.70
37751	73.40	-12.57	3.00	65.00	43.51	268.95	42.64	206.71	154.93	288.45	49.23	320.80	101.66	95.64	161.23
37752	72.33	-12.40	3.00	66.22	46.17	273.04	44.54	199.36	153.14	316.05	48.03	310.96	119.03	108.18	161.60
37753	71.27	-12.20	3.00	68.51	49.58	277.33	46.85	191.11	151.52	348.02	46.87	298.06	139.39	121.97	162.94
37754	70.22	-11.97	3.00	72.21	53.83	281.70	49.79	182.09	150.03	385.38	46.62	282.42	163.70	136.95	165.38
37755	69.20	-11.71	3.00	77.78	59.11	286.06	53.75	172.43	148.65	429.62	49.17	265.01	193.40	153.09	169.05
37756	68.20	-11.43	3.00	85.92	65.76	290.36	59.39	162.30	147.38	483.14	57.54	248.44	231.15	170.42	174.00
37757	77.86	-14.55	3.00	70.95	40.82	290.77	43.28	223.38	153.64	192.44	49.86	367.93	42.76	57.64	158.08
37758	76.68	-14.48	3.00	68.82	40.64	292.24	44.31	220.10	151.11	204.23	49.68	369.95	52.52	61.38	156.70
37759	75.52	-14.37	3.00	66.78	41.17	294.28	45.35	215.71	149.11	217.71	49.11	368.77	63.32	68.87	156.10
37760	74.37	-14.22	3.00	64.93	42.45	296.75	46.41	210.25	147.55	233.09	48.11	364.17	75.44	79.30	156.33
37761	73.25	-14.02	3.00	63.39	44.51	299.48	47.51	203.78	146.37	250.57	46.76	355.96	89.18	91.96	157.45
37762	72.15	-13.79	3.00	62.31	47.39	302.31	48.71	196.39	145.45	270.42	45.33	344.03	104.95	106.37	159.55
37763	71.07	-13.51	3.00	61.88	51.11	305.11	50.15	188.16	144.71	293.00	44.53	328.44	123.30	122.27	162.74
37764	70.01	-13.18	3.00	62.36	55.77	307.76	52.02	179.21	144.08	318.81	45.79	309.66	144.97	139.49	167.14
37765	68.98	-12.82	3.00	64.11	61.59	310.19	54.68	169.66	143.49	348.54	51.50	289.04	171.08	158.01	172.89
37766	67.98	-12.43	3.00	67.56	69.10	312.34	58.63	159.66	142.90	383.13	65.12	269.88	203.36	177.99	180.23
37767	77.84	-16.14	3.00	76.06	37.41	330.74	49.08	222.10	138.16	177.73	45.24	414.92	30.60	53.06	147.23
37768	76.64	-16.07	3.00	73.24	37.36	331.92	49.94	218.45	136.29	186.20	44.85	417.52	39.17	54.19	147.08
37769	75.45	-15.93	3.00	70.28	38.16	333.21	50.66	213.76	135.13	195.71	44.10	416.11	48.57	60.94	147.90
37770	74.28	-15.74	3.00	67.25	39.87	334.50	51.26	208.06	134.58	206.35	43.01	410.42	59.03	72.09	149.73
37771	73.12	-15.49	3.00	64.22	42.45	335.65	51.74	201.40	134.51	218.18	41.71	400.21	70.80	86.30	152.62
37772	72.00	-15.19	3.00	61.32	45.88	336.55	52.16	193.87	134.77	231.29	40.55	385.37	84.17	102.65	156.64
37773	70.89	-14.83	3.00	58.67	50.14	337.10	52.61	185.56	135.25	245.78	40.35	366.05	99.51	120.60	161.90
37774	69.82	-14.41	3.00	56.48	55.28	337.23	53.24	176.58	135.84	261.88	42.59	342.88	117.31	139.90	168.51
37775	68.78	-13.95	3.00	55.02	61.46	336.91	54.26	167.07	136.44	279.98	49.42	317.59	138.15	160.41	176.63
37776	67.78	-13.43	3.00	54.62	69.00	336.16	56.00	157.22	137.01	300.39	63.17	294.16	162.86	182.33	186.50
37777	77.84	-17.73	3.00	81.86	29.22	375.07	53.80	221.06	113.92	166.40	35.78	469.34	17.70	49.61	131.99
37778	76.61	-17.65	3.00	78.61	29.56	375.77	54.50	216.97	112.97	172.33	35.44	472.51	24.19	46.31	132.26
37779	75.40	-17.50	3.00	75.02	31.18	375.98	54.96	211.90	113.16	178.73	34.88	470.69	31.63	51.08	135.78
37780	74.20	-17.27	3.00	71.16	33.93	375.63	55.18	205.89	114.32	185.63	34.14	463.55	40.07	62.60	139.56
37781	73.03	-16.97	3.00	67.10	37.61	374.65	55.17	198.99	116.21	193.02	33.32	450.83	49.61	78.36	144.63
37782	71.87	-16.60	3.00	62.93	42.03	373.01	54.94	191.29	118.59	200.85	32.73	432.43	60.40	96.64	151.04
37783	70.75	-16.16	3.00	58.75	47.06	370.69	54.55	182.87	121.24	209.11	33.07	408.58	72.61	116.60	158.83
37784	69.66	-15.66	3.00	54.71	52.69	367.71	54.08	173.88	123.97	217.83	35.55	380.08	86.50	137.85	168.07
37785	68.60	-15.08	3.00	50.98	59.03	364.14	53.66	164.45	126.63	227.23	41.80	348.95	102.41	160.31	178.81
37786	67.59	-14.45	3.00	47.84	66.33	360.16	53.51	154.78	129.11	238.25	53.46	319.73	120.74	183.98	191.19
37787	63.01	-9.49	3.00	428.98	309.73	347.05	289.45	145.93	172.00	1974.61	865.02	919.62	1175.76	310.11	305.36
37788	63.59	-10.46	3.00	80.46	178.49	337.54	109.42	114.96	143.08	469.08	401.04	589.01	438.94	380.16	298.09
37789	64.23	-11.40	3.00	58.96	127.89	343.40	70.89	121.23	138.52	357.53	229.00	447.38	265.23	311.74	262.83
37790	63.94	-9.43	3.00	324.50	123.77	308.20	151.37	127.73	146.79	1595.41	195.07	521.84	671.65	176.23	214.95
37791	64.34	-10.27	3.00	175.34	138.94	318.10	132.87	124.37	148.01	898.16	276.90	434.87	569.92	254.89	217.75
37792	64.79	-11.08	3.00	86.67	120.40	325.36	90.01	142.12	149.06	497.06	217.34	360.03	370.42	273.08	227.37
37793	64.87	-9.36	3.00	255.75	93.79	289.43	107.29	128.52	145.77	1315.29	101.94	320.29	489.59	172.08	189.44
37794	65.09	-10.07	3.00	182.49	101.73	300.32	108.47	129.91	146.12	956.31	145.86	312.18	483.91	212.17	195.38
37795	65.34	-10.78	3.00	119.86	105.14	310.70	95.16	131.93	144.58	656.36	167.84	300.85	408.73	233.98	202.60
37796	66.65	-13.76	3.00	45.73	75.08	355.79	54.01	145.36	131.46	250.43	73.33	301.71	141.92	208.99	204.44
37797	66.89	-12.90	3.00	55.75	77.84	334.76	58.79	148.12	137.71	322.86	85.34	280.80	191.18	204.03	196.66
37798	67.14	-12.05	3.00	72.38	77.24	313.80	63.56	150.84	142.52	418.49	85.56	259.66	237.58	196.32	187.59
37799	65.78	-13.03	3.00	45.08	86.03	351.21	55.76	136.41	133.64	266.00	101.53	307.49	167.86	236.63	219.83
37800	66.12	-12.36	3.00	59.02	88.02	332.77	63.45	139.97							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
37829	86.08	1.65	1.75	36.57	34.91	213.74	23.44	228.29	259.72	150.80	25.64	195.42	23.59	39.98	259.69
37830	86.11	0.55	1.75	35.59	34.65	212.61	23.51	228.26	260.84	150.85	25.30	193.64	23.53	38.69	260.84
37831	86.11	-0.55	1.75	35.58	34.65	212.61	23.52	228.26	260.85	150.85	25.30	193.63	23.53	38.70	260.85
37832	86.08	-1.65	1.75	36.56	34.90	213.72	23.46	228.29	259.74	150.81	25.64	195.39	23.60	40.00	259.71
37833	87.25	1.65	1.75	36.29	37.64	229.27	27.75	216.32	261.96	144.38	27.54	187.91	27.77	42.18	261.92
37834	87.28	0.55	1.75	35.19	37.37	228.36	27.85	216.14	263.07	144.36	27.20	186.15	27.86	40.62	263.06
37835	87.28	-0.55	1.75	35.19	37.36	228.35	27.86	216.14	263.07	144.36	27.20	186.14	27.86	40.63	263.07
37836	87.25	-1.65	1.75	36.29	37.63	229.25	27.77	216.33	261.98	144.39	27.53	187.89	27.78	42.20	261.94
37837	88.43	1.65	1.75	36.53	40.58	244.46	32.30	203.08	263.75	139.60	30.22	182.12	32.23	48.84	263.71
37838	88.46	0.55	1.75	35.32	40.30	243.72	32.42	202.71	264.83	139.53	29.90	180.41	32.41	47.21	264.83
37839	88.46	-0.55	1.75	35.32	40.30	243.72	32.43	202.71	264.84	139.53	29.90	180.40	32.42	47.21	264.84
37840	88.43	-1.65	1.75	36.52	40.58	244.45	32.31	203.09	263.77	139.60	30.21	182.11	32.24	48.85	263.73
37841	89.60	1.65	1.75	37.16	43.72	259.14	37.12	188.94	265.20	135.78	33.59	180.36	37.00	59.66	265.15
37842	89.64	0.55	1.75	35.88	43.43	258.52	37.26	188.34	266.24	135.69	33.30	178.77	37.25	58.10	266.24
37843	89.64	-0.55	1.75	35.88	43.42	258.52	37.26	188.34	266.25	135.68	33.30	178.77	37.25	58.10	266.24
37844	89.60	-1.65	1.75	37.16	43.72	259.13	37.13	188.95	265.23	135.78	33.59	180.34	37.01	59.67	265.17
37845	90.78	1.65	1.75	38.10	47.04	273.37	42.23	174.40	266.46	132.06	37.58	186.14	42.12	73.91	266.39
37846	90.82	0.55	1.75	36.76	46.73	272.83	42.42	173.56	267.44	131.95	37.33	184.81	42.41	72.50	267.44
37847	90.82	-0.55	1.75	36.76	46.73	272.83	42.43	173.56	267.45	131.95	37.33	184.81	42.41	72.50	267.44
37848	90.78	-1.65	1.75	38.09	47.05	273.37	42.28	174.42	266.48	132.06	37.58	186.12	42.13	73.91	266.42
37849	91.95	1.65	1.75	39.18	50.51	287.64	47.76	160.21	267.74	127.20	42.13	203.92	47.61	90.89	267.67
37850	92.00	0.55	1.75	37.81	50.19	287.14	47.95	159.10	268.66	127.07	41.93	203.04	47.93	89.66	268.65
37851	92.00	-0.55	1.75	37.81	50.19	287.14	47.96	159.10	268.67	127.07	41.93	203.03	47.94	89.66	268.66
37852	91.95	-1.65	1.75	39.18	50.52	287.65	47.78	160.22	267.76	127.20	42.14	203.90	47.62	90.89	267.69
37853	93.12	1.65	1.75	40.00	54.10	303.06	53.55	147.19	269.35	119.20	47.14	238.23	53.42	109.63	269.28
37854	93.17	0.55	1.75	38.60	53.77	302.53	53.79	145.83	270.21	119.02	47.00	237.96	53.77	108.62	270.20
37855	93.17	-0.55	1.75	38.60	53.77	302.54	53.79	145.83	270.22	119.02	47.01	237.95	53.78	108.62	270.21
37856	93.12	-1.65	1.75	39.99	54.11	303.07	53.57	147.20	269.38	119.20	47.15	238.20	53.43	109.63	269.31
37857	94.30	1.65	1.75	39.45	57.75	321.76	59.31	135.89	271.62	104.64	52.37	293.10	59.23	127.90	271.56
37858	94.35	0.55	1.75	38.01	57.42	321.21	59.62	134.33	272.44	104.31	52.33	293.64	59.61	127.11	272.43
37859	94.35	-0.55	1.75	38.01	57.42	321.22	59.62	134.34	272.44	104.31	52.34	293.63	59.61	127.11	272.44
37860	94.30	-1.65	1.75	39.45	57.77	321.79	59.32	135.91	271.65	104.64	52.38	293.06	59.25	127.90	271.59
37861	95.47	1.65	1.75	34.78	61.41	344.58	64.09	123.84	274.29	77.73	56.39	366.55	64.15	137.49	274.25
37862	95.53	0.55	1.75	33.12	61.07	344.06	64.52	122.13	275.19	76.96	56.52	368.10	64.53	136.78	275.18
37863	95.53	-0.55	1.75	33.12	61.08	344.07	64.52	122.13	275.19	76.96	56.53	368.08	64.53	136.77	275.19
37864	95.47	-1.65	1.75	34.78	61.43	344.62	64.10	123.85	274.32	77.73	56.41	366.50	64.16	137.48	274.29
37865	96.65	1.65	1.75	29.84	65.12	369.01	68.16	107.75	277.09	49.84	59.67	447.31	68.34	133.05	277.11
37866	96.71	0.55	1.75	27.87	64.85	368.59	68.55	105.80	277.76	48.32	59.86	449.91	68.57	132.06	277.76
37867	96.71	-0.55	1.75	27.87	64.86	368.61	68.56	105.80	277.77	48.32	59.86	449.89	68.58	132.06	277.77
37868	96.65	-1.65	1.75	29.84	65.14	369.06	68.18	107.77	277.12	49.84	59.69	447.24	68.35	133.05	277.14
37869	79.05	1.65	0.25	46.28	21.06	159.65	2.86	289.13	253.03	198.97	21.11	243.89	9.38	60.50	253.07
37870	79.05	0.55	0.25	46.24	20.89	156.66	1.50	289.70	254.07	199.88	20.88	241.88	3.34	60.40	254.07
37871	79.05	-0.55	0.25	46.24	20.88	156.66	1.50	289.70	254.07	199.89	20.88	241.87	3.35	60.41	254.08
37872	79.05	-1.65	0.25	46.26	21.05	159.64	2.87	289.13	253.04	198.99	21.12	243.87	9.39	60.51	253.07
37873	80.25	1.65	0.25	41.92	21.93	165.54	5.14	287.25	257.42	175.94	20.13	242.57	9.26	60.90	257.45
37874	80.25	0.55	0.25	41.73	21.74	162.74	4.65	287.80	258.50	176.55	19.90	240.58	5.32	60.82	258.50
37875	80.25	-0.55	0.25	41.72	21.74	162.74	4.66	287.80	258.50	176.56	19.90	240.57	5.33	60.83	258.51
37876	80.25	-1.65	0.25	41.91	21.92	165.52	5.15	287.25	257.43	175.96	20.13	242.55	9.28	60.91	257.46
37877	81.44	1.65	0.25	38.37	23.24	175.69	8.42	283.39	261.45	157.57	19.89	239.66	10.71	59.94	261.48
37878	81.45	0.55	0.25	38.01	23.04	173.19	8.23	283.90	262.58	157.94	19.66	237.68	8.52	59.84	262.58
37879	81.45	-0.55	0.25	38.00	23.03	173.18	8.23	283.90	262.58	157.94	19.66	237.67	8.53	59.85	262.58
37880	81.44	-1.65	0.25	38.36	23.23	175.67	8.43	283.40	261.46	157.59	19.89	239.63	10.73	59.95	261.49
37881	82.64	1.65	0.25	35.61	24.92	189.18	12.09	277.55	265.08	143.39	20.45	235.32	13.35	57.71	265.09
37882	82.65	0.55	0.25	35.06	24.70	187.00	12.04	277.99	266.24	143.56	20.22	233.35	12.19	57.55	266.24
37883	82.65	-0.55	0.25	35.05	24.70	186.99	12.05	278.00	266.24	143.56	20.22	233.34	12.20	57.56	266.24
37884	82.64	-1.65	0.25	35.60	24.91	189.16	12.11	277.55	265.09	143.40	20.45	235.29	13.37	57.72	265.11
37885	83.84	1.65	0.25	33.63	26.94	204.98	16.01	269.71	268.23	132.96	21.77	229.72	16.72	54.40	268.24
37886	83.86	0.55	0.25	32.88	26.70	203.13	16.05	270.08	269.42	132.97	21.54	227.75	16.13	54.12	269.42
37887	83.86	-0.55	0.25	32.88	26.70	203.12	16.05	270.08	269.42	132.98	21.54	227.74	16.13	54.13	269.42
37888	83.84	-1.65	0.25	33.62	26.93	204.95	16.03	269.71	268.25	132.98	21.76	229.69	16.73	54.41	268.25
37889	85.04	1.65	0.25	32.44	29.26	222.15	20.13	259.90	270.86	125.88	23.76	223.03	20.53	50.37	270.87
37890	85.06	0.55	0.25	31.50	29.00	220.61	20.22	260.17	272.07	125.77	23.53	221.06	20.26	49.89	272.07
37891	85.06	-0.55	0.25	31.50	29.00	220.60	20.22	260.17	272.07	125.78	23.53	221.05	20.27	49.90	272.07
37892	85.04	-1.65	0.25	32.42	29.25	222.12	20.15	259.90	270.88	125.90	23.75	223.00	20.54	50.39	270.88
37893	86.23	1.65	0.25	32.03	31.87	239.87	24.43	248.15	272.94	121.76	26.32	215.55	24.65	46.31	272.92
37894	86.26	0.55	0.25	30.92	31.59	238.62	24.55	248.30	274.15	121.57	26.10	213.58	24.58	45.54	274.15
37895	86.26	-0.55	0.25	30.92	31.58	238.61	24.56	248.30	274.15	121.57	26.10	213.57	24.58	45.54	274.15
37896	86.23	-1.65	0.25	32.02	31.86	239.84	24.45	248.16	272.96	121.77	26.32	215.52	24.66	46.34	272.94
37897	87.43	1.65	0.25	32.39	34.75	257.47	28.94	234.58	274.44	120.20	29.41	207.82	29.03	43.51	274.41
37898	87.46	0.55	0.25	31.14	34.45	256.47	29.08	234.57	275.64	119.95	29.19	205.86	29.09	42.34	275.63
37899	87.46	-0.55	0.25	31.13	34.44	256.46	29.09	234.57	275.64	119.96	29.				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
37927	95.87	-0.55	0.25	53.51	60.81	378.49	74.49	139.94	285.66	122.91	71.53	395.36	74.48	169.32	285.65
37928	95.81	-1.65	0.25	54.72	61.37	379.24	74.09	141.59	284.92	123.11	71.49	394.11	74.01	169.70	284.87
37929	97.01	1.65	0.25	35.38	64.55	421.45	72.67	127.75	291.86	56.83	73.50	516.92	72.91	163.72	291.86
37930	97.07	0.55	0.25	33.72	64.21	420.79	73.07	126.09	292.38	55.59	73.86	519.59	73.09	163.28	292.38
37931	97.07	-0.55	0.25	33.72	64.22	420.81	73.07	126.09	292.39	55.59	73.87	519.56	73.10	163.28	292.40
37932	97.01	-1.65	0.25	35.38	64.58	421.51	72.68	127.76	291.90	56.83	73.52	516.83	72.92	163.72	291.90
37933	79.06	1.65	-1.25	37.79	16.24	177.35	1.99	313.56	269.70	127.46	17.58	255.68	7.45	63.02	269.76
37934	79.06	0.55	-1.25	37.74	16.08	174.13	0.94	314.25	270.80	127.87	17.57	253.38	2.58	62.89	270.81
37935	79.06	-0.55	-1.25	37.73	16.08	174.12	0.94	314.25	270.80	127.88	17.56	253.37	2.59	62.89	270.81
37936	79.06	-1.65	-1.25	37.77	16.23	177.34	1.99	313.56	269.70	127.49	17.57	255.66	7.46	63.03	269.77
37937	80.28	1.65	-1.25	34.39	17.21	183.67	4.88	311.33	273.56	110.44	18.91	256.02	7.98	67.08	273.62
37938	80.29	0.55	-1.25	34.19	17.04	180.63	4.65	311.99	274.71	110.62	18.89	253.75	5.11	67.02	274.72
37939	80.29	-0.55	-1.25	34.18	17.03	180.63	4.66	311.99	274.71	110.63	18.88	253.74	5.12	67.02	274.72
37940	80.28	-1.65	-1.25	34.36	17.19	183.65	4.89	311.33	273.57	110.47	18.89	255.99	8.00	67.09	273.63
37941	81.50	1.65	-1.25	31.55	18.58	194.98	8.78	307.09	277.10	97.53	20.60	254.67	10.40	69.46	277.14
37942	81.51	0.55	-1.25	31.18	18.39	192.23	8.75	307.71	278.29	97.51	20.57	252.42	8.95	69.45	278.29
37943	81.51	-0.55	-1.25	31.17	18.38	192.22	8.76	307.71	278.29	97.52	20.56	252.41	8.96	69.45	278.30
37944	81.50	-1.65	-1.25	31.53	18.56	194.96	8.80	307.09	277.11	97.56	20.58	254.63	10.42	69.47	277.15
37945	82.72	1.65	-1.25	29.25	20.31	210.20	12.94	300.78	280.23	88.45	22.58	251.82	13.85	70.08	280.26
37946	82.74	0.55	-1.25	28.68	20.09	207.79	13.01	301.36	281.46	88.25	22.54	249.58	13.11	70.09	281.47
37947	82.74	-0.55	-1.25	28.67	20.08	207.78	13.01	301.36	281.47	88.26	22.53	249.57	13.12	70.09	281.47
37948	82.72	-1.65	-1.25	29.23	20.29	210.17	12.96	300.78	280.24	88.47	22.56	251.78	13.87	70.09	280.28
37949	83.94	1.65	-1.25	27.51	22.36	228.16	17.24	292.37	282.89	82.90	24.79	247.59	17.80	68.92	282.91
37950	83.96	0.55	-1.25	26.71	22.11	226.09	17.37	292.88	284.16	82.57	24.74	245.36	17.44	68.90	284.16
37951	83.96	-0.55	-1.25	26.71	22.11	226.08	17.38	292.88	284.16	82.57	24.73	245.35	17.44	68.91	284.16
37952	83.94	-1.65	-1.25	27.49	22.34	228.12	17.26	292.36	282.91	82.92	24.77	247.55	17.82	68.93	282.93
37953	85.17	1.65	-1.25	26.40	24.72	247.76	21.65	281.79	284.99	80.61	27.23	242.11	22.01	66.02	285.00
37954	85.19	0.55	-1.25	25.35	24.45	246.02	21.82	282.22	286.28	80.17	27.17	239.88	21.86	65.93	286.29
37955	85.19	-0.55	-1.25	25.34	24.44	246.01	21.82	282.22	286.29	80.18	27.16	239.87	21.86	65.94	286.29
37956	85.17	-1.65	-1.25	26.38	24.70	247.72	21.66	281.79	285.01	80.63	27.21	242.07	22.02	66.03	285.02
37957	86.39	1.65	-1.25	26.02	27.40	268.02	26.15	269.01	286.46	81.32	29.93	235.54	26.38	61.55	286.45
37958	86.41	0.55	-1.25	24.72	27.10	266.60	26.34	269.34	287.77	80.80	29.85	233.32	26.37	61.31	287.77
37959	86.41	-0.55	-1.25	24.71	27.10	266.59	26.35	269.34	287.77	80.81	29.84	233.31	26.37	61.31	287.77
37960	86.39	-1.65	-1.25	25.99	27.38	267.99	26.16	269.01	286.48	81.33	29.91	235.50	26.39	61.56	286.47
37961	87.61	1.65	-1.25	26.48	30.40	288.12	30.77	254.04	287.21	84.78	32.92	228.25	30.93	55.90	287.19
37962	87.64	0.55	-1.25	24.96	30.08	286.99	30.99	254.24	288.52	84.22	32.83	226.04	31.01	55.40	288.52
37963	87.64	-0.55	-1.25	24.95	30.08	286.98	30.99	254.24	288.53	84.23	32.82	226.03	31.01	55.40	288.53
37964	87.61	-1.65	-1.25	26.46	30.38	288.09	30.78	254.05	287.23	84.78	32.90	228.21	30.94	55.92	287.21
37965	88.83	1.65	-1.25	27.89	33.73	307.30	35.62	236.95	287.20	90.78	36.28	220.98	35.72	50.03	287.17
37966	88.86	0.55	-1.25	26.20	33.39	306.42	35.84	236.97	288.50	90.22	36.18	218.81	35.85	49.12	288.50
37967	88.86	-0.55	-1.25	26.19	33.39	306.42	35.85	236.97	288.51	90.22	36.18	218.80	35.86	49.13	288.50
37968	88.83	-1.65	-1.25	27.86	33.72	307.28	35.63	236.95	287.22	90.78	36.27	220.95	35.73	50.05	287.19
37969	90.05	1.65	-1.25	30.28	37.40	324.90	40.85	217.94	286.41	99.17	40.14	215.21	40.90	46.01	286.35
37970	90.09	0.55	-1.25	28.50	37.04	324.24	41.07	217.74	287.67	98.65	40.02	213.13	41.07	44.57	287.66
37971	90.09	-0.55	-1.25	28.49	37.04	324.24	41.07	217.74	287.67	98.65	40.02	213.12	41.08	44.58	287.67
37972	90.05	-1.65	-1.25	30.26	37.39	324.89	40.86	217.95	286.43	99.18	40.13	215.18	40.91	46.03	286.37
37973	91.27	1.65	-1.25	33.77	41.42	340.39	46.72	197.46	284.87	109.96	44.66	213.69	46.72	47.43	284.80
37974	91.31	0.55	-1.25	31.95	41.04	339.90	46.93	196.99	286.07	109.47	44.52	211.79	46.93	45.56	286.07
37975	91.31	-0.55	-1.25	31.94	41.04	339.90	46.93	197.00	286.08	109.47	44.52	211.78	46.93	45.56	286.07
37976	91.27	-1.65	-1.25	33.75	41.42	340.38	46.73	197.47	284.89	109.96	44.66	213.66	46.73	47.45	284.82
37977	92.49	1.65	-1.25	38.70	45.80	353.47	53.63	176.40	282.79	123.38	50.15	220.87	53.60	57.68	282.71
37978	92.54	0.55	-1.25	36.89	45.38	353.09	53.83	175.61	283.90	122.96	49.98	219.33	53.82	55.77	283.89
37979	92.54	-0.55	-1.25	36.89	45.38	353.09	53.83	175.61	283.91	122.96	49.98	219.32	53.83	55.77	283.90
37980	92.49	-1.65	-1.25	38.68	45.81	353.48	53.64	176.41	282.81	123.38	50.15	220.84	53.61	57.69	282.73
37981	93.71	1.65	-1.25	45.93	50.58	364.41	62.25	156.45	280.65	140.26	57.13	243.03	62.18	77.92	280.56
37982	93.76	0.55	-1.25	44.18	50.07	364.05	62.44	155.28	281.65	139.91	56.92	242.05	62.43	76.30	281.64
37983	93.76	-0.55	-1.25	44.18	50.07	364.06	62.45	155.28	281.65	139.91	56.92	242.04	62.44	76.30	281.65
37984	93.71	-1.65	-1.25	45.92	50.58	364.43	62.26	156.46	280.67	140.25	57.13	242.99	62.19	77.92	280.59
37985	94.93	1.65	-1.25	57.35	55.81	375.36	73.74	141.11	279.79	162.61	66.81	289.08	73.64	109.92	279.71
37986	94.99	0.55	-1.25	55.70	55.16	374.93	73.96	139.57	280.63	162.36	66.53	288.88	73.95	108.71	280.62
37987	94.99	-0.55	-1.25	55.70	55.17	374.94	73.96	139.57	280.64	162.36	66.53	288.86	73.95	108.71	280.63
37988	94.93	-1.65	-1.25	57.34	55.82	375.39	73.76	141.12	279.81	162.61	66.82	289.03	73.65	109.92	279.74
37989	96.15	1.65	-1.25	76.32	61.86	390.54	90.49	138.02	284.19	194.61	81.28	370.58	90.37	161.80	284.13
37990	96.21	0.55	-1.25	74.83	60.89	389.84	90.83	136.23	284.87	194.53	80.92	371.21	90.82	161.08	284.86
37991	96.21	-0.55	-1.25	74.83	60.89	389.86	90.84	136.24	284.88	194.52	80.93	371.19	90.83	161.07	284.87
37992	96.15	-1.65	-1.25	76.32	61.88	390.59	90.52	138.04	284.22	194.60	81.30	370.52	90.39	161.79	284.16
37993	97.37	1.65	-1.25	104.90	71.51	488.42	123.43	182.80	323.89	234.89	120.59	629.97	123.35	323.88	
37994	97.43	0.55	-1.25	103.33	69.66	487.33	124.10	181.26	324.14	234.80	120.35	632.65	124.10	283.83	324.14
37995	97.43	-0.55	-1.25	103.33	69.66	487.36	124.11	181.27	324.16	234.79	120.36	632.61	124.10	283.83	324.16
37996	97.37	-1.65	-1.25	104.91	71.52	488.51	123.45	182.82	323.93	234.88	120.61	629.85	123.37	323.93	
37997	77.86	-1.65	1.75	59.23	24.26	141.87	3.44	264.09	230.91	286.44	34.57	230.93	12.27		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
38025	69.65	-1.65	1.75	140.81	44.54	211.09	8.58	210.11	190.07	755.68	38.78	164.02	21.66	49.39	190.13
38026	69.62	-0.55	1.75	141.56	44.90	209.67	7.17	210.22	190.57	760.02	38.54	160.98	9.66	49.15	190.58
38027	69.62	0.55	1.75	141.56	44.90	209.67	7.17	210.22	190.58	760.04	38.54	160.98	9.58	49.15	190.59
38028	69.65	1.65	1.75	140.81	44.53	211.06	8.60	210.11	190.08	755.74	38.78	164.02	21.56	49.40	190.14
38029	68.47	-1.65	1.75	161.87	52.17	223.04	7.00	196.74	184.03	872.08	44.96	143.52	19.39	43.06	184.27
38030	68.44	-0.55	1.75	162.60	52.59	221.80	5.08	196.73	184.51	876.20	46.46	140.29	7.74	43.20	184.54
38031	68.44	0.55	1.75	162.60	52.59	221.79	5.09	196.73	184.52	876.23	46.45	140.28	7.63	43.21	184.55
38032	68.47	1.65	1.75	161.87	52.17	223.02	7.02	196.74	184.04	872.16	44.95	143.51	19.26	43.07	184.28
38033	67.30	-1.65	1.75	186.85	61.50	233.93	4.70	183.35	178.27	1004.27	65.25	137.51	16.06	47.80	178.93
38034	67.26	-0.55	1.75	187.58	61.84	232.81	1.66	183.21	178.78	1008.11	68.32	135.20	5.17	48.39	178.86
38035	67.26	0.55	1.75	187.58	61.84	232.80	1.69	183.21	178.78	1008.14	68.32	135.19	5.00	48.38	178.86
38036	67.30	1.65	1.75	186.85	61.50	233.91	4.74	183.35	178.28	1004.38	65.24	137.48	15.89	47.79	178.93
38037	66.12	-1.65	1.75	216.62	72.49	243.86	6.04	171.38	173.32	1151.78	100.16	179.55	13.86	74.75	174.87
38038	66.08	-0.55	1.75	217.33	72.69	242.80	5.89	171.11	173.93	1155.05	104.21	180.07	6.99	75.32	174.11
38039	66.08	0.55	1.75	217.33	72.69	242.80	5.90	171.11	173.93	1155.09	104.22	180.06	6.88	75.30	174.11
38040	66.12	1.65	1.75	216.62	72.48	243.84	6.08	171.38	173.33	1151.90	100.17	179.52	13.66	74.70	174.86
38041	64.95	-1.65	1.75	252.14	84.71	253.71	14.54	163.19	170.36	1310.78	146.26	297.32	17.37	125.24	173.47
38042	64.90	-0.55	1.75	252.24	85.23	252.69	16.26	162.91	171.11	1310.94	153.01	301.31	16.35	125.76	171.47
38043	64.90	0.55	1.75	252.24	85.23	252.69	16.26	162.92	171.12	1310.98	153.03	301.30	16.32	125.74	171.46
38044	64.95	1.65	1.75	252.13	84.71	253.70	14.56	163.19	170.37	1310.91	146.31	297.30	17.22	125.16	173.45
38045	63.78	-1.65	1.75	293.66	97.37	266.07	28.65	162.25	171.88	1468.03	197.59	510.61	28.49	196.98	176.81
38046	63.73	-0.55	1.75	290.35	100.20	265.20	32.39	162.45	172.77	1452.62	216.08	519.59	32.64	199.10	173.30
38047	63.73	0.55	1.75	290.35	100.20	265.20	32.38	162.45	172.78	1452.63	216.13	519.59	32.65	199.07	173.29
38048	63.78	1.65	1.75	293.66	97.37	266.06	28.64	162.25	171.89	1468.10	197.71	510.61	28.45	196.87	176.77
38049	62.60	-1.65	1.75	339.09	109.42	286.92	48.59	171.03	183.49	1589.91	243.64	848.80	58.72	270.31	187.81
38050	62.55	-0.55	1.75	322.01	119.91	287.34	58.40	173.32	184.59	1511.84	299.67	869.79	64.94	280.37	184.96
38051	62.55	0.55	1.75	322.01	119.91	287.33	58.37	173.32	184.61	1511.81	299.74	869.80	64.95	280.36	184.96
38052	62.60	1.65	1.75	339.10	109.42	286.91	48.53	171.04	183.52	1589.88	243.82	848.83	58.75	270.23	187.79
38053	61.43	-1.65	1.75	379.76	124.99	320.72	86.09	185.16	215.85	1611.66	287.91	1241.06	172.75	268.93	215.70
38054	61.37	-0.55	1.75	322.23	137.88	325.77	95.32	192.16	224.66	1346.51	366.08	1274.95	125.23	317.69	225.00
38055	61.37	0.55	1.75	322.24	137.88	325.76	95.28	192.16	224.69	1346.47	366.12	1274.94	125.19	317.71	225.04
38056	61.43	1.65	1.75	379.78	125.03	320.71	85.99	185.15	215.93	1611.54	288.07	1241.10	172.73	268.93	215.79
38057	60.25	-1.65	1.75	386.44	146.28	371.46	135.96	178.10	350.28	1436.35	277.64	1333.08	349.70	155.77	384.98
38058	60.19	-0.55	1.75	277.35	92.74	396.86	87.07	189.51	353.01	919.10	135.32	1322.42	91.03	287.00	356.00
38059	60.19	0.55	1.75	277.35	92.73	396.85	87.04	189.50	353.07	919.09	135.29	1322.43	91.00	287.02	356.05
38060	60.25	1.65	1.75	386.46	146.21	371.44	135.89	178.09	350.50	1436.20	277.59	1333.09	349.64	155.81	385.15
38061	77.85	-1.65	0.25	51.49	20.70	158.65	3.31	289.04	248.36	227.21	22.70	243.37	10.82	58.69	248.39
38062	77.85	-0.55	0.25	51.60	20.54	155.60	2.05	289.63	249.34	228.45	22.45	241.33	4.01	58.55	249.35
38063	77.85	0.55	0.25	51.60	20.54	155.60	2.05	289.63	249.34	228.44	22.45	241.33	4.01	58.54	249.35
38064	77.85	1.65	0.25	51.50	20.70	158.64	3.32	289.04	248.36	227.19	22.69	243.39	10.82	58.68	248.39
38065	76.65	-1.65	0.25	57.65	20.96	162.60	5.40	287.00	243.44	261.18	24.65	240.76	12.97	55.46	243.47
38066	76.65	-0.55	0.25	57.89	20.81	159.63	4.67	287.59	244.37	262.81	24.37	238.65	6.11	55.25	244.38
38067	76.65	0.55	0.25	57.90	20.81	159.62	4.68	287.59	244.38	262.80	24.37	238.65	6.11	55.25	244.38
38068	76.65	1.65	0.25	57.66	20.96	162.59	5.41	287.00	243.44	261.17	24.64	240.77	12.96	55.45	243.47
38069	75.46	-1.65	0.25	64.86	21.92	170.98	7.55	283.03	238.31	301.54	26.69	235.67	15.34	50.93	238.34
38070	75.46	-0.55	0.25	65.22	21.80	168.19	7.01	283.61	239.20	303.58	26.35	233.45	8.31	50.69	239.20
38071	75.46	0.55	0.25	65.22	21.80	168.18	7.02	283.60	239.20	303.58	26.35	233.46	8.31	50.68	239.21
38072	75.46	1.65	0.25	64.87	21.92	170.96	7.56	283.03	238.32	301.53	26.68	235.68	15.33	50.92	238.35
38073	74.26	-1.65	0.25	73.25	23.69	182.84	9.41	277.16	233.01	348.92	28.53	227.67	17.63	45.65	233.03
38074	74.25	-0.55	0.25	73.70	23.60	180.32	8.96	277.72	233.85	351.38	28.11	225.30	10.25	45.45	233.85
38075	74.25	0.55	0.25	73.70	23.60	180.31	8.97	277.71	233.85	351.38	28.10	225.31	10.24	45.44	233.85
38076	74.26	1.65	0.25	73.26	23.69	182.81	9.43	277.16	233.02	348.92	28.53	227.68	17.62	45.65	233.04
38077	73.06	-1.65	0.25	82.94	26.35	197.11	10.88	269.47	227.55	403.94	29.90	216.33	19.60	41.29	227.55
38078	73.04	-0.55	0.25	83.46	26.32	194.89	10.46	269.98	228.33	406.77	29.36	213.75	11.77	41.32	228.34
38079	73.04	0.55	0.25	83.47	26.32	194.88	10.46	269.98	228.34	406.77	29.36	213.75	11.76	41.32	228.34
38080	73.06	1.65	0.25	82.95	26.34	197.08	10.89	269.46	227.56	403.95	29.91	216.34	19.58	41.29	227.56
38081	71.86	-1.65	0.25	94.06	30.00	212.77	11.85	260.08	221.93	467.07	30.71	201.40	21.01	41.77	221.91
38082	71.84	-0.55	0.25	94.63	30.07	210.84	11.40	260.54	222.67	470.18	30.11	198.53	12.77	42.33	222.67
38083	71.84	0.55	0.25	94.63	30.07	210.83	11.41	260.54	222.67	470.18	30.11	198.53	12.74	42.33	222.67
38084	71.86	1.65	0.25	94.07	30.00	212.74	11.86	260.07	221.94	467.10	30.71	201.40	20.98	41.77	221.92
38085	70.67	-1.65	0.25	106.71	34.79	228.91	12.19	249.21	216.17	538.49	31.44	183.47	21.62	51.96	216.14
38086	70.64	-0.55	0.25	107.29	34.96	227.25	11.67	249.60	216.88	541.70	31.04	180.28	13.07	53.14	216.87
38087	70.64	0.55	0.25	107.30	34.96	227.24	11.68	249.60	216.88	541.72	31.04	180.28	13.03	53.14	216.88
38088	70.67	1.65	0.25	106.72	34.78	228.88	12.20	249.21	216.19	538.53	31.44	183.47	21.57	51.97	216.15
38089	69.47	-1.65	0.25	120.93	40.84	244.76	11.75	237.27	210.36	617.71	34.02	165.99	21.22	73.29	210.33
38090	69.44	-0.55	0.25	121.49	41.10	243.35	11.06	237.57	211.04	620.86	34.35	162.65	12.48	74.87	211.04
38091	69.44	0.55	0.25	121.49	41.10	243.34	11.07	237.57	211.05	620.88	34.35	162.65	12.44	74.87	211.05
38092	69.47	1.65	0.25	120.94	40.83	244.73	11.75	237.27	210.37	617.77	34.01	165.98	21.14	73.30	210.35
38093	68.27	-1.65	0.25	136.61	48.29	259.73	10.28	224.90	204.66	703.12	41.86	160.40	19.83	104.45	204.73
38094	68.24	-0.55	0.25	137.15	48.57	258.52	9.29	225.08	205.37	706.11	43.30	157.68	10.81	106.19	205.38
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Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
38123	59.83	0.55	0.25	27.24	54.07	292.32	38.76	74.07	256.64	37.14	132.61	849.54	48.70	340.56	260.28
38124	59.89	1.65	0.25	158.14	122.81	307.58	111.29	101.74	299.04	619.95	119.68	911.07	379.64	353.58	339.57
38125	77.84	-1.65	-1.25	41.82	15.75	176.73	3.52	313.82	265.55	148.89	16.74	253.40	8.90	57.49	265.63
38126	77.84	-0.55	-1.25	41.90	15.61	173.45	3.01	314.51	266.61	149.54	16.73	251.05	4.07	57.28	266.62
38127	77.84	0.55	-1.25	41.91	15.62	173.45	3.02	314.51	266.61	149.54	16.73	251.05	4.07	57.27	266.62
38128	77.84	1.65	-1.25	41.84	15.76	176.72	3.53	313.82	265.55	148.86	16.75	253.42	8.90	57.48	265.63
38129	76.62	-1.65	-1.25	46.59	15.88	181.86	6.54	312.13	261.17	174.91	16.51	248.89	11.34	50.97	261.25
38130	76.61	-0.55	-1.25	46.77	15.74	178.68	6.31	312.83	262.19	175.86	16.49	246.44	7.03	50.73	262.20
38131	76.61	0.55	-1.25	46.78	15.74	178.68	6.32	312.82	262.19	175.85	16.49	246.44	7.03	50.73	262.20
38132	76.62	1.65	-1.25	46.61	15.88	181.84	6.55	312.12	261.17	174.89	16.52	248.91	11.35	50.96	261.25
38133	75.40	-1.65	-1.25	52.17	16.71	192.12	9.37	308.51	256.58	205.76	16.93	241.77	14.02	44.80	256.66
38134	75.39	-0.55	-1.25	52.45	16.58	189.16	9.25	309.21	257.55	207.00	16.91	239.16	9.88	44.67	257.56
38135	75.39	0.55	-1.25	52.45	16.58	189.16	9.26	309.20	257.56	206.99	16.91	239.17	9.89	44.67	257.56
38136	75.40	1.65	-1.25	52.19	16.71	192.10	9.38	308.50	256.59	205.74	16.94	241.78	14.03	44.79	256.66
38137	74.18	-1.65	-1.25	58.64	18.35	206.46	11.81	303.01	251.78	241.50	17.97	231.71	16.55	42.08	251.86
38138	74.16	-0.55	-1.25	58.99	18.24	203.79	11.75	303.69	252.72	243.01	17.96	228.90	12.37	42.34	252.73
38139	74.16	0.55	-1.25	58.99	18.24	203.78	11.75	303.69	252.72	243.01	17.96	228.90	12.37	42.34	252.73
38140	74.18	1.65	-1.25	58.67	18.35	206.43	11.82	303.00	251.79	241.49	17.97	231.71	16.56	42.07	251.87
38141	72.96	-1.65	-1.25	66.04	20.90	223.66	13.75	295.67	246.78	282.00	19.56	218.64	18.70	47.45	246.84
38142	72.94	-0.55	-1.25	66.43	20.84	221.32	13.72	296.33	247.68	283.73	19.61	215.57	14.35	48.36	247.69
38143	72.94	0.55	-1.25	66.43	20.83	221.31	13.73	296.33	247.68	283.73	19.61	215.57	14.35	48.36	247.69
38144	72.96	1.65	-1.25	66.06	20.89	223.63	13.76	295.66	246.80	282.00	19.57	218.64	18.70	47.45	246.85
38145	71.73	-1.65	-1.25	74.32	24.43	242.59	15.11	286.61	241.57	326.78	21.76	203.38	20.28	63.10	241.60
38146	71.71	-0.55	-1.25	74.72	24.44	240.56	15.08	287.23	242.43	328.63	21.96	200.01	15.73	64.62	242.44
38147	71.71	0.55	-1.25	74.73	24.43	240.55	15.08	287.23	242.44	328.63	21.96	200.01	15.72	64.63	242.44
38148	71.73	1.65	-1.25	74.34	24.42	242.55	15.12	286.61	241.58	326.79	21.77	203.37	20.26	63.12	241.61
38149	70.51	-1.65	-1.25	83.34	29.04	262.20	15.78	276.02	236.14	374.81	24.89	188.96	21.13	87.65	236.13
38150	70.49	-0.55	-1.25	83.72	29.13	260.48	15.70	276.58	236.99	376.64	25.39	185.45	16.36	89.61	236.99
38151	70.49	0.55	-1.25	83.73	29.12	260.47	15.70	276.58	237.00	376.64	25.39	185.44	16.35	89.61	236.99
38152	70.51	1.65	-1.25	83.35	29.03	262.16	15.79	276.01	236.16	374.83	24.89	188.94	21.10	87.67	236.15
38153	69.29	-1.65	-1.25	92.76	34.81	281.60	15.63	264.18	230.57	424.24	29.59	183.51	21.17	118.98	230.53
38154	69.26	-0.55	-1.25	93.11	34.96	280.16	15.43	264.66	231.42	425.93	30.53	180.40	16.12	121.21	231.42
38155	69.26	0.55	-1.25	93.12	34.96	280.15	15.43	264.66	231.43	425.94	30.53	180.39	16.10	121.22	231.42
38156	69.29	1.65	-1.25	92.78	34.80	281.57	15.64	264.18	230.59	424.28	29.59	183.48	21.13	119.00	230.54
38157	68.07	-1.65	-1.25	102.02	41.79	300.01	14.54	251.53	225.02	472.13	36.54	201.84	20.51	154.49	224.98
38158	68.04	-0.55	-1.25	102.33	41.93	298.81	14.12	251.91	225.91	473.64	37.87	200.15	14.90	156.88	225.91
38159	68.04	0.55	-1.25	102.34	41.93	298.80	14.11	251.91	225.92	473.66	37.87	200.13	14.87	156.89	225.91
38160	68.07	1.65	-1.25	102.03	41.78	299.98	14.53	251.53	225.03	472.20	36.54	201.79	20.44	154.52	224.99
38161	66.85	-1.65	-1.25	110.21	49.86	316.73	12.42	238.56	219.82	514.32	45.61	258.04	19.63	189.43	219.90
38162	66.81	-0.55	-1.25	110.51	49.90	315.74	11.67	238.83	220.83	515.65	47.11	258.55	12.69	191.89	220.84
38163	66.81	0.55	-1.25	110.52	49.89	315.74	11.67	238.83	220.83	515.68	47.11	258.53	12.65	191.90	220.84
38164	66.85	1.65	-1.25	110.23	49.85	316.71	12.42	238.56	219.84	514.41	45.62	257.99	19.54	189.46	219.91
38165	65.63	-1.65	-1.25	116.09	58.62	331.17	9.48	225.53	215.62	545.81	55.07	355.30	19.32	214.57	215.98
38166	65.59	-0.55	-1.25	116.21	58.60	330.36	8.20	225.70	216.82	546.38	56.92	358.22	9.76	216.92	216.86
38167	65.59	0.55	-1.25	116.22	58.60	330.36	8.20	225.70	216.82	546.40	56.94	358.20	9.71	216.94	216.86
38168	65.63	1.65	-1.25	116.11	58.60	331.15	9.47	225.53	215.63	545.89	55.11	355.24	19.20	214.61	216.00
38169	64.41	-1.65	-1.25	118.17	67.25	342.64	6.46	211.79	213.35	562.63	61.41	486.21	18.80	213.84	214.15
38170	64.36	-0.55	-1.25	117.03	67.98	342.02	4.31	211.66	214.88	559.05	65.88	491.73	6.24	214.98	214.98
38171	64.36	0.55	-1.25	117.04	67.98	342.01	4.30	211.66	214.88	559.05	65.92	491.70	6.22	215.00	214.98
38172	64.41	1.65	-1.25	118.19	67.24	342.62	6.45	211.79	213.35	562.68	61.50	486.14	18.68	213.90	214.15
38173	63.19	-1.65	-1.25	115.28	74.79	349.64	5.97	194.73	213.88	567.24	61.13	628.70	11.83	167.78	215.41
38174	63.14	-0.55	-1.25	108.69	78.98	349.13	3.16	192.77	216.39	548.19	74.67	636.16	3.38	162.95	216.64
38175	63.14	0.55	-1.25	108.70	78.98	349.13	3.13	192.77	216.39	548.12	74.74	636.13	3.31	162.98	216.64
38176	63.19	1.65	-1.25	115.30	74.79	349.63	5.95	194.73	213.87	567.14	61.27	628.60	11.78	167.85	215.39
38177	61.97	-1.65	-1.25	108.50	81.14	348.63	20.37	169.67	216.88	578.97	56.32	738.68	28.28	118.21	220.82
38178	61.92	-0.55	-1.25	84.80	93.93	347.25	11.66	159.26	222.72	520.31	85.99	741.31	20.91	119.17	223.52
38179	61.92	0.55	-1.25	84.80	93.93	347.24	11.65	159.26	222.72	520.15	86.03	741.29	20.57	119.13	223.51
38180	61.97	1.65	-1.25	108.51	81.14	348.60	20.36	169.67	216.85	578.60	56.41	738.57	28.15	118.16	220.77
38181	60.75	-1.65	-1.25	104.01	88.90	329.32	56.93	135.12	218.88	641.41	57.83	748.93	89.23	282.87	227.99
38182	60.69	-0.55	-1.25	44.34	106.55	319.35	30.83	101.38	230.99	519.31	78.95	726.93	48.00	337.87	231.54
38183	60.69	0.55	-1.25	44.34	106.57	319.34	30.85	101.39	230.98	519.07	78.90	726.92	47.56	337.75	231.52
38184	60.75	1.65	-1.25	104.01	88.96	329.28	56.96	135.12	218.87	640.70	57.80	748.84	88.86	282.52	227.91
38185	59.53	-1.65	-1.25	107.61	104.05	305.05	96.14	113.26	255.90	756.47	72.73	895.73	153.50	557.61	276.95
38186	59.47	-0.55	-1.25	7.73	73.62	294.39	57.24	76.09	242.07	592.72	52.77	1023.83	57.83	620.43	243.71
38187	59.47	0.55	-1.25	7.71	73.69	294.38	57.24	76.09	242.06	592.54	53.10	1023.74	57.79	620.29	243.73
38188	59.53	1.65	-1.25	107.58	104.27	304.99	96.17	113.26	255.90	755.62	72.27	895.53	153.10	557.01	276.99
38189	96.56	2.50	1.75	32.52	65.65	369.59	67.29	110.56	275.10	51.97	59.26	443.74	67.68	134.54	275.13
38190	96.47	3.10	1.75	35.07	66.06	370.19	66.64	113.40	273.93	54.17	59.02	440.16	67.24	136.10	273.98
38191	95.39	2.50	1.75	37.09	61.87	345.35	63.54	126.27	273.19	78.86	56.31	364.48	63.67	138.55	273.10
38192	95.31	3.10	1.75	39.14	62.27	346.11	63.05	128.56	272.17	79.93	56.18	362.37	63.23	139.49	272.03
38193	94.22	2.50	1.75	41.45	58.25	322.58									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
38221	96.93	2.50	0.25	37.68	65.14	422.38	71.71	130.12	290.05	58.58	72.73	513.25	72.26	164.42	290.04
38222	96.84	3.10	0.25	39.94	65.61	423.33	70.98	132.54	289.04	60.45	72.17	509.55	71.84	165.19	289.03
38223	95.73	2.50	0.25	56.45	62.14	380.26	73.54	143.88	284.03	123.44	71.59	392.60	73.38	170.30	283.91
38224	95.65	3.10	0.25	58.02	62.85	381.32	73.06	146.06	283.21	123.72	71.59	390.99	72.80	170.77	283.03
38225	94.54	2.50	0.25	53.11	57.85	350.17	65.79	146.06	277.75	135.13	61.93	296.74	65.47	134.48	277.59
38226	94.47	3.10	0.25	54.82	58.54	351.01	65.45	148.16	276.73	135.33	62.14	296.61	64.96	135.61	276.49
38227	93.35	2.50	0.25	47.89	53.54	333.27	57.80	155.93	275.33	134.97	54.24	242.75	57.48	104.54	275.16
38228	93.28	3.10	0.25	49.69	54.16	333.96	57.55	157.69	274.15	135.20	54.52	243.63	57.04	106.11	273.89
38229	92.16	2.50	0.25	43.37	49.40	319.39	50.63	170.30	274.60	131.34	47.76	213.37	50.35	81.10	274.43
38230	92.09	3.10	0.25	45.22	49.97	320.04	50.41	171.66	273.27	131.63	48.06	215.04	49.97	83.01	273.00
38231	90.97	2.50	0.25	39.90	45.48	305.75	44.30	186.71	274.42	127.15	42.25	200.99	44.09	63.65	274.27
38232	90.91	3.10	0.25	41.73	46.00	306.47	44.09	187.66	272.97	127.48	42.56	203.18	43.76	65.78	272.73
38233	89.77	2.50	0.25	37.28	41.80	291.23	38.65	203.50	274.23	123.56	37.49	199.35	38.55	52.00	274.10
38234	89.72	3.10	0.25	39.06	42.29	292.10	38.45	204.09	272.69	123.92	37.82	201.83	38.27	54.16	272.49
38235	88.58	2.50	0.25	35.37	38.37	275.58	33.52	219.67	273.71	121.20	33.36	203.64	33.54	46.10	273.62
38236	88.53	3.10	0.25	37.07	38.83	276.66	33.33	219.95	272.11	121.56	33.68	206.24	33.35	48.04	271.96
38237	87.39	2.50	0.25	34.13	35.20	258.94	28.76	234.61	272.74	120.56	29.76	210.61	28.97	45.18	272.67
38238	87.35	3.10	0.25	35.70	35.63	260.30	28.59	234.63	271.09	120.90	30.09	213.26	28.88	46.68	270.99
38239	86.20	2.50	0.25	33.58	32.29	241.69	24.29	247.97	271.22	122.05	26.67	218.35	24.76	47.45	271.18
38240	86.16	3.10	0.25	34.99	32.69	243.39	24.15	247.77	269.56	122.32	27.00	221.02	24.84	48.47	269.50
38241	85.01	2.50	0.25	33.75	29.66	224.36	20.04	259.54	269.15	126.06	24.11	225.84	20.91	51.08	269.14
38242	84.98	3.10	0.25	34.96	30.03	226.44	19.95	259.17	267.50	126.22	24.44	228.51	21.25	51.72	267.48
38243	83.81	2.50	0.25	34.69	27.30	207.63	16.00	269.22	266.54	132.97	22.12	232.53	17.54	54.82	266.56
38244	83.79	3.10	0.25	35.68	27.65	210.13	15.99	268.71	264.91	132.97	22.46	235.20	18.26	55.19	264.93
38245	82.62	2.50	0.25	36.41	25.25	192.29	12.19	276.95	263.43	143.18	20.81	238.13	14.86	57.95	263.46
38246	82.60	3.10	0.25	37.16	25.57	195.22	12.30	276.33	261.83	142.96	21.15	240.18	16.13	58.16	261.88
38247	81.43	2.50	0.25	38.92	23.54	179.25	8.72	282.71	259.85	157.08	20.24	242.48	13.23	60.09	259.91
38248	81.42	3.10	0.25	39.43	23.83	182.60	9.01	282.01	258.30	156.59	20.59	245.16	15.18	60.20	258.38
38249	80.24	2.50	0.25	42.22	22.21	169.48	5.80	286.51	255.88	175.11	20.48	245.42	12.96	61.02	255.94
38250	80.23	3.10	0.25	42.51	22.48	173.18	6.40	285.75	254.38	174.27	20.82	248.12	15.61	61.11	254.48
38251	79.05	2.50	0.25	46.36	21.32	163.86	4.15	288.35	251.55	197.73	21.46	246.77	14.06	60.64	251.63
38252	79.04	3.10	0.25	46.43	21.57	167.80	5.11	287.55	250.12	196.48	21.80	249.51	17.30	60.76	250.24
38253	97.29	2.50	-1.25	107.15	74.27	490.03	122.28	184.98	322.77	235.08	121.11	626.36	122.10	283.00	322.75
38254	97.21	3.10	-1.25	109.29	76.73	491.73	121.25	187.13	322.30	235.27	121.49	622.81	120.97	282.53	322.27
38255	96.08	2.50	-1.25	78.44	63.28	391.59	90.16	140.55	283.40	194.79	82.10	369.83	89.87	162.86	283.27
38256	96.00	3.10	-1.25	80.36	64.61	392.61	89.78	142.95	282.66	194.90	82.70	369.03	89.33	163.81	282.46
38257	94.86	2.50	-1.25	59.64	56.80	376.02	73.49	143.27	278.62	163.02	67.35	289.45	73.25	111.64	278.43
38258	94.79	3.10	-1.25	61.74	57.73	376.65	73.20	145.33	277.49	163.37	67.77	289.76	72.83	113.22	277.21
38259	93.65	2.50	-1.25	48.35	51.34	364.97	62.01	158.10	279.24	140.79	57.53	244.46	61.85	80.19	279.04
38260	93.58	3.10	-1.25	50.52	52.07	365.48	61.76	159.67	277.89	141.27	57.86	245.81	61.50	82.27	277.58
38261	92.43	2.50	-1.25	41.17	46.45	354.08	53.38	177.54	281.20	124.01	50.46	223.08	53.50	60.32	281.02
38262	92.37	3.10	-1.25	43.37	47.07	354.61	53.13	178.62	279.68	124.58	50.72	225.18	52.99	62.70	279.40
38263	91.21	2.50	-1.25	36.24	42.00	341.15	46.45	198.14	283.16	110.66	44.92	216.39	46.46	50.02	283.01
38264	91.16	3.10	-1.25	38.43	42.55	341.82	46.18	198.79	281.52	111.32	45.14	218.95	46.18	52.34	281.28
38265	90.00	2.50	-1.25	32.69	37.94	325.90	40.57	218.24	284.61	99.94	40.36	218.17	40.67	48.04	284.49
38266	89.95	3.10	-1.25	34.82	38.44	326.80	40.28	218.52	282.89	100.67	40.54	220.97	40.43	49.87	282.71
38267	88.78	2.50	-1.25	30.16	34.23	308.60	35.33	236.95	285.36	91.58	36.47	224.06	35.55	51.35	285.28
38268	88.74	3.10	-1.25	32.18	34.70	309.79	35.04	236.92	283.59	92.34	36.63	226.97	35.36	52.55	283.46
38269	87.57	2.50	-1.25	28.55	30.87	289.78	30.49	253.80	285.35	85.57	33.08	231.38	30.84	56.66	285.30
38270	87.53	3.10	-1.25	30.39	31.31	291.31	30.21	253.53	283.56	86.33	33.22	234.34	30.73	57.34	283.48
38271	86.35	2.50	-1.25	27.80	27.83	270.08	25.88	268.58	284.60	82.06	30.06	238.69	26.42	61.94	284.58
38272	86.32	3.10	-1.25	29.41	28.25	272.00	25.63	268.12	282.81	82.78	30.18	241.68	26.43	62.27	282.78
38273	85.14	2.50	-1.25	27.86	25.12	250.25	21.42	281.20	283.15	81.25	27.34	245.27	22.23	66.19	283.17
38274	85.11	3.10	-1.25	29.20	25.50	252.59	21.21	280.60	281.38	81.87	27.44	248.26	22.42	66.31	281.41
38275	83.92	2.50	-1.25	28.65	22.72	231.12	17.08	291.67	281.09	83.39	24.88	250.76	18.32	68.97	281.13
38276	83.90	3.10	-1.25	29.70	23.06	233.90	16.93	290.95	279.35	83.86	24.96	253.76	18.79	68.98	279.42
38277	82.70	2.50	-1.25	30.08	20.63	213.65	12.87	300.00	278.48	88.74	22.64	255.00	14.86	70.09	278.55
38278	82.69	3.10	-1.25	30.86	20.94	216.88	12.80	299.19	276.78	89.02	22.71	258.01	15.73	70.07	276.90
38279	81.49	2.50	-1.25	32.10	18.87	198.89	8.84	306.24	275.40	97.58	20.65	257.87	12.19	69.49	275.50
38280	81.48	3.10	-1.25	32.63	19.14	202.55	8.91	305.37	273.76	97.63	20.71	260.90	13.64	69.50	273.91
38281	80.27	2.50	-1.25	34.70	17.46	187.97	5.21	310.43	271.92	110.21	18.95	259.25	10.84	67.18	272.05
38282	80.27	3.10	-1.25	35.00	17.71	191.99	5.53	309.52	270.34	109.98	19.01	262.32	12.95	67.25	270.53
38283	79.06	2.50	-1.25	37.90	16.48	181.90	2.94	312.63	268.12	126.90	17.63	258.97	11.21	63.21	268.27
38284	79.06	3.10	-1.25	38.00	16.70	186.16	3.65	311.68	266.60	126.34	17.69	262.09	13.82	63.38	266.82
38285	77.87	2.50	1.75	59.05	24.49	145.85	5.20	263.46	229.62	284.07	34.84	233.53	18.45	65.84	229.64
38286	77.87	3.10	1.75	58.86	24.71	149.58	6.47	262.83	228.37	281.68	35.08	236.00	22.72	65.88	228.40
38287	76.70	2.50	1.75	65.77	24.78	148.66	6.22	261.13	224.22	322.69	37.73	232.75	21.32	67.82	224.22
38288	76.71	3.10	1.75	65.37	24.98	152.33	7.45	260.50	223.05	319.63	37.99	235.27	26.22	67.89	223.05
38289	75.53	2.50	1.75	73.69	25.75	155.07	7.55	256.94	218.65	368.49	40.36	229.79	24.43	68.77	218.64
38290	75.54	3.10	1.75	73.09	25.92	158.54	8.72	256.33	217.56	364.68	40.70	232.39	30.00	68.92	217.55
38291	74.36	2.50	1.75	83.00	27.47	164.33	8.83	250.89	212.97	422.58	42.				



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
38319	76.66	2.50	0.25	57.35	21.19	166.78	6.37	288.19	242.10	258.92	25.05	243.80	18.88	55.72	242.17
38320	76.67	3.10	0.25	57.04	21.41	170.71	7.19	285.38	240.80	256.62	25.42	246.68	23.08	55.99	240.91
38321	75.47	2.50	0.25	64.40	22.12	174.89	8.32	282.23	237.05	298.69	27.18	238.85	21.83	51.26	237.11
38322	75.48	3.10	0.25	63.91	22.32	178.57	9.02	281.43	235.83	295.78	27.61	241.87	26.54	51.60	235.91
38323	74.28	2.50	0.25	72.64	23.83	186.38	10.10	276.40	231.83	345.48	29.16	231.06	24.76	45.95	231.86
38324	74.30	3.10	0.25	71.99	23.98	189.72	10.73	275.63	230.68	341.92	29.71	234.28	30.05	46.29	230.73
38325	73.09	2.50	0.25	82.21	26.40	200.24	11.53	268.76	226.44	399.96	30.71	220.01	27.41	41.31	226.44
38326	73.11	3.10	0.25	81.43	26.48	203.21	12.15	268.04	225.37	395.78	31.43	223.50	33.32	41.39	225.36
38327	71.89	2.50	0.25	93.26	29.93	215.49	12.53	259.43	220.90	462.69	31.64	205.46	29.45	41.07	220.85
38328	71.92	3.10	0.25	92.39	29.89	218.07	13.19	258.79	219.90	457.99	32.54	209.31	36.01	40.43	219.82
38329	70.70	2.50	0.25	105.89	34.56	231.24	12.98	248.67	215.21	533.93	32.23	187.94	30.55	50.37	215.12
38330	70.74	3.10	0.25	104.98	34.37	233.46	13.74	248.12	214.28	528.94	33.12	192.20	37.68	48.74	214.14
38331	69.51	2.50	0.25	120.13	40.48	246.75	12.74	236.85	209.43	613.24	33.93	170.66	30.40	71.08	209.35
38332	69.55	3.10	0.25	119.24	40.13	248.65	13.67	236.43	208.56	608.27	34.21	175.11	37.94	68.71	208.42
38333	68.32	2.50	0.25	135.85	47.90	261.45	11.64	224.64	203.72	698.94	40.18	164.23	29.04	101.96	203.83
38334	68.37	3.10	0.25	135.02	47.45	263.08	12.86	224.37	202.84	694.26	38.97	167.93	36.70	99.21	202.97
38335	67.13	2.50	0.25	152.64	56.92	274.96	9.57	213.00	198.42	787.16	54.48	191.26	27.31	141.05	199.14
38336	67.18	3.10	0.25	151.82	56.60	276.40	11.23	212.91	197.46	782.76	51.83	192.35	34.87	138.23	198.43
38337	65.93	2.50	0.25	169.78	67.23	287.28	7.11	203.24	194.33	871.10	76.29	273.71	27.62	184.37	196.35
38338	65.99	3.10	0.25	168.69	67.45	288.60	9.26	203.30	193.15	866.13	73.81	271.16	35.54	181.61	196.01
38339	64.74	2.50	0.25	186.38	77.37	299.03	7.74	196.55	192.98	940.98	98.79	420.00	33.16	222.11	196.88
38340	64.81	3.10	0.25	184.53	78.52	300.27	10.00	196.64	191.45	933.69	98.40	413.74	44.81	219.20	197.10
38341	63.55	2.50	0.25	202.53	83.98	311.49	12.13	192.81	196.92	987.91	107.19	629.51	41.52	232.42	202.22
38342	63.62	3.10	0.25	199.60	85.71	312.64	16.56	192.68	195.12	977.28	108.10	618.83	68.19	229.13	202.54
38343	62.36	2.50	0.25	223.36	81.65	324.99	11.49	188.67	209.61	1021.11	80.91	869.17	34.23	183.21	214.25
38344	62.43	3.10	0.25	220.05	82.68	326.01	25.33	188.33	207.99	1009.95	80.17	852.83	102.17	180.12	213.29
38345	61.17	2.50	0.25	269.10	80.02	335.68	26.49	180.90	229.25	1108.53	59.08	1036.66	49.94	144.75	235.94
38346	61.25	3.10	0.25	271.59	66.74	335.90	34.20	183.20	231.07	1115.30	59.18	1011.12	131.03	142.58	233.25
38347	59.37	2.50	0.25	387.92	108.28	341.56	83.27	189.88	204.52	1458.92	147.70	987.03	222.94	379.20	209.82
38348	60.06	3.10	0.25	407.93	142.31	357.93	83.76	219.22	214.56	1542.43	218.70	998.89	261.24	369.19	239.90
38349	77.84	2.50	-1.25	41.77	15.99	181.34	4.19	312.86	264.04	147.93	16.80	256.80	13.02	57.76	264.20
38350	77.84	3.10	-1.25	41.70	16.20	185.66	4.77	311.89	262.58	147.00	16.88	260.00	15.93	58.04	262.82
38351	76.63	2.50	-1.25	46.39	16.10	186.32	6.91	311.16	259.72	173.56	16.58	252.42	15.62	51.29	259.90
38352	76.63	3.10	-1.25	46.16	16.31	190.51	7.25	310.18	258.32	172.21	16.68	255.76	18.76	51.62	258.59
38353	75.41	2.50	-1.25	51.84	16.91	196.27	9.59	307.55	255.19	204.00	17.02	245.49	18.49	44.99	255.37
38354	75.42	3.10	-1.25	51.48	17.11	200.19	9.81	306.57	253.85	202.20	17.14	249.02	21.90	45.22	254.12
38355	74.20	2.50	-1.25	58.21	18.52	210.20	11.94	302.06	250.46	239.35	18.06	235.71	21.30	41.76	250.63
38356	74.21	3.10	-1.25	57.73	18.70	213.74	12.08	301.10	249.18	237.12	18.21	239.50	25.04	41.51	249.43
38357	72.98	2.50	-1.25	65.53	21.00	226.96	13.84	294.76	245.52	279.53	19.62	223.00	23.80	46.25	245.65
38358	73.00	3.10	-1.25	64.96	21.12	230.09	13.95	293.83	244.30	276.93	19.76	227.13	27.92	45.10	244.50
38359	71.76	2.50	-1.25	73.78	24.44	245.44	15.21	285.75	240.36	324.14	21.66	208.10	25.75	61.05	240.43
38360	71.79	3.10	-1.25	73.16	24.47	248.14	15.31	284.88	239.20	321.29	21.72	212.59	30.28	58.96	239.30
38361	70.55	2.50	-1.25	82.80	28.92	264.63	15.94	275.23	234.98	372.19	24.43	193.87	26.94	84.97	234.95
38362	70.58	3.10	-1.25	82.19	28.84	266.93	16.10	274.44	233.86	369.30	24.23	198.53	31.87	82.16	233.83
38363	69.33	2.50	-1.25	92.28	34.60	283.65	15.94	263.51	229.41	421.85	28.54	187.87	27.29	115.89	229.30
38364	69.37	3.10	-1.25	91.72	34.39	285.58	16.23	262.82	228.32	419.16	27.83	192.03	32.57	112.58	228.15
38365	68.12	2.50	-1.25	101.59	41.57	301.72	15.11	251.01	223.80	470.05	34.89	204.28	27.04	151.18	223.70
38366	68.16	3.10	-1.25	101.11	41.32	303.33	15.63	250.46	222.68	467.73	33.54	206.60	32.59	147.60	222.50
38367	66.90	2.50	-1.25	109.80	49.82	318.16	13.42	238.19	218.47	512.46	43.79	257.46	27.03	186.03	218.61
38368	66.95	3.10	-1.25	109.34	49.72	319.51	14.30	237.81	217.23	510.36	42.19	256.83	32.96	182.36	217.38
38369	65.69	2.50	-1.25	115.70	58.90	332.36	11.13	225.29	214.03	544.25	53.52	351.40	28.90	211.18	214.77
38370	65.74	3.10	-1.25	115.05	59.29	333.49	12.51	225.04	212.58	541.74	52.70	347.51	35.98	207.41	213.61
38371	64.47	2.50	-1.25	118.43	67.41	343.60	9.35	211.75	211.43	563.46	59.01	478.73	33.59	211.14	212.97
38372	64.53	3.10	-1.25	117.24	68.64	344.54	11.69	211.44	209.74	559.66	60.00	471.36	44.69	207.01	211.91
38373	63.25	2.50	-1.25	119.29	72.72	350.46	9.53	195.88	211.44	579.09	53.67	617.99	36.62	169.38	213.66
38374	63.32	3.10	-1.25	117.42	74.53	351.23	14.65	195.29	209.81	574.41	55.76	606.63	58.94	165.10	212.36
38375	62.04	2.50	-1.25	125.88	72.40	349.92	15.78	177.30	212.72	623.36	44.33	727.85	28.01	121.97	216.21
38376	62.11	3.10	-1.25	124.11	73.47	350.65	23.14	176.83	211.99	621.73	46.86	712.32	71.22	120.71	214.16
38377	60.82	2.50	-1.25	157.15	73.57	338.82	44.32	166.23	208.42	748.17	48.28	775.74	45.74	235.25	220.36
38378	60.90	3.10	-1.25	158.37	69.65	340.73	44.70	169.12	211.31	756.22	54.47	766.75	80.32	227.73	216.38
38379	59.61	2.50	-1.25	238.34	93.57	336.45	87.04	193.47	176.57	1035.40	94.42	762.90	107.87	512.09	176.57
38380	59.69	3.10	-1.25	246.23	103.70	354.57	83.53	209.81	187.61	1078.07	124.65	778.63	147.44	500.75	237.16
38381	79.03	3.95	1.75	53.48	25.48	156.97	7.99	262.18	231.12	246.56	32.69	239.19	24.73	63.08	231.16
38382	80.18	3.95	1.75	49.43	26.34	161.48	8.64	260.88	235.84	221.02	30.20	236.37	21.68	59.64	235.88
38383	81.33	3.95	1.75	46.28	27.66	169.21	10.32	257.80	240.25	200.01	28.20	232.11	19.64	55.78	240.27
38384	82.48	3.95	1.75	43.98	29.37	179.57	12.82	252.95	244.29	182.95	26.83	226.59	18.85	51.83	244.28
38385	83.63	3.95	1.75	42.45	31.40	191.86	15.90	246.39	247.91	169.34	26.22	219.99	19.40	48.32	247.86
38386	84.79	3.96	1.75	41.61	33.72	205.43	19.41	238.18	251.08	158.72	26.44	212.57	21.16	46.05	250.99
38387	85.94	3.96	1.75	41.37	36.30	219.67	23.23	228.44	253.82	150.61	27.50	204.73	23.86	46.12	253.67
38388	87.09	3.96	1.75	41.63	39.11	234.11	27.35	217.32	256.13	144.54	29.37	197.17	27.27	49.48	255.92
38389	88.24	3.96													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
38417	83.46	6.16	1.75	47.88	33.71	206.04	17.33	244.54	238.09	167.02	29.42	235.47	23.01	52.77	237.94
38418	84.57	6.16	1.75	47.94	36.15	217.49	20.17	237.31	241.18	157.58	29.80	228.14	22.85	52.57	240.93
38419	85.68	6.17	1.75	48.45	38.83	229.80	23.48	228.76	243.95	150.32	30.91	220.36	23.99	54.60	243.56
38420	86.80	6.17	1.75	49.32	41.74	242.56	27.19	219.06	246.40	144.81	32.72	212.78	26.25	59.38	245.89
38421	87.91	6.17	1.75	50.46	44.86	255.52	31.26	208.45	248.61	140.58	35.17	206.46	29.39	67.06	247.96
38422	89.02	6.17	1.75	51.79	48.16	268.56	35.66	197.28	250.65	137.06	38.18	203.19	33.25	77.52	249.88
38423	90.14	6.18	1.75	53.24	51.62	281.82	40.38	185.99	252.65	133.52	41.66	205.70	37.73	90.48	251.78
38424	91.25	6.18	1.75	54.65	55.19	295.79	45.34	175.11	254.78	128.95	45.48	217.73	42.74	105.53	253.85
38425	92.36	6.18	1.75	55.69	58.79	311.45	50.37	165.15	257.23	121.72	49.42	243.49	48.18	121.87	256.31
38426	93.48	6.18	1.75	55.57	62.26	330.48	55.07	156.20	260.14	109.30	53.06	286.74	53.81	137.51	259.33
38427	94.59	6.18	1.75	52.80	65.39	352.67	58.72	146.09	263.04	88.21	55.13	345.45	59.18	146.41	262.54
38428	95.70	6.19	1.75	50.34	68.63	375.36	61.97	133.61	265.25	68.65	57.36	410.92	63.90	146.46	265.41
38429	78.99	7.25	1.75	54.85	28.91	191.04	15.61	255.71	216.95	227.48	35.95	264.77	40.73	62.87	217.00
38430	80.08	7.25	1.75	52.91	29.89	193.78	15.34	254.86	221.02	207.15	34.09	261.75	35.12	60.23	221.05
38431	81.17	7.25	1.75	51.72	31.34	198.89	15.73	252.49	224.88	190.33	32.70	257.42	30.48	57.82	224.86
38432	82.26	7.25	1.75	51.18	33.18	206.10	16.84	248.64	228.49	176.60	31.86	251.91	26.91	56.00	228.38
38433	83.34	7.25	1.75	51.19	35.37	215.03	18.66	243.37	231.83	165.57	31.66	245.40	24.54	55.27	231.60
38434	84.43	7.26	1.75	51.66	37.85	225.29	21.10	236.77	234.90	156.87	32.12	238.11	23.52	56.15	234.53
38435	85.52	7.26	1.75	52.51	40.58	236.47	24.06	228.97	237.71	150.14	33.26	230.39	23.87	59.17	237.17
38436	86.60	7.26	1.75	53.64	43.53	248.25	27.47	220.15	240.28	144.99	35.02	222.82	25.48	64.63	239.56
38437	87.69	7.26	1.75	54.99	46.68	260.40	31.27	210.54	242.66	140.97	37.37	216.37	28.14	72.63	241.77
38438	88.78	7.26	1.75	56.47	50.01	272.86	35.41	200.47	244.94	137.56	40.23	212.64	31.64	83.06	243.90
38439	89.87	7.26	1.75	58.01	53.46	285.77	39.86	190.32	247.23	134.10	43.48	214.09	35.85	95.69	246.06
38440	90.95	7.26	1.75	59.47	56.99	299.63	44.52	180.57	249.67	129.61	46.98	224.12	40.67	110.18	248.43
38441	92.04	7.26	1.75	60.53	60.50	315.35	49.20	171.62	252.39	122.65	50.46	246.69	45.99	125.76	251.18
38442	93.13	7.26	1.75	60.50	63.82	334.39	53.42	163.41	255.42	111.01	53.44	285.36	51.57	140.58	254.36
38443	94.22	7.27	1.75	58.14	66.67	356.14	56.56	153.94	258.11	91.91	54.67	338.13	57.03	149.35	257.46
38444	95.30	7.27	1.75	56.03	69.63	378.00	59.76	142.42	260.49	74.56	56.57	397.45	62.11	150.74	260.69
38445	79.04	3.95	0.25	46.60	22.05	174.63	6.55	286.09	247.56	194.20	22.41	254.36	21.74	60.94	247.73
38446	80.21	3.95	0.25	43.06	22.98	179.62	7.41	284.36	251.70	172.76	21.45	252.92	19.31	61.24	251.86
38447	81.39	3.95	0.25	40.38	24.37	188.44	9.56	280.73	255.52	155.70	21.23	249.93	18.02	60.37	255.65
38448	82.57	3.95	0.25	38.50	26.15	200.35	12.54	275.19	258.97	142.57	21.80	245.56	18.07	58.48	259.05
38449	83.74	3.95	0.25	37.41	28.27	214.51	16.01	267.77	261.98	132.97	23.10	239.95	19.40	55.82	262.01
38450	84.92	3.95	0.25	37.05	30.70	230.11	19.83	258.48	264.53	126.51	25.07	233.26	21.79	52.82	264.50
38451	86.09	3.96	0.25	37.38	33.42	246.39	23.92	247.40	266.59	122.81	27.62	225.78	24.95	50.23	266.49
38452	87.27	3.96	0.25	38.35	36.40	262.71	28.30	234.65	268.14	121.50	30.69	218.00	28.70	49.21	267.97
38453	88.45	3.96	0.25	39.91	39.65	278.58	33.00	220.44	269.23	122.21	34.27	210.90	32.97	51.29	268.98
38454	89.62	3.96	0.25	42.05	43.17	293.63	38.09	205.15	269.91	124.54	38.39	206.27	37.75	57.78	269.59
38455	90.80	3.96	0.25	44.80	46.95	307.74	43.71	189.38	270.36	128.05	43.13	207.13	43.13	69.37	269.97
38456	91.97	3.96	0.25	48.32	50.99	321.22	49.99	174.09	270.86	132.11	48.60	218.07	49.24	86.26	270.44
38457	93.15	3.96	0.25	52.74	55.29	335.22	57.05	160.85	272.01	135.58	54.99	245.24	56.20	108.79	271.58
38458	94.33	3.96	0.25	57.71	59.77	352.58	64.79	151.90	274.91	135.64	62.46	296.31	63.97	137.51	274.52
38459	95.50	3.96	0.25	60.69	64.14	383.26	72.10	149.92	281.57	124.22	71.44	387.90	71.64	171.52	281.28
38460	96.68	3.96	0.25	63.41	66.33	425.11	70.07	136.59	288.29	63.40	71.46	502.67	71.43	166.28	288.28
38461	79.03	5.05	0.25	46.99	22.91	185.30	8.56	283.77	243.38	190.61	23.49	262.18	27.16	61.17	243.63
38462	80.19	5.05	0.25	44.06	23.88	189.72	8.98	282.15	247.35	170.39	22.57	260.65	23.88	61.41	247.57
38463	81.35	5.06	0.25	41.98	25.33	197.67	10.57	278.70	251.01	154.33	22.38	257.61	21.66	60.63	251.19
38464	82.51	5.06	0.25	40.69	27.17	208.52	13.07	273.41	254.32	142.01	22.95	253.21	20.69	59.02	254.43
38465	83.67	5.06	0.25	40.15	29.36	221.57	16.20	266.30	257.24	133.02	24.25	247.60	21.03	56.84	257.27
38466	84.82	5.06	0.25	40.28	31.87	236.06	19.77	257.43	259.73	127.02	26.20	240.92	22.59	54.58	259.66
38467	85.98	5.06	0.25	41.04	34.66	251.31	23.70	246.86	261.78	123.62	28.73	233.44	25.12	52.98	261.60
38468	87.14	5.07	0.25	42.36	37.72	266.72	27.95	234.74	263.38	122.50	31.79	225.64	28.42	53.09	263.09
38469	88.30	5.07	0.25	44.19	41.06	281.81	32.57	221.29	264.58	123.27	35.37	218.43	32.36	56.14	264.17
38470	89.46	5.07	0.25	46.52	44.67	296.25	37.61	206.89	265.45	125.58	39.49	213.48	36.91	63.17	264.93
38471	90.62	5.07	0.25	49.40	48.56	309.97	43.19	192.14	266.16	129.00	44.22	213.60	42.11	74.75	265.54
38472	91.78	5.07	0.25	52.96	52.74	323.31	49.40	177.97	267.01	132.91	49.66	223.15	48.07	91.18	266.33
38473	92.94	5.08	0.25	57.32	57.20	337.45	56.33	165.83	268.59	136.22	55.97	248.09	54.85	112.91	267.91
38474	94.10	5.08	0.25	62.08	61.83	355.28	63.80	157.75	271.99	136.18	63.21	296.16	62.38	140.47	271.37
38475	95.26	5.08	0.25	64.75	66.21	386.52	70.58	155.98	279.10	125.05	71.52	383.30	69.79	172.72	278.63
38476	96.41	5.08	0.25	68.33	71.55	427.99	78.06	142.83	285.35	67.71	69.97	491.95	70.19	167.93	285.36
38477	79.02	6.15	0.25	47.67	24.11	197.75	10.76	280.92	238.21	186.28	24.93	271.68	32.06	61.34	238.54
38478	80.16	6.15	0.25	45.45	25.12	201.56	10.87	279.44	241.98	167.57	24.08	270.01	28.04	61.52	242.27
38479	81.29	6.16	0.25	44.04	26.62	208.55	11.95	276.20	245.47	152.73	23.93	266.89	25.03	60.87	245.69
38480	82.43	6.16	0.25	43.37	28.53	218.25	13.95	271.22	248.64	141.37	24.52	262.45	23.20	59.60	248.77
38481	83.57	6.16	0.25	43.38	30.79	230.03	16.67	264.52	251.45	133.13	25.80	256.82	22.66	58.02	251.47
38482	84.71	6.16	0.25	44.00	33.38	243.26	19.93	256.16	253.90	127.67	27.73	250.13	23.39	56.62	253.77
38483	85.85	6.16	0.25	45.16	36.26	257.31	23.63	246.22	255.95	124.64	30.25	242.65	25.25	56.10	255.67
38484	86.98	6.17	0.25	46.81	39.42	271.65	27.72	234.86	257.63	123.72	33.30	234.83	28.03	57.37	257.19
38485	88.12	6.17	0.25	48.89	42.86	285.83	32.22	222.33	258.98	124.57	36.87	227.51	31.59	61.40	258.37
38486	89.26	6.17	0.25	51.40	46.59	299.58	37.17	208.99	260.09	126.84	41.00	222.21	35.86	68.97	259.32
38487	90.40	6.17	0.25	54.41	50.61	312.86	42.66	195.43	261.						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
38515	86.25	3.96	-1.25	32.11	28.99	275.35	25.18	267.29	279.59	84.06	30.40	246.97	26.43	62.84	279.54
38516	87.45	3.96	-1.25	33.44	32.11	293.99	29.71	253.04	280.34	87.69	33.47	239.60	30.52	58.52	280.21
38517	88.65	3.96	-1.25	35.49	35.56	311.86	34.52	236.87	280.41	93.69	36.92	232.15	35.00	54.59	280.19
38518	89.85	3.96	-1.25	38.32	39.36	328.36	39.76	219.01	279.80	101.94	40.87	225.96	39.96	52.94	279.49
38519	91.05	3.96	-1.25	42.05	43.55	342.99	45.67	199.95	278.58	112.48	45.52	223.52	45.63	56.20	278.19
38520	92.25	3.96	-1.25	47.05	48.19	355.56	52.63	180.56	276.95	125.58	51.18	228.93	52.38	66.69	276.49
38521	93.45	3.96	-1.25	54.19	53.40	366.40	61.26	162.48	275.46	142.08	58.42	248.23	60.80	85.79	274.97
38522	94.65	3.96	-1.25	65.30	59.43	377.81	72.62	148.98	275.48	163.94	68.48	290.29	71.99	115.93	275.03
38523	95.85	3.96	-1.25	83.70	67.01	394.53	88.93	147.20	281.23	195.05	83.55	367.48	88.17	165.40	280.91
38524	97.05	3.96	-1.25	112.88	80.91	494.79	119.54	190.90	322.27	235.40	122.14	616.04	119.05	281.44	322.22
38525	79.04	5.05	-1.25	38.76	17.90	205.11	6.23	307.12	259.42	123.77	18.27	276.47	21.87	64.03	259.95
38526	80.23	5.05	-1.25	36.68	18.99	210.00	7.08	305.12	262.89	109.00	19.51	276.45	19.68	67.45	263.34
38527	81.41	5.06	-1.25	35.29	20.53	219.05	9.46	301.21	266.04	97.99	21.19	274.89	18.71	69.40	266.40
38528	82.59	5.06	-1.25	34.56	22.47	231.53	12.69	295.36	268.82	90.49	23.21	271.91	19.09	69.90	269.08
38529	83.78	5.06	-1.25	34.47	24.75	246.58	16.37	287.55	271.18	86.19	25.50	267.60	20.68	69.00	271.33
38530	84.96	5.06	-1.25	35.00	27.35	263.29	20.34	277.76	273.05	84.84	28.05	262.06	23.22	66.88	273.09
38531	86.14	5.06	-1.25	36.16	30.25	280.81	24.55	266.00	274.39	86.15	30.87	255.43	26.44	63.83	274.30
38532	87.33	5.07	-1.25	37.94	33.47	298.39	29.00	252.32	275.14	89.88	34.00	248.01	30.19	60.46	274.92
38533	88.51	5.07	-1.25	40.36	37.02	315.32	33.77	236.85	275.28	95.87	37.53	240.44	34.43	57.81	274.91
38534	89.69	5.07	-1.25	43.46	40.93	331.02	39.01	219.86	274.81	104.01	41.58	233.97	39.23	57.59	274.31
38535	90.87	5.07	-1.25	47.38	45.27	345.05	44.94	201.84	273.83	114.35	46.35	230.91	44.77	61.90	273.19
38536	92.06	5.07	-1.25	52.50	50.13	357.26	51.93	183.67	272.56	127.21	52.17	235.11	51.41	72.62	271.82
38537	93.24	5.08	-1.25	59.69	55.70	368.08	60.55	166.92	271.56	143.42	59.64	252.36	59.71	91.12	270.77
38538	94.42	5.08	-1.25	70.73	62.34	379.88	71.80	154.70	272.28	164.90	70.01	291.46	70.68	120.11	271.55
38539	95.61	5.08	-1.25	88.87	71.07	397.84	87.73	153.85	279.13	195.36	85.56	365.38	86.41	167.91	278.61
38540	96.79	5.08	-1.25	118.38	87.71	499.79	116.53	196.82	321.00	235.60	123.64	605.47	115.65	279.71	320.91
38541	79.03	6.15	-1.25	39.64	18.96	218.62	7.94	303.64	253.92	121.96	18.99	287.18	25.95	64.38	254.62
38542	80.19	6.15	-1.25	38.22	20.09	222.90	8.36	301.76	257.19	108.41	20.15	286.97	23.16	67.46	257.79
38543	81.36	6.16	-1.25	37.49	21.71	230.96	10.14	298.04	260.16	98.41	21.78	285.26	21.49	69.23	260.64
38544	82.52	6.16	-1.25	37.41	23.74	242.21	12.87	292.45	262.78	91.71	23.78	282.18	21.07	69.71	263.13
38545	83.68	6.16	-1.25	37.92	26.12	255.89	16.19	284.99	265.00	88.04	26.09	277.81	21.87	69.01	265.20
38546	84.84	6.16	-1.25	39.02	28.83	271.21	19.91	275.64	266.78	87.12	28.68	272.21	23.73	67.33	266.81
38547	86.01	6.16	-1.25	40.67	31.85	287.40	23.94	264.44	268.07	88.70	31.57	265.52	26.43	65.03	267.92
38548	87.17	6.17	-1.25	42.87	35.19	303.72	28.27	251.45	268.84	92.55	34.79	258.03	29.78	62.74	268.49
38549	88.33	6.17	-1.25	45.63	38.87	319.54	32.99	236.84	269.08	98.51	38.42	250.32	33.73	61.47	268.53
38550	89.50	6.17	-1.25	48.99	42.95	334.32	38.21	220.89	268.81	106.51	42.61	243.54	38.32	62.68	268.05
38551	90.66	6.17	-1.25	53.12	47.49	347.65	44.15	204.10	268.13	116.61	47.55	239.79	43.70	68.02	267.19
38552	91.82	6.18	-1.25	58.40	52.63	359.47	51.16	187.33	267.30	129.17	53.60	242.64	50.21	78.99	266.22
38553	92.98	6.18	-1.25	65.69	58.63	370.30	59.76	172.09	266.90	145.02	61.37	257.59	58.36	96.97	265.77
38554	94.15	6.18	-1.25	76.71	66.03	382.61	70.85	161.33	268.46	166.02	72.13	293.27	69.04	124.78	267.42
38555	95.31	6.18	-1.25	94.62	76.07	402.12	86.31	161.54	276.63	195.64	88.25	363.26	84.22	170.73	275.90
38556	96.47	6.18	-1.25	124.54	95.56	506.16	112.91	203.81	319.69	235.73	125.79	593.13	111.47	277.55	319.55
38557	79.25	7.25	-1.25	41.02	20.39	233.76	9.90	299.48	247.35	120.03	20.15	299.59	29.55	64.59	248.21
38558	80.16	7.25	-1.25	40.31	21.55	237.40	10.00	297.77	250.42	107.91	21.19	299.12	26.25	67.32	251.16
38559	81.29	7.25	-1.25	40.26	23.23	244.42	11.22	294.28	253.20	99.07	22.73	297.23	24.00	68.90	253.79
38560	82.43	7.25	-1.25	40.78	25.35	254.34	13.41	289.02	255.66	93.29	24.69	294.00	22.92	69.41	256.08
38561	83.57	7.25	-1.25	41.86	27.83	266.54	16.30	281.98	257.75	90.30	27.00	289.50	23.02	68.98	257.97
38562	84.71	7.26	-1.25	43.44	30.66	280.33	19.69	273.16	259.45	89.85	29.63	283.81	24.22	67.84	259.45
38563	85.85	7.26	-1.25	45.52	33.81	295.01	23.50	262.63	260.72	91.71	32.58	277.04	26.36	66.40	260.48
38564	86.98	7.26	-1.25	48.08	37.29	309.94	27.68	250.46	261.55	95.66	35.91	269.45	29.29	65.28	261.04
38565	88.12	7.26	-1.25	51.13	41.14	324.52	32.30	236.85	261.93	101.57	39.68	261.59	32.91	65.41	261.15
38566	89.26	7.26	-1.25	54.74	45.42	338.26	37.48	222.09	261.91	109.39	44.05	254.48	37.24	67.97	260.87
38567	90.40	7.26	-1.25	59.06	50.22	350.85	43.40	206.68	261.62	119.22	49.21	250.05	42.43	74.25	260.33
38568	91.54	7.26	-1.25	64.51	55.70	362.26	50.40	191.45	261.32	131.42	55.54	251.51	48.76	85.48	259.86
38569	92.67	7.26	-1.25	71.93	62.21	373.15	58.98	177.85	261.64	146.84	63.70	264.02	56.74	103.01	260.12
38570	93.81	7.26	-1.25	82.99	70.46	386.12	69.89	168.65	264.17	167.25	74.95	295.99	67.12	129.72	262.80
38571	94.95	7.26	-1.25	100.72	81.92	407.56	84.68	170.06	273.77	195.90	91.64	361.57	81.55	173.73	272.82
38572	96.09	7.27	-1.25	130.88	104.27	513.86	108.82	211.51	318.51	235.53	128.73	579.52	106.60	274.85	318.31
38573	60.59	3.96	1.75	406.86	187.06	377.95	155.11	205.27	347.63	1533.96	376.63	1231.72	501.55	192.18	347.94
38574	61.75	3.96	1.75	379.64	110.73	321.44	89.26	186.58	208.29	1614.04	218.75	1131.35	292.90	283.51	234.40
38575	62.90	3.96	1.75	327.21	111.74	291.81	48.06	173.29	175.71	1544.43	232.41	786.35	139.85	272.97	211.47
38576	64.05	3.96	1.75	283.36	101.95	271.82	24.43	164.80	166.23	1428.34	193.01	474.74	65.92	195.73	192.36
38577	65.20	3.96	1.75	245.21	86.43	259.41	13.50	165.43	166.56	1282.30	132.48	279.23	41.42	121.62	180.87
38578	66.35	3.96	1.75	211.57	71.23	249.55	11.95	172.90	170.66	1127.52	81.30	178.57	42.20	69.69	177.22
38579	67.51	3.96	1.75	182.21	59.00	239.89	13.27	184.09	176.05	979.01	51.45	150.19	49.36	44.21	178.69
38580	68.66	3.96	1.75	157.11	49.75	229.57	14.37	196.76	181.80	844.91	42.10	160.09	54.76	43.45	182.71
38581	69.81	3.96	1.75	135.96	42.77	218.46	14.79	209.51	187.60	727.93	42.89	179.55	56.61	51.78	187.81
38582	70.96	3.96	1.75	118.28	37.42	206.76	14.59	221.53	193.35	627.67	45.03	197.90	55.40	59.51	193.30
38583	72.11	3.96	1.75	103.50	33.30	194.89	13.96	232.33	199.02	542.46	45.89	212.74	52.13	64.84	198.91
38584	73.27	3.95	1.75	91.12	30.15	183.44	13.00	241.64	204.63	470.26	45.29	223.94	47.71	67.94	204.53
38585	74.42	3.95	1.75	80.73	27.83	173.									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
38613	70.10	6.17	1.75	124.21	41.27	231.08	23.89	208.56	183.85	662.28	51.27	204.34	101.41	59.68	184.02
38614	71.22	6.17	1.75	108.02	37.14	220.85	22.37	219.75	188.79	570.47	51.00	220.11	92.40	65.83	188.62
38615	72.33	6.16	1.75	94.91	33.83	210.65	20.75	229.83	193.73	494.12	49.69	232.84	82.77	69.29	193.49
38616	73.44	6.16	1.75	84.21	31.21	200.94	19.13	238.54	198.67	430.33	47.68	242.48	73.27	70.76	198.46
38617	74.55	6.16	1.75	75.45	29.23	192.26	17.54	245.74	203.60	376.78	45.22	249.32	64.30	70.82	203.45
38618	75.67	6.16	1.75	68.27	27.87	185.16	16.02	251.34	208.49	331.71	42.52	253.69	56.05	69.85	208.42
38619	76.78	6.15	1.75	62.44	27.12	180.18	14.65	255.30	213.30	293.72	39.74	255.88	48.60	68.12	213.30
38620	77.89	6.15	1.75	57.76	26.98	177.78	13.54	257.60	218.00	261.74	37.03	256.15	41.96	65.81	218.04
38621	61.60	7.27	1.75	331.18	146.38	355.46	52.96	199.39	242.89	1408.30	338.51	924.29	103.89	198.01	252.14
38622	62.68	7.27	1.75	345.97	182.63	330.80	27.50	199.64	163.36	1597.26	430.99	894.89	26.05	234.89	203.29
38623	63.77	7.26	1.75	316.01	132.24	308.09	22.80	181.34	157.47	1541.78	230.62	605.36	73.71	209.69	212.42
38624	64.86	7.26	1.75	269.97	92.02	289.47	31.50	169.75	161.28	1367.26	100.78	365.23	130.17	134.57	191.03
38625	65.95	7.26	1.75	224.16	71.18	276.76	35.58	168.82	165.49	1166.32	58.75	236.17	156.20	70.11	178.99
38626	67.03	7.26	1.75	186.07	59.49	266.82	35.66	175.30	169.37	985.12	53.11	190.30	159.12	43.48	175.46
38627	68.12	7.26	1.75	156.18	51.80	257.71	33.90	185.36	173.27	834.33	53.76	189.25	150.58	48.88	175.92
38628	69.21	7.26	1.75	132.97	46.11	248.61	31.52	196.69	177.34	711.38	54.08	203.32	137.48	59.24	178.30
38629	70.30	7.26	1.75	114.81	41.61	239.29	29.04	208.03	181.56	611.11	53.47	219.54	123.09	66.43	181.72
38630	71.38	7.26	1.75	100.45	37.91	229.84	26.69	218.69	185.91	528.74	52.17	233.92	108.97	70.47	185.72
38631	72.47	7.26	1.75	88.96	34.86	220.53	24.51	228.30	190.34	460.46	50.34	245.50	95.78	72.24	190.05
38632	73.56	7.25	1.75	79.69	32.41	211.74	22.51	236.61	194.83	403.40	48.14	254.28	83.76	72.45	194.56
38633	74.64	7.25	1.75	72.20	30.53	203.93	20.69	243.50	199.35	355.42	45.71	260.50	72.95	71.60	199.16
38634	75.73	7.25	1.75	66.16	29.24	197.56	19.04	248.88	203.86	314.93	43.15	264.41	63.32	70.02	203.76
38635	76.82	7.25	1.75	61.35	28.55	193.07	17.59	252.72	208.32	280.70	40.59	266.28	54.79	67.93	208.30
38636	77.91	7.25	1.75	57.63	28.45	190.82	16.41	255.00	212.71	251.80	38.15	266.34	47.28	65.50	212.74
38637	60.22	3.96	0.25	180.10	191.55	334.01	135.06	145.00	303.29	735.11	279.52	858.88	497.74	339.88	358.09
38638	61.40	3.96	0.25	200.99	90.03	341.47	82.42	170.19	236.40	885.21	79.15	983.03	299.65	144.19	236.12
38639	62.57	3.96	0.25	193.92	96.41	328.51	43.02	185.25	205.77	922.18	115.77	826.15	169.94	166.73	212.93
38640	63.75	3.96	0.25	189.61	92.86	314.99	21.59	192.29	191.96	942.11	124.50	599.99	93.08	220.75	203.28
38641	64.93	3.96	0.25	180.72	80.92	302.60	12.87	196.90	188.89	918.66	99.56	401.95	57.19	213.05	197.26
38642	66.10	3.96	0.25	166.77	67.38	290.99	12.45	203.41	191.28	856.72	68.85	266.29	47.23	175.58	195.20
38643	67.28	3.96	0.25	150.16	55.74	278.98	13.89	212.67	195.95	773.51	47.55	194.36	47.56	132.05	197.13
38644	68.45	3.96	0.25	133.20	46.60	265.99	14.96	223.81	201.42	684.08	37.97	174.59	49.58	93.43	201.47
38645	69.63	3.96	0.25	117.30	39.56	252.01	15.35	235.61	207.06	597.65	35.43	183.04	50.18	64.00	206.81
38646	70.81	3.96	0.25	103.06	34.12	237.37	15.13	247.09	212.65	518.65	34.86	199.76	48.83	45.79	212.42
38647	71.98	3.95	0.25	90.63	29.91	222.61	14.41	257.60	218.12	448.63	34.06	216.17	45.91	39.51	218.00
38648	73.16	3.95	0.25	79.91	26.68	208.41	13.29	266.72	223.44	387.64	32.59	229.71	42.02	41.72	223.43
38649	74.33	3.95	0.25	70.76	24.31	195.57	11.85	274.21	228.61	335.13	30.59	240.00	37.66	46.98	228.68
38650	75.51	3.95	0.25	63.00	22.72	184.98	10.21	279.96	233.62	290.30	28.32	247.23	33.20	52.24	233.76
38651	76.69	3.95	0.25	56.47	21.84	177.52	8.53	283.87	238.47	252.36	26.05	251.81	28.92	56.46	238.64
38652	77.86	3.95	0.25	51.04	21.64	173.93	7.11	285.93	243.13	220.55	24.00	254.08	25.03	59.36	243.31
38653	60.49	5.08	0.25	26.06	117.41	315.63	38.26	95.83	245.89	69.31	97.68	676.65	147.41	331.61	289.33
38654	61.64	5.08	0.25	106.79	133.53	346.96	73.01	151.99	236.48	581.80	183.91	930.55	274.18	156.40	239.43
38655	62.80	5.08	0.25	160.79	121.38	332.62	39.63	182.27	200.23	813.14	186.34	782.92	164.13	148.29	214.40
38656	63.96	5.08	0.25	179.53	103.08	319.07	19.74	192.95	186.76	907.04	146.80	569.11	90.46	209.60	205.39
38657	65.12	5.07	0.25	177.38	82.42	306.57	15.95	197.68	185.53	903.63	94.82	382.52	66.68	202.59	196.98
38658	66.28	5.07	0.25	164.25	65.90	294.99	16.94	203.52	189.02	842.29	59.41	258.80	65.30	163.92	193.54
38659	67.44	5.07	0.25	147.07	53.94	283.24	17.99	212.18	194.02	755.84	43.52	198.34	68.51	120.32	195.05
38660	68.60	5.07	0.25	129.64	45.32	270.76	18.42	222.85	199.39	664.41	39.34	185.47	69.93	83.12	199.18
38661	69.76	5.07	0.25	113.65	38.91	257.49	18.23	234.28	204.78	577.96	38.56	195.57	68.41	56.31	204.31
38662	70.92	5.06	0.25	99.63	34.00	243.71	17.56	245.46	210.08	500.37	37.78	211.69	64.57	41.69	209.70
38663	72.08	5.06	0.25	87.60	30.17	229.91	16.52	255.71	215.25	432.53	36.33	227.03	59.32	38.82	215.05
38664	73.23	5.06	0.25	77.40	27.20	216.70	15.21	264.63	220.31	374.02	34.29	239.62	53.42	42.68	220.27
38665	74.39	5.06	0.25	68.80	24.98	204.82	13.71	271.98	225.24	323.97	31.92	249.16	47.39	48.24	225.33
38666	75.55	5.06	0.25	61.62	23.47	195.05	12.10	277.62	230.03	281.44	29.45	255.86	41.57	53.29	230.22
38667	76.71	5.05	0.25	55.68	22.65	188.16	10.51	281.49	234.67	245.53	27.10	260.05	36.16	57.17	234.91
38668	77.87	5.05	0.25	50.84	22.47	184.78	9.20	283.55	239.14	215.48	25.05	262.06	31.30	59.79	239.40
38669	60.81	6.19	0.25	34.35	100.64	322.92	32.61	100.83	232.11	32.36	106.01	610.57	107.07	314.18	259.37
38670	61.95	6.18	0.25	91.36	155.87	348.73	23.36	150.92	219.39	544.50	249.64	853.89	108.77	156.01	232.20
38671	63.09	6.18	0.25	161.18	138.23	337.77	16.63	186.48	188.96	823.84	228.47	726.24	80.91	144.63	221.76
38672	64.23	6.18	0.25	182.59	103.93	324.20	17.77	195.82	181.74	917.72	136.31	526.96	74.72	200.55	207.39
38673	65.36	6.18	0.25	177.08	78.63	311.45	20.87	198.47	183.46	896.34	75.83	356.74	84.51	186.05	195.15
38674	66.50	6.17	0.25	160.66	62.38	299.87	22.72	203.14	187.66	820.13	50.79	250.25	93.30	144.67	191.23
38675	67.64	6.17	0.25	141.74	51.74	288.45	23.27	211.20	192.43	726.43	44.69	204.38	96.26	102.54	192.77
38676	68.78	6.17	0.25	123.86	44.30	276.57	22.88	221.49	197.30	633.64	43.48	198.86	93.94	69.09	196.68
38677	69.92	6.17	0.25	108.15	38.73	264.13	21.92	232.59	202.17	549.15	42.39	210.41	88.21	47.33	201.44
38678	71.05	6.16	0.25	94.79	34.37	251.33	20.64	243.44	206.99	475.03	40.67	225.76	80.67	38.35	206.44
38679	72.19	6.16	0.25	83.56	30.88	238.61	19.17	253.40	211.76	411.11	38.44	239.93	72.46	39.40	211.45
38680	73.33	6.16	0.25	74.19	28.11	226.51	17.59	262.08	216.46	356.42	35.93	251.47	64.26	44.50	216.37
38681	74.47	6.16	0.25	66.42	26.02	215.69	15.95	269.24	221.08	309.87	33.31	260.19	56.45	49.97	221.16
38682	75.61	6.16	0.25	60.04	24.58	206.83	14.31	274.75	225.59	270.40	30.75	266.28	49.24	54.55	225.80

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
38711	71.85	3.95	-1.25	71.90	24.60	252.86	15.58	283.25	237.12	315.52	22.14	220.51	37.40	55.13	237.29
38712	73.05	3.95	-1.25	63.85	21.40	235.54	14.20	292.12	242.11	271.81	20.19	234.43	34.22	43.15	242.42
38713	74.25	3.95	-1.25	56.82	19.06	219.92	12.40	299.33	246.88	232.83	18.59	246.21	30.61	41.23	247.27
38714	75.45	3.95	-1.25	50.81	17.51	207.00	10.24	304.77	251.44	198.81	17.46	255.27	26.87	45.71	251.86
38715	76.65	3.95	-1.25	45.76	16.71	197.79	7.89	308.38	255.80	169.69	16.94	261.66	23.25	52.23	256.22
38716	77.85	3.95	-1.25	41.60	16.61	193.14	5.71	310.10	259.96	145.28	17.08	265.67	19.99	58.51	260.34
38717	60.11	5.08	-1.25	26.23	118.52	325.93	53.97	97.14	243.72	589.54	93.14	867.68	105.57	589.54	318.15
38718	61.29	5.08	-1.25	46.44	122.03	333.44	49.59	117.42	222.14	520.38	96.82	624.53	148.04	314.45	229.19
38719	62.48	5.08	-1.25	79.34	108.93	353.77	29.88	161.55	208.21	506.95	99.28	635.27	121.13	117.69	214.99
38720	63.66	5.08	-1.25	102.35	91.22	355.77	18.91	192.65	202.08	529.41	87.28	555.02	83.72	141.15	210.80
38721	64.84	5.07	-1.25	112.73	73.58	349.54	16.89	211.17	202.91	543.47	65.43	437.20	64.22	188.18	208.23
38722	66.03	5.07	-1.25	112.93	59.14	338.95	17.27	224.11	207.10	531.88	47.46	328.79	58.09	187.87	208.63
38723	67.21	5.07	-1.25	106.90	48.22	325.76	17.82	235.80	212.48	498.45	36.90	254.05	56.99	161.80	212.20
38724	68.39	5.07	-1.25	97.93	40.02	310.73	18.08	247.58	218.07	452.57	31.45	217.84	56.36	127.74	217.44
38725	69.58	5.07	-1.25	88.07	33.76	294.42	17.91	259.33	223.54	402.13	28.21	211.20	54.58	95.08	223.15
38726	70.76	5.06	-1.25	78.49	28.87	277.42	17.30	270.52	228.78	352.18	25.66	219.73	51.47	68.15	228.74
38727	71.94	5.06	-1.25	69.72	25.01	260.44	16.27	280.66	233.78	305.42	23.34	232.98	47.39	49.41	234.04
38728	73.13	5.06	-1.25	62.00	22.00	244.24	14.85	289.39	238.56	263.12	21.22	245.99	42.78	40.71	239.02
38729	74.31	5.06	-1.25	55.37	19.75	229.70	13.09	296.52	243.13	225.73	19.45	256.90	37.99	41.26	243.71
38730	75.49	5.06	-1.25	49.81	18.24	217.72	11.09	301.90	247.51	193.30	18.17	265.25	33.30	46.67	248.13
38731	76.68	5.05	-1.25	45.25	17.46	209.19	9.00	305.49	251.70	165.66	17.53	271.13	28.92	53.23	252.32
38732	77.86	5.05	-1.25	41.59	17.36	204.84	7.13	307.24	255.68	142.57	17.57	274.77	25.04	59.22	256.26
38733	60.43	6.18	-1.25	29.21	118.13	332.79	49.98	101.30	233.77	558.66	125.87	784.49	93.32	565.58	294.67
38734	61.59	6.18	-1.25	42.97	142.93	337.37	29.15	118.80	206.69	492.81	123.79	568.45	83.71	310.85	234.54
38735	62.75	6.18	-1.25	81.93	121.21	359.30	21.34	167.44	197.40	507.55	125.43	596.81	77.96	114.87	224.59
38736	63.92	6.18	-1.25	106.90	92.82	360.44	20.12	196.69	196.25	539.49	87.99	522.25	72.21	139.95	213.08
38737	65.08	6.18	-1.25	114.49	71.42	353.61	20.28	212.19	199.62	547.01	58.68	411.75	73.21	177.08	205.87
38738	66.24	6.17	-1.25	111.92	56.87	343.06	20.64	223.16	204.61	525.69	43.92	314.89	75.40	170.48	205.39
38739	67.40	6.17	-1.25	104.09	46.80	330.39	20.74	233.85	209.92	485.34	37.39	253.09	75.72	142.96	209.01
38740	68.57	6.17	-1.25	94.31	39.48	316.19	20.43	245.11	215.15	436.20	33.68	227.06	73.50	110.52	214.19
38741	69.73	6.17	-1.25	84.34	33.88	300.92	19.75	256.54	220.19	385.27	30.64	225.38	69.21	80.96	219.68
38742	70.89	6.16	-1.25	75.04	29.43	285.13	18.75	267.49	225.03	336.48	27.78	234.99	63.63	57.84	225.00
38743	72.06	6.16	-1.25	66.78	25.84	269.42	17.47	277.43	229.69	291.72	25.11	247.68	57.45	43.45	230.03
38744	73.22	6.16	-1.25	59.65	22.98	254.53	15.95	286.02	234.17	251.74	22.71	259.68	51.15	38.98	234.76
38745	74.38	6.16	-1.25	53.65	20.80	241.21	14.21	293.02	238.49	216.67	20.73	269.64	45.05	41.99	239.23
38746	75.54	6.16	-1.25	48.74	19.30	230.29	12.32	298.34	242.64	186.40	19.30	277.23	39.36	48.05	243.44
38747	76.71	6.15	-1.25	44.82	18.51	222.51	10.43	301.90	246.61	160.70	18.51	282.54	34.20	54.41	247.42
38748	77.87	6.15	-1.25	41.81	18.41	218.49	8.81	303.68	250.38	139.31	18.42	285.77	29.69	59.99	251.16
38749	60.81	7.27	-1.25	92.02	158.39	340.43	83.83	124.86	219.12	694.11	157.92	636.93	84.41	446.01	262.58
38750	61.95	7.26	-1.25	98.84	144.86	357.66	50.69	154.93	184.30	624.60	141.73	566.37	56.43	237.17	273.01
38751	63.09	7.26	-1.25	111.96	111.62	369.59	31.33	185.97	189.11	587.88	105.52	569.64	63.49	111.20	241.23
38752	64.23	7.26	-1.25	118.22	83.88	366.27	25.83	202.38	193.99	573.54	69.68	483.58	85.65	142.11	213.05
38753	65.36	7.26	-1.25	115.84	66.14	358.13	25.85	212.04	198.68	548.89	53.18	380.53	98.07	158.49	202.83
38754	66.50	7.26	-1.25	108.31	54.45	347.62	25.80	220.91	203.20	509.84	45.83	299.65	100.98	144.41	202.49
38755	67.64	7.26	-1.25	98.61	46.14	335.59	25.04	230.93	207.64	461.89	41.14	254.01	97.94	117.47	206.02
38756	68.78	7.26	-1.25	88.54	39.84	322.39	23.84	241.93	212.03	411.15	37.15	238.82	91.56	89.08	210.75
38757	69.92	7.26	-1.25	79.04	34.81	308.34	22.42	253.16	216.37	361.74	33.48	241.76	83.54	64.74	215.70
38758	71.05	7.26	-1.25	70.53	30.67	293.90	20.88	263.90	220.65	315.88	30.13	252.21	75.00	47.34	220.54
38759	72.19	7.26	-1.25	63.16	27.24	279.63	19.26	273.63	224.85	274.49	27.13	264.23	66.56	38.83	225.18
38760	73.33	7.25	-1.25	56.94	24.45	266.16	17.56	282.03	228.95	237.84	24.55	275.21	58.59	38.84	229.59
38761	74.47	7.25	-1.25	51.83	22.28	254.18	15.78	288.89	232.94	205.85	22.43	284.20	51.26	43.65	233.77
38762	75.61	7.25	-1.25	47.77	20.77	244.39	13.97	294.11	236.80	178.33	20.88	291.01	44.66	49.82	237.73
38763	76.74	7.25	-1.25	44.66	19.95	237.41	12.23	297.64	240.51	155.01	19.96	295.71	38.82	55.71	241.47
38764	77.88	7.25	-1.25	42.45	19.83	233.77	10.76	299.43	244.04	135.65	19.72	298.51	33.77	60.70	244.97
38765	94.95	8.10	1.75	60.59	70.38	380.29	57.51	149.79	255.08	79.47	55.63	386.48	60.12	154.26	255.29
38766	94.66	8.70	1.75	64.06	70.96	382.24	55.95	155.75	251.27	83.45	55.18	378.44	58.70	157.19	251.47
38767	93.88	8.10	1.75	62.39	67.71	359.32	54.76	160.50	253.77	95.04	54.45	332.59	55.19	151.76	253.01
38768	93.61	8.70	1.75	65.29	68.31	361.94	53.58	165.33	250.52	97.20	54.25	328.72	53.89	153.36	249.67
38769	92.82	8.10	1.75	64.36	65.06	338.03	52.13	169.37	251.32	112.46	53.85	284.89	49.68	142.98	250.07
38770	92.57	8.70	1.75	67.03	65.86	341.05	51.16	173.78	248.05	113.44	54.09	284.97	48.13	144.62	246.67
38771	91.75	8.10	1.75	64.33	61.92	319.01	48.27	177.00	248.20	123.47	51.43	250.09	44.05	128.78	246.76
38772	91.52	8.70	1.75	67.04	62.88	322.03	47.51	181.04	244.93	124.20	52.08	253.16	42.42	130.76	243.34
38773	90.69	8.10	1.75	63.29	58.55	303.25	43.92	185.15	245.27	130.23	48.37	230.14	38.82	113.77	243.79
38774	90.47	8.70	1.75	66.00	59.68	306.27	43.49	188.58	241.86	130.74	49.39	235.17	37.33	116.19	240.21
38775	89.63	8.10	1.75	61.82	55.09	289.50	39.56	193.98	242.58	134.63	45.16	221.68	34.18	99.73	241.17
38776	89.43	8.70	1.75	64.53	56.30	292.59	39.39	196.74	238.99	135.01	46.43	227.85	32.82	102.48	237.40
38777	88.56	8.10	1.75	60.23	51.66	276.87	35.40	203.18	240.05	138.03	42.12	221.03	30.21	87.35	238.77
38778	88.38	8.70	1.75	62.93	52.92	280.16	35.47	205.24	236.30	138.41	43.59	227.75	29.05	90.29	234.86
38779	87.50	8.10	1.75	58.64	48.33	264.89	31.52	212.34	237.56	141.35	39.41	225.08	27.01	76.95	236.47
38780	87.34	8.70	1.75	61.26	49.59	268.52	31.82	213.72	233.66	141.62	40.99	232.00	26.09	79.92	232.42
38781	86.43	8.10	1.75	57.15											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
38809	88.81	8.10	0.25	60.63	51.11	307.48	36.84	213.48	248.75	129.57	44.92	241.28	33.49	79.53	247.45
38810	88.63	8.70	0.25	63.60	52.84	310.53	36.93	215.09	244.78	130.56	46.52	248.25	32.59	82.73	243.30
38811	87.72	8.10	0.25	57.84	47.14	295.12	32.20	224.61	247.06	127.42	40.79	247.14	29.84	71.07	246.00
38812	87.56	8.70	0.25	60.72	48.78	298.60	32.44	225.46	242.88	128.43	42.38	254.24	29.16	74.02	241.66
38813	86.63	8.10	0.25	55.39	43.49	282.75	28.05	235.21	245.31	126.43	37.22	254.62	27.05	65.44	244.51
38814	86.49	8.70	0.25	58.17	45.06	286.82	28.44	235.38	240.97	127.41	38.82	261.74	26.62	67.94	240.04
38815	85.54	8.10	0.25	53.27	40.14	270.55	24.38	244.92	243.40	126.94	34.19	262.47	25.24	62.17	242.85
38816	85.42	8.70	0.25	55.94	41.65	275.33	24.95	244.50	238.96	127.79	35.80	269.55	25.13	64.09	238.31
38817	84.45	8.10	0.25	51.52	37.09	258.87	21.22	253.47	241.25	129.23	31.72	269.94	24.57	60.69	240.95
38818	84.35	8.70	0.25	54.04	38.55	264.41	21.99	252.55	236.77	129.84	33.34	276.99	24.80	61.99	236.39
38819	83.36	8.10	0.25	50.16	34.36	248.11	18.63	260.70	238.85	133.58	29.82	276.65	25.14	60.37	238.76
38820	83.27	8.70	0.25	52.49	35.78	254.43	19.62	259.37	234.36	133.82	31.46	283.69	25.72	61.11	234.23
38821	82.27	8.10	0.25	49.26	31.97	238.73	16.70	266.49	236.18	140.26	28.55	282.36	26.95	60.66	236.28
38822	82.20	8.70	0.25	51.35	33.36	245.81	17.91	264.83	231.74	139.98	30.19	289.41	27.84	60.95	231.80
38823	81.18	8.10	0.25	48.87	29.96	231.21	15.49	270.78	233.26	149.57	27.93	286.94	29.93	61.12	233.50
38824	81.13	8.70	0.25	50.68	31.33	238.95	16.90	268.85	228.89	148.59	29.55	294.02	31.08	61.09	229.11
38825	80.09	8.10	0.25	49.07	28.39	225.94	15.06	273.51	230.10	161.79	27.97	290.27	33.97	61.40	230.43
38826	80.06	8.70	0.25	50.53	29.75	234.20	16.60	271.40	225.84	159.90	29.55	297.43	35.34	61.21	226.16
38827	79.00	8.10	0.25	49.93	27.33	223.24	15.33	274.65	226.73	177.21	28.63	292.26	38.99	61.27	227.11
38828	78.99	8.70	0.25	50.97	28.69	231.80	16.94	272.43	222.61	174.20	30.14	299.52	40.54	61.08	222.98
38829	95.75	8.10	-1.25	135.96	111.62	521.07	105.08	218.05	316.82	235.27	131.69	568.87	102.06	272.48	316.59
38830	95.47	8.70	-1.25	139.59	117.22	527.63	102.33	223.47	316.09	234.94	134.09	561.83	98.56	270.95	315.83
38831	94.63	8.10	-1.25	105.64	87.22	412.71	83.48	177.25	271.55	196.11	95.17	360.95	79.31	176.17	270.42
38832	94.37	8.70	-1.25	109.12	91.12	416.76	82.70	182.54	269.98	196.22	97.86	360.57	77.57	177.68	268.71
38833	93.52	8.10	-1.25	88.01	74.48	389.45	69.28	174.74	260.62	168.32	77.82	298.90	65.50	133.61	258.98
38834	93.28	8.70	-1.25	91.61	77.58	392.22	68.78	179.25	257.91	169.07	79.99	301.46	64.09	136.29	256.08
38835	92.40	8.10	-1.25	76.90	65.51	375.89	58.45	182.68	257.20	148.40	66.04	269.97	55.29	107.70	255.37
38836	92.18	8.70	-1.25	80.44	68.08	378.12	58.00	186.36	253.85	149.53	67.89	274.79	54.02	110.85	251.80
38837	91.28	8.10	-1.25	69.38	58.57	364.90	49.90	194.96	256.25	133.37	57.55	259.36	47.48	90.48	254.46
38838	91.08	8.70	-1.25	72.85	60.88	367.06	49.58	197.63	252.41	134.82	59.21	265.55	46.42	93.92	250.39
38839	90.17	8.10	-1.25	63.80	52.77	353.81	42.95	208.91	256.06	121.48	50.94	258.95	41.32	79.10	254.47
38840	89.98	8.70	-1.25	67.20	54.81	356.17	42.69	210.64	251.83	123.17	52.39	265.86	40.40	82.44	250.01
38841	89.05	8.10	-1.25	59.33	47.72	341.84	37.07	223.17	256.00	111.88	45.55	263.89	36.32	72.16	254.69
38842	88.88	8.70	-1.25	62.66	49.55	344.64	36.88	224.02	251.50	113.80	46.82	271.14	35.57	75.08	249.99
38843	87.94	8.10	-1.25	55.55	43.24	328.95	31.96	236.91	255.78	104.22	41.00	271.23	32.20	68.62	254.79
38844	87.78	8.70	-1.25	58.74	44.91	332.37	31.86	236.98	251.08	106.24	42.13	278.62	31.63	70.89	249.93
38845	86.82	8.10	-1.25	52.30	39.24	315.40	27.44	249.66	255.25	98.36	37.09	279.21	28.85	67.44	254.58
38846	86.69	8.70	-1.25	55.36	40.78	319.58	27.42	249.06	250.43	100.43	38.11	286.67	28.48	68.98	249.63
38847	85.70	8.10	-1.25	49.50	35.62	301.63	23.40	261.11	254.35	94.34	33.67	286.87	26.27	67.62	254.00
38848	85.59	8.70	-1.25	52.41	37.06	306.67	23.51	259.95	249.47	96.37	34.62	294.37	26.15	68.49	249.03
38849	84.59	8.10	-1.25	47.14	32.36	288.17	19.81	271.05	253.08	92.28	30.65	293.72	24.55	68.33	253.02
38850	84.49	8.70	-1.25	49.88	33.71	294.12	20.10	269.43	248.17	94.17	31.55	301.25	24.73	68.66	248.07
38851	83.47	8.10	-1.25	45.22	29.43	275.63	16.71	279.39	251.42	92.35	27.99	299.50	23.82	68.97	251.64
38852	83.39	8.70	-1.25	47.76	30.72	282.48	17.22	277.38	246.54	93.98	28.88	307.09	24.31	68.91	246.74
38853	82.36	8.10	-1.25	43.77	26.86	264.61	14.19	286.06	249.41	94.78	25.69	304.10	24.20	69.13	249.86
38854	82.29	8.70	-1.25	46.07	28.10	272.33	14.96	283.75	244.60	96.01	26.60	311.77	24.99	68.84	245.05
38855	81.24	8.10	-1.25	42.80	24.69	255.74	12.41	291.03	247.08	99.80	23.78	307.46	25.71	68.55	247.73
38856	81.20	8.70	-1.25	44.82	25.89	264.19	13.46	288.49	242.35	100.48	24.74	315.23	26.76	68.19	243.02
38857	80.12	8.10	-1.25	42.36	22.97	249.52	11.54	294.30	244.45	107.66	22.33	309.53	28.32	67.08	245.26
38858	80.10	8.70	-1.25	44.05	24.15	258.54	12.81	291.59	239.82	107.61	23.35	317.42	29.56	66.78	240.67
38859	79.01	8.10	-1.25	42.51	21.79	246.36	11.63	295.87	241.55	118.56	21.40	310.21	31.92	64.63	242.49
38860	79.00	8.70	-1.25	43.83	22.97	255.71	12.98	293.05	237.06	117.60	22.52	318.27	33.33	64.54	238.03
38861	77.92	8.10	1.75	57.75	29.91	201.66	18.79	252.78	208.10	243.40	39.26	275.17	50.56	65.09	208.12
38862	77.93	8.70	1.75	58.00	31.13	209.72	20.54	251.10	204.59	237.10	40.21	281.99	52.32	64.64	204.59
38863	76.85	8.10	1.75	60.68	29.98	203.79	20.01	250.53	203.99	269.65	41.44	275.30	58.58	67.60	203.95
38864	76.88	8.70	1.75	60.35	31.19	211.77	21.79	248.87	200.68	261.34	42.16	282.28	60.58	67.21	200.64
38865	75.79	8.10	1.75	64.58	30.65	207.93	21.51	246.81	199.83	300.61	43.72	273.70	67.73	69.99	199.71
38866	75.84	8.70	1.75	63.58	31.84	215.65	23.31	245.24	196.75	289.81	44.21	280.91	70.02	69.80	196.63
38867	74.72	8.10	1.75	69.61	31.90	213.75	23.25	241.62	195.65	337.07	46.02	270.17	78.17	72.08	195.44
38868	74.79	8.70	1.75	67.82	33.07	221.11	25.09	240.22	192.82	323.17	46.28	277.69	80.81	72.28	192.62
38869	73.66	8.10	1.75	75.94	33.72	220.91	25.21	235.01	191.49	380.05	48.24	264.49	90.07	73.71	191.21
38870	73.74	8.70	1.75	73.23	34.88	227.82	27.12	233.84	188.94	362.26	48.25	272.43	93.19	74.50	188.68
38871	72.60	8.10	1.75	83.85	36.12	229.00	27.44	227.05	187.40	430.90	50.28	256.41	103.63	74.63	187.12
38872	72.70	8.70	1.75	80.04	37.25	235.43	29.46	226.17	185.14	408.19	50.04	264.90	107.46	76.27	184.91
38873	71.53	8.10	1.75	93.72	39.07	237.64	29.99	217.87	183.41	491.43	52.07	245.74	119.08	74.45	183.26
38874	71.65	8.70	1.75	88.56	40.20	243.63	32.18	217.32	181.49	462.42	51.59	254.93	123.97	77.32	181.43
38875	70.47	8.10	1.75	106.12	42.61	246.52	32.93	207.66	179.58	564.10	53.53	232.49	136.65	72.60	179.82
38876	70.61	8.70	1.75	99.26	43.73	252.12	35.41	207.47	178.05	526.95	52.83	242.54	143.18	77.20	178.42
38877	69.40	8.10	1.75	121.88	46.79	255.40	36.35	196.76	175.99	652.34	54.68	217.37	156.50	68.19	177.01
38878	69.56	8.70	1.75	112.80	47.93	260.74	39.30	196.92	174.90	604.44	53.77	228.28	165.70	75.26	176.09
38879	68.34	8.10	1.75	142.29	51.79	264.23	40.28	1							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
38907	70.27	8.10	0.25	93.43	40.81	278.55	29.72	228.91	196.65	474.10	46.61	241.51	119.35	38.12	195.40
38908	70.41	8.70	0.25	87.73	42.26	283.71	32.09	227.71	194.63	445.05	47.04	252.45	125.53	40.15	193.22
38909	69.18	8.10	0.25	106.29	45.38	289.35	32.60	218.27	193.29	545.10	49.45	228.67	135.50	43.10	191.88
38910	69.34	8.70	0.25	98.90	46.87	293.99	35.48	217.20	191.79	508.68	49.83	239.65	144.09	40.28	190.20
38911	68.09	8.10	0.25	122.02	50.88	299.95	35.73	208.09	190.34	627.38	52.38	223.27	152.31	59.23	189.16
38912	68.27	8.70	0.25	112.56	52.30	304.18	39.46	206.94	189.53	582.09	52.90	231.98	165.00	48.12	188.06
38913	67.00	8.10	0.25	141.18	57.76	310.52	38.84	199.74	188.00	721.13	55.42	240.13	168.17	86.21	188.00
38914	67.19	8.70	0.25	129.40	58.97	314.46	44.05	198.05	188.14	666.25	56.32	240.94	187.71	65.40	187.48
38915	65.91	8.10	0.25	164.25	66.68	321.75	41.26	195.25	186.49	824.59	59.28	301.04	179.73	120.73	190.21
38916	66.12	8.70	0.25	150.23	67.20	325.44	49.15	192.26	188.11	761.49	60.60	285.44	211.33	89.88	189.81
38917	64.82	8.10	0.25	191.55	79.56	334.99	40.94	196.83	185.80	933.62	67.42	421.76	178.18	152.56	200.29
38918	65.05	8.70	0.25	176.30	77.43	338.46	54.28	191.93	189.98	867.95	67.10	382.86	233.19	115.28	198.61
38919	63.73	8.10	0.25	223.07	102.43	351.83	33.78	204.57	185.54	1045.90	98.24	590.98	143.74	157.90	229.64
38920	63.98	8.70	0.25	212.78	92.21	355.86	57.44	199.34	194.07	999.66	80.11	532.67	246.21	128.84	222.43
38921	62.64	8.10	0.25	260.30	154.41	372.76	26.47	211.79	181.35	1181.12	226.84	742.79	51.56	141.44	285.39
38922	62.91	8.70	0.25	272.63	125.45	381.24	54.57	216.83	200.06	1212.80	136.67	692.75	238.98	142.19	287.56
38923	61.55	8.10	0.25	343.80	161.84	375.85	50.45	203.20	142.11	1492.45	278.50	731.25	123.58	247.74	214.92
38924	61.84	8.70	0.25	419.32	206.75	425.75	88.52	272.55	182.07	1784.43	446.22	806.83	360.25	277.33	306.67
38925	77.89	8.10	-1.25	43.32	21.24	246.47	12.50	295.74	238.42	132.70	21.09	309.41	36.44	61.15	239.43
38926	77.90	8.70	-1.25	44.18	22.44	255.87	13.85	292.87	234.06	130.60	22.29	317.67	37.99	61.34	235.09
38927	76.78	8.10	-1.25	44.87	21.39	249.83	13.89	293.93	235.09	150.28	21.45	306.97	41.82	56.70	236.11
38928	76.80	8.70	-1.25	45.26	22.60	259.00	15.22	291.05	230.86	146.83	22.72	315.51	43.53	57.33	231.89
38929	75.66	8.10	-1.25	47.25	22.24	256.17	15.55	290.45	231.61	171.50	22.45	302.74	48.07	51.38	232.57
38930	75.70	8.70	-1.25	47.10	23.49	264.88	16.84	287.61	227.55	166.42	23.77	311.64	49.97	52.22	228.49
38931	74.54	8.10	-1.25	50.53	23.78	265.07	17.34	285.32	228.01	196.57	24.05	296.55	55.22	45.54	228.83
38932	74.61	8.70	-1.25	49.77	25.06	273.14	18.62	282.57	224.15	189.56	25.38	305.91	57.38	47.14	224.90
38933	73.43	8.10	-1.25	54.79	25.98	275.98	19.17	278.60	224.31	225.71	26.19	288.31	63.31	40.14	224.89
38934	73.51	8.70	-1.25	53.34	27.29	283.28	20.48	275.96	220.68	216.42	27.51	298.22	65.84	41.81	221.15
38935	72.31	8.10	-1.25	60.09	28.78	288.30	21.04	270.38	220.55	259.13	28.82	278.15	72.37	37.44	220.77
38936	72.41	8.70	-1.25	57.86	30.14	294.76	22.45	267.88	217.18	247.19	30.10	288.66	75.44	37.99	217.25
38937	71.20	8.10	-1.25	66.48	32.19	301.40	22.95	260.82	216.77	297.00	31.90	266.72	82.35	40.91	216.50
38938	71.31	8.70	-1.25	63.38	33.60	306.99	24.56	258.48	213.71	282.00	33.14	277.71	86.22	38.33	213.26
38939	70.08	8.10	-1.25	73.98	36.24	314.71	24.96	250.24	213.01	339.29	35.45	255.92	93.10	52.52	212.14
38940	70.21	8.70	-1.25	69.90	37.71	319.47	26.86	248.02	210.33	320.89	36.68	266.82	98.17	45.30	209.25
38941	68.96	8.10	-1.25	82.56	41.04	327.72	27.08	239.10	209.35	385.63	39.53	250.04	104.26	71.17	207.80
38942	69.12	8.70	-1.25	77.41	42.55	331.71	29.45	236.90	207.17	363.66	40.80	259.27	111.13	58.88	205.37
38943	67.85	8.10	-1.25	92.08	46.80	340.04	29.29	228.09	205.86	435.05	44.24	257.31	115.06	94.36	203.75
38944	68.02	8.70	-1.25	85.82	48.30	343.34	32.38	225.76	204.36	409.74	45.70	261.51	124.78	76.98	201.93
38945	66.73	8.10	-1.25	102.21	53.98	351.40	31.41	218.10	202.64	485.74	49.71	289.13	124.09	118.04	200.75
38946	66.92	8.70	-1.25	95.05	55.32	354.15	35.61	215.37	202.08	458.37	51.61	283.34	138.25	96.04	199.55
38947	65.62	8.10	-1.25	112.45	63.10	361.69	33.09	209.94	199.73	535.74	56.37	353.61	129.08	134.75	200.89
38948	65.82	8.70	-1.25	104.98	63.97	364.09	39.02	206.64	200.60	509.26	58.92	333.77	150.39	110.52	199.96
38949	64.50	8.10	-1.25	122.70	75.37	370.75	33.78	203.77	196.85	586.67	65.26	446.02	125.68	133.47	209.89
38950	64.72	8.70	-1.25	116.07	74.55	373.29	42.41	200.33	200.14	565.61	68.45	412.86	159.88	113.72	208.06
38951	63.38	8.10	-1.25	134.79	94.16	378.27	35.03	198.60	192.93	652.49	80.55	541.71	108.22	118.39	242.00
38952	63.62	8.70	-1.25	132.47	88.66	382.42	45.53	197.36	200.70	646.58	80.85	505.39	165.86	111.98	235.56
38953	62.27	8.10	-1.25	156.52	127.87	383.73	46.02	194.35	183.63	775.16	118.63	593.81	83.59	176.57	309.71
38954	62.53	8.70	-1.25	164.71	114.65	396.10	50.52	203.13	202.82	799.14	102.53	588.15	177.28	160.84	311.23
38955	61.15	8.10	-1.25	215.39	154.51	385.00	69.25	197.52	152.69	1037.27	142.04	578.38	76.98	332.98	274.69
38956	61.43	8.70	-1.25	240.38	169.12	445.91	68.44	240.74	196.37	1164.63	189.46	626.43	265.67	324.65	371.41
38957	89.43	9.45	1.75	68.04	58.37	300.52	40.30	198.42	235.18	134.49	48.54	237.33	32.14	109.03	233.38
38958	90.40	9.41	1.75	69.22	61.33	313.35	43.81	191.35	238.33	130.32	50.86	244.23	36.48	121.56	236.50
38959	91.37	9.36	1.75	69.97	64.10	328.05	47.13	184.72	241.64	124.17	52.92	260.21	41.26	134.50	239.92
38960	89.62	10.34	1.75	72.74	61.89	314.57	42.14	199.42	231.04	132.72	51.73	251.50	32.07	119.90	229.00
38961	90.47	10.22	1.75	73.20	64.00	325.48	44.73	193.68	234.50	128.48	53.04	258.09	36.22	130.10	232.50
38962	91.31	10.08	1.75	73.24	65.97	337.66	47.06	188.07	237.95	122.85	54.07	271.38	40.61	140.08	236.11
38963	89.80	11.25	1.75	77.26	65.04	331.78	43.72	201.33	226.86	130.41	54.18	269.05	32.22	130.92	224.70
38964	90.52	11.03	1.75	77.04	66.25	339.90	45.26	196.52	230.54	126.29	54.45	274.10	36.00	138.41	228.52
38965	91.23	10.80	1.75	76.33	67.49	348.79	46.98	191.39	233.82	120.83	54.64	283.53	40.21	145.56	231.96
38966	78.98	9.82	1.75	58.36	34.46	225.42	23.31	248.78	201.03	206.93	40.91	294.32	46.56	61.09	201.02
38967	80.05	9.80	1.75	58.16	35.51	226.90	22.72	248.38	204.74	191.61	39.76	290.56	39.79	59.49	204.67
38968	81.11	9.78	1.75	58.42	37.03	230.19	22.60	246.66	208.40	178.94	38.98	285.49	34.02	58.85	208.22
38969	82.17	9.76	1.75	59.05	38.94	235.17	23.04	243.66	211.98	168.60	38.64	279.28	29.27	59.42	211.63
38970	83.22	9.73	1.75	59.96	41.19	241.61	24.06	239.48	215.46	160.28	38.78	272.11	25.67	61.46	214.92
38971	84.27	9.69	1.75	61.10	43.70	249.31	25.67	234.23	218.86	153.67	39.42	264.25	23.37	65.17	218.07
38972	85.32	9.65	1.75	62.39	46.43	258.01	27.83	228.06	222.17	148.49	40.55	256.07	22.56	70.65	221.13
38973	86.36	9.61	1.75	63.80	49.33	267.54	30.47	221.13	225.42	144.39	42.13	248.14	23.26	77.89	224.13
38974	87.39	9.55	1.75	65.26	52.36	277.80	33.51	213.66	228.66	141.03	44.10	241.35	25.30	86.83	227.14
38975	88.43	9.50	1.75	66.73	55.48	288.79	36.86	205.92	231.94	137.94	46.38	237.07	28.41	97.33	230.22
38976	79.01	11.45	1.75	62.26	39.62	250.57	29.27	244.15	189.79	193.09	45.78	317.82	46.01	59.10	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39005	89.17	12.54	1.75	82.40	66.16	347.77	43.86	209.20	217.04	130.82	55.18	291.48	28.61	135.01	214.94
39006	79.07	16.37	1.75	80.18	49.48	365.12	51.84	236.71	158.04	161.74	55.24	439.01	24.20	53.04	164.10
39007	80.31	16.30	1.75	82.55	50.88	364.13	50.71	237.90	161.53	156.49	55.21	428.88	17.61	62.45	166.23
39008	81.53	16.16	1.75	84.60	52.60	363.80	49.53	238.00	165.80	152.12	55.02	416.31	11.55	73.60	169.21
39009	82.73	15.96	1.75	86.29	54.53	364.09	48.35	237.04	170.78	148.39	54.72	401.78	6.32	85.45	173.01
39010	83.91	15.70	1.75	87.58	56.57	364.99	47.21	235.08	176.37	145.06	54.36	385.95	4.59	97.40	177.54
39011	85.06	15.39	1.75	88.45	58.64	366.47	46.19	232.18	182.44	141.90	53.95	369.57	8.48	109.07	182.70
39012	86.19	15.02	1.75	88.84	60.67	368.45	45.32	228.37	188.87	138.65	53.50	353.54	13.82	120.17	188.41
39013	87.29	14.59	1.75	88.71	62.61	370.85	44.69	223.70	195.53	135.06	53.03	338.94	19.44	130.48	194.54
39014	88.35	14.11	1.75	88.02	64.40	373.56	44.39	218.20	202.28	130.93	52.54	327.00	25.17	139.76	201.00
39015	89.38	13.57	1.75	86.75	66.02	376.45	44.48	211.87	209.02	126.07	52.02	319.00	30.94	147.80	207.65
39016	79.08	18.02	1.75	87.06	38.59	425.32	57.03	237.46	134.97	156.26	43.74	505.52	12.59	55.37	149.16
39017	80.33	17.94	1.75	89.52	40.52	423.78	55.88	239.21	138.40	152.17	44.06	493.31	8.04	69.49	150.41
39018	81.58	17.78	1.75	91.51	43.15	422.02	54.52	239.88	143.00	148.51	44.39	477.72	5.85	84.22	152.83
39019	82.80	17.54	1.75	93.01	46.28	420.05	53.02	239.48	148.71	145.12	44.77	459.44	7.72	98.70	156.42
39020	84.01	17.23	1.75	93.99	49.68	417.94	51.44	238.00	155.38	141.82	45.24	439.26	11.69	112.44	161.11
39021	85.19	16.85	1.75	94.44	53.20	415.72	49.88	235.47	162.85	138.46	45.80	418.13	16.24	125.12	166.85
39022	86.34	16.40	1.75	94.34	56.69	413.42	48.42	231.89	170.95	134.90	46.46	397.13	20.97	136.48	173.52
39023	87.46	15.87	1.75	93.68	60.04	411.07	47.20	227.28	179.50	131.03	47.23	377.51	25.76	146.33	181.00
39024	88.54	15.28	1.75	92.46	63.14	408.66	46.32	221.66	188.34	126.72	48.09	360.61	30.54	154.50	189.11
39025	89.57	14.62	1.75	90.66	65.92	406.23	45.94	215.10	197.30	121.89	49.04	347.82	35.25	160.90	197.67
39026	94.23	9.51	1.75	68.15	71.76	385.40	54.34	163.21	247.15	87.86	54.94	368.07	56.97	160.52	247.37
39027	93.64	10.51	1.75	73.19	72.24	389.63	52.18	172.50	239.66	93.80	54.25	356.65	54.26	164.01	239.92
39028	93.00	11.47	1.75	78.11	72.33	394.20	50.31	181.96	231.70	100.00	53.44	347.74	51.47	167.10	231.96
39029	93.28	9.44	1.75	68.62	69.01	366.20	51.96	171.00	246.04	99.11	53.72	325.82	52.09	155.43	245.17
39030	92.87	10.31	1.75	72.59	69.65	372.20	50.16	177.72	240.15	101.74	53.08	324.45	50.08	157.85	239.28
39031	92.43	11.15	1.75	76.59	69.87	378.47	48.43	184.43	233.61	104.92	52.23	324.14	47.88	160.01	232.82
39032	92.33	9.37	1.75	69.92	66.77	346.28	50.11	178.27	244.34	113.61	54.16	288.12	46.64	147.19	242.88
39033	92.11	10.11	1.75	73.04	67.88	353.91	49.12	182.91	240.01	113.39	54.30	294.40	45.39	150.35	238.47
39034	91.86	10.83	1.75	76.11	68.60	361.97	47.89	187.69	235.19	113.81	53.98	301.18	43.85	152.97	233.69
39035	90.54	13.92	1.75	88.53	68.33	403.60	46.24	207.80	206.09	117.12	50.28	340.13	39.79	165.19	206.20
39036	90.28	13.02	1.75	85.08	67.44	378.64	44.98	205.33	215.30	121.14	51.82	315.58	36.17	153.65	213.94
39037	90.02	12.14	1.75	81.52	67.26	353.88	44.93	203.47	222.10	126.50	54.88	291.05	33.46	142.48	220.06
39038	91.42	13.16	1.75	85.65	70.21	400.66	47.16	199.83	214.73	111.83	51.30	337.77	44.04	167.61	214.85
39039	91.07	12.46	1.75	82.78	68.49	379.89	45.83	198.75	221.25	115.79	51.61	316.07	40.65	157.54	220.08
39040	90.72	11.78	1.75	80.28	67.97	358.82	45.82	198.34	226.41	122.00	54.44	293.97	37.42	147.85	224.55
39041	92.25	12.36	1.75	82.34	71.73	397.83	48.53	191.27	223.22	106.21	52.56	341.07	47.90	168.32	223.44
39042	91.82	11.87	1.75	80.03	69.53	381.02	46.91	191.61	227.11	109.92	51.68	320.78	44.75	160.06	226.22
39043	91.39	11.39	1.75	78.53	68.45	363.75	46.78	192.78	230.69	116.65	53.75	300.33	41.34	152.40	229.12
39044	89.71	9.46	0.25	71.14	60.52	330.14	43.41	205.85	242.85	135.12	54.46	255.24	36.55	101.84	240.91
39045	90.71	9.42	0.25	74.38	64.81	342.34	48.45	197.90	246.12	137.80	59.19	259.65	41.36	116.15	244.13
39046	91.71	9.37	0.25	77.88	69.13	356.77	53.64	191.59	250.39	139.66	64.21	274.38	46.69	133.49	248.50
39047	89.92	10.39	0.25	77.57	66.56	343.67	46.54	206.30	238.89	137.78	60.37	269.21	36.94	114.63	236.62
39048	90.79	10.26	0.25	79.94	69.90	354.40	50.59	200.52	243.11	139.41	64.00	274.34	41.34	127.28	240.89
39049	91.65	10.12	0.25	82.30	73.16	367.16	54.51	195.89	248.08	140.25	67.68	287.76	45.98	141.69	246.03
39050	90.11	11.33	0.25	84.04	73.28	361.12	49.91	208.67	236.30	140.05	66.89	287.56	37.21	128.70	233.84
39051	90.84	11.10	0.25	85.42	75.22	369.85	52.60	204.50	241.18	140.49	68.97	292.46	41.09	138.94	238.88
39052	91.57	10.86	0.25	86.53	77.17	380.29	55.45	200.77	246.23	139.83	71.06	303.39	45.31	150.20	244.13
39053	79.00	9.85	0.25	53.64	32.02	249.13	20.59	267.85	213.97	167.95	33.71	314.91	42.23	60.10	214.26
39054	80.09	9.83	0.25	53.88	33.12	250.99	20.10	266.99	217.23	155.48	33.25	312.15	36.56	60.30	217.47
39055	81.18	9.81	0.25	54.59	34.76	254.95	20.19	264.64	220.40	145.78	33.37	307.96	31.91	60.61	220.51
39056	82.27	9.79	0.25	55.69	36.88	260.84	20.94	260.85	223.45	138.55	34.09	302.48	28.32	61.23	223.37
39057	83.35	9.76	0.25	57.14	39.39	268.33	22.37	255.69	226.38	133.54	35.42	295.85	25.89	62.46	226.05
39058	84.42	9.72	0.25	58.87	42.25	277.10	24.49	249.27	229.19	130.47	37.33	288.27	24.73	64.65	228.56
39059	85.50	9.68	0.25	60.85	45.41	286.78	27.23	241.73	231.89	129.09	39.79	280.00	24.90	68.17	230.95
39060	86.56	9.63	0.25	63.07	48.86	297.08	30.55	233.27	234.52	129.16	42.79	271.50	26.34	73.37	233.26
39061	87.63	9.57	0.25	65.53	52.59	307.78	34.40	224.17	237.16	130.41	46.30	263.55	28.90	80.58	235.60
39062	88.68	9.51	0.25	68.25	56.59	318.80	38.75	214.78	239.92	132.58	50.31	257.41	32.43	90.04	238.11
39063	79.03	11.54	0.25	58.96	38.63	276.55	26.93	260.80	200.33	159.53	40.86	340.12	42.42	58.14	200.42
39064	80.18	11.51	0.25	60.12	39.80	277.63	26.27	260.22	203.74	149.68	40.52	336.04	36.28	58.95	203.75
39065	81.32	11.45	0.25	61.54	41.55	280.51	26.14	258.15	207.28	142.30	40.73	330.27	31.26	60.50	207.11
39066	82.45	11.37	0.25	63.16	43.79	285.04	26.62	254.68	210.91	137.08	41.51	323.03	27.40	62.89	210.47
39067	83.57	11.28	0.25	64.92	46.42	290.99	27.75	249.91	214.62	133.73	42.86	314.53	24.84	66.26	213.85
39068	84.67	11.17	0.25	66.81	49.37	298.08	29.55	244.00	218.40	131.99	44.77	305.10	23.72	70.78	217.26
39069	85.76	11.04	0.25	68.79	52.58	306.04	31.99	237.14	222.24	131.58	47.17	295.14	24.12	76.57	220.75
39070	86.84	10.89	0.25	70.86	55.99	314.68	35.01	229.55	226.19	132.27	50.04	285.29	25.92	83.78	224.36
39071	87.91	10.73	0.25	73.04	59.55	323.86	38.56	221.52	230.29	133.79	53.31	276.54	28.91	92.54	228.20
39072	88.96	10.55	0.25	75.33	63.23	333.63	42.55	213.41	234.65	135.88	56.92	270.39	32.82	103.00	232.39
39073	79.05	13.25	0.25	65.88	48.16	307.04	35.08	253.95	186.61	153.01	51.18	369.86	39.68	54.99	186.61
39074	80.26	13.19	0.25	67.77	49.35	307.41	34.29	253.77	190.12	145.86	50.92	364.27	33.53	57.34	189.94
39075	81.44</														



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39103	79.10	18.36	0.25	89.72	52.37	495.42	64.47	255.28	166.57	147.11	57.24	567.51	14.16	52.06	179.69
39104	80.39	18.28	0.25	92.48	54.03	494.12	63.21	256.72	169.62	144.84	57.47	554.97	9.31	67.75	180.61
39105	81.67	18.11	0.25	94.84	56.15	492.59	61.55	257.10	173.72	143.18	57.57	538.97	4.85	83.68	182.61
39106	82.93	17.87	0.25	96.74	58.58	490.85	59.56	256.42	178.80	141.86	57.59	520.19	3.32	99.22	185.69
39107	84.17	17.54	0.25	98.09	61.13	488.96	57.34	254.67	184.72	140.61	57.52	499.47	7.36	114.03	189.79
39108	85.39	17.15	0.25	98.83	63.62	486.95	55.00	251.87	191.34	139.13	57.31	477.79	12.67	127.86	194.83
39109	86.57	16.67	0.25	98.87	65.90	484.85	52.69	248.00	198.48	137.14	56.95	456.32	18.41	140.49	200.70
39110	87.72	16.13	0.25	98.11	67.81	482.67	50.58	243.06	205.98	134.35	56.37	436.45	24.43	151.71	207.24
39111	88.83	15.51	0.25	96.46	69.27	480.42	48.86	237.06	213.67	130.45	55.59	419.68	30.64	161.30	214.31
39112	89.89	14.83	0.25	93.83	70.08	478.10	47.65	229.98	221.34	125.07	54.38	407.58	36.92	169.00	221.67
39113	94.64	9.53	0.25	69.03	72.19	448.12	56.39	176.85	266.26	87.23	61.13	435.15	61.96	175.83	266.44
39114	94.04	10.56	0.25	72.98	72.16	455.13	53.10	185.43	259.25	91.27	58.03	423.06	59.27	176.78	259.59
39115	93.39	11.56	0.25	76.91	71.57	462.51	50.28	194.30	251.54	95.92	54.77	413.46	56.73	177.76	252.03
39116	93.66	9.45	0.25	82.24	76.63	411.48	61.79	187.81	263.77	127.59	72.65	366.68	58.13	177.88	262.55
39117	93.25	10.35	0.25	85.02	78.42	421.84	59.50	195.05	260.04	126.62	72.41	369.56	55.18	178.99	258.79
39118	92.80	11.22	0.25	87.36	79.33	433.29	56.94	201.98	255.74	125.58	71.33	373.77	52.00	179.20	254.55
39119	92.69	9.38	0.25	81.44	73.63	377.29	58.86	187.98	255.93	137.91	69.26	306.25	52.62	155.15	254.27
39120	92.47	10.15	0.25	84.93	76.58	387.49	58.31	194.00	253.60	137.34	71.23	316.74	50.89	160.16	251.83
39121	92.22	10.90	0.25	87.87	79.11	399.58	57.28	200.34	251.39	136.57	72.72	328.96	48.64	164.34	249.60
39122	90.87	14.10	0.25	90.51	70.58	475.21	47.19	222.03	228.84	118.81	53.44	400.96	42.95	174.30	229.03
39123	90.61	13.17	0.25	94.69	83.59	429.37	54.10	220.39	239.16	137.01	75.21	356.22	38.24	163.07	237.55
39124	90.34	12.26	0.25	90.46	80.26	386.78	53.31	213.20	236.18	140.76	73.33	313.76	37.70	145.22	233.83
39125	91.78	13.31	0.25	86.33	70.90	471.53	47.66	213.34	236.27	111.53	52.86	399.95	48.48	177.42	236.57
39126	91.42	12.59	0.25	92.76	82.39	433.15	54.61	214.78	245.14	133.42	73.65	360.33	43.09	170.31	243.68
39127	91.05	11.88	0.25	90.38	80.64	393.81	54.79	209.24	241.83	139.59	73.64	318.57	41.65	153.72	239.68
39128	92.63	12.48	0.25	81.62	70.96	467.87	48.48	203.93	243.56	103.28	52.63	405.23	53.32	178.29	244.07
39129	92.19	11.97	0.25	89.88	80.85	437.22	55.13	208.63	250.80	128.15	71.85	369.99	47.74	176.29	249.55
39130	91.74	11.48	0.25	89.66	80.32	401.90	56.08	205.29	247.58	137.24	73.34	328.62	45.63	162.25	245.70
39131	90.00	9.48	-1.25	72.73	59.00	362.52	44.33	209.98	246.45	128.05	56.18	274.76	40.65	89.21	244.29
39132	91.02	9.43	-1.25	78.21	65.11	372.37	50.98	198.95	247.94	139.10	63.08	274.62	46.50	100.79	245.63
39133	92.04	9.39	-1.25	85.44	72.25	382.77	58.79	189.63	250.48	152.88	71.61	283.10	53.60	116.87	248.21
39134	90.21	10.44	-1.25	81.58	67.32	373.67	48.40	207.70	240.12	137.22	64.01	286.89	42.07	101.18	237.45
39135	91.10	10.31	-1.25	86.51	72.96	381.69	54.45	199.67	243.16	147.11	70.55	287.57	47.65	112.33	240.50
39136	91.98	10.16	-1.25	92.75	79.59	390.68	61.19	193.10	247.27	159.07	78.48	295.51	54.05	126.56	244.78
39137	90.41	11.41	-1.25	91.61	78.39	387.19	53.86	207.58	235.28	147.80	74.85	302.21	43.87	115.44	232.24
39138	91.16	11.18	-1.25	95.93	82.81	393.36	58.74	202.23	239.80	156.27	80.15	303.23	48.98	125.32	236.93
39139	91.91	10.93	-1.25	101.29	88.56	400.82	64.55	197.87	245.13	166.25	87.01	309.86	54.93	137.54	242.51
39140	79.01	9.88	-1.25	47.32	26.01	275.06	16.31	286.91	227.07	115.92	25.52	335.60	35.09	63.68	228.01
39141	80.13	9.86	-1.25	48.18	27.23	277.30	15.94	285.62	229.87	107.51	26.22	333.98	30.98	65.61	230.69
39142	81.25	9.84	-1.25	49.46	29.06	282.06	16.28	282.67	232.50	101.78	27.53	330.89	27.87	66.97	233.12
39143	82.36	9.82	-1.25	51.12	31.41	289.05	17.41	278.11	234.94	98.49	29.38	326.42	25.80	67.85	235.29
39144	83.47	9.78	-1.25	53.13	34.20	297.85	19.32	271.97	237.17	97.41	31.71	320.64	24.85	68.45	237.19
39145	84.58	9.74	-1.25	55.45	37.36	307.97	21.94	264.32	239.17	98.31	34.50	313.67	25.04	69.04	238.82
39146	85.67	9.70	-1.25	58.10	40.89	318.92	25.19	255.28	240.94	101.01	37.73	305.67	26.31	70.03	240.19
39147	86.77	9.65	-1.25	61.07	44.79	330.22	29.04	245.00	242.50	105.38	41.43	296.95	28.58	71.92	241.34
39148	87.86	9.59	-1.25	64.44	49.11	341.45	33.49	233.72	243.88	111.35	45.70	288.07	31.76	75.33	242.32
39149	88.94	9.53	-1.25	68.31	53.92	352.31	38.61	221.79	245.18	118.95	50.67	280.04	35.85	80.91	243.26
39150	79.04	11.64	-1.25	54.27	32.37	305.63	22.52	276.99	210.30	115.00	32.08	363.67	35.92	61.64	210.97
39151	80.23	11.60	-1.25	55.97	33.66	307.00	21.94	275.97	213.28	108.92	32.57	360.62	31.47	63.50	213.83
39152	81.40	11.54	-1.25	57.91	35.67	310.47	21.98	273.25	216.30	105.24	33.76	355.75	28.10	65.29	216.61
39153	82.56	11.46	-1.25	60.05	38.26	315.77	22.75	268.91	219.34	103.68	35.60	349.22	25.86	67.11	219.29
39154	83.70	11.36	-1.25	62.38	41.34	322.56	24.28	263.06	222.36	104.01	38.03	341.20	24.81	69.13	221.88
39155	84.83	11.25	-1.25	64.90	44.81	330.44	26.57	255.83	225.35	106.00	41.01	331.91	25.03	71.56	224.40
39156	85.95	11.11	-1.25	67.60	48.65	339.00	29.61	247.38	228.29	109.49	44.51	321.65	26.46	74.69	226.86
39157	87.06	10.96	-1.25	70.53	52.83	347.86	33.35	237.93	231.21	114.40	48.54	310.92	29.03	78.88	229.32
39158	88.15	10.79	-1.25	73.77	57.38	356.73	37.79	227.75	234.15	120.70	53.16	300.51	32.62	84.49	231.87
39159	89.23	10.61	-1.25	77.47	62.36	365.46	42.94	217.25	237.21	128.50	58.47	291.68	37.16	91.94	234.65
39160	79.07	13.40	-1.25	63.36	42.47	337.78	31.22	266.44	191.75	116.99	42.94	394.45	34.51	57.69	191.94
39161	80.31	13.34	-1.25	65.70	43.81	338.33	30.50	265.81	194.92	113.24	43.20	389.78	30.12	60.22	194.97
39162	81.52	13.25	-1.25	68.10	45.93	340.47	30.32	263.51	198.48	111.46	44.22	382.95	26.80	63.44	198.22
39163	82.72	13.12	-1.25	70.55	48.70	344.00	30.76	259.69	202.37	111.42	45.97	374.18	24.66	67.26	201.66
39164	83.90	12.96	-1.25	73.06	51.99	348.69	31.92	254.48	206.54	112.90	48.40	363.77	23.84	71.66	205.31
39165	85.07	12.77	-1.25	75.65	55.72	354.26	33.82	248.04	210.93	115.73	51.46	352.07	24.41	76.68	209.15
39166	86.21	12.54	-1.25	78.34	59.79	360.43	36.49	240.58	215.50	119.82	55.12	339.58	26.33	82.43	213.21
39167	87.33	12.29	-1.25	81.21	64.18	366.98	39.92	232.35	220.25	125.12	59.35	327.01	29.47	89.04	217.53
39168	88.43	12.01	-1.25	84.36	68.88	373.74	44.12	223.64	225.20	131.68	64.19	315.41	33.67	96.75	222.19
39169	89.50	11.69	-1.25	87.93	73.90	380.71	49.04	214.84	230.46	139.61	69.68	306.30	38.83	105.87	227.34
39170	79.09	15.17	-1.25	73.94	59.28	374.01	43.78	256.69	174.66	122.11	61.41	430.49	31.32	51.80	174.68
39171	80.37	15.09	-1.25	76.79	60.64	373.90	42.96	256.56	177.97	120.38	61.39	424.04	27.23	56.47	177.69
39172	81.63	14.97	-1.25	79.57	62.80	374.81	42.56	254.94	182.14	120.24	62.14	415.06	24.21	62.57	181.39
39173	82.86	14.													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39201	94.44	10.62	-1.25	151.71	135.80	555.64	93.57	242.51	316.74	233.64	143.85	545.03	86.21	265.62	316.41
39202	93.78	11.65	-1.25	157.42	146.57	574.49	88.23	253.33	317.33	232.18	150.63	539.78	77.52	261.07	317.02
39203	94.05	9.47	-1.25	114.59	96.91	424.42	81.75	190.08	268.61	197.48	101.87	363.90	75.16	181.45	267.24
39204	93.63	10.40	-1.25	121.65	106.00	437.60	81.20	200.53	268.47	199.60	109.20	373.19	72.31	187.40	267.04
39205	93.17	11.30	-1.25	128.69	115.82	454.24	80.61	211.83	269.55	201.66	117.24	385.71	68.95	193.16	268.17
39206	93.05	9.40	-1.25	96.94	82.27	397.42	68.99	184.54	255.34	171.64	83.73	307.88	63.02	141.62	253.35
39207	92.82	10.19	-1.25	103.95	89.72	405.92	70.19	191.20	253.55	175.98	90.39	318.94	62.26	149.56	251.42
39208	92.57	10.96	-1.25	110.62	98.17	416.83	71.27	199.02	252.94	180.07	98.03	332.40	60.88	157.50	250.79
39209	91.21	14.28	-1.25	152.99	159.92	582.58	77.84	267.62	299.52	208.08	156.12	499.11	47.43	217.87	299.41
39210	90.94	13.32	-1.25	122.18	118.79	443.79	71.78	223.03	245.87	179.62	115.54	362.84	50.33	162.09	243.65
39211	90.65	12.37	-1.25	104.58	94.96	407.42	61.91	210.98	234.75	161.53	91.48	324.27	46.85	134.38	231.70
39212	92.14	13.47	-1.25	156.35	158.00	582.89	79.22	263.84	307.15	217.50	155.77	507.89	56.43	233.70	306.92
39213	91.76	12.72	-1.25	125.87	120.00	450.21	74.77	220.22	255.33	188.11	117.95	368.91	56.62	174.30	253.43
39214	91.38	11.98	-1.25	108.21	98.12	412.59	65.86	207.22	241.42	169.21	95.59	326.10	52.19	144.14	238.69
39215	93.01	12.60	-1.25	158.59	155.01	583.97	82.54	260.21	314.75	226.44	155.30	526.63	66.28	249.63	314.49
39216	92.55	12.08	-1.25	129.73	121.25	458.70	78.16	218.36	265.45	197.35	120.78	383.21	63.17	188.07	263.92
39217	92.09	11.56	-1.25	112.23	100.55	419.18	70.01	204.31	248.88	177.82	99.35	333.65	57.86	155.61	246.55
39218	79.03	-3.10	1.75	53.41	25.02	150.66	6.32	263.31	233.50	249.90	32.26	234.82	19.74	63.04	233.53
39219	80.19	-3.10	1.75	48.97	25.86	155.56	7.38	261.94	238.35	223.48	29.68	232.02	17.54	59.48	238.38
39220	81.36	-3.10	1.75	45.43	27.14	163.86	9.51	258.74	242.87	201.74	27.58	227.76	16.43	55.39	242.88
39221	82.52	-3.10	1.75	42.75	28.81	174.87	12.37	253.73	246.99	184.10	26.11	222.23	16.62	51.06	246.99
39222	83.68	-3.10	1.75	40.87	30.81	187.85	15.71	246.95	250.67	170.05	25.41	215.62	18.08	47.01	250.64
39223	84.84	-3.10	1.75	39.71	33.10	202.06	19.39	238.47	253.89	159.08	25.58	208.18	20.57	44.07	253.83
39224	86.01	-3.10	1.75	39.20	35.64	216.88	23.35	228.39	256.62	150.73	26.63	200.33	23.79	43.44	256.53
39225	87.17	-3.10	1.75	39.23	38.42	231.83	27.56	216.87	258.90	144.49	28.51	192.79	27.55	46.29	258.77
39226	88.33	-3.10	1.75	39.71	41.41	246.56	32.04	204.17	260.78	139.81	31.15	186.88	31.74	53.16	260.62
39227	89.50	-3.10	1.75	40.53	44.59	260.89	36.80	190.63	262.35	136.05	34.45	184.77	36.33	63.82	262.15
39228	90.66	-3.10	1.75	41.61	47.96	274.93	41.89	176.78	263.77	132.38	38.36	189.85	41.33	77.71	263.53
39229	91.82	-3.10	1.75	42.79	51.47	289.14	47.32	163.29	265.23	127.58	42.78	206.43	46.74	94.20	264.98
39230	92.98	-3.10	1.75	43.67	55.09	304.62	52.98	150.95	267.03	119.73	47.61	239.03	52.48	112.39	266.78
39231	94.15	-3.10	1.75	43.25	58.74	323.42	58.53	140.18	269.45	105.60	52.55	291.66	58.25	130.07	269.24
39232	95.31	-3.10	1.75	39.14	62.30	346.18	63.07	128.58	272.22	79.94	56.21	362.27	63.26	139.48	272.09
39233	96.47	-3.10	1.75	35.08	66.09	370.27	66.66	113.42	273.99	54.18	59.05	440.04	67.26	136.10	274.05
39234	79.03	-2.50	1.75	53.39	24.79	147.03	5.19	263.92	234.82	251.72	31.99	232.39	16.09	62.98	234.84
39235	80.20	-2.50	1.75	48.72	25.61	152.18	6.59	262.51	239.74	224.81	29.38	229.61	14.54	59.35	239.75
39236	81.37	-2.50	1.75	44.97	26.87	160.82	9.04	259.25	244.31	202.68	27.23	225.36	14.18	55.13	244.32
39237	82.54	-2.50	1.75	42.07	28.52	172.23	12.11	254.14	248.48	184.72	25.71	219.83	15.13	50.58	248.48
39238	83.71	-2.50	1.75	39.97	30.49	185.60	15.59	247.25	252.19	170.42	24.97	213.21	17.24	46.21	252.17
39239	84.88	-2.50	1.75	38.62	32.76	200.18	19.37	238.62	255.42	159.26	25.11	205.76	20.18	42.87	255.38
39240	86.04	-2.50	1.75	37.94	35.28	215.35	23.40	228.35	258.15	150.78	26.15	197.91	23.71	41.82	258.09
39241	87.21	-2.50	1.75	37.83	38.04	230.58	27.67	216.61	260.41	144.45	28.04	190.39	27.67	44.36	260.33
39242	88.38	-2.50	1.75	38.19	41.01	245.54	32.18	203.65	262.25	139.72	30.70	184.54	31.99	51.12	262.14
39243	89.55	-2.50	1.75	38.93	44.18	260.04	36.97	189.81	263.77	135.93	34.04	182.60	36.67	61.84	263.63
39244	90.72	-2.50	1.75	39.94	47.52	274.17	42.09	175.62	265.10	132.23	37.99	188.02	41.73	75.90	264.95
39245	91.89	-2.50	1.75	41.08	51.01	288.41	47.56	161.79	266.48	127.41	42.48	205.19	47.19	92.62	266.31
39246	93.05	-2.50	1.75	41.93	54.62	303.86	53.28	149.12	268.19	119.49	47.40	238.63	52.96	111.07	268.03
39247	94.22	-2.50	1.75	41.45	58.27	322.62	58.93	138.10	270.54	105.14	52.49	292.37	58.75	129.04	270.40
39248	95.39	-2.50	1.75	37.09	61.90	345.41	63.56	126.29	273.23	78.86	56.33	364.40	63.69	138.55	273.15
39249	96.56	-2.50	1.75	32.52	65.68	369.66	67.30	110.58	275.14	51.98	59.29	443.64	67.70	134.54	275.19
39250	79.04	-3.10	0.25	46.41	21.56	167.79	5.12	287.56	250.13	196.52	21.81	249.46	17.30	60.77	250.25
39251	80.23	-3.10	0.25	42.49	22.46	173.16	6.43	285.75	254.40	174.31	20.83	248.07	15.62	61.13	254.50
39252	81.42	-3.10	0.25	39.41	23.81	182.56	9.04	282.01	258.33	156.62	20.59	245.11	15.20	60.22	258.41
39253	82.60	-3.10	0.25	37.14	25.55	195.18	12.33	276.33	261.86	142.99	21.14	240.75	16.15	58.18	261.91
39254	83.79	-3.10	0.25	35.66	27.62	210.08	16.02	268.71	264.94	133.00	22.45	235.14	18.28	55.22	264.96
39255	84.98	-3.10	0.25	34.94	30.01	226.39	19.98	259.17	267.53	126.24	24.43	228.45	21.27	51.75	267.52
39256	86.16	-3.10	0.25	34.97	32.67	243.34	24.18	247.78	269.60	122.34	26.99	220.97	24.86	48.51	269.54
39257	87.35	-3.10	0.25	35.68	35.61	260.26	28.62	234.64	271.13	120.91	30.07	213.21	28.90	46.72	271.03
39258	88.53	-3.10	0.25	37.04	38.82	276.63	33.36	219.96	272.15	121.57	33.67	206.20	33.36	48.08	272.00
39259	89.72	-3.10	0.25	39.04	42.28	292.07	38.48	204.11	272.73	123.92	37.81	201.79	38.29	54.19	272.53
39260	90.91	-3.10	0.25	41.71	46.00	306.46	44.12	187.68	273.01	127.48	42.56	203.15	43.78	65.79	272.78
39261	92.09	-3.10	0.25	45.20	49.97	320.05	50.44	171.68	273.31	131.62	48.07	215.00	49.99	83.01	273.05
39262	93.28	-3.10	0.25	49.68	54.18	333.99	57.58	157.72	274.20	135.20	54.54	243.58	57.06	106.10	273.93
39263	94.47	-3.10	0.25	54.81	58.56	351.07	65.48	148.19	276.78	135.33	62.16	296.53	64.98	135.59	276.54
39264	95.65	-3.10	0.25	58.02	62.88	381.41	73.10	146.09	283.27	123.72	71.62	390.88	72.82	170.75	283.09
39265	96.84	-3.10	0.25	39.94	65.65	423.45	71.01	132.56	289.10	60.46	72.21	509.39	71.87	165.19	289.11
39266	79.05	-2.50	0.25	46.34	21.30	163.85	4.16	288.35	251.56	197.76	21.47	246.73	14.07	60.85	251.64
39267	80.24	-2.50	0.25	42.20	22.19	169.46	5.83	286.51	255.89	175.14	20.48	245.38	12.97	61.03	255.96
39268	81.43	-2.50	0.25	38.90	23.52	179.22	8.74	282.71	259.87	157.11	20.24	242.44	13.24	60.10	259.92
39269	82.62	-2.50	0.25	36.39	25.24	192.26	12.22	276.95	263.45	143.20	20.80	238.09	14.88	57.97	263.48
39270	83.81	-2.50	0.25	34.67	27.28	207.59	16.02	269.22	266.57	132.99	22.11	232.48	17.56	54.85	266.58
39271	85.01	-2.50	0.25												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39299	80.27	-2.50	-1.25	34.66	17.44	187.95	5.24	310.43	271.93	110.25	18.92	259.20	10.86	67.19	272.06
39300	81.49	-2.50	-1.25	32.07	18.84	198.85	8.87	306.23	275.41	97.62	20.62	257.82	12.21	69.50	275.52
39301	82.70	-2.50	-1.25	30.05	20.60	213.60	12.89	299.99	278.50	88.77	22.61	254.94	14.89	70.10	278.57
39302	83.92	-2.50	-1.25	28.62	22.69	231.07	17.10	291.66	281.11	83.42	24.85	250.71	18.35	68.98	281.16
39303	85.14	-2.50	-1.25	27.83	25.09	250.20	21.44	281.20	283.18	81.28	27.31	245.21	22.25	66.20	283.20
39304	86.35	-2.50	-1.25	27.77	27.81	270.03	25.90	268.58	284.63	82.08	30.03	238.64	26.43	61.96	284.61
39305	87.57	-2.50	-1.25	28.52	30.85	289.73	30.51	253.80	285.38	85.58	33.05	231.33	30.85	56.69	285.33
39306	88.78	-2.50	-1.25	30.13	34.21	308.56	35.35	236.95	285.39	91.58	36.45	224.01	35.56	51.38	285.31
39307	90.00	-2.50	-1.25	32.66	37.93	325.87	40.58	218.25	284.65	99.95	40.34	218.13	40.68	48.07	284.52
39308	91.21	-2.50	-1.25	36.21	42.00	341.13	46.47	198.15	283.19	110.66	44.91	216.35	46.47	50.05	283.04
39309	92.43	-2.50	-1.25	41.14	46.46	354.08	53.41	177.55	281.23	124.00	50.46	223.04	53.31	60.33	281.05
39310	93.65	-2.50	-1.25	48.32	51.35	365.00	62.04	158.11	279.27	140.78	57.54	244.41	61.86	80.19	279.07
39311	94.86	-2.50	-1.25	59.63	56.81	376.07	73.52	143.28	278.65	163.01	67.36	289.38	73.27	111.63	278.47
39312	96.08	-2.50	-1.25	78.43	63.30	391.66	90.19	140.56	283.44	194.78	82.12	369.73	89.89	162.85	283.32
39313	97.29	-2.50	-1.25	107.16	74.30	490.16	122.32	185.01	322.83	235.07	121.13	626.19	122.13	282.97	322.81
39314	60.43	-3.10	1.75	572.78	152.58	350.65	96.35	203.28	267.61	2267.26	296.48	1306.64	299.71	187.60	268.22
39315	61.59	-3.10	1.75	425.56	94.91	316.63	59.18	178.22	217.20	1821.51	141.23	1163.85	142.82	244.29	228.04
39316	62.75	-3.10	1.75	346.26	103.02	288.62	43.77	170.52	179.41	1624.07	202.04	810.66	91.40	264.93	202.22
39317	63.92	-3.10	1.75	291.80	97.22	268.98	24.81	163.17	168.97	1461.72	183.45	491.11	50.60	196.24	186.65
39318	65.08	-3.10	1.75	249.17	85.42	256.68	12.98	164.28	168.24	1298.53	137.57	287.73	31.80	124.16	178.30
39319	66.24	-3.10	1.75	214.16	72.15	246.87	8.75	172.18	171.76	1140.16	90.60	178.88	29.53	72.82	176.51
39320	67.40	-3.10	1.75	184.66	60.39	237.11	9.67	183.75	176.97	992.47	57.41	144.14	34.42	46.07	178.92
39321	68.57	-3.10	1.75	159.66	50.94	226.54	11.19	196.75	182.76	859.40	42.37	152.36	39.42	42.96	183.45
39322	69.73	-3.10	1.75	138.53	43.56	215.06	12.04	209.80	188.70	742.47	40.54	172.33	42.08	50.35	188.87
39323	70.89	-3.10	1.75	120.70	37.84	202.88	12.20	222.06	194.63	641.33	42.68	191.49	42.23	58.09	194.61
39324	72.06	-3.10	1.75	105.67	33.42	190.48	11.82	233.08	200.48	554.66	44.19	207.01	40.47	63.72	200.41
39325	73.22	-3.10	1.75	92.96	30.05	178.46	11.03	242.55	206.26	480.76	44.20	218.70	37.49	67.16	206.20
39326	74.38	-3.10	1.75	82.20	27.59	167.55	9.96	250.33	211.95	417.94	42.90	226.99	33.86	68.78	211.92
39327	75.54	-3.10	1.75	73.08	25.92	158.57	8.71	256.33	217.55	364.68	40.71	232.36	30.01	68.94	217.54
39328	76.71	-3.10	1.75	65.36	24.98	152.35	7.44	260.51	223.04	319.64	38.00	235.24	26.23	67.91	223.05
39329	77.87	-3.10	1.75	58.84	24.70	149.58	6.47	262.83	228.37	281.70	35.10	235.97	22.73	65.89	228.40
39330	60.34	-2.50	1.75	553.16	130.15	345.64	77.01	185.47	261.52	2203.19	252.41	1326.90	198.10	183.22	276.20
39331	61.51	-2.50	1.75	424.92	106.16	316.76	55.72	178.65	217.49	1822.38	173.60	1195.05	60.04	239.39	221.29
39332	62.68	-2.50	1.75	349.89	101.82	287.22	42.33	169.77	181.65	1639.33	202.69	826.12	49.11	263.18	194.36
39333	63.85	-2.50	1.75	294.75	96.05	267.48	25.57	162.47	170.42	1473.71	184.24	500.21	35.22	195.85	182.15
39334	65.01	-2.50	1.75	251.13	84.77	255.20	13.29	163.68	169.28	1306.70	140.34	292.35	24.39	124.71	176.16
39335	66.18	-2.50	1.75	215.48	72.35	245.39	7.20	171.77	172.50	1146.43	95.21	179.16	22.28	73.91	175.82
39336	67.35	-2.50	1.75	185.80	61.00	235.55	7.47	183.56	177.58	998.65	61.18	140.86	26.02	46.98	178.97
39337	68.52	-2.50	1.75	160.82	51.57	224.83	9.27	196.75	183.36	866.07	43.35	148.04	30.36	42.95	183.86
39338	69.69	-2.50	1.75	139.73	44.04	213.12	10.42	209.95	189.36	749.38	39.51	168.28	33.02	49.80	189.49
39339	70.86	-2.50	1.75	121.88	38.13	200.67	10.79	222.36	195.37	648.07	41.28	187.91	33.64	57.44	195.36
39340	72.02	-2.50	1.75	106.76	33.53	187.96	10.55	233.48	201.31	560.86	43.09	203.81	32.58	63.16	201.27
39341	73.19	-2.50	1.75	93.92	30.03	175.60	9.85	243.05	207.18	486.21	43.44	215.78	30.39	66.75	207.14
39342	74.36	-2.50	1.75	82.99	27.48	164.35	8.81	250.90	212.96	422.57	42.41	224.27	27.55	68.51	212.93
39343	75.53	-2.50	1.75	73.68	25.75	155.09	7.54	256.94	218.65	368.49	40.37	229.77	24.44	68.78	218.64
39344	76.70	-2.50	1.75	65.76	24.78	148.68	6.21	261.14	224.21	322.69	37.74	232.73	21.33	67.83	224.22
39345	77.87	-2.50	1.75	59.04	24.48	145.85	5.20	263.46	229.62	284.08	34.86	233.51	18.46	65.85	229.64
39346	60.06	-3.10	0.25	407.85	141.69	358.00	83.67	219.47	214.13	1543.15	218.56	998.74	262.05	369.45	239.83
39347	61.25	-3.10	0.25	271.61	66.79	336.02	33.98	183.24	231.04	1115.36	59.35	1011.18	131.46	142.53	233.34
39348	62.43	-3.10	0.25	220.10	82.66	326.06	25.30	188.34	208.00	1009.60	79.68	853.00	102.88	180.35	213.41
39349	63.62	-3.10	0.25	199.61	85.71	312.67	16.53	192.69	195.12	976.80	107.84	618.99	68.73	229.27	202.59
39350	64.81	-3.10	0.25	184.53	78.53	300.30	9.97	196.64	191.44	933.27	98.31	413.86	45.17	219.27	197.11
39351	65.99	-3.10	0.25	168.69	67.46	288.63	9.24	203.30	193.13	865.81	73.80	271.26	35.77	181.64	195.99
39352	67.18	-3.10	0.25	151.81	56.62	276.44	11.21	212.91	197.44	782.53	51.84	192.43	35.03	138.23	198.41
39353	68.37	-3.10	0.25	135.01	47.47	263.13	12.85	224.37	202.82	694.10	38.98	167.98	36.81	99.20	202.94
39354	69.55	-3.10	0.25	119.23	40.14	248.70	13.66	236.43	208.53	608.16	34.21	175.13	38.01	68.69	208.40
39355	70.74	-3.10	0.25	104.96	34.38	233.51	13.72	248.12	214.26	528.87	33.11	192.20	37.73	48.73	214.12
39356	71.92	-3.10	0.25	92.37	29.90	218.12	13.17	258.80	219.87	457.95	32.53	209.30	36.03	40.43	219.80
39357	73.11	-3.10	0.25	81.41	26.48	203.25	12.13	268.05	225.34	395.76	31.43	223.49	33.34	41.40	225.34
39358	74.30	-3.10	0.25	71.97	23.99	189.76	10.71	275.64	230.66	341.92	29.71	234.25	30.05	46.30	230.71
39359	75.48	-3.10	0.25	63.89	22.32	178.60	9.00	281.44	235.81	295.79	27.62	241.84	26.54	51.62	235.91
39360	76.67	-3.10	0.25	57.02	21.41	170.73	7.17	285.38	240.80	256.65	25.43	246.65	23.08	56.01	240.91
39361	77.86	-3.10	0.25	51.23	21.18	166.97	5.60	287.43	245.58	223.77	23.41	249.08	19.90	59.08	245.70
39362	59.97	-2.50	0.25	387.93	108.04	341.65	82.99	189.90	204.30	1459.73	147.85	987.14	222.80	379.69	209.58
39363	61.17	-2.50	0.25	269.07	79.90	335.76	26.40	180.93	229.17	1108.85	58.93	1036.75	49.73	144.79	235.98
39364	62.36	-2.50	0.25	223.38	81.65	325.04	11.54	188.69	209.62	1021.12	80.56	869.31	34.62	183.30	214.32
39365	63.55	-2.50	0.25	202.54	83.97	311.52	12.12	192.81	196.92	987.69	106.91	629.65	41.93	232.51	202.26
39366	64.74	-2.50	0.25	186.38	77.37	299.05	7.71	196.56	192.97	940.70	98.69	420.11	33.48	222.16	196.89
39367	65.93	-2.50	0.25	169.77	67.24	287.31	7.09	203.24	194.32	870.87	76.27	273.79	27.85	184.39	196.34
39368	67.13	-2.50	0.25	152.64	56.93	274.99	9.56	213.00	198.40	786.98	54.48	191.32	27.47	141.06	199.12
39369	6														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39397	63.25	-2.50	-1.25	119.27	72.73	350.49	9.55	195.88	211.46	579.05	53.54	618.15	36.91	169.28	213.68
39398	64.47	-2.50	-1.25	118.40	67.43	343.62	9.36	211.75	211.42	563.30	58.92	478.85	33.82	211.06	212.97
39399	65.69	-2.50	-1.25	115.67	58.91	332.38	11.14	225.29	214.01	544.08	53.48	351.49	29.06	211.12	214.75
39400	66.90	-2.50	-1.25	109.77	49.84	318.20	13.43	238.19	218.44	512.32	43.78	257.53	27.14	185.98	218.58
39401	68.12	-2.50	-1.25	101.57	41.58	301.76	15.12	251.01	223.78	469.95	34.89	204.34	27.12	151.14	223.67
39402	69.33	-2.50	-1.25	92.25	34.61	283.70	15.94	263.51	229.39	421.78	28.54	187.91	27.34	115.86	229.28
39403	70.55	-2.50	-1.25	82.78	28.93	264.68	15.94	275.24	234.95	372.15	24.42	193.89	26.97	84.95	234.93
39404	71.76	-2.50	-1.25	73.75	24.44	245.49	15.20	285.76	240.34	324.12	21.66	208.11	25.76	61.03	240.41
39405	72.98	-2.50	-1.25	65.50	21.01	227.01	13.83	294.77	245.50	279.53	19.61	223.00	23.80	46.24	245.63
39406	74.20	-2.50	-1.25	58.18	18.52	210.25	11.92	302.07	250.44	239.36	18.06	235.70	21.29	41.77	250.62
39407	75.41	-2.50	-1.25	51.81	16.91	196.31	9.57	307.56	255.18	204.02	17.01	245.48	18.48	45.00	255.36
39408	76.63	-2.50	-1.25	46.35	16.09	186.34	6.89	311.17	259.71	173.60	16.57	252.40	15.61	51.30	259.90
39409	77.84	-2.50	-1.25	41.73	15.97	181.35	4.18	312.87	264.04	147.97	16.78	256.76	13.01	57.77	264.21
39410	78.99	-7.25	1.75	54.82	28.89	191.04	15.62	255.71	216.97	227.52	35.98	264.70	40.72	62.90	217.02
39411	80.08	-7.25	1.75	52.89	29.87	193.77	15.36	254.87	221.05	207.19	34.12	261.69	35.11	60.25	221.08
39412	81.17	-7.25	1.75	51.70	31.31	198.87	15.75	252.49	224.92	190.37	32.72	257.35	30.48	57.84	224.89
39413	82.26	-7.25	1.75	51.16	33.15	206.06	16.88	248.64	228.54	176.63	31.88	251.85	26.91	56.03	228.42
39414	83.34	-7.25	1.75	51.17	35.34	214.99	18.70	243.38	231.89	165.60	31.67	245.34	24.55	55.29	231.66
39415	84.43	-7.26	1.75	51.65	37.82	225.24	21.15	236.78	234.96	156.90	32.12	238.06	23.54	56.18	234.59
39416	85.52	-7.26	1.75	52.49	40.55	236.42	24.12	228.99	237.77	150.16	33.25	230.35	23.90	59.20	237.23
39417	86.60	-7.26	1.75	53.63	43.51	248.21	27.54	220.17	240.35	145.01	35.01	222.79	25.52	64.66	239.63
39418	87.69	-7.26	1.75	54.98	46.67	260.37	31.34	210.57	242.74	140.98	37.36	216.35	28.18	72.65	241.85
39419	88.78	-7.26	1.75	56.46	50.00	272.85	35.49	200.50	245.02	137.57	40.22	212.62	31.69	83.07	243.98
39420	89.87	-7.26	1.75	58.01	53.47	285.78	39.93	190.36	247.32	134.10	43.47	214.08	35.90	95.70	246.15
39421	90.95	-7.26	1.75	59.46	57.01	299.66	44.60	180.62	249.75	129.61	46.98	224.10	40.72	110.17	248.52
39422	92.04	-7.26	1.75	60.53	60.53	315.41	49.27	171.67	252.48	122.65	50.47	246.65	46.05	125.75	251.28
39423	93.13	-7.26	1.75	60.51	63.86	334.49	53.49	163.46	255.52	111.02	53.46	285.28	51.63	140.56	254.47
39424	94.22	-7.27	1.75	58.15	66.72	356.28	56.61	153.99	258.22	91.93	54.71	338.00	57.08	149.33	257.58
39425	95.30	-7.27	1.75	56.05	69.70	378.18	59.82	142.46	260.60	74.59	56.61	397.27	62.16	150.75	260.83
39426	96.39	-7.27	1.75	54.10	72.39	398.23	62.86	132.42	262.55	57.43	58.14	456.34	66.81	151.77	264.11
39427	97.48	-7.27	1.75	51.38	74.83	418.56	65.57	122.83	264.02	42.56	59.14	525.04	71.63	152.42	267.39
39428	98.57	-7.27	1.75	48.86	76.97	439.07	67.97	113.66	265.00	29.61	59.64	593.51	76.51	152.81	270.67
39429	99.66	-7.27	1.75	46.51	78.78	460.00	69.60	105.44	265.56	21.54	59.64	661.00	81.39	152.81	273.95
39430	100.75	-7.27	1.75	44.30	80.31	481.49	70.44	98.20	265.81	13.47	59.64	728.49	86.17	152.81	277.23
39431	101.84	-7.27	1.75	42.22	81.57	503.56	70.44	91.04	265.81	5.40	59.64	795.98	90.95	152.81	280.51
39432	102.93	-7.27	1.75	40.26	82.57	526.33	69.60	83.88	265.56	-2.57	59.64	863.47	95.73	152.81	283.79
39433	104.02	-7.27	1.75	38.41	83.33	549.83	67.97	76.72	265.00	-10.34	59.64	930.96	100.51	152.81	287.07
39434	105.11	-7.27	1.75	36.66	83.83	574.07	65.57	69.60	264.02	-17.27	59.64	998.45	105.29	152.81	290.35
39435	106.20	-7.27	1.75	35.00	84.07	599.07	62.86	62.42	262.55	-24.20	59.64	1065.94	110.07	152.81	293.63
39436	107.29	-7.27	1.75	33.43	84.07	624.83	59.82	55.26	260.60	-31.13	59.64	1133.43	114.85	152.81	296.91
39437	108.38	-7.27	1.75	31.94	83.83	651.36	56.57	48.10	258.22	-38.06	59.64	1200.92	119.63	152.81	300.19
39438	109.47	-7.27	1.75	30.52	83.33	678.67	53.11	41.04	255.52	-45.00	59.64	1268.41	124.41	152.81	303.47
39439	110.56	-7.27	1.75	29.16	82.57	706.77	49.60	34.08	252.48	-51.93	59.64	1335.90	129.19	152.81	306.75
39440	111.65	-7.27	1.75	27.85	81.57	735.67	46.20	27.22	249.75	-58.86	59.64	1403.39	133.97	152.81	310.03
39441	112.74	-7.27	1.75	26.58	80.31	765.38	42.81	20.46	247.32	-65.79	59.64	1470.88	138.75	152.81	313.31
39442	113.83	-7.27	1.75	25.35	78.78	795.90	39.42	13.70	245.02	-72.72	59.64	1538.37	143.53	152.81	316.59
39443	114.92	-7.27	1.75	24.16	76.97	827.23	36.03	7.04	242.74	-79.65	59.64	1605.86	148.31	152.81	319.87
39444	116.01	-7.27	1.75	23.00	74.83	859.38	32.64	0.48	240.34	-86.58	59.64	1673.35	153.09	152.81	323.15
39445	117.10	-7.27	1.75	21.87	72.39	892.33	29.25	-6.08	237.77	-93.51	59.64	1740.84	157.87	152.81	326.43
39446	118.19	-7.27	1.75	20.77	69.60	926.07	25.86	-12.72	235.00	-100.44	59.64	1808.33	162.65	152.81	329.71
39447	119.28	-7.27	1.75	19.69	66.57	960.60	22.47	-19.46	232.55	-107.37	59.64	1875.82	167.43	152.81	332.99
39448	120.37	-7.27	1.75	18.64	63.33	995.93	19.08	-26.20	230.34	-114.30	59.64	1943.31	172.21	152.81	336.27
39449	121.46	-7.27	1.75	17.61	60.00	1032.06	15.69	-32.94	228.22	-121.23	59.64	2010.80	176.99	152.81	339.55
39450	122.55	-7.27	1.75	16.60	56.57	1068.99	12.30	-39.68	226.17	-128.16	59.64	2078.29	181.77	152.81	342.83
39451	123.64	-7.27	1.75	15.61	53.00	1106.73	8.91	-46.42	224.17	-135.09	59.64	2145.78	186.55	152.81	346.11
39452	124.73	-7.27	1.75	14.64	49.31	1145.27	5.52	-53.16	222.17	-142.02	59.64	2213.27	191.33	152.81	349.39
39453	125.82	-7.27	1.75	13.69	45.52	1184.61	2.13	-59.80	220.17	-148.95	59.64	2280.76	196.11	152.81	352.67
39454	126.91	-7.27	1.75	12.76	41.63	1224.75	-1.26	-66.44	218.17	-155.88	59.64	2348.25	200.89	152.81	355.95
39455	128.00	-7.27	1.75	11.85	37.64	1265.69	-4.65	-73.08	216.17	-162.81	59.64	2415.74	205.67	152.81	359.23
39456	129.09	-7.27	1.75	10.96	33.55	1307.43	-8.04	-79.72	214.17	-169.74	59.64	2483.23	210.45	152.81	362.51
39457	130.18	-7.27	1.75	10.09	29.36	1349.97	-11.43	-86.36	212.17	-176.67	59.64	2550.72	215.23	152.81	365.79
39458	131.27	-7.27	1.75	9.24	25.17	1393.31	-14.82	-93.00	210.17	-183.60	59.64	2618.21	220.01	152.81	369.07
39459	132.36	-7.27	1.75	8.41	20.98	1437.45	-18.21	-99.64	208.17	-190.53	59.64	2685.70	224.79	152.81	372.35
39460	133.45	-7.27	1.75	7.60	16.79	1482.39	-21.60	-106.28	206.17	-197.46	59.64	2753.19	229.57	152.81	375.63
39461	134.54	-7.27	1.75	6.81	12.60	1528.13	-25.00	-112.92	204.17	-204.39	59.64	2820.68	234.35	152.81	378.91
39462	135.63	-7.27	1.75	6.04	8.41	1574.27	-28.40	-119.56	202.17	-211.32	59.64	2888.17	239.13	152.81	382.19
39463	136.72	-7.27	1.75	5.29	4.22	1621.21	-31.80	-126.20	200.17	-218.25	59.64	2955.66	243.91	152.81	385.47
39464	137.81	-7.27	1.75	4.56	0.03	1668.95	-35.20	-132.84	198.17	-225.18	59.64	3023.15	248.69	152.81	388.75
39465	138.90	-7.27	1.75	3.84	-4.16	1717.49	-38.60	-139.48	196.17	-232.11	59.64	3090.64	253.47	152.81	392.03
39466	140.00	-7.27	1.75	3.13	-8.37	1766.83	-42.00	-146.12	194.17	-239.04	59.64	3158.13	258.25	152.81	395.31
39467															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39495	84.71	-6.16	0.25	43.98	33.35	243.20	19.98	256.16	253.95	127.71	27.71	250.06	23.42	56.65	253.83
39496	85.85	-6.16	0.25	45.14	36.23	257.25	23.68	246.23	256.01	124.67	30.22	242.59	25.28	56.14	255.74
39497	86.98	-6.17	0.25	46.78	39.40	271.59	27.78	234.88	257.70	123.74	33.27	234.78	28.07	57.41	257.26
39498	88.12	-6.17	0.25	48.86	42.85	285.79	32.28	222.35	259.06	124.58	36.85	227.46	31.63	61.44	258.44
39499	89.26	-6.17	0.25	51.38	46.58	299.56	37.23	209.02	260.17	126.85	40.98	222.18	35.90	69.00	259.40
39500	90.40	-6.17	0.25	54.39	50.61	312.85	42.72	195.46	261.21	130.12	45.71	221.51	40.88	80.60	260.31
39501	91.54	-6.18	0.25	58.00	54.95	326.07	48.83	182.57	262.49	133.84	51.13	229.48	46.63	96.59	261.51
39502	92.67	-6.18	0.25	62.29	59.58	340.44	55.57	171.68	264.59	136.93	57.33	251.87	53.19	117.46	263.61
39503	93.81	-6.18	0.25	66.83	64.36	358.90	62.67	164.57	268.56	136.75	64.26	296.33	60.43	143.70	267.68
39504	94.95	-6.18	0.25	69.11	68.65	390.85	68.83	162.98	276.13	125.92	71.71	377.98	67.55	173.91	275.47
39505	96.09	-6.19	0.25	53.65	68.95	431.81	65.79	150.23	282.00	72.69	68.36	479.13	68.75	169.90	282.04
39506	79.03	-5.05	0.25	46.96	22.89	185.29	8.57	283.78	243.39	190.67	23.51	262.12	27.15	61.19	243.65
39507	80.19	-5.05	0.25	44.03	23.86	189.70	9.01	282.16	247.37	170.45	22.58	260.58	23.88	61.43	247.60
39508	81.35	-5.06	0.25	41.95	25.30	197.63	10.61	278.70	251.04	154.38	22.38	257.54	21.67	60.66	251.22
39509	82.51	-5.06	0.25	40.67	27.14	208.47	13.11	273.41	254.36	142.05	22.95	253.14	20.71	59.04	254.47
39510	83.67	-5.06	0.25	40.12	29.33	221.51	16.24	266.30	257.29	133.06	24.23	247.53	21.06	56.87	257.31
39511	84.82	-5.06	0.25	40.26	31.84	236.00	19.81	257.43	259.78	127.05	26.18	240.85	22.62	54.62	259.71
39512	85.98	-5.06	0.25	41.02	34.63	251.25	23.74	246.87	261.84	123.65	28.71	233.37	25.15	53.02	261.66
39513	87.14	-5.07	0.25	42.34	37.70	266.66	28.00	234.75	263.44	122.51	31.77	225.58	28.45	53.13	263.15
39514	88.30	-5.07	0.25	44.16	41.05	281.76	32.62	221.31	264.64	123.28	35.35	218.38	32.39	56.18	264.23
39515	89.46	-5.07	0.25	46.49	44.66	296.22	37.66	206.92	265.52	125.59	39.48	213.44	36.94	63.20	264.99
39516	90.62	-5.07	0.25	49.38	48.56	309.97	43.24	192.17	266.23	129.00	44.22	213.57	42.14	74.76	265.61
39517	91.78	-5.07	0.25	52.94	52.75	323.33	49.46	178.00	267.08	132.90	49.67	223.10	48.10	91.19	266.40
39518	92.94	-5.08	0.25	57.30	57.22	337.50	56.38	165.87	268.67	136.21	55.99	248.03	54.88	112.90	267.99
39519	94.10	-5.08	0.25	62.08	61.87	355.36	63.86	157.79	272.07	136.17	63.24	296.06	62.42	140.44	271.46
39520	95.26	-5.08	0.25	64.75	66.25	386.66	70.64	156.03	279.19	125.05	71.56	383.14	69.83	172.69	278.73
39521	96.41	-5.08	0.25	68.34	70.61	428.17	78.10	142.87	285.45	67.73	70.03	491.72	70.24	167.92	285.48
39522	79.04	-3.95	0.25	46.57	22.03	174.62	6.56	286.09	247.57	194.24	22.43	254.31	21.74	60.95	247.74
39523	80.21	-3.95	0.25	43.03	22.96	179.60	7.43	284.36	251.72	172.80	21.46	252.86	19.32	61.26	251.88
39524	81.39	-3.95	0.25	40.35	24.35	188.40	9.60	280.73	255.55	155.74	21.24	249.87	18.04	60.39	255.67
39525	82.57	-3.95	0.25	38.48	26.12	200.30	12.57	275.19	259.00	142.61	21.79	245.50	18.09	58.51	259.08
39526	83.74	-3.95	0.25	37.38	28.25	214.46	16.05	267.77	262.02	133.00	23.09	239.89	19.43	55.85	262.05
39527	84.92	-3.95	0.25	37.03	30.68	230.05	19.86	258.48	264.57	126.54	25.05	233.20	21.81	52.85	264.54
39528	86.09	-3.96	0.25	37.36	33.39	246.33	23.96	247.41	266.63	122.83	27.60	225.72	24.97	50.27	266.53
39529	87.27	-3.96	0.25	38.33	36.38	262.66	28.34	234.66	268.19	121.51	30.67	217.95	28.73	49.26	268.02
39530	88.45	-3.96	0.25	39.89	39.64	278.54	33.03	220.46	269.28	122.22	34.26	210.86	32.99	51.33	269.03
39531	89.62	-3.96	0.25	42.02	43.16	293.60	38.13	205.17	269.96	124.55	38.38	206.23	37.77	57.81	269.64
39532	90.80	-3.96	0.25	44.78	46.95	307.73	43.75	189.40	270.41	128.05	43.12	207.10	43.15	69.39	270.03
39533	91.97	-3.96	0.25	48.30	51.00	321.24	50.03	174.12	270.92	132.10	48.60	218.03	49.26	86.26	270.50
39534	93.15	-3.96	0.25	52.72	55.31	335.26	57.09	160.88	272.07	135.57	55.01	245.17	56.23	108.78	271.65
39535	94.33	-3.96	0.25	57.71	59.80	352.65	64.84	151.93	274.97	135.63	62.49	296.22	64.00	137.50	274.59
39536	95.50	-3.96	0.25	60.70	64.17	383.37	72.15	149.96	281.64	124.22	71.48	387.77	71.68	171.49	281.36
39537	96.68	-3.96	0.25	63.41	68.38	425.25	80.10	136.62	288.37	63.42	71.51	502.48	71.47	166.27	288.38
39538	79.02	-7.25	-1.25	40.94	20.36	233.75	9.90	299.49	247.38	120.14	20.12	299.51	29.53	64.60	248.24
39539	80.16	-7.25	-1.25	40.25	21.51	237.38	10.02	297.76	250.45	108.02	21.15	299.04	26.55	67.32	251.19
39540	81.29	-7.25	-1.25	40.20	23.18	244.38	11.26	294.27	253.24	99.18	22.68	297.15	24.03	68.90	253.83
39541	82.43	-7.25	-1.25	40.74	25.29	254.29	13.46	289.00	255.70	93.38	24.63	293.92	22.95	69.41	256.13
39542	83.57	-7.25	-1.25	41.82	27.78	266.48	16.35	281.95	257.81	90.38	26.93	289.43	23.06	68.99	258.03
39543	84.71	-7.26	-1.25	43.41	30.61	280.26	19.75	273.14	259.51	89.92	29.57	283.74	24.27	67.86	259.51
39544	85.85	-7.26	-1.25	45.49	33.77	294.95	23.55	262.61	260.79	91.76	32.53	276.98	26.41	66.43	260.55
39545	86.98	-7.26	-1.25	48.05	37.26	309.88	27.74	250.46	261.62	95.70	35.86	269.40	29.33	65.32	261.11
39546	88.12	-7.26	-1.25	51.10	41.11	324.47	32.36	236.86	262.01	101.59	39.64	261.55	32.95	65.45	261.23
39547	89.26	-7.26	-1.25	54.70	45.40	338.24	37.53	222.11	261.99	109.40	44.01	254.46	37.28	68.01	260.94
39548	90.40	-7.26	-1.25	59.03	50.21	350.85	43.46	206.70	261.70	119.22	49.19	250.03	42.47	74.28	260.41
39549	91.54	-7.26	-1.25	64.48	55.71	362.30	50.47	191.48	261.40	131.41	55.54	251.49	48.80	85.49	259.95
39550	92.67	-7.26	-1.25	71.90	62.23	373.23	59.06	177.89	261.73	146.82	63.72	263.98	56.78	103.00	260.22
39551	93.81	-7.26	-1.25	82.97	70.49	386.25	69.98	168.70	264.28	167.22	74.99	295.90	67.17	129.69	262.92
39552	94.95	-7.26	-1.25	100.72	81.97	407.75	84.78	170.12	273.90	195.85	91.69	361.40	81.61	173.67	272.95
39553	96.09	-7.27	-1.25	130.90	104.33	514.21	108.94	211.60	318.69	235.47	128.79	579.16	106.69	274.74	318.49
39554	79.03	-6.15	-1.25	39.57	18.93	218.61	7.95	303.64	253.94	122.06	18.97	287.11	25.94	64.39	254.65
39555	80.19	-6.15	-1.25	38.15	20.05	222.87	8.39	301.76	257.22	108.51	20.11	286.89	23.17	67.47	257.83
39556	81.36	-6.16	-1.25	37.44	21.66	230.92	10.18	298.03	260.20	98.50	21.73	285.18	21.51	69.24	260.69
39557	82.52	-6.16	-1.25	37.36	23.69	242.15	12.92	292.44	262.82	91.79	23.72	282.10	21.10	69.72	263.18
39558	83.68	-6.16	-1.25	37.88	26.07	255.82	16.24	284.97	265.06	88.11	26.03	277.72	21.91	69.03	265.26
39559	84.84	-6.16	-1.25	38.98	28.78	271.13	19.96	275.63	266.84	87.18	28.63	272.12	23.78	67.35	266.87
39560	86.01	-6.16	-1.25	40.63	31.81	287.32	23.98	264.43	268.14	88.75	31.52	265.44	26.46	65.06	267.99
39561	87.17	-6.17	-1.25	42.84	35.15	303.65	28.32	251.45	268.91	92.58	34.74	257.96	29.82	62.78	268.56
39562	88.33	-6.17	-1.25	45.59	38.84	319.48	33.03	236.85	269.15	98.53	38.39	250.26	33.76	61.52	268.60
39563	89.50	-6.17	-1.25	48.95	42.93	334.28	38.25	220.90	268.88	106.52	42.58	243.49	38.34	62.72	268.13
39564	90.66	-6.17	-1.25	53.08	47.48	347.64	44.20	204.12	268.21	116.62	47.53	239.75	43.73	68.05	267.27
39565	91.82	-6.18	-1.25	58.36	52.63	359.50	51.22	187.36	267.37	12					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39593	87.45	-3.96	-1.25	33.40	32.08	293.92	29.74	253.05	280.39	87.71	33.44	239.53	30.54	58.56	280.26
39594	88.65	-3.96	-1.25	35.45	35.54	311.81	34.55	236.88	280.46	93.70	36.90	232.09	35.01	54.63	280.24
39595	89.85	-3.96	-1.25	38.28	39.35	328.32	39.79	219.02	279.85	101.95	40.86	225.91	39.98	52.98	279.54
39596	91.05	-3.96	-1.25	42.01	43.54	342.98	45.70	199.96	278.63	112.47	45.51	223.47	45.65	56.23	278.24
39597	92.25	-3.96	-1.25	47.01	48.19	355.57	52.67	180.58	277.00	125.57	51.18	228.88	52.40	66.70	276.55
39598	93.45	-3.96	-1.25	54.16	53.41	366.44	61.30	162.50	275.51	142.07	58.44	248.16	60.82	85.79	275.03
39599	94.65	-3.96	-1.25	65.29	59.45	377.88	72.67	149.01	275.54	163.92	68.51	290.19	72.01	115.92	275.09
39600	95.85	-3.96	-1.25	83.70	67.05	394.65	88.99	147.23	281.30	195.03	83.58	367.34	88.20	165.38	280.98
39601	97.05	-3.96	-1.25	112.89	80.95	494.99	119.61	190.95	322.37	235.38	122.17	615.77	119.10	281.39	322.32
39602	61.60	-7.27	1.75	331.19	146.80	355.46	53.28	198.83	242.77	1407.55	338.52	922.91	104.16	197.96	252.19
39603	62.69	-7.27	1.75	345.89	182.56	330.80	27.42	199.47	163.36	1595.55	430.75	893.73	25.56	235.61	203.07
39604	63.77	-7.26	1.75	315.91	132.15	308.11	22.68	181.29	157.45	1540.15	230.39	604.96	73.03	210.31	212.29
39605	64.86	-7.26	1.75	269.87	91.97	289.50	31.40	169.74	161.25	1365.94	100.68	365.20	129.69	134.99	190.96
39606	65.95	-7.26	1.75	224.08	71.16	276.81	35.49	168.83	165.45	1165.30	58.73	236.25	155.87	70.35	178.93
39607	67.03	-7.26	1.75	186.00	59.49	266.87	35.58	175.31	169.33	984.37	53.11	190.37	158.87	43.45	175.41
39608	68.12	-7.26	1.75	156.14	51.81	257.78	33.83	185.38	173.23	833.79	53.77	189.27	150.40	48.74	175.87
39609	69.21	-7.26	1.75	132.93	46.13	248.69	31.46	196.71	177.30	710.98	54.09	203.30	137.35	59.11	178.26
39610	70.30	-7.26	1.75	114.78	41.63	239.37	28.99	208.04	181.52	610.83	53.49	219.50	122.99	66.34	181.68
39611	71.38	-7.26	1.75	100.43	37.93	229.91	26.64	218.71	185.87	528.55	52.19	233.86	108.89	70.41	185.68
39612	72.47	-7.26	1.75	88.94	34.89	220.60	24.47	228.32	190.32	460.33	50.37	245.44	95.72	72.20	190.03
39613	73.56	-7.25	1.75	79.67	32.43	211.81	22.48	236.64	194.81	403.32	48.18	254.22	83.71	72.43	194.55
39614	74.64	-7.25	1.75	72.17	30.55	203.99	20.67	243.52	199.34	355.39	45.74	260.43	72.91	71.60	199.15
39615	75.73	-7.25	1.75	66.13	29.25	197.60	19.02	248.91	203.86	314.93	43.19	264.34	63.29	70.03	203.76
39616	76.82	-7.25	1.75	61.33	28.55	193.10	17.58	252.74	208.33	280.72	40.63	266.21	54.76	67.95	208.31
39617	77.91	-7.25	1.75	57.60	28.44	190.83	16.40	255.01	212.72	251.83	38.19	266.27	47.26	65.52	212.75
39618	61.20	-6.19	1.74	257.05	122.41	381.43	78.43	211.91	293.07	940.06	203.38	990.96	185.68	343.31	294.12
39619	62.31	-6.19	1.74	295.00	157.44	327.95	58.93	196.25	187.01	1311.76	389.78	986.43	132.90	309.40	211.73
39620	63.43	-6.18	1.74	297.60	141.96	301.96	26.54	179.68	161.06	1450.06	308.68	684.35	65.15	254.60	214.08
39621	64.54	-6.18	1.75	271.88	106.12	282.63	19.69	169.44	159.78	1385.33	168.45	410.99	64.70	172.82	196.44
39622	65.65	-6.18	1.75	235.55	79.95	269.91	22.86	168.55	164.03	1231.04	83.86	250.88	88.75	98.41	181.69
39623	66.76	-6.18	1.75	199.85	63.83	259.93	25.15	174.84	169.01	1060.51	52.46	183.07	105.54	52.26	176.56
39624	67.88	-6.17	1.75	169.23	53.60	250.63	25.71	185.05	173.98	904.92	48.48	173.56	110.93	41.66	176.99
39625	68.99	-6.17	1.75	144.24	46.54	241.12	25.09	196.77	178.91	772.29	50.21	186.87	108.36	50.33	179.93
39626	70.10	-6.17	1.75	124.15	41.27	231.18	23.85	208.61	183.84	661.79	51.26	204.34	101.39	59.54	184.00
39627	71.22	-6.17	1.75	107.97	37.15	220.94	22.34	219.80	188.78	570.12	50.98	220.09	92.38	65.73	188.61
39628	72.33	-6.16	1.75	94.86	33.84	210.74	20.72	229.87	193.72	493.88	49.69	232.81	82.74	69.23	193.48
39629	73.44	-6.16	1.75	84.17	31.22	201.02	19.10	238.58	198.67	430.16	47.69	242.44	73.24	70.73	198.45
39630	74.55	-6.16	1.75	75.41	29.24	192.32	17.51	245.77	203.60	376.68	45.23	249.28	64.28	70.81	203.46
39631	75.67	-6.16	1.75	68.24	27.87	185.20	16.01	251.37	208.49	331.66	42.53	253.64	56.03	69.86	208.43
39632	76.78	-6.15	1.75	62.41	27.12	180.21	14.64	255.32	213.31	293.71	39.76	255.83	48.58	68.13	213.31
39633	77.89	-6.15	1.75	57.74	26.97	177.79	13.54	257.61	218.01	261.76	37.07	256.09	41.95	65.83	218.06
39634	60.86	-5.09	1.74	268.88	129.82	390.54	82.26	208.07	322.84	967.22	223.21	1097.58	208.94	322.96	320.00
39635	62.00	-5.08	1.74	313.56	139.78	327.51	88.02	195.27	202.46	1340.78	324.71	1071.79	273.09	329.44	233.62
39636	63.13	-5.08	1.74	301.69	128.61	296.68	44.22	177.00	169.10	1444.44	288.54	743.95	131.26	275.95	216.05
39637	64.27	-5.08	1.75	273.63	108.26	276.74	20.90	167.35	162.39	1390.44	199.87	447.73	63.62	190.92	196.95
39638	65.40	-5.08	1.75	240.27	85.72	264.14	16.16	167.20	164.65	1258.72	116.07	266.25	55.87	114.89	182.69
39639	66.54	-5.07	1.75	207.09	68.48	254.21	17.45	174.00	169.49	1102.27	65.34	179.69	66.54	63.21	177.40
39640	67.67	-5.07	1.75	177.32	56.45	244.71	18.79	184.63	174.91	950.68	46.41	160.55	75.89	41.79	178.02
39641	68.81	-5.07	1.75	152.06	48.00	234.78	19.26	196.81	180.40	815.91	44.97	172.38	79.54	45.36	181.45
39642	69.94	-5.07	1.75	131.13	41.79	224.23	18.99	209.13	185.86	700.51	47.13	190.94	78.29	54.66	186.07
39643	71.08	-5.07	1.75	113.92	37.06	213.22	18.22	220.76	191.27	603.14	48.33	208.05	73.88	62.03	191.17
39644	72.21	-5.06	1.75	99.75	33.37	202.14	17.15	231.23	196.63	521.34	48.08	221.86	67.76	66.70	196.46
39645	73.34	-5.06	1.75	88.04	30.50	191.52	15.89	240.27	201.95	452.59	46.68	232.31	60.93	69.18	201.79
39646	74.48	-5.06	1.75	78.32	28.36	181.96	14.54	247.72	207.22	394.72	44.51	239.73	54.01	69.98	207.12
39647	75.61	-5.06	1.75	70.24	26.90	174.12	13.17	253.49	212.42	345.96	41.87	244.51	47.37	69.54	212.38
39648	76.75	-5.05	1.75	63.56	26.08	168.66	11.89	257.54	217.52	304.87	39.03	246.98	41.20	68.12	217.54
39649	77.88	-5.05	1.75	58.08	25.89	166.10	10.86	259.85	222.50	270.31	36.19	247.44	35.63	65.94	222.54
39650	60.59	-3.97	1.75	406.53	186.40	377.64	155.18	205.15	347.07	1533.22	376.07	1230.54	501.01	191.91	347.46
39651	61.75	-3.96	1.75	379.35	110.86	321.46	89.24	186.48	208.36	1612.63	218.62	1130.01	293.18	283.94	234.77
39652	62.90	-3.96	1.75	327.02	111.78	291.86	48.05	173.30	175.76	1542.82	232.29	785.83	140.56	273.60	211.73
39653	64.05	-3.96	1.75	283.23	101.96	271.90	24.40	164.84	166.27	1426.98	192.93	474.70	66.55	196.24	192.47
39654	65.20	-3.96	1.75	245.12	86.43	259.49	13.48	165.47	166.58	1281.26	132.43	279.33	41.93	121.98	180.91
39655	66.35	-3.96	1.75	211.51	71.22	249.62	11.94	172.93	170.67	1126.75	81.28	178.70	42.59	69.90	177.22
39656	67.51	-3.96	1.75	182.16	59.00	239.96	13.26	184.12	176.05	978.46	51.45	150.27	49.64	44.24	178.69
39657	68.66	-3.96	1.75	157.07	49.75	229.65	14.36	196.78	181.79	844.51	42.09	160.13	54.96	43.38	182.70
39658	69.81	-3.96	1.75	135.94	42.77	218.53	14.77	209.53	187.59	727.64	42.87	179.56	56.75	51.71	187.79
39659	70.96	-3.96	1.75	118.26	37.43	206.83	14.58	221.55	193.33	627.47	45.01	197.90	55.50	59.46	193.29
39660	72.11	-3.96	1.75	103.48	33.31	194.96	13.94	232.35	199.01	542.32	45.87	212.73	52.20	64.81	198.90
39661	73.27	-3.95	1.75	91.10	30.16	183.50	12.99	241.66	204.62	470.17	45.28	223.92	47.75	67.92	204.52
39662	74.42	-3.95	1.75	80.71	27.83	173.14	11.82	249.32	210.15	409.12	43.59	231.8			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39691	71.06	-6.17	0.24	94.63	34.36	251.54	20.60	243.60	207.05	474.11	40.59	225.83	80.60	38.36	206.50
39692	72.19	-6.16	0.24	83.43	30.87	238.78	19.13	253.54	211.81	410.45	38.38	239.96	72.40	39.37	211.50
39693	73.33	-6.16	0.24	74.09	28.11	226.65	17.56	262.19	216.50	355.98	35.88	251.47	64.20	44.48	216.42
39694	74.47	-6.16	0.25	66.34	26.02	215.80	15.92	269.33	221.11	309.59	33.28	260.18	56.40	49.96	221.20
39695	75.61	-6.16	0.25	59.98	24.57	206.90	14.29	274.82	225.61	270.25	30.74	266.26	49.20	54.56	225.84
39696	76.74	-6.15	0.25	54.82	23.78	200.61	12.75	278.60	229.99	237.07	28.41	270.00	42.71	57.97	230.29
39697	77.88	-6.15	0.25	50.74	23.63	197.44	11.49	280.64	234.21	209.32	26.44	271.70	36.97	60.21	234.55
39698	60.49	-5.09	0.23	25.95	117.49	316.21	38.27	95.70	246.00	66.39	97.60	674.09	147.56	329.58	290.22
39699	61.65	-5.09	0.23	105.85	133.41	347.02	72.43	151.79	236.30	575.67	182.57	926.84	273.74	155.66	239.49
39700	62.81	-5.08	0.23	159.80	121.30	332.88	39.23	182.26	200.32	807.03	185.55	780.84	163.82	148.08	214.60
39701	63.97	-5.08	0.24	178.70	102.92	319.41	19.60	193.08	186.91	901.77	146.14	568.35	90.52	209.53	205.48
39702	65.13	-5.08	0.24	176.72	82.28	306.93	15.93	197.88	185.69	899.38	94.44	382.53	66.87	202.73	197.05
39703	66.28	-5.08	0.24	163.75	65.81	295.33	16.93	203.75	189.16	839.01	59.25	259.11	65.45	164.20	193.62
39704	67.44	-5.07	0.24	146.70	53.87	283.55	17.98	212.40	194.13	753.37	43.46	198.67	68.60	120.61	195.14
39705	68.60	-5.07	0.24	129.37	45.27	271.03	18.40	223.05	199.49	662.59	39.28	185.70	69.96	83.37	199.27
39706	69.76	-5.07	0.24	113.44	38.89	257.73	18.21	234.46	204.86	576.63	38.49	195.71	68.41	56.46	204.40
39707	70.92	-5.07	0.24	99.47	33.98	243.92	17.53	245.61	210.14	499.41	37.71	211.77	64.55	41.74	209.77
39708	72.08	-5.06	0.24	87.48	30.16	230.08	16.49	255.84	215.31	431.85	36.26	227.07	59.30	38.80	215.11
39709	73.24	-5.06	0.24	77.30	27.19	216.84	15.18	264.74	220.35	373.56	34.24	239.64	53.39	42.66	220.32
39710	74.39	-5.06	0.25	68.73	24.97	204.92	13.68	272.06	225.27	323.68	31.89	249.16	47.37	48.23	225.37
39711	75.55	-5.06	0.25	61.56	23.46	195.13	12.07	277.69	230.05	281.27	29.44	255.85	41.54	53.29	230.25
39712	76.71	-5.05	0.25	55.63	22.64	188.21	10.50	281.53	234.69	245.47	27.10	260.02	36.14	57.19	234.93
39713	77.87	-5.05	0.25	50.80	22.46	184.80	9.20	283.57	239.15	215.50	25.07	262.01	31.29	59.81	239.41
39714	60.22	-3.97	0.24	179.97	190.98	334.21	134.99	145.41	302.66	734.63	279.55	857.85	497.89	339.79	358.17
39715	61.40	-3.96	0.24	200.49	89.88	341.58	82.08	170.10	236.38	882.22	78.11	981.28	300.05	143.76	236.25
39716	62.58	-3.96	0.24	193.45	96.37	328.67	42.86	185.24	205.83	919.04	115.18	825.34	170.51	166.77	213.15
39717	63.75	-3.96	0.24	189.23	92.82	315.16	21.50	192.35	192.03	939.42	124.17	599.76	93.49	220.79	203.41
39718	64.93	-3.96	0.24	180.43	80.87	302.77	12.85	196.99	188.96	916.53	99.39	402.04	57.51	213.15	197.32
39719	66.10	-3.96	0.24	166.55	67.34	291.16	12.45	203.51	191.33	855.11	68.77	266.49	47.48	175.72	195.23
39720	67.28	-3.96	0.25	149.99	55.71	279.13	13.90	212.77	195.99	772.30	47.51	194.56	47.74	132.18	197.16
39721	68.46	-3.96	0.25	133.08	46.58	266.13	14.95	223.90	201.45	683.19	37.94	174.73	49.71	93.53	201.49
39722	69.63	-3.96	0.25	117.21	39.55	252.14	15.34	235.69	207.08	597.01	35.40	183.11	50.27	64.07	206.83
39723	70.81	-3.96	0.25	102.99	34.12	237.49	15.12	247.16	212.67	518.20	34.82	199.80	48.88	45.82	212.44
39724	71.98	-3.96	0.25	90.56	29.91	222.72	14.39	257.66	218.13	448.31	34.03	216.18	45.94	39.51	218.01
39725	73.16	-3.95	0.25	79.86	26.68	208.50	13.27	266.77	223.45	387.43	32.57	229.72	42.03	41.72	223.44
39726	74.33	-3.95	0.25	70.72	24.31	195.64	11.83	274.26	228.61	335.00	30.58	239.98	37.66	46.99	228.69
39727	75.51	-3.95	0.25	62.96	22.71	185.03	10.19	279.99	233.63	290.24	28.32	247.21	33.20	52.25	233.77
39728	76.69	-3.95	0.25	56.44	21.84	177.55	8.51	283.90	238.48	252.34	26.05	251.77	28.91	56.48	238.65
39729	77.86	-3.95	0.25	51.01	21.63	173.94	7.10	285.94	243.14	220.57	24.02	254.03	25.02	59.38	243.32
39730	60.82	-7.27	-1.26	92.33	160.36	341.00	83.85	124.77	219.04	691.07	161.73	636.30	85.16	443.70	261.63
39731	61.95	-7.27	-1.26	98.69	144.62	357.94	50.73	155.15	184.22	620.89	140.44	566.16	55.67	236.59	273.33
39732	63.09	-7.27	-1.26	111.62	111.34	369.80	31.24	186.06	189.16	584.51	104.62	568.99	62.86	111.23	241.08
39733	64.23	-7.26	-1.26	117.79	83.71	366.49	25.73	202.44	194.06	570.48	69.40	483.15	85.41	141.90	212.96
39734	65.37	-7.26	-1.26	115.43	66.06	358.36	25.76	212.12	198.74	546.27	53.13	380.44	97.94	158.23	202.82
39735	66.50	-7.26	-1.26	107.96	54.41	347.85	25.72	221.02	203.25	507.72	45.79	299.77	100.86	144.23	202.52
39736	67.64	-7.26	-1.26	98.33	46.12	335.82	24.97	231.06	207.68	460.24	41.08	254.20	97.82	117.38	206.06
39737	68.78	-7.26	-1.26	88.31	39.83	322.60	23.78	242.06	212.06	409.89	37.07	238.98	91.45	89.03	210.80
39738	69.92	-7.26	-1.26	78.85	34.81	308.53	22.37	253.29	216.40	360.81	33.40	241.86	83.45	64.71	215.75
39739	71.06	-7.26	-1.26	70.38	30.67	294.07	20.84	264.02	220.68	315.20	30.05	252.26	74.92	47.33	220.59
39740	72.19	-7.26	-1.25	63.03	27.24	279.77	19.22	273.75	224.88	274.02	27.07	264.24	66.49	38.84	225.23
39741	73.33	-7.26	-1.25	56.82	24.44	266.27	17.52	282.13	228.98	237.53	24.49	275.20	58.53	38.86	229.64
39742	74.47	-7.25	-1.25	51.72	22.27	254.26	15.75	288.98	232.97	205.68	22.39	284.18	51.21	43.68	233.82
39743	75.61	-7.25	-1.25	47.66	20.76	244.44	13.94	294.18	236.83	178.26	20.85	290.97	44.61	49.86	237.78
39744	76.74	-7.25	-1.25	44.57	19.93	237.45	12.21	297.69	240.54	155.02	19.94	295.67	38.78	55.74	241.51
39745	77.88	-7.25	-1.25	42.36	19.81	233.78	10.75	299.46	244.06	135.73	19.70	298.44	33.73	60.73	245.00
39746	60.44	-6.19	-1.28	28.58	119.51	334.03	49.65	101.09	233.90	550.34	130.22	780.99	91.33	558.66	294.53
39747	61.60	-6.19	-1.28	42.85	142.90	338.12	29.29	119.21	206.37	486.10	123.08	566.80	82.64	308.34	234.60
39748	62.76	-6.19	-1.28	81.35	120.69	359.86	21.44	167.70	197.37	501.09	123.88	594.61	77.21	114.60	224.57
39749	63.92	-6.18	-1.27	105.67	92.39	361.01	20.14	196.87	196.42	533.27	86.99	520.81	71.89	139.61	213.05
39750	65.09	-6.18	-1.27	113.66	71.15	354.19	20.25	212.42	199.84	541.44	58.25	411.25	73.03	176.54	205.95
39751	66.25	-6.18	-1.27	111.19	56.70	343.62	20.60	223.45	204.82	521.04	43.74	315.02	75.21	170.09	205.55
39752	67.41	-6.18	-1.27	103.50	46.69	330.89	20.69	234.16	210.12	481.64	37.27	253.48	75.52	142.76	209.19
39753	68.57	-6.17	-1.27	93.84	39.41	316.63	20.38	245.42	215.32	433.35	33.54	227.45	73.30	110.45	214.37
39754	69.73	-6.17	-1.26	83.98	33.83	301.30	19.71	256.83	220.33	383.13	30.50	225.68	69.03	80.94	219.84
39755	70.90	-6.17	-1.26	74.76	29.39	285.44	18.71	267.75	225.15	334.90	27.65	235.19	63.47	57.84	225.14
39756	72.06	-6.16	-1.26	66.55	25.81	269.68	17.44	277.66	229.79	290.59	25.00	247.80	57.31	43.46	230.15
39757	73.22	-6.16	-1.26	59.47	22.95	254.73	15.91	286.20	234.25	250.96	22.63	259.76	51.03	39.00	234.86
39758	74.38	-6.16	-1.26	53.51	20.78	241.37	14.17	293.17	238.55	216.17	20.68	269.68	44.96	42.02	239.30
39759	75.54	-6.16	-1.25	48.61	19.28	230.40	12.29	298.45	242.68	186.13	19.26	277.24	39.29	48.09	243.50
39760	76.71	-6.15	-1.25	44.72	18.48	222.57	10.41	301.97	246.64	160.60	18.49	282.52	34.15	54.45	247.46
39761	77.87	-													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39789	73.05	-3.95	-1.25	63.75	21.39	235.67	14.19	292.21	242.13	271.45	20.16	234.46	34.19	43.15	242.45
39790	74.25	-3.95	-1.25	56.73	19.05	220.02	12.37	299.40	246.89	232.62	18.57	246.22	30.58	41.25	247.29
39791	75.45	-3.95	-1.25	50.73	17.50	207.07	10.21	304.82	251.45	198.71	17.44	255.26	26.84	45.74	251.87
39792	76.65	-3.95	-1.25	45.69	16.70	197.83	7.86	308.41	255.81	169.67	16.92	261.64	23.22	52.26	256.23
39793	77.85	-3.95	-1.25	41.54	16.59	193.15	5.69	310.11	259.96	145.32	17.06	265.63	19.98	58.53	260.35
39794	78.97	-8.70	1.75	56.43	31.62	209.65	19.65	251.93	208.44	216.60	38.49	280.14	45.11	62.29	208.46
39795	80.02	-8.70	1.75	55.64	32.62	211.62	19.22	251.36	212.16	199.31	37.03	276.99	38.87	60.18	212.14
39796	81.06	-8.70	1.75	55.24	34.08	215.58	19.30	249.42	215.74	184.91	35.99	272.61	33.56	58.66	215.65
39797	82.11	-8.70	1.75	55.44	35.95	221.36	19.97	246.18	219.16	173.08	35.43	267.12	29.24	58.04	218.94
39798	83.16	-8.70	1.75	56.05	38.17	228.70	21.27	241.69	222.39	163.51	35.42	260.69	26.00	58.70	222.02
39799	84.20	-8.70	1.75	57.01	40.67	237.34	23.18	236.06	225.45	155.90	35.98	253.53	24.01	61.01	224.88
39800	85.25	-8.70	1.75	58.23	43.44	246.98	25.63	229.40	228.33	149.95	37.12	245.95	23.40	65.25	227.55
39801	86.29	-8.70	1.75	59.67	46.42	257.40	28.56	221.89	231.08	145.32	38.81	238.48	24.16	71.56	230.07
39802	87.34	-8.70	1.75	61.25	49.58	268.45	31.89	213.75	233.75	141.63	40.99	231.95	26.14	79.95	232.51
39803	88.38	-8.70	1.75	62.93	52.91	280.10	35.55	205.28	236.39	138.42	43.59	227.71	29.11	90.32	234.95
39804	89.43	-8.70	1.75	64.53	56.30	292.56	39.48	196.79	239.08	135.02	46.43	227.82	32.89	102.51	237.50
39805	90.47	-8.70	1.75	66.00	59.69	306.26	43.58	188.63	241.95	130.74	49.39	235.14	37.40	116.21	240.30
39806	91.52	-8.70	1.75	67.05	62.91	322.06	47.60	181.09	245.02	124.21	52.09	253.12	42.50	130.77	243.43
39807	92.57	-8.70	1.75	67.04	65.89	341.12	51.24	173.83	248.15	113.46	54.11	284.89	48.21	144.62	246.78
39808	93.61	-8.70	1.75	65.31	68.35	362.06	53.65	165.39	250.63	97.23	54.28	328.59	53.96	153.35	249.80
39809	94.66	-8.70	1.75	64.08	71.02	382.42	56.01	155.81	251.39	83.49	55.21	378.27	58.76	157.19	251.61
39810	97.98	-8.70	1.75	55.67	30.38	201.71	17.93	253.56	212.13	221.27	37.35	273.41	43.55	62.61	212.16
39811	80.05	-8.10	1.75	54.35	31.37	203.98	17.54	252.87	216.01	202.68	35.72	270.31	37.52	60.27	216.01
39812	81.11	-8.10	1.75	53.69	32.83	208.40	17.74	250.75	219.71	187.24	34.53	265.95	32.45	58.36	219.65
39813	82.18	-8.10	1.75	53.59	34.70	214.76	18.59	247.24	223.21	174.60	33.85	260.44	28.40	57.23	223.05
39814	83.24	-8.10	1.75	53.97	36.90	222.76	20.09	242.41	226.50	164.40	33.76	253.97	25.50	57.31	226.19
39815	84.30	-8.10	1.75	54.74	39.41	232.06	22.22	236.36	229.57	156.33	34.28	246.75	23.89	59.03	229.08
39816	85.37	-8.10	1.75	55.82	42.16	242.35	24.90	229.21	232.42	150.04	35.41	239.10	23.67	62.77	231.74
39817	86.43	-8.10	1.75	57.14	45.14	253.34	28.04	221.13	235.10	145.19	37.14	231.57	24.79	68.74	234.21
39818	87.50	-8.10	1.75	58.64	48.32	264.85	31.59	212.37	237.64	141.36	39.40	225.06	27.06	76.97	236.55
39819	88.56	-8.10	1.75	60.22	51.65	276.85	35.48	203.21	240.14	138.04	42.11	221.01	30.26	87.36	238.86
39820	89.63	-8.10	1.75	61.82	55.10	289.50	39.65	194.02	242.67	134.64	45.16	221.67	34.24	99.74	241.26
39821	90.69	-8.10	1.75	63.30	58.56	303.27	44.00	185.20	245.36	130.24	48.37	230.13	38.88	113.77	243.89
39822	91.75	-8.10	1.75	64.34	61.94	319.07	48.35	177.05	248.30	123.48	51.44	250.06	44.12	128.77	246.86
39823	92.82	-8.10	1.75	64.37	65.10	338.13	52.21	169.42	251.42	112.47	53.87	284.82	49.75	142.97	250.18
39824	93.88	-8.10	1.75	62.40	67.76	359.47	54.82	160.55	253.88	95.07	54.48	332.47	55.25	151.74	253.13
39825	94.95	-8.10	1.75	60.60	70.45	380.48	57.57	149.84	255.19	79.50	55.67	386.31	60.18	154.26	255.43
39826	78.99	-8.70	0.25	50.93	28.67	231.81	16.93	272.44	222.63	174.28	30.18	299.44	40.51	61.11	223.00
39827	80.06	-8.70	0.25	50.49	29.73	234.20	16.61	271.40	225.85	159.98	29.58	297.37	35.31	61.23	226.17
39828	81.13	-8.70	0.25	50.64	31.31	238.94	16.93	268.85	228.90	148.66	29.57	293.97	31.07	61.10	229.12
39829	82.20	-8.70	0.25	51.33	33.34	245.79	17.95	264.82	231.75	140.05	30.20	289.37	27.84	60.95	231.81
39830	83.27	-8.70	0.25	52.47	35.76	254.41	19.67	259.36	234.38	133.87	31.47	283.65	25.73	61.11	234.24
39831	84.35	-8.70	0.25	54.02	38.53	264.37	22.05	252.55	236.79	129.89	33.34	276.97	24.83	62.00	236.41
39832	85.42	-8.70	0.25	55.92	41.63	275.29	25.01	244.50	238.98	127.83	35.79	269.53	25.17	64.11	238.34
39833	86.49	-8.70	0.25	58.16	45.05	286.79	28.51	235.39	241.01	127.43	38.80	261.73	26.67	67.97	240.07
39834	87.56	-8.70	0.25	60.71	48.77	298.58	32.51	225.48	242.92	128.45	42.36	254.25	29.21	74.05	241.70
39835	88.63	-8.70	0.25	63.59	52.83	310.52	37.00	215.12	244.83	130.57	46.50	248.27	32.64	82.75	243.35
39836	89.71	-8.70	0.25	66.75	57.19	322.71	42.02	204.82	246.92	133.39	51.15	245.82	36.87	94.42	245.24
39837	90.78	-8.70	0.25	70.34	61.82	335.65	47.57	195.30	249.53	136.52	56.38	250.08	41.95	109.43	247.75
39838	91.85	-8.70	0.25	74.36	66.60	350.71	53.56	187.61	253.13	138.88	62.07	265.94	47.81	128.30	251.40
39839	92.92	-8.70	0.25	78.23	71.44	371.03	59.63	182.84	258.60	138.03	68.02	300.52	54.38	151.49	257.06
39840	93.99	-8.70	0.25	79.50	75.07	404.75	63.66	181.83	266.95	127.96	72.77	366.62	60.58	176.59	265.82
39841	95.06	-8.70	0.25	65.95	71.50	443.24	58.78	170.21	269.86	84.77	62.84	445.82	63.81	174.76	269.98
39842	79.00	-8.10	0.25	49.88	27.32	223.23	15.33	274.66	226.75	177.28	28.66	292.18	38.96	61.30	227.13
39843	80.09	-8.10	0.25	49.03	28.37	225.93	15.07	273.51	230.12	161.86	27.99	290.20	33.95	61.42	230.46
39844	81.18	-8.10	0.25	48.84	29.93	231.18	15.52	270.77	233.28	149.64	27.95	286.87	29.93	61.13	233.52
39845	82.27	-8.10	0.25	49.23	31.94	238.70	16.74	266.49	236.21	140.33	28.56	282.30	26.96	60.67	236.31
39846	83.36	-8.10	0.25	50.14	34.33	248.06	18.68	260.69	238.88	133.63	29.82	276.59	25.16	60.38	238.80
39847	84.45	-8.10	0.25	51.50	37.07	258.81	21.28	253.47	241.29	129.28	31.70	269.89	24.60	60.71	240.99
39848	85.54	-8.10	0.25	53.26	40.12	270.50	24.44	244.92	243.45	126.98	34.17	262.42	25.28	62.20	242.90
39849	86.63	-8.10	0.25	55.37	43.47	282.70	28.11	235.23	245.37	126.46	37.19	254.59	27.09	65.47	244.57
39850	87.72	-8.10	0.25	57.83	47.13	295.08	32.27	224.63	247.13	127.43	40.76	247.11	29.89	71.10	246.06
39851	88.81	-8.10	0.25	60.62	51.11	307.46	36.91	213.51	248.82	129.58	44.90	241.27	33.54	79.56	247.52
39852	89.90	-8.10	0.25	63.78	55.39	319.90	42.09	202.38	250.63	132.56	49.60	239.20	38.00	91.22	249.15
39853	90.99	-8.10	0.25	67.40	59.96	332.88	47.83	192.02	252.88	135.82	54.90	244.33	43.26	106.48	251.30
39854	92.08	-8.10	0.25	71.48	64.77	347.75	54.10	183.52	256.09	138.35	60.78	261.78	49.36	125.86	254.53
39855	93.17	-8.10	0.25	75.56	69.67	367.57	60.38	178.23	261.22	137.77	67.02	298.95	56.05	149.70	259.83
39856	94.26	-8.10	0.25	77.11	73.45	400.75	64.81	177.02	269.18	127.53	72.25	368.98	62.35	176.00	268.16
39857	95.35	-8.10	0.25	62.92	71.05	440.08	60.71	164.81	273.32	81.76	64.50	454.13	65.13	173.42	273.41
39858	79.00	-8.70	-1.25	43.76	22.95	255.71	12.98	293.07	237.09	117.72	22.50	318.19	33.29	64.56	238.07
39859	80.10	-8.70	-1.25	43.99	24.12	258.53	12.82	291.59							



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39887	93.52	-8.10	-1.25	87.99	74.52	389.60	69.38	174.79	260.74	168.28	77.86	298.84	65.55	133.57	259.10
39888	94.63	-8.10	-1.25	105.64	87.28	412.93	83.60	177.31	271.69	196.06	95.23	360.81	79.38	176.10	270.57
39889	95.75	-8.10	-1.25	135.98	111.69	521.45	105.21	218.16	317.01	235.21	131.76	568.52	102.15	272.36	316.78
39890	62.24	-8.70	1.75	594.77	268.74	374.37	147.46	259.04	167.72	2544.67	667.65	965.29	559.61	211.99	243.09
39891	63.29	-8.70	1.75	389.78	141.06	342.07	87.03	198.39	174.55	1769.39	211.37	727.39	374.26	144.00	239.20
39892	64.33	-8.70	1.75	291.46	92.39	317.83	77.48	172.64	170.62	1403.43	84.60	467.12	343.24	104.59	198.53
39893	65.38	-8.70	1.75	227.37	75.97	300.63	66.98	164.86	169.07	1150.15	62.58	301.41	302.58	61.22	183.37
39894	66.43	-8.70	1.75	184.23	66.34	288.38	57.52	167.86	168.87	961.95	57.18	226.91	260.35	52.86	177.12
39895	67.47	-8.70	1.75	153.19	58.86	278.49	50.00	175.94	170.01	815.04	55.40	208.12	223.40	62.04	174.86
39896	68.52	-8.70	1.75	130.22	52.84	269.51	44.07	186.14	172.12	698.49	54.65	214.44	192.23	70.32	174.70
39897	69.56	-8.70	1.75	112.80	47.95	260.84	39.26	196.91	174.84	604.33	53.80	228.24	165.59	75.10	176.02
39898	70.61	-8.70	1.75	99.25	43.76	252.23	35.37	207.47	177.99	526.87	52.88	242.48	143.09	77.08	178.35
39899	71.65	-8.70	1.75	88.55	40.23	243.73	32.15	217.31	181.44	462.38	51.64	254.87	123.89	77.22	181.38
39900	72.70	-8.70	1.75	80.03	37.28	235.53	29.43	226.17	185.10	408.18	50.10	264.83	107.39	76.20	184.87
39901	73.74	-8.70	1.75	73.21	34.90	227.91	27.09	233.85	188.91	362.27	48.31	272.36	93.13	74.45	188.65
39902	74.79	-8.70	1.75	67.80	33.09	221.19	25.06	240.23	192.80	323.20	46.34	277.63	80.76	72.25	192.60
39903	75.84	-8.70	1.75	63.56	31.85	215.71	23.29	245.26	196.74	289.86	44.27	280.85	69.98	69.80	196.62
39904	76.88	-8.70	1.75	60.32	31.19	211.81	21.78	248.89	200.69	261.40	42.21	282.22	60.55	67.23	200.64
39905	77.93	-8.70	1.75	57.98	31.13	209.73	20.54	251.12	204.60	237.16	40.25	281.93	52.32	64.68	204.61
39906	61.95	-8.10	1.75	514.54	200.23	349.47	28.76	222.54	148.01	2289.17	485.10	934.54	21.87	161.31	158.89
39907	63.02	-8.10	1.75	401.41	177.07	337.53	38.56	205.40	160.26	1848.73	339.30	809.34	140.96	185.03	229.92
39908	64.08	-8.10	1.75	320.86	105.03	313.43	48.01	179.71	163.37	1546.98	118.17	528.73	210.48	159.48	206.27
39909	65.15	-8.10	1.75	255.07	78.59	295.58	51.77	167.89	165.75	1284.22	65.18	326.80	233.00	91.50	185.35
39910	66.21	-8.10	1.75	205.53	66.12	283.11	49.06	168.39	167.61	1067.76	57.37	228.62	222.78	50.42	177.35
39911	67.27	-8.10	1.75	169.24	58.03	273.26	44.61	175.61	169.84	896.43	56.03	199.49	201.29	49.54	174.90
39912	68.34	-8.10	1.75	142.30	51.81	264.28	40.24	185.72	172.66	760.82	55.51	203.28	178.30	60.15	175.14
39913	69.40	-8.10	1.75	121.88	46.82	255.47	36.31	196.75	175.93	652.20	54.69	217.33	156.42	68.11	176.95
39914	70.47	-8.10	1.75	106.11	42.64	246.59	32.89	207.65	179.53	564.00	53.56	232.43	136.58	72.53	179.76
39915	71.53	-8.10	1.75	93.71	39.10	237.71	29.95	217.87	183.36	491.36	52.10	245.67	119.02	74.41	183.21
39916	72.60	-8.10	1.75	83.83	36.15	229.07	27.41	225.02	187.36	430.87	50.32	256.33	103.58	74.60	187.08
39917	73.66	-8.10	1.75	75.92	33.75	220.97	25.19	237.06	191.46	380.05	48.29	264.41	90.02	73.70	191.19
39918	74.72	-8.10	1.75	69.58	31.92	213.81	23.22	241.63	195.63	337.09	46.08	270.10	78.13	72.08	195.42
39919	75.79	-8.10	1.75	64.56	30.66	207.97	21.49	246.82	199.82	300.64	43.78	273.63	67.70	70.00	199.70
39920	76.85	-8.10	1.75	60.66	29.99	203.82	20.00	250.55	203.99	269.69	41.49	275.23	58.55	67.63	203.96
39921	77.92	-8.10	1.75	57.73	29.90	201.67	18.78	252.79	208.11	243.44	39.31	275.10	50.54	65.12	208.13
39922	61.84	-8.70	0.25	419.36	206.76	425.73	88.52	272.41	181.98	1785.30	445.87	806.82	359.93	277.23	306.46
39923	62.91	-8.70	0.25	272.69	125.46	381.18	54.49	216.74	199.99	1212.74	136.37	692.87	238.34	142.11	287.40
39924	63.98	-8.70	0.25	212.80	92.21	355.80	57.37	199.28	194.01	999.31	80.10	532.81	245.86	128.89	222.33
39925	65.05	-8.70	0.25	176.30	77.43	338.42	54.23	191.87	189.93	867.61	67.12	382.97	233.03	115.32	198.54
39926	66.12	-8.70	0.25	150.22	67.20	325.43	49.09	192.22	188.06	761.21	60.61	285.51	211.26	89.90	189.75
39927	67.19	-8.70	0.25	129.38	58.97	314.47	44.00	198.01	188.10	666.04	56.30	240.97	187.67	65.40	187.43
39928	68.27	-8.70	0.25	112.53	52.31	304.22	39.41	206.91	189.49	581.93	52.88	231.96	164.98	48.11	188.02
39929	69.34	-8.70	0.25	98.87	46.89	294.05	35.43	217.19	191.75	508.56	49.81	239.60	144.07	40.26	190.17
39930	70.41	-8.70	0.25	87.70	42.28	283.78	32.05	227.70	194.60	444.98	47.04	252.37	125.51	40.14	193.20
39931	71.48	-8.70	0.25	78.57	38.40	273.50	29.15	237.73	197.82	390.16	44.38	265.25	109.18	43.70	196.74
39932	72.55	-8.70	0.25	71.14	35.16	263.51	26.62	246.82	201.27	343.01	41.82	276.42	94.88	48.06	200.54
39933	73.63	-8.70	0.25	65.13	32.52	254.18	24.39	254.72	204.84	302.52	39.34	285.35	82.41	52.03	204.45
39934	74.70	-8.70	0.25	60.36	30.49	245.94	22.40	261.26	208.48	267.81	36.99	292.01	71.53	55.26	208.37
39935	75.77	-8.70	0.25	56.66	29.09	239.23	20.62	266.33	212.12	238.17	34.81	296.57	62.05	57.71	212.23
39936	76.84	-8.70	0.25	53.91	28.31	234.44	19.07	269.90	215.71	213.00	32.88	299.20	53.81	59.43	215.98
39937	77.91	-8.70	0.25	52.02	28.18	231.91	17.80	271.94	219.24	191.83	31.31	300.10	46.66	60.52	219.59
39938	61.55	-8.10	0.25	344.05	161.91	375.92	50.17	202.93	141.95	1493.05	277.62	730.83	124.47	247.12	214.05
39939	62.64	-8.10	0.25	260.43	154.40	372.76	26.28	211.71	181.31	1180.31	226.39	742.93	50.23	141.27	285.07
39940	63.73	-8.10	0.25	223.11	102.42	351.80	33.67	204.53	185.48	1045.14	98.17	591.19	143.13	158.11	229.52
39941	64.82	-8.10	0.25	191.56	79.55	334.96	40.87	196.79	185.74	933.05	67.42	421.91	177.91	152.68	200.21
39942	65.91	-8.10	0.25	164.25	66.68	321.74	41.20	195.22	186.43	824.19	59.28	301.14	179.61	120.79	190.14
39943	67.00	-8.10	0.25	141.17	57.77	310.55	38.79	199.72	187.94	720.86	55.40	240.20	168.11	86.24	187.94
39944	68.09	-8.10	0.25	122.00	50.89	300.00	35.68	208.08	190.29	627.19	52.36	223.29	152.28	59.23	189.11
39945	69.18	-8.10	0.25	106.26	45.40	289.42	32.56	218.26	193.24	544.97	49.43	228.65	135.48	43.09	191.84
39946	70.27	-8.10	0.25	93.40	40.83	278.63	29.67	228.91	196.61	474.02	46.59	241.45	119.33	38.10	195.37
39947	71.36	-8.10	0.25	82.89	36.98	267.75	27.09	239.16	200.25	413.16	43.84	255.02	104.53	40.40	199.31
39948	72.45	-8.10	0.25	74.30	33.77	257.11	24.77	248.50	204.04	361.11	41.13	266.94	91.23	45.17	203.43
39949	73.54	-8.10	0.25	67.32	31.15	247.12	22.66	256.62	207.92	316.65	38.50	276.52	79.42	49.95	207.62
39950	74.63	-8.10	0.25	61.71	29.13	238.27	20.73	263.33	211.81	278.72	35.99	283.70	69.00	53.96	211.78
39951	75.72	-8.10	0.25	57.29	27.73	231.05	18.98	268.54	215.68	246.46	33.66	288.65	59.86	57.03	215.85
39952	76.81	-8.10	0.25	53.91	26.96	225.92	17.43	272.17	219.49	219.16	31.59	291.57	51.87	59.21	219.79
39953	77.90	-8.10	0.25	51.48	26.83	223.24	16.17	274.22	223.19	196.25	29.90	292.69	44.93	60.59	223.57
39954	61.43	-8.70	-1.25	240.38	169.07	445.84	68.15	240.66	196.33	1166.27	189.37	626.54	265.82	325.10	371.51
39955	62.53	-8.70	-1.25	164.69	114.68	396.04	50.26	203.06	202.79	799.57	102.67	588.32	176.74	160.95	311.32
39956	63.62	-8.70	-1.25	132.42	88.68	382.37	45.35	197.31	200.66	646.50	80.96	505.52			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
39985	77.89	-8.10	-1.25	43.23	21.22	246.48	12.49	295.77	238.46	132.81	21.08	309.33	36.39	61.18	239.48
39986	67.47	-9.45	1.75	136.73	62.67	288.42	56.55	174.39	169.67	732.08	54.20	221.22	247.49	80.81	175.69
39987	66.50	-9.41	1.75	160.94	70.33	297.71	65.85	166.36	169.75	846.79	58.38	235.40	293.00	74.63	178.61
39988	65.53	-9.36	1.75	193.73	79.83	308.93	78.85	161.65	171.49	989.53	67.90	291.61	351.50	67.84	184.09
39989	67.28	-10.34	1.75	116.15	70.62	304.25	63.77	170.61	169.07	631.87	60.18	239.11	268.44	108.04	178.95
39990	66.43	-10.22	1.75	132.68	78.47	311.91	73.13	163.39	170.25	711.27	70.90	251.26	314.03	109.19	183.01
39991	65.59	-10.08	1.75	153.92	88.88	320.79	86.39	158.05	172.83	803.52	90.83	292.70	373.80	109.51	188.60
39992	67.10	-11.25	1.75	91.57	78.72	323.34	66.55	167.46	168.03	513.12	74.67	259.83	263.22	139.81	185.54
39993	66.38	-11.03	1.75	101.11	85.87	328.44	74.19	160.96	169.61	562.87	88.83	267.57	302.89	146.94	190.40
39994	65.67	-10.80	1.75	114.18	96.63	334.33	84.01	155.13	171.85	624.01	116.70	295.22	347.79	154.47	196.59
39995	77.92	-9.82	1.75	59.11	33.92	225.70	24.28	247.84	197.36	225.29	42.34	296.41	54.34	63.49	197.36
39996	66.85	-9.80	1.75	60.49	33.94	227.64	25.54	245.52	193.75	247.12	43.87	296.80	63.26	66.33	193.72
39997	75.79	-9.78	1.75	62.67	34.59	231.20	27.08	241.82	190.20	272.76	45.48	295.38	73.46	69.49	190.11
39998	74.73	-9.76	1.75	65.77	35.86	236.15	28.88	236.77	186.75	302.77	47.04	291.98	85.14	72.84	186.61
39999	73.68	-9.73	1.75	69.95	37.74	242.19	30.97	230.42	183.42	337.85	48.47	286.43	98.58	76.23	183.29
40000	72.63	-9.69	1.75	75.41	40.22	249.03	33.40	222.86	180.27	378.92	49.68	278.55	114.16	79.50	180.27
40001	71.58	-9.65	1.75	82.42	43.30	256.39	36.28	214.21	177.33	427.19	50.62	268.22	132.35	82.42	177.67
40002	70.54	-9.61	1.75	91.39	47.01	264.07	39.75	204.66	174.68	484.30	51.28	255.53	153.79	84.65	175.66
40003	69.51	-9.55	1.75	102.90	51.42	271.94	44.04	194.48	172.41	552.46	51.80	241.15	179.32	85.67	174.46
40004	68.47	-9.50	1.75	117.81	56.65	279.99	49.48	184.09	170.68	634.75	52.48	227.46	210.08	84.66	174.28
40005	77.89	-11.45	1.75	61.80	39.00	251.12	30.31	242.92	186.29	208.46	46.76	320.63	54.47	60.99	186.41
40006	76.77	-11.41	1.75	61.78	38.97	252.86	31.58	240.35	183.13	226.99	47.74	321.12	64.20	64.15	183.31
40007	75.66	-11.36	1.75	62.38	39.62	255.97	33.10	236.41	180.22	248.86	48.70	319.44	75.27	68.31	180.46
40008	74.56	-11.29	1.75	63.74	40.97	260.19	34.88	231.17	177.58	274.50	49.54	315.41	87.96	73.23	177.93
40009	73.47	-11.20	1.75	66.03	42.99	265.28	36.93	224.69	175.22	304.47	50.17	308.87	102.59	78.70	175.82
40010	72.39	-11.09	1.75	69.46	45.69	271.00	39.32	217.10	173.15	339.50	50.57	299.71	119.61	84.53	174.23
40011	71.33	-10.97	1.75	74.28	49.07	277.15	42.19	208.54	171.41	380.52	50.78	287.90	139.61	90.52	173.29
40012	70.28	-10.83	1.75	80.86	53.18	283.57	45.72	199.21	170.03	428.83	51.05	273.69	163.41	96.40	173.15
40013	69.24	-10.67	1.75	89.73	58.12	290.20	50.22	189.38	169.10	486.22	51.97	258.10	192.19	101.75	173.94
40014	68.21	-10.50	1.75	101.71	64.08	297.10	56.17	179.43	168.75	555.60	54.70	244.05	227.58	105.89	175.79
40015	77.86	-13.09	1.75	65.96	45.11	280.18	37.33	238.42	175.30	192.54	52.43	350.45	50.59	57.21	176.08
40016	76.69	-13.03	1.75	64.63	44.97	281.71	38.52	235.60	172.68	207.20	52.87	351.29	60.39	60.34	173.75
40017	75.54	-12.95	1.75	63.66	45.53	284.35	39.90	231.47	170.53	224.56	53.19	349.54	71.47	65.50	171.96
40018	74.40	-12.83	1.75	63.17	46.81	287.86	41.44	226.13	168.83	244.91	53.30	345.00	84.10	72.27	170.76
40019	73.28	-12.68	1.75	63.31	48.81	292.03	43.18	219.65	167.56	268.62	53.18	337.52	98.62	80.29	170.24
40020	72.18	-12.51	1.75	64.28	51.56	296.69	45.17	212.16	166.66	296.17	52.90	327.01	115.48	89.29	170.47
40021	71.10	-12.30	1.75	66.32	55.07	301.68	47.53	203.80	166.13	328.13	52.73	313.53	135.28	99.05	171.57
40022	70.03	-12.06	1.75	69.71	59.45	306.91	50.48	194.76	165.95	365.26	53.36	297.49	158.89	109.39	173.61
40023	68.99	-11.80	1.75	74.87	64.87	312.33	54.34	185.25	166.15	408.59	56.17	280.21	187.55	120.12	176.69
40024	67.96	-11.51	1.75	82.36	71.65	317.95	59.75	175.57	166.87	459.57	63.50	265.10	223.54	131.07	180.79
40025	77.84	-14.73	1.75	71.27	50.75	316.80	45.27	235.32	166.06	178.77	57.88	390.25	42.82	52.26	168.88
40026	76.64	-14.66	1.75	68.95	50.47	318.09	46.30	232.22	163.98	189.63	57.86	391.73	52.00	54.51	167.58
40027	75.45	-14.55	1.75	66.72	50.81	320.21	47.39	227.95	162.56	202.50	57.59	390.12	62.24	60.37	167.09
40028	74.27	-14.39	1.75	64.67	51.83	322.94	48.49	222.57	161.73	217.56	57.00	385.14	73.80	69.08	167.44
40029	73.12	-14.19	1.75	62.91	53.56	326.11	49.63	216.15	161.38	235.01	58.13	376.62	86.97	79.93	168.67
40030	72.00	-13.94	1.75	61.58	56.06	329.58	50.83	208.79	161.44	255.05	55.16	364.44	102.15	92.41	170.82
40031	70.89	-13.65	1.75	60.85	59.38	333.22	52.20	200.63	161.79	277.91	54.60	348.70	119.83	106.25	173.94
40032	69.81	-13.32	1.75	60.94	63.67	336.93	53.91	191.79	162.37	303.88	55.51	329.93	140.69	121.27	178.10
40033	68.76	-12.95	1.75	62.12	69.14	340.62	56.25	182.44	163.16	333.23	59.82	309.69	165.69	137.43	183.38
40034	67.73	-12.54	1.75	64.71	76.34	344.23	59.75	172.77	164.18	366.18	70.69	291.77	196.29	154.84	190.00
40035	77.83	-16.37	1.75	77.46	48.58	366.11	52.82	234.37	155.52	168.20	55.14	445.47	31.41	47.07	162.99
40036	76.59	-16.30	1.75	74.50	48.33	367.01	53.63	230.94	153.96	175.89	54.80	447.76	39.42	46.83	162.90
40037	75.37	-16.16	1.75	71.42	48.74	368.27	54.27	226.44	153.15	184.95	54.12	446.16	48.24	52.67	163.74
40038	74.17	-15.96	1.75	68.27	49.86	369.68	54.75	220.89	152.98	195.47	53.09	440.29	58.10	63.30	165.52
40039	72.99	-15.70	1.75	65.10	51.75	371.12	55.08	214.36	153.31	207.48	51.82	429.90	69.24	77.17	168.27
40040	71.84	-15.39	1.75	62.01	54.46	372.44	55.29	206.93	154.00	221.00	50.57	414.86	81.96	93.29	172.03
40041	70.71	-15.02	1.75	59.09	58.02	373.55	55.45	198.67	154.93	236.00	49.97	395.27	96.64	111.16	176.87
40042	69.61	-14.59	1.75	56.47	62.54	374.32	55.72	189.71	156.00	252.47	51.19	371.79	113.70	130.53	182.91
40043	68.55	-14.11	1.75	54.35	68.21	374.67	56.30	180.18	157.14	270.47	56.13	346.23	133.65	151.29	190.37
40044	67.52	-13.57	1.75	52.97	75.33	374.49	57.49	170.23	158.36	289.81	67.07	322.75	157.09	173.57	199.63
40045	77.82	-18.02	1.75	84.14	37.63	426.25	57.92	234.59	132.86	160.99	43.45	513.41	18.13	43.59	149.14
40046	76.57	-17.94	1.75	80.83	37.81	426.50	58.53	230.70	132.03	166.37	43.12	516.39	24.51	38.30	150.33
40047	75.32	-17.78	1.75	77.18	39.09	426.29	58.86	225.78	132.27	172.48	42.64	514.29	31.69	42.70	152.69
40048	74.10	-17.54	1.75	73.26	41.42	425.48	58.90	219.86	133.42	179.34	42.04	506.71	39.79	55.20	156.23
40049	72.89	-17.23	1.75	69.11	44.67	424.00	58.68	212.99	135.28	186.92	41.40	493.34	48.95	72.27	161.01
40050	71.71	-16.85	1.75	64.81	48.71	421.80	58.21	205.23	137.65	195.13	40.96	474.09	59.35	91.92	167.11
40051	70.56	-16.40	1.75	60.46	53.47	418.85	57.56	196.69	140.33	203.89	41.26	449.15	71.16	113.35	174.65
40052	69.44	-15.87	1.75	56.16	58.93	415.13	56.78	187.48	143.17	213.09	43.19	419.34	84.57	136.27	183.78
40053	68.36	-15.28	1.75	52.07	65.19	410.65	56.00	177.76	146.06	222.82	48.06	386.67	99.81	160.64	194.73
40054	67.33	-14.62	1.75	48.40	72.50	405.49	55.41	167.73	148.92	233.77	57.37	355.56	117.13	186	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
40083	76.81	-9.83	0.25	54.85	31.61	251.70	22.79	265.09	207.53	202.52	35.98	315.15	56.63	59.42	207.67
40084	75.72	-9.81	0.25	56.54	32.42	255.97	24.35	261.43	204.35	225.17	37.62	312.51	65.57	58.61	204.28
40085	74.63	-9.79	0.25	59.11	33.91	261.93	26.16	256.29	201.23	251.91	39.48	307.83	75.87	57.36	200.89
40086	73.55	-9.76	0.25	62.68	36.06	269.21	28.22	249.75	198.21	283.22	41.49	300.94	87.74	55.61	197.54
40087	72.48	-9.72	0.25	67.39	38.86	277.44	30.57	241.90	195.37	319.71	43.60	291.74	101.45	53.30	194.33
40088	71.40	-9.68	0.25	73.42	42.31	286.24	33.30	232.93	192.76	362.10	45.79	280.28	117.30	50.50	191.39
40089	70.34	-9.63	0.25	81.00	46.45	295.31	36.50	223.10	190.52	411.26	48.09	267.08	135.68	47.57	188.88
40090	69.27	-9.57	0.25	90.45	51.35	304.44	40.33	212.84	188.79	468.16	50.63	253.83	156.96	45.48	187.06
40091	68.22	-9.51	0.25	102.18	57.15	313.59	44.95	202.77	187.86	533.78	53.59	244.97	181.46	46.33	186.31
40092	77.87	-11.54	0.25	58.04	38.06	277.04	27.93	259.89	197.24	172.25	41.61	341.89	49.66	57.97	197.29
40093	76.72	-11.51	0.25	57.54	38.17	278.98	29.20	257.49	194.54	188.15	42.60	341.26	58.10	58.33	194.44
40094	75.58	-11.45	0.25	57.64	39.05	282.53	30.75	253.57	192.09	207.36	43.86	338.36	67.82	59.00	191.75
40095	74.45	-11.37	0.25	58.44	40.70	287.41	32.56	248.20	189.91	230.21	45.30	333.06	79.03	59.87	189.26
40096	73.33	-11.28	0.25	60.10	43.09	293.32	34.63	241.49	188.03	257.08	46.85	325.22	91.97	60.79	187.07
40097	72.23	-11.17	0.25	62.76	46.23	299.94	37.01	233.57	186.51	288.44	48.48	314.80	106.97	61.66	185.28
40098	71.14	-11.04	0.25	66.61	50.10	306.99	39.79	224.65	185.41	324.88	50.26	301.94	124.42	62.39	184.03
40099	70.06	-10.89	0.25	71.88	54.76	314.26	43.10	215.01	184.83	367.06	52.33	287.28	144.82	62.97	183.52
40100	68.99	-10.73	0.25	78.87	60.29	321.64	47.14	205.06	184.95	415.80	55.02	272.65	168.80	63.55	183.99
40101	67.94	-10.55	0.25	88.03	66.84	329.19	52.17	195.37	186.04	472.33	58.85	262.55	196.99	64.58	185.84
40102	77.85	-13.25	0.25	63.95	47.52	307.70	36.10	252.69	183.76	162.62	51.74	372.64	46.97	54.26	183.81
40103	76.64	-13.19	0.25	62.18	47.52	309.27	37.29	250.04	181.66	174.91	52.41	372.44	55.45	55.27	181.64
40104	75.46	-13.10	0.25	60.74	48.33	312.05	38.72	245.94	180.10	190.01	53.28	369.52	65.15	57.71	179.96
40105	74.29	-12.98	0.25	59.73	49.97	315.82	40.36	240.49	179.08	208.15	54.28	363.75	76.27	61.31	178.82
40106	73.14	-12.82	0.25	59.27	52.41	320.34	42.19	233.80	178.58	229.61	55.36	355.04	89.08	65.81	178.30
40107	72.01	-12.64	0.25	59.52	55.66	325.39	44.27	226.02	178.60	254.70	56.54	348.39	103.90	71.01	178.50
40108	70.89	-12.42	0.25	60.67	59.74	330.79	46.64	217.37	179.16	283.77	57.99	332.99	121.13	76.78	179.56
40109	69.80	-12.18	0.25	62.92	64.71	336.42	49.45	208.11	180.32	317.20	60.04	312.59	141.30	83.11	181.66
40110	68.73	-11.90	0.25	66.53	70.71	342.27	52.87	198.58	182.21	355.39	63.35	296.06	165.12	90.20	185.04
40111	67.68	-11.60	0.25	71.77	77.94	348.41	57.27	189.19	185.09	398.76	69.00	283.79	193.85	98.66	190.01
40112	77.83	-14.95	0.25	71.26	60.28	343.36	46.51	247.01	173.40	155.77	65.65	410.28	41.09	48.48	174.60
40113	76.58	-14.88	0.25	68.56	60.06	344.57	47.56	244.11	171.89	164.58	66.03	410.86	49.03	49.38	173.43
40114	75.36	-14.76	0.25	65.94	60.58	346.65	48.74	239.96	171.28	175.65	66.49	408.29	57.98	53.45	173.19
40115	74.16	-14.59	0.25	63.48	61.86	349.44	50.02	234.60	171.47	189.16	66.96	402.41	68.13	60.10	173.91
40116	72.97	-14.38	0.25	61.27	63.90	352.80	51.35	228.18	172.38	205.29	67.39	393.12	79.69	68.73	175.62
40117	71.81	-14.12	0.25	59.44	66.74	356.59	52.74	220.82	173.92	224.21	67.83	380.41	92.95	78.91	178.41
40118	70.68	-13.82	0.25	58.12	70.39	360.71	54.21	212.71	176.02	246.07	68.49	364.52	108.24	90.50	182.34
40119	69.57	-13.48	0.25	57.48	74.94	365.14	55.83	204.05	178.64	270.97	69.80	346.18	125.97	103.59	187.57
40120	68.49	-13.09	0.25	57.67	80.54	369.88	57.74	195.09	181.82	298.87	72.63	327.28	146.69	118.55	194.33
40121	67.44	-12.67	0.25	58.84	87.60	374.98	60.21	186.09	185.62	329.51	78.65	311.98	171.19	136.23	203.08
40122	77.81	-16.65	0.25	78.45	74.96	401.66	59.53	246.91	175.78	150.97	82.01	473.51	32.42	41.60	181.91
40123	76.54	-16.57	0.25	75.23	74.43	402.45	60.34	243.80	174.65	156.92	82.11	475.41	39.42	40.11	182.12
40124	75.28	-16.43	0.25	71.96	74.34	403.78	61.05	239.65	174.50	164.67	81.97	473.57	47.14	44.85	183.48
40125	74.05	-16.22	0.25	68.71	74.75	405.54	61.61	234.50	175.21	174.36	81.52	467.73	55.75	54.60	185.96
40126	72.83	-15.96	0.25	65.53	75.71	407.61	61.99	228.42	176.60	186.11	80.73	457.66	65.42	67.74	189.54
40127	71.65	-15.63	0.25	62.50	77.28	409.90	62.17	221.50	178.52	199.93	79.65	443.27	76.38	83.36	194.24
40128	70.49	-15.24	0.25	59.67	79.52	412.33	62.13	213.86	180.82	215.81	78.45	424.68	88.92	101.18	200.09
40129	69.36	-14.80	0.25	57.09	82.53	414.82	61.93	205.60	183.38	233.59	77.58	402.54	103.34	121.31	207.26
40130	68.27	-14.30	0.25	54.80	86.47	417.30	61.64	196.83	186.09	253.03	77.92	378.63	119.96	144.03	216.03
40131	67.22	-13.74	0.25	52.84	91.55	419.67	61.44	187.70	188.93	273.47	81.03	357.05	139.15	169.93	227.06
40132	77.80	-18.36	0.25	86.58	51.46	496.06	65.30	252.71	164.67	150.35	57.01	575.59	19.23	37.84	179.92
40133	76.51	-18.28	0.25	83.16	51.41	495.99	65.68	249.11	163.89	154.60	56.70	578.60	24.75	29.84	181.23
40134	75.23	-18.11	0.25	79.49	52.15	495.47	65.61	244.47	164.05	160.07	56.16	576.42	30.84	33.77	183.58
40135	73.97	-17.87	0.25	75.59	53.70	494.41	65.11	238.80	165.01	166.80	55.41	568.64	37.70	47.71	186.98
40136	72.73	-17.54	0.25	71.48	56.00	492.74	64.20	232.12	166.59	174.77	54.48	554.93	45.58	66.51	191.47
40137	71.51	-17.15	0.25	67.17	58.98	490.40	62.96	224.48	168.60	183.80	53.48	535.10	54.69	88.06	197.17
40138	70.33	-16.67	0.25	62.67	62.58	487.32	61.44	215.93	170.86	193.62	52.73	509.31	65.25	111.81	204.27
40139	69.18	-16.13	0.25	58.01	66.79	483.45	59.75	206.54	173.22	203.81	52.84	478.27	77.41	137.69	213.10
40140	68.07	-15.51	0.25	53.21	71.66	478.68	58.01	196.42	175.58	213.93	54.88	443.92	91.32	165.79	224.16
40141	67.01	-14.83	0.25	48.36	77.30	472.94	56.39	185.67	177.83	223.76	60.16	410.44	106.96	195.99	238.31
40142	62.26	-9.53	0.25	246.65	240.73	423.17	180.78	206.30	267.05	1106.82	496.51	702.34	693.65	305.18	418.39
40143	62.86	-10.56	0.25	47.60	162.88	412.07	80.91	140.58	211.03	335.33	258.31	521.29	314.90	345.38	387.45
40144	63.51	-11.56	0.25	40.42	125.92	431.67	60.46	146.11	194.30	287.13	159.79	454.72	209.97	329.89	346.73
40145	63.24	-9.45	0.25	207.40	120.93	386.78	104.56	192.60	218.80	963.69	131.24	599.52	420.44	140.39	272.37
40146	63.65	-10.35	0.25	114.94	139.89	395.59	101.49	166.31	218.00	618.40	184.60	494.22	391.35	210.71	274.61
40147	64.10	-11.22	0.25	60.83	128.38	407.97	75.42	158.58	205.47	399.89	155.66	415.85	276.23	257.75	279.59
40148	64.21	-9.38	0.25	177.05	97.32	361.47	79.16	186.74	202.15	861.16	86.70	469.83	326.03	93.21	221.20
40149	64.43	-10.15	0.25	129.90	108.75	370.55	87.00	173.87	205.95	679.59	110.15	414.66	344.90	120.54	226.37
40150	64.68	-10.90	0.25	86.88	115.80	382.11	80.48	166.69	203.54	506.87	127.15	374.37	304.40	173.77	235.40
40151	66.03	-14.10	0.25	43.90	84.26	465.69	55.19	174.81	180.30	232.52	71.01	385.80	123.99	227.52	255.20
40152	66.29	-13.17	0.25	51.49	97.84	420.56	61.61	179.11	191.85	293.51	89.00	344.90			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
40181	75.50	-11.54	-1.25	50.97	33.30	312.49	26.26	270.40	203.17	150.06	34.11	358.19	55.39	55.68	203.30
40182	74.34	-11.46	-1.25	50.94	35.35	318.26	27.99	264.93	201.23	167.81	35.82	351.61	64.14	53.54	200.88
40183	73.20	-11.36	-1.25	51.60	38.20	325.23	29.92	257.94	199.51	188.79	37.95	342.61	74.21	51.45	198.59
40184	72.07	-11.25	-1.25	53.03	41.79	332.99	32.10	249.59	198.08	213.14	40.49	331.31	85.76	49.67	196.51
40185	70.95	-11.11	-1.25	55.31	46.13	341.11	34.56	240.08	197.00	241.01	43.48	318.14	98.92	48.61	194.75
40186	69.84	-10.96	-1.25	58.50	51.25	349.25	37.41	229.70	196.35	272.52	47.06	304.27	113.82	48.92	193.49
40187	68.75	-10.79	-1.25	62.61	57.25	357.11	40.74	218.84	196.30	307.87	51.42	292.25	130.53	51.34	193.01
40188	67.67	-10.61	-1.25	67.71	64.27	364.52	44.64	208.05	197.05	347.49	56.85	287.03	148.98	56.32	193.74
40189	77.83	-13.40	-1.25	60.96	41.90	338.35	32.21	265.54	189.31	123.06	43.26	396.11	39.93	55.99	189.43
40190	76.59	-13.34	-1.25	58.69	42.15	339.98	33.37	263.12	187.65	131.61	44.01	394.63	46.39	55.35	187.50
40191	75.38	-13.25	-1.25	56.68	43.41	343.00	34.78	259.04	186.48	142.84	45.31	390.37	53.88	55.58	185.91
40192	74.18	-13.12	-1.25	55.00	45.63	347.11	36.39	253.40	185.82	156.88	47.07	383.24	62.53	56.62	184.68
40193	73.00	-12.96	-1.25	53.73	48.75	352.03	38.20	246.35	185.64	173.87	49.25	373.25	72.47	58.40	183.91
40194	71.83	-12.77	-1.25	52.96	52.75	357.44	40.22	238.04	185.94	193.93	51.86	360.51	83.85	60.88	183.67
40195	70.69	-12.54	-1.25	52.79	57.61	363.06	42.51	228.69	186.75	217.23	54.98	345.46	96.83	64.10	184.13
40196	69.57	-12.29	-1.25	53.31	63.39	368.63	45.12	218.57	188.11	243.95	58.79	329.15	111.56	68.24	185.49
40197	68.47	-12.01	-1.25	54.62	70.21	374.00	48.15	208.04	190.17	274.35	63.56	313.84	128.24	73.81	188.13
40198	67.40	-11.69	-1.25	56.78	78.22	379.08	51.70	197.52	193.15	308.80	69.63	303.90	147.28	81.84	192.62
40199	77.81	-15.17	-1.25	70.89	58.60	374.61	44.75	255.40	172.50	125.72	61.91	433.53	36.41	49.21	172.63
40200	76.53	-15.09	-1.25	67.81	58.65	375.66	45.77	252.73	171.52	131.39	62.71	432.88	42.40	49.41	171.55
40201	75.27	-14.97	-1.25	64.79	59.73	377.52	46.99	248.57	171.47	139.41	64.06	428.90	49.29	52.11	171.28
40202	74.04	-14.80	-1.25	61.89	61.80	379.98	48.35	243.01	172.27	149.97	65.86	421.50	57.16	56.94	171.87
40203	72.82	-14.58	-1.25	59.18	64.85	382.87	49.84	236.19	173.84	163.26	68.05	410.68	66.13	63.43	173.37
40204	71.63	-14.31	-1.25	56.74	68.84	386.01	51.45	228.29	176.07	179.48	70.64	396.57	76.34	71.28	175.89
40205	70.46	-14.00	-1.25	54.66	73.76	389.26	53.20	219.50	178.92	198.84	73.70	379.55	87.94	80.41	179.59
40206	69.33	-13.64	-1.25	53.07	79.67	392.52	55.10	210.08	182.36	221.62	77.40	360.57	101.08	91.08	184.74
40207	68.22	-13.24	-1.25	52.08	86.68	395.75	57.22	200.32	186.48	248.19	82.01	341.64	115.93	104.02	191.85
40208	67.15	-12.80	-1.25	51.78	95.13	398.96	59.61	190.51	191.41	279.00	88.02	326.61	132.81	120.66	201.82
40209	77.79	-16.93	-1.25	81.97	88.75	412.59	63.53	248.00	165.39	131.91	95.83	473.33	31.97	39.28	168.40
40210	76.48	-16.85	-1.25	78.36	88.36	413.13	64.36	245.16	164.93	135.30	96.74	473.97	37.43	38.46	168.68
40211	75.19	-16.70	-1.25	74.77	88.82	414.18	65.30	241.19	165.89	140.80	98.06	471.03	43.59	43.11	170.42
40212	73.92	-16.49	-1.25	71.29	90.13	415.65	66.26	236.17	168.09	148.71	99.69	464.39	50.50	51.99	173.65
40213	72.68	-16.21	-1.25	68.00	92.30	417.48	67.21	230.20	171.35	159.34	101.57	453.98	58.22	63.71	178.39
40214	71.46	-15.87	-1.25	65.03	95.33	419.63	68.10	223.43	175.48	173.01	103.67	439.86	66.87	77.59	184.71
40215	70.27	-15.47	-1.25	62.51	99.22	422.09	68.89	216.04	180.34	190.04	106.00	422.33	76.61	93.62	192.78
40216	69.11	-15.01	-1.25	60.56	104.01	424.93	69.57	208.22	185.81	210.89	108.69	402.18	87.61	112.30	202.94
40217	67.99	-14.49	-1.25	59.26	109.79	428.27	70.11	200.22	191.90	236.12	111.92	381.13	100.10	134.61	215.85
40218	66.91	-13.91	-1.25	58.61	116.70	432.09	70.53	192.24	198.62	266.39	116.02	362.53	114.45	162.02	232.64
40219	77.78	-18.70	-1.25	86.56	140.01	579.49	101.71	278.18	231.16	130.98	154.12	652.99	28.48	34.65	249.67
40220	76.45	-18.62	-1.25	83.33	139.12	579.21	101.64	275.13	230.31	132.85	155.38	656.41	31.93	22.81	252.02
40221	75.14	-18.44	-1.25	81.10	138.85	578.83	100.99	271.30	230.52	137.36	156.83	654.94	35.89	24.07	255.65
40222	73.84	-18.19	-1.25	79.84	139.19	578.28	99.75	266.74	231.64	144.87	158.39	648.13	40.47	38.51	260.52
40223	72.56	-17.85	-1.25	79.47	140.12	577.54	97.96	261.46	233.50	155.78	159.97	635.63	45.84	58.47	266.64
40224	71.31	-17.44	-1.25	79.83	141.61	576.60	95.64	255.51	235.94	170.49	161.49	617.19	52.21	81.87	274.12
40225	70.10	-16.95	-1.25	80.72	143.62	575.46	92.85	248.98	238.78	189.37	162.93	592.80	59.84	108.87	283.21
40226	68.92	-16.39	-1.25	81.87	146.12	574.11	89.65	241.92	241.89	212.82	164.26	562.96	69.09	140.26	294.37
40227	67.79	-15.75	-1.25	82.98	149.11	572.51	86.15	234.41	245.14	241.28	165.54	529.23	80.43	177.09	308.39
40228	66.70	-15.04	-1.25	83.70	152.58	570.62	82.46	228.57	248.54	275.53	166.82	495.16	94.46	220.42	326.82
40229	61.85	-9.55	-1.25	138.75	206.46	463.57	112.12	192.58	283.08	858.97	216.84	611.55	435.40	401.22	500.69
40230	62.46	-10.62	-1.25	57.63	181.89	478.44	73.15	166.45	258.19	509.45	167.36	535.84	265.53	469.23	490.39
40231	63.12	-11.65	-1.25	68.95	170.75	518.62	69.78	183.58	254.98	467.29	165.26	492.60	204.11	444.28	455.81
40232	62.85	-9.47	-1.25	125.52	119.61	400.97	75.83	184.73	223.73	686.97	107.27	528.55	275.42	180.93	300.21
40233	63.27	-10.40	-1.25	74.35	141.34	410.03	78.05	165.35	228.42	527.71	127.60	450.74	263.89	243.11	306.09
40234	63.73	-11.30	-1.25	54.85	143.50	426.62	70.76	164.21	223.44	425.52	130.57	399.52	207.18	281.08	314.59
40235	63.85	-9.40	-1.25	112.26	95.46	386.57	59.89	187.27	208.59	590.10	86.50	456.55	215.92	104.98	234.30
40236	64.08	-10.19	-1.25	84.82	109.15	392.66	68.15	175.40	213.14	510.19	96.57	407.71	232.72	133.07	239.22
40237	64.33	-10.96	-1.25	61.93	120.53	401.54	68.50	168.92	212.46	428.74	107.63	371.33	213.04	175.62	248.99
40238	65.69	-14.28	-1.25	83.35	156.36	565.81	78.70	218.10	251.44	315.01	167.65	466.18	111.81	269.66	348.39
40239	65.96	-13.32	-1.25	58.16	123.88	434.72	70.60	184.73	205.16	299.17	120.22	351.56	130.10	193.01	250.74
40240	66.25	-12.37	-1.25	52.05	103.52	401.56	61.83	182.24	196.50	309.96	94.42	321.19	149.24	139.54	213.03
40241	64.76	-13.47	-1.25	80.94	160.23	557.06	75.22	208.36	253.41	358.03	168.02	451.39	133.40	325.06	376.62
40242	65.14	-12.72	-1.25	57.41	130.61	435.98	70.33	177.94	211.42	334.45	124.06	352.60	148.49	225.58	272.01
40243	65.52	-11.98	-1.25	52.99	111.04	403.50	63.74	176.01	201.63	341.78	100.43	326.64	165.87	158.21	225.87
40244	63.89	-12.60	-1.25	76.66	165.21	544.79	72.16	197.62	255.57	406.64	168.77	462.25	162.01	386.79	415.57
40245	64.35	-12.08	-1.25	56.54	139.19	437.15	70.26	171.52	218.71	376.86	129.66	371.44	172.01	264.37	300.10
40246	64.81	-11.56	-1.25	54.45	118.66	405.73	66.10	170.40	207.82	378.06	106.87	344.81	187.51	182.58	243.93
40247	67.48	9.45	1.75	136.39	62.66	288.33	56.58	174.44	169.69	730.57	54.20	221.26	247.57	81.28	175.73
40248	66.50	9.41	1.75	160.55	70.32	297.64	65.88	166.38	169.77	845.18	58.37	235.17	293.20	75.14	178.65
40249	65.53	9.37	1.75	193.30	79.81	308.88	78.88	161.64	171.52	987.85	67.87	291.05	351.85	68.25	184.13
40250	67.30	10.36	1.75	115.36	70.53	304.24	63.65</								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
40279	74.45	12.86	1.75	63.19	46.78	288.15	41.48	228.36	168.84	243.37	53.31	345.74	83.38	71.78	170.76
40280	73.34	12.72	1.75	63.26	48.74	292.28	43.21	219.96	167.56	266.66	53.20	338.47	97.70	79.72	170.23
40281	72.24	12.54	1.75	64.14	51.44	296.89	45.18	212.53	166.66	293.80	52.93	328.14	114.38	88.70	170.45
40282	71.15	12.33	1.75	66.06	54.93	301.85	47.51	204.21	166.13	325.39	52.74	314.76	134.02	98.52	171.54
40283	70.08	12.10	1.75	69.33	59.27	307.04	50.41	195.18	165.95	362.19	53.32	298.74	157.47	108.98	173.57
40284	69.03	11.83	1.75	74.36	64.66	312.44	54.22	185.65	166.15	405.25	56.02	281.33	185.99	119.87	176.64
40285	68.00	11.54	1.75	81.74	71.43	318.04	59.56	175.92	166.87	456.04	63.20	265.89	221.86	131.03	180.74
40286	77.85	14.74	1.75	71.32	50.76	316.97	45.28	235.38	166.10	178.50	57.85	390.31	42.75	52.30	168.91
40287	76.67	14.68	1.75	69.06	50.49	318.50	46.34	232.33	163.99	189.10	57.85	392.15	51.69	54.37	167.58
40288	75.49	14.57	1.75	66.85	50.80	320.66	47.43	228.13	162.56	201.67	57.58	390.78	61.72	59.99	167.06
40289	74.33	14.42	1.75	64.79	51.77	323.39	48.54	222.83	161.71	216.42	57.00	386.05	73.08	68.50	167.39
40290	73.18	14.22	1.75	63.00	53.45	326.53	49.67	216.49	161.35	233.58	56.14	377.75	86.06	79.21	168.59
40291	72.05	13.97	1.75	61.61	55.89	329.95	50.86	209.20	161.40	253.37	55.16	365.76	101.06	91.64	170.72
40292	70.94	13.68	1.75	60.82	59.18	333.54	52.20	201.07	161.76	276.02	54.56	350.13	118.58	105.50	173.81
40293	69.86	13.35	1.75	60.83	63.43	337.20	53.87	192.24	162.35	301.82	55.37	331.35	139.31	120.60	177.95
40294	68.80	12.98	1.75	61.92	68.87	340.84	56.17	182.87	163.14	331.08	59.49	310.95	164.20	136.88	183.22
40295	67.77	12.56	1.75	64.43	76.04	344.41	59.62	173.15	164.16	364.03	70.10	292.64	194.71	154.44	189.85
40296	77.84	16.38	1.75	77.51	48.60	366.29	52.83	234.44	155.53	168.03	55.11	445.55	31.36	47.18	162.99
40297	76.62	16.31	1.75	74.61	48.32	367.43	53.65	231.06	153.94	175.59	54.76	448.19	39.20	46.80	162.84
40298	75.41	16.17	1.75	71.55	48.68	368.74	54.31	226.61	153.10	184.49	54.07	446.81	47.87	52.39	163.64
40299	74.21	15.98	1.75	68.40	49.76	370.16	54.80	221.12	152.90	194.86	53.05	441.15	57.59	62.80	165.39
40300	73.04	15.73	1.75	65.24	51.62	371.57	55.13	214.65	153.22	206.75	51.78	430.95	68.60	76.53	168.11
40301	71.88	15.41	1.75	62.13	54.29	372.86	55.34	207.26	153.92	220.17	50.52	416.05	81.22	92.58	171.85
40302	70.75	15.04	1.75	59.19	57.82	373.91	55.49	199.03	154.86	235.10	49.89	396.55	95.81	110.44	176.66
40303	69.65	14.61	1.75	56.54	62.32	374.63	55.74	190.07	155.95	251.55	51.02	373.07	112.81	129.85	182.69
40304	68.58	14.13	1.75	54.38	67.97	374.92	56.29	180.52	157.11	269.56	55.81	347.36	132.73	150.71	190.14
40305	67.55	13.59	1.75	52.96	75.09	374.69	57.46	170.54	158.35	288.97	66.56	323.54	156.19	173.09	199.41
40306	77.82	18.02	1.75	84.16	37.65	426.38	57.93	234.63	132.84	160.96	43.45	513.47	18.15	43.74	149.10
40307	76.57	17.94	1.75	80.87	37.82	426.79	58.56	230.76	131.96	166.28	43.10	516.64	24.46	38.38	150.26
40308	75.34	17.78	1.75	77.23	39.08	426.60	58.90	225.85	132.19	172.35	42.62	514.65	31.58	42.60	152.59
40309	74.11	17.55	1.75	73.31	41.39	425.79	58.95	219.95	133.33	179.17	42.02	507.17	39.61	54.94	156.12
40310	72.91	17.24	1.75	69.16	44.62	424.31	58.73	213.10	135.20	186.72	41.38	493.90	48.73	71.92	160.89
40311	71.73	16.86	1.75	64.87	48.65	422.09	58.27	205.37	137.59	194.93	40.94	474.73	59.09	91.54	166.99
40312	70.57	16.40	1.75	60.52	53.39	419.12	57.60	196.84	140.28	203.69	41.22	449.85	70.86	112.97	174.52
40313	69.45	15.88	1.75	56.23	58.85	415.37	56.82	187.64	143.14	212.91	43.12	420.05	84.25	135.91	183.66
40314	68.37	15.29	1.75	52.13	65.11	410.87	56.03	177.92	146.05	222.66	47.95	387.33	99.48	160.32	194.63
40315	67.34	14.63	1.75	48.46	72.41	405.68	55.43	167.88	148.94	233.62	57.20	356.05	116.82	186.14	207.84
40316	62.67	9.51	1.75	356.73	296.87	378.21	253.16	191.28	233.41	1563.55	717.74	817.92	968.15	269.22	341.39
40317	63.26	10.51	1.75	70.02	180.86	365.07	101.97	128.51	178.96	439.62	351.97	550.03	403.99	348.36	330.93
40318	63.91	11.47	1.75	52.44	132.49	377.58	67.70	133.16	164.95	339.27	202.21	443.47	247.90	314.57	294.32
40319	63.62	9.44	1.75	288.06	126.48	346.10	139.46	171.68	187.44	1329.95	179.50	600.86	583.06	106.83	227.08
40320	64.03	10.31	1.75	155.76	142.46	353.53	126.38	147.21	183.92	783.17	246.69	476.56	511.64	194.88	231.03
40321	64.48	11.15	1.75	76.44	125.34	361.30	87.14	140.48	171.32	455.73	197.96	388.07	342.55	246.07	239.78
40322	64.57	9.37	1.75	235.29	96.33	324.96	100.01	162.42	176.20	1151.43	96.73	412.27	436.42	75.16	196.37
40323	64.80	10.12	1.75	168.34	106.04	335.11	104.60	153.79	177.43	856.77	135.19	371.35	443.62	129.21	200.85
40324	65.05	10.84	1.75	109.29	110.64	345.75	92.78	149.46	173.81	599.09	156.43	340.32	379.38	183.30	209.21
40325	66.37	13.92	1.75	45.63	81.21	399.73	55.32	158.06	151.96	245.47	73.34	334.93	136.32	213.23	222.51
40326	66.64	13.04	1.75	52.75	83.62	373.43	59.58	161.28	159.92	309.14	85.03	309.79	182.57	194.93	209.01
40327	66.91	12.16	1.75	68.08	83.92	347.15	63.95	164.70	165.43	396.30	87.01	284.15	226.54	170.39	196.30
40328	65.49	13.17	1.75	43.90	92.08	393.01	56.19	148.73	155.18	259.76	96.48	335.21	159.80	242.78	240.57
40329	65.85	12.48	1.75	54.32	93.58	371.08	63.44	153.04	162.01	333.37	109.49	312.63	214.66	215.62	219.85
40330	66.21	11.79	1.75	73.67	92.20	348.95	69.49	157.87	167.05	432.66	107.92	288.60	260.94	183.19	202.68
40331	64.65	12.36	1.75	43.23	106.85	385.81	59.26	139.97	159.17	276.36	131.68	369.37	192.06	276.67	263.67
40332	65.09	11.88	1.75	58.73	107.40	368.32	70.46	145.34	164.98	366.03	146.43	340.55	258.98	237.49	232.89
40333	65.52	11.40	1.75	81.70	101.74	350.49	78.51	151.45	169.57	475.80	131.41	310.26	309.46	196.37	210.28
40334	67.19	9.46	0.25	116.20	63.77	322.89	50.67	194.05	188.06	606.64	57.36	250.02	209.42	52.53	187.44
40335	66.19	9.42	0.25	132.83	72.01	332.92	57.50	187.71	189.79	685.02	62.52	282.34	240.56	64.10	191.09
40336	65.19	9.37	0.25	153.54	81.93	344.84	66.05	185.33	193.90	772.67	70.20	356.13	276.38	78.94	199.86
40337	66.98	10.39	0.25	98.54	73.89	336.92	58.31	187.34	188.22	531.24	63.98	265.56	227.92	67.11	189.61
40338	66.11	10.26	0.25	109.71	82.14	345.13	65.30	181.31	191.63	587.85	71.56	288.62	259.99	73.22	195.44
40339	65.25	10.12	0.25	123.01	92.39	354.82	74.46	177.62	197.14	648.01	83.52	340.17	299.16	84.51	205.24
40340	66.79	11.33	0.25	78.12	85.20	354.48	62.50	181.79	188.66	442.28	76.37	283.40	224.21	107.14	196.40
40341	66.06	11.10	0.25	84.25	92.38	360.40	67.90	176.22	192.64	480.19	85.24	296.93	252.67	116.85	203.82
40342	65.33	10.86	0.25	92.28	102.41	367.51	74.51	171.67	197.83	523.54	101.53	329.78	283.13	131.15	214.31
40343	77.90	9.85	0.25	53.97	31.50	249.37	21.53	267.22	210.73	183.47	34.63	315.99	48.91	59.87	210.98
40344	76.81	9.83	0.25	54.89	31.61	251.64	22.81	265.07	207.52	202.45	35.94	315.22	56.67	59.39	207.66
40345	75.72	9.81	0.25	56.58	32.42	255.90	24.38	261.41	204.34	225.13	37.58	312.59	65.61	58.58	204.28
40346	74.63	9.79	0.25	59.16	33.90	261.85	26.20	256.28	201.23	251.88	39.44	307.91	75.91	57.33	200.89
40347	73.55	9.76	0.25	62.72	36.05	269.13	28.26	249.73	198.23	283.22	41.46	301.04	87.78	55.57	197.55
40348	72.48	9.72	0.25	67.43	38.85	277.36	30.62	241.89							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
40377	72.97	14.38	0.25	61.28	63.81	352.89	51.37	228.17	172.43	205.23	67.25	393.26	79.73	68.72	175.66
40378	71.81	14.12	0.25	59.45	66.64	356.69	52.76	220.82	173.97	224.17	67.70	380.57	92.99	78.89	178.44
40379	70.68	13.82	0.25	58.13	70.30	360.83	54.24	212.71	176.08	246.05	68.36	364.69	108.28	90.48	182.38
40380	69.57	13.48	0.25	57.49	74.86	365.27	55.87	204.07	178.71	270.97	69.69	346.36	126.02	103.57	187.62
40381	68.49	13.09	0.25	57.68	80.47	370.02	57.79	195.13	181.89	298.89	72.55	327.45	146.75	118.53	194.38
40382	67.44	12.67	0.25	58.85	87.54	375.12	60.27	186.13	185.71	329.55	78.61	312.13	171.27	136.18	203.14
40383	77.81	16.65	0.25	78.46	74.94	401.66	59.54	246.92	175.77	150.91	81.98	473.49	32.42	41.72	181.90
40384	76.54	16.57	0.25	75.24	74.40	402.47	60.35	243.80	174.64	156.85	82.07	475.41	39.44	40.18	182.10
40385	75.28	16.43	0.25	71.97	74.30	403.84	61.06	239.64	174.50	164.59	81.91	473.62	47.16	44.88	183.47
40386	74.05	16.22	0.25	68.71	74.69	405.63	61.62	234.48	175.21	174.30	81.45	467.81	55.76	54.59	185.95
40387	72.83	15.96	0.25	65.53	75.64	407.73	62.00	228.40	176.61	186.05	80.65	457.78	65.43	67.70	189.54
40388	71.65	15.63	0.25	62.50	77.21	410.04	62.17	221.49	178.54	199.90	79.56	443.42	76.40	83.31	194.25
40389	70.49	15.24	0.25	59.68	79.45	412.49	62.14	213.86	180.86	215.79	78.36	424.85	88.93	101.13	200.12
40390	69.36	14.80	0.25	57.10	82.47	415.00	61.95	205.61	183.43	233.59	77.49	402.73	103.35	121.26	207.30
40391	68.27	14.30	0.25	54.81	86.41	417.49	61.67	196.86	186.15	253.04	77.85	378.83	119.97	143.99	216.08
40392	67.22	13.74	0.25	52.85	91.51	419.87	61.49	187.74	189.01	273.49	80.98	357.25	139.18	169.88	227.11
40393	77.80	18.36	0.25	86.58	51.45	496.08	65.30	252.73	164.66	150.32	56.99	575.57	19.26	38.01	179.90
40394	76.51	18.28	0.25	83.16	51.38	496.05	65.69	249.10	163.87	154.57	56.67	578.61	24.78	29.94	181.21
40395	75.23	18.11	0.25	79.48	52.12	495.57	65.61	244.44	164.03	160.03	56.12	576.47	30.86	33.77	183.56
40396	73.97	17.87	0.25	75.59	53.66	494.54	65.11	238.76	164.99	166.76	55.37	568.72	37.72	47.64	186.97
40397	72.73	17.54	0.25	71.48	55.96	492.89	64.20	232.09	166.57	174.73	54.43	555.05	45.59	66.41	191.47
40398	71.51	17.15	0.25	67.17	58.94	490.58	62.95	224.45	168.59	183.77	53.42	535.27	54.70	87.96	197.17
40399	70.33	16.67	0.25	62.68	62.54	487.53	61.44	215.91	170.86	193.59	52.67	509.51	65.25	111.71	204.28
40400	69.18	16.13	0.25	58.02	66.74	483.68	59.75	206.55	173.24	203.79	52.78	478.51	77.42	137.60	213.12
40401	68.07	15.51	0.25	53.24	71.63	478.94	58.02	196.44	175.62	213.91	54.82	444.18	91.33	165.72	224.19
40402	67.01	14.83	0.25	48.39	77.28	473.23	56.41	185.71	177.88	223.72	60.10	410.71	106.98	195.93	238.36
40403	62.26	9.53	0.25	246.63	240.75	423.29	180.81	206.39	267.16	1106.31	496.78	702.49	693.53	305.07	418.42
40404	62.86	10.56	0.25	47.61	162.94	412.29	81.00	140.64	211.14	335.26	258.48	521.57	315.08	345.24	387.48
40405	63.51	11.56	0.25	40.44	125.95	431.94	60.54	146.18	194.41	287.10	159.83	454.97	210.13	329.85	346.80
40406	63.24	9.45	0.25	207.38	120.92	386.90	104.59	192.70	218.90	963.62	131.53	599.57	420.52	140.38	272.51
40407	63.65	10.35	0.25	114.95	139.89	395.77	101.57	166.40	218.10	618.38	184.83	494.41	391.45	210.49	274.71
40408	64.10	11.22	0.25	60.83	128.39	408.18	75.50	158.66	205.58	399.92	155.80	416.09	276.33	257.60	279.66
40409	64.21	9.38	0.25	177.04	97.31	361.57	79.20	186.82	202.24	861.33	86.76	469.81	326.06	93.24	221.30
40410	64.43	10.15	0.25	129.91	108.74	370.67	87.07	173.96	206.04	679.73	110.26	414.74	345.01	120.37	226.44
40411	64.68	10.90	0.25	86.90	115.79	382.27	80.57	166.76	203.64	506.96	127.28	374.51	304.52	173.57	235.47
40412	66.03	14.10	0.25	43.94	84.25	465.99	55.22	174.87	180.37	232.48	70.96	386.06	124.01	227.48	255.27
40413	66.29	13.17	0.25	51.51	97.80	420.78	61.66	179.17	191.94	293.55	88.99	345.10	160.16	196.39	238.69
40414	66.56	12.26	0.25	60.74	94.95	379.53	63.04	178.55	189.66	358.41	88.05	307.40	195.86	153.95	212.12
40415	65.12	13.31	0.25	40.12	93.13	456.86	54.87	164.29	183.28	240.66	87.54	380.06	143.74	260.91	277.86
40416	65.48	12.59	0.25	50.87	105.14	419.81	62.86	171.22	195.05	314.41	101.96	348.16	184.77	222.21	252.14
40417	65.85	11.88	0.25	63.80	102.18	383.11	66.28	172.70	193.70	388.22	99.86	315.64	221.39	169.77	221.56
40418	64.27	12.48	0.25	36.99	104.97	446.08	55.94	154.08	187.13	248.03	112.29	402.83	168.83	295.64	308.36
40419	64.71	11.97	0.25	51.59	115.32	417.94	65.93	163.57	198.93	338.58	123.99	373.93	271.15	249.09	269.41
40420	65.16	11.48	0.25	68.13	110.01	386.93	71.59	167.46	198.73	420.74	113.83	340.78	256.00	187.83	233.92
40421	66.90	9.48	-1.25	86.04	60.50	360.61	41.54	209.06	200.69	427.22	54.89	286.13	154.40	72.37	197.76
40422	65.88	9.43	-1.25	94.10	69.23	369.12	46.22	200.25	201.12	473.61	62.58	322.73	171.42	82.28	199.88
40423	64.86	9.39	-1.25	103.19	79.82	377.29	51.68	193.43	203.18	526.17	72.27	383.99	189.46	88.86	208.53
40424	66.69	10.44	-1.25	73.14	71.85	371.20	49.20	198.57	198.67	387.74	63.11	294.99	167.78	63.47	196.46
40425	65.80	10.31	-1.25	78.26	80.70	377.32	54.08	190.54	201.23	426.38	70.77	318.81	185.89	72.95	201.78
40426	64.92	10.16	-1.25	83.87	91.50	383.42	59.89	183.79	205.48	469.07	80.48	360.42	206.78	88.50	212.73
40427	66.49	11.41	-1.25	59.54	86.11	383.57	55.56	188.88	196.70	343.41	76.01	305.06	166.14	91.89	199.16
40428	65.74	11.18	-1.25	62.05	93.96	387.37	59.22	182.05	200.52	375.20	82.84	317.43	182.94	104.55	207.53
40429	64.99	10.93	-1.25	65.32	104.46	391.56	63.52	175.82	205.67	412.80	92.26	342.65	200.32	124.66	220.66
40430	77.89	9.88	-1.25	46.98	25.46	275.31	17.24	286.60	224.23	127.17	25.41	335.45	40.16	61.17	225.21
40431	76.77	9.86	-1.25	47.16	25.66	278.03	18.56	284.69	221.39	141.52	25.92	333.42	46.14	57.98	222.29
40432	75.65	9.84	-1.25	48.02	26.64	283.22	20.13	281.13	218.49	159.07	27.01	329.55	53.13	54.15	219.22
40433	74.54	9.82	-1.25	49.65	28.37	290.48	21.88	275.97	215.58	179.94	28.63	323.70	61.20	49.83	216.03
40434	73.43	9.78	-1.25	52.12	30.80	299.37	23.80	269.27	212.69	204.28	30.73	315.78	70.47	45.32	212.75
40435	72.32	9.74	-1.25	55.49	33.89	309.38	25.89	261.13	209.89	232.26	33.26	305.88	81.06	41.38	209.45
40436	71.23	9.70	-1.25	59.80	37.63	320.01	28.21	251.73	207.25	264.01	36.23	294.42	93.06	39.42	206.18
40437	70.13	9.65	-1.25	65.07	42.06	330.80	30.85	241.34	204.84	299.61	39.71	282.63	106.55	41.39	203.09
40438	69.04	9.59	-1.25	71.29	47.28	341.35	33.90	230.34	202.82	339.06	43.84	273.29	121.47	48.46	200.37
40439	67.96	9.53	-1.25	78.42	53.43	351.37	37.43	219.29	201.38	382.19	48.83	271.82	137.56	59.82	198.36
40440	77.86	11.64	-1.25	52.82	31.81	306.05	23.51	276.42	207.68	123.68	32.17	364.32	41.41	59.74	208.32
40441	76.67	11.60	-1.25	51.68	32.07	308.22	24.77	274.26	205.42	135.31	32.81	362.40	47.91	57.76	205.88
40442	75.50	11.54	-1.25	51.05	33.25	312.36	26.30	270.40	203.31	149.94	34.02	358.21	55.48	55.66	203.44
40443	74.34	11.46	-1.25	51.02	35.29	318.12	28.04	264.93	201.37	167.70	35.72	351.65	64.24	53.49	201.03
40444	73.20	11.36	-1.25	51.67	38.13	325.10	29.98	257.94	199.66	188.69	37.85	342.67	74.32	51.39	198.74
40445	72.07	11.25	-1.25	53.10	41.72	332.86	32.16	249.60	198.23	213.06	40.39	331.38	85.87	49.60	196.66
40446	70.95	11.11	-1.25	55.37	46.06	341.00	34.64	240.09	197.14	240.94					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
40475	71.46	15.87	-1.25	65.04	95.06	419.81	68.07	223.42	175.44	172.98	103.36	440.03	66.84	77.49	184.62
40476	70.27	15.47	-1.25	62.52	98.97	422.30	68.87	216.04	180.32	190.05	105.70	422.54	76.56	93.52	192.71
40477	69.11	15.01	-1.25	60.56	103.79	425.16	69.56	208.25	185.82	210.92	108.40	402.42	87.56	112.20	202.89
40478	67.99	14.49	-1.25	59.25	109.59	428.52	70.12	200.27	191.94	236.18	111.65	381.38	100.05	134.53	215.83
40479	66.91	13.91	-1.25	58.61	116.54	432.35	70.57	192.31	198.69	266.44	115.78	362.79	114.36	162.11	232.64
40480	77.78	18.70	-1.25	86.57	140.04	579.50	101.71	278.18	231.14	130.94	154.16	652.94	28.53	34.83	249.64
40481	76.45	18.62	-1.25	83.32	139.18	579.25	101.64	275.08	230.29	132.78	155.48	656.40	32.00	22.95	251.99
40482	75.14	18.44	-1.25	81.06	138.91	578.89	100.98	271.24	230.48	137.27	156.95	654.95	35.96	24.07	255.63
40483	73.84	18.19	-1.25	79.79	139.23	578.37	99.73	266.66	231.58	144.77	158.50	648.18	40.54	38.42	260.48
40484	72.56	17.85	-1.25	79.42	140.13	577.66	97.94	261.38	233.43	155.69	160.06	635.73	45.90	58.34	266.59
40485	71.31	17.44	-1.25	79.79	141.58	576.76	95.62	255.45	235.86	170.42	161.54	617.35	52.26	81.74	274.06
40486	70.10	16.95	-1.25	80.69	143.55	575.66	92.83	248.93	238.70	189.34	162.93	593.01	59.88	108.75	283.14
40487	68.92	16.39	-1.25	81.84	146.03	574.35	89.65	241.89	241.82	212.82	164.21	563.21	69.10	140.17	294.30
40488	67.79	15.75	-1.25	82.95	148.99	572.79	86.17	234.41	245.09	241.32	165.44	529.52	80.40	177.04	308.32
40489	66.70	15.04	-1.25	83.67	152.45	570.94	82.51	226.60	248.52	275.61	166.68	495.47	94.39	220.40	326.76
40490	61.85	9.55	-1.25	138.82	206.52	463.74	112.40	192.68	283.16	858.02	216.83	611.59	434.90	400.92	500.47
40491	62.46	10.62	-1.25	57.62	181.91	478.75	73.39	166.55	258.31	509.25	167.31	536.03	265.20	469.09	490.22
40492	63.12	11.65	-1.25	68.93	170.72	519.00	69.97	183.68	255.11	467.32	165.14	492.87	203.88	444.27	455.70
40493	62.85	9.47	-1.25	125.55	119.61	401.08	76.06	184.82	223.80	686.49	107.20	528.57	275.54	180.82	300.21
40494	63.27	10.40	-1.25	74.38	141.36	410.22	78.25	165.46	228.54	527.44	127.59	450.87	263.76	242.97	306.12
40495	63.73	11.30	-1.25	54.85	143.48	426.88	70.94	164.32	223.57	425.46	130.48	399.69	207.03	280.99	314.61
40496	63.85	9.40	-1.25	112.31	95.46	386.63	60.07	187.34	208.66	589.98	86.42	456.53	216.18	104.95	234.35
40497	64.08	10.19	-1.25	84.86	109.16	392.77	68.33	175.50	213.25	510.04	96.52	407.78	232.76	132.96	239.32
40498	64.33	10.96	-1.25	61.95	120.52	401.72	68.66	169.02	212.59	428.66	107.57	371.42	212.98	175.48	249.08
40499	65.69	14.28	-1.25	83.33	156.24	566.17	78.78	218.15	251.46	315.13	167.47	466.51	111.71	269.68	348.32
40500	65.96	13.32	-1.25	58.15	123.75	435.01	70.67	184.82	205.25	299.25	120.00	351.81	130.02	192.95	250.75
40501	66.25	12.37	-1.25	52.07	103.44	401.76	61.93	182.33	196.62	309.99	94.29	321.36	149.21	139.43	213.11
40502	64.76	13.47	-1.25	80.92	160.13	557.45	75.33	208.44	253.47	358.16	167.84	451.74	133.26	325.09	376.55
40503	65.14	12.72	-1.25	57.40	130.51	436.27	70.44	178.04	211.53	334.53	123.87	352.84	148.39	225.51	272.02
40504	65.52	11.98	-1.25	53.01	110.99	403.71	63.86	176.11	201.77	341.82	100.32	326.80	165.83	158.08	225.95
40505	63.89	12.60	-1.25	76.64	165.14	545.20	72.31	197.72	255.66	406.77	168.60	462.58	161.82	386.81	415.47
40506	64.35	12.08	-1.25	56.53	139.13	437.44	70.40	171.63	218.84	376.89	129.51	371.66	171.87	264.28	300.09
40507	64.81	11.56	-1.25	54.47	118.62	405.93	66.24	170.51	207.96	378.05	106.78	344.95	187.44	182.43	243.99
40508	89.42	-9.45	1.75	68.05	58.41	300.41	40.38	198.52	235.18	134.53	48.58	237.32	32.19	109.04	233.38
40509	90.40	-9.41	1.75	69.24	61.38	313.27	43.89	191.44	238.34	130.35	50.90	244.18	36.54	121.57	236.51
40510	91.37	-9.37	1.75	69.99	64.15	328.02	47.21	184.81	241.67	124.20	52.96	260.10	41.32	134.50	239.95
40511	89.60	-10.36	1.75	72.80	61.92	314.44	42.19	199.63	230.94	132.82	51.76	251.58	32.06	119.83	228.89
40512	90.45	-10.23	1.75	73.26	64.03	325.38	44.78	193.87	234.43	128.57	53.06	258.04	36.22	130.05	232.43
40513	91.30	-10.09	1.75	73.30	66.01	337.59	47.11	188.24	237.92	122.94	54.09	271.21	40.62	140.04	236.08
40514	89.77	-11.27	1.75	77.36	65.03	331.70	43.75	201.61	226.70	130.56	54.18	269.18	32.15	130.78	224.53
40515	90.50	-11.05	1.75	77.13	66.26	339.84	45.29	196.76	230.43	126.43	54.45	274.08	35.96	138.32	228.40
40516	91.21	-10.81	1.75	76.41	67.51	348.75	47.02	191.60	233.75	120.97	54.64	283.36	40.20	145.50	231.89
40517	78.98	-9.82	1.75	58.33	34.45	225.46	23.32	248.78	201.04	206.96	40.95	294.24	46.55	61.14	201.03
40518	80.04	-9.81	1.75	58.14	35.50	226.95	22.74	248.36	204.71	191.70	39.84	290.54	39.80	59.53	204.64
40519	81.10	-9.79	1.75	58.41	37.03	230.21	22.64	246.63	208.34	179.06	39.07	285.50	34.03	58.87	208.16
40520	82.15	-9.77	1.75	59.04	38.95	235.14	23.08	243.65	211.90	168.72	38.74	279.31	29.29	59.42	211.56
40521	83.21	-9.74	1.75	59.96	41.19	241.54	24.11	239.49	215.38	160.38	38.88	272.17	25.67	61.44	214.84
40522	84.26	-9.70	1.75	61.10	43.71	249.19	25.72	234.27	218.78	153.77	39.51	264.32	23.37	65.15	218.00
40523	85.30	-9.66	1.75	62.40	46.44	257.87	27.88	228.11	222.10	148.56	40.63	256.15	22.56	70.62	221.06
40524	86.34	-9.62	1.75	63.81	49.35	267.39	30.52	221.20	225.36	144.46	42.19	248.21	23.27	77.87	224.07
40525	87.38	-9.56	1.75	65.27	52.39	277.64	33.57	213.75	228.62	141.08	44.16	241.41	25.32	86.82	227.09
40526	88.42	-9.50	1.75	66.75	55.52	288.65	36.92	206.02	231.92	137.98	46.43	237.10	28.44	97.33	230.20
40527	79.01	-11.46	1.75	62.22	39.61	250.68	29.29	244.16	189.77	193.09	45.82	317.80	46.01	59.12	189.81
40528	80.11	-11.43	1.75	62.99	40.73	251.53	28.55	244.03	193.49	180.64	45.04	313.06	38.75	58.74	193.39
40529	81.21	-11.38	1.75	63.98	42.32	253.88	28.24	242.61	197.36	170.44	44.53	306.72	32.54	59.92	197.06
40530	82.31	-11.31	1.75	65.13	44.29	257.71	28.40	239.99	201.35	162.19	44.36	299.07	27.41	62.74	200.81
40531	83.39	-11.22	1.75	66.38	46.55	262.88	29.08	236.24	205.45	155.60	44.57	290.37	23.54	67.16	204.62
40532	84.47	-11.12	1.75	67.66	49.02	269.23	30.30	231.52	209.62	150.37	45.16	281.01	21.19	73.09	208.48
40533	85.53	-10.99	1.75	68.93	51.63	276.60	32.01	225.95	213.85	146.19	46.12	271.48	20.61	80.42	212.42
40534	86.59	-10.85	1.75	70.15	54.31	284.88	34.18	219.72	218.15	142.74	47.37	262.50	21.80	88.99	216.45
40535	87.63	-10.69	1.75	71.25	57.01	294.01	36.71	213.01	222.50	139.66	48.85	255.13	24.45	98.65	220.58
40536	88.66	-10.52	1.75	72.20	59.67	304.02	39.49	206.04	226.92	136.53	50.45	250.83	28.13	109.22	224.87
40537	79.03	-13.10	1.75	67.41	45.81	279.56	36.28	239.99	178.52	180.46	51.90	346.75	42.07	56.51	179.01
40538	80.18	-13.05	1.75	68.94	46.96	279.84	35.43	240.24	182.22	170.85	51.39	340.75	34.76	58.23	182.38
40539	81.32	-12.97	1.75	70.47	48.54	281.35	34.91	239.26	186.34	163.02	51.03	332.87	28.46	62.07	186.14
40540	82.45	-12.86	1.75	71.96	50.43	284.13	34.75	237.15	190.81	156.72	50.87	323.52	23.26	67.70	190.22
40541	83.56	-12.72	1.75	73.37	52.54	288.11	35.01	234.00	195.59	151.65	50.96	313.08	19.44	74.74	194.60
40542	84.66	-12.54	1.75	74.65	54.79	293.21	35.69	229.93	200.62	147.54	51.28	302.05	17.48	82.88	199.24
40543	85.75	-12.33	1.75	75.75	57.08	299.32	36.78	225.07	205.83	144.09	51.79	291.05	17.70	91.86	204.11
40544	86.82	-12.10	1.75	76.64	59.34	306.37	38.25	219.58	211.						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
40573	86.33	-16.40	1.75	94.34	56.60	413.68	48.48	231.91	170.80	134.94	46.37	397.70	20.91	136.19	173.39
40574	87.45	-15.88	1.75	93.70	59.95	411.30	47.24	227.33	179.38	131.08	47.13	378.01	25.69	146.07	180.88
40575	88.53	-15.29	1.75	92.50	63.07	408.86	46.36	221.73	188.26	126.79	48.01	361.01	30.48	154.29	189.02
40576	89.56	-14.63	1.75	90.72	65.87	406.41	45.97	215.18	197.26	121.98	48.96	348.10	35.20	160.73	197.61
40577	94.23	-9.51	1.75	68.18	71.82	385.56	54.40	163.29	247.25	87.93	54.97	367.87	57.03	160.52	247.50
40578	93.64	-10.51	1.75	73.24	72.28	389.78	52.23	172.59	239.75	93.88	54.27	356.44	54.31	164.01	240.02
40579	92.99	-11.47	1.75	78.16	72.35	394.35	50.35	182.05	231.78	100.09	53.42	347.59	51.50	167.08	232.03
40580	93.28	-9.44	1.75	68.65	69.06	366.29	52.02	171.09	246.12	99.17	53.75	325.62	52.16	155.43	245.25
40581	92.87	-10.31	1.75	72.65	69.68	372.26	50.21	177.85	240.18	101.85	53.09	324.18	50.12	157.84	239.32
40582	92.42	-11.15	1.75	76.67	69.88	378.55	48.46	184.58	233.61	105.06	52.23	323.91	47.88	159.99	232.82
40583	92.33	-9.37	1.75	69.95	66.82	346.30	50.19	178.35	244.39	113.65	54.19	287.95	46.71	147.19	242.93
40584	92.10	-10.12	1.75	73.10	67.91	353.89	49.18	183.05	240.01	113.50	54.31	294.15	45.42	150.33	238.48
40585	91.85	-10.84	1.75	76.19	68.61	361.96	47.93	187.87	235.17	113.96	53.98	300.94	43.85	152.92	233.66
40586	90.53	-13.92	1.75	88.59	68.30	403.77	46.27	207.89	206.08	117.21	50.21	340.29	39.77	165.07	206.18
40587	90.26	-13.04	1.75	85.17	67.39	378.73	45.01	205.54	215.18	121.30	51.76	315.72	36.10	153.50	213.80
40588	89.99	-12.16	1.75	81.63	67.23	353.88	44.96	203.74	221.92	126.68	54.85	291.19	33.37	142.31	219.89
40589	91.41	-13.17	1.75	85.71	70.20	400.81	47.19	199.93	214.75	111.92	51.25	337.80	44.04	167.52	214.86
40590	91.05	-12.48	1.75	82.87	68.46	379.97	45.85	198.94	221.18	115.95	51.57	316.05	40.60	157.44	219.99
40591	90.70	-11.79	1.75	80.38	67.96	358.81	45.85	198.58	226.29	122.16	54.42	293.94	37.37	147.73	223.43
40592	92.25	-12.36	1.75	82.40	71.74	397.98	48.57	191.37	223.28	106.31	52.53	340.99	47.91	168.27	223.48
40593	91.81	-11.88	1.75	80.12	69.53	381.10	46.94	191.79	227.09	110.07	51.65	320.62	44.73	160.01	226.18
40594	91.38	-11.40	1.75	78.62	68.45	363.76	46.81	192.99	230.62	116.81	53.74	300.16	41.31	152.34	229.04
40595	89.71	-9.46	0.25	71.14	60.49	330.19	43.50	205.89	242.92	135.13	54.43	255.29	36.60	101.82	240.98
40596	90.71	-9.42	0.25	74.38	64.80	342.42	48.54	197.95	246.20	137.81	59.17	259.69	41.41	116.12	244.21
40597	91.71	-9.37	0.25	77.88	69.13	356.88	53.74	191.65	250.49	139.66	64.20	274.40	46.75	133.44	248.60
40598	89.92	-10.39	0.25	77.57	66.54	343.75	46.64	206.34	238.98	137.80	60.35	269.28	37.00	114.58	236.72
40599	90.79	-10.26	0.25	79.95	69.88	354.51	50.69	200.57	243.21	139.42	63.99	274.40	41.41	127.23	241.00
40600	91.65	-10.12	0.25	82.31	73.16	367.30	54.62	195.95	248.19	140.25	67.69	287.82	46.05	141.63	246.14
40601	90.11	-11.33	0.25	84.05	73.25	361.23	50.01	208.70	236.40	140.07	66.87	287.65	37.29	128.63	233.95
40602	90.84	-11.10	0.25	85.43	75.21	369.98	52.71	204.54	241.29	140.51	68.96	292.55	41.17	138.87	239.00
40603	91.57	-10.86	0.25	86.54	77.17	380.45	55.57	200.82	246.36	139.84	71.07	303.46	45.40	150.12	244.25
40604	79.00	-9.85	0.25	53.59	32.00	249.15	20.58	267.86	213.99	168.02	33.74	314.85	42.20	60.12	214.28
40605	80.09	-9.83	0.25	53.85	33.09	250.99	20.11	267.00	217.26	155.56	33.27	312.10	36.54	60.32	217.50
40606	81.18	-9.81	0.25	54.57	34.73	254.96	20.21	264.64	220.43	145.86	33.38	307.92	31.90	60.61	220.54
40607	82.27	-9.79	0.25	55.68	36.84	260.84	20.97	260.83	223.48	138.63	34.09	302.45	28.32	61.23	223.40
40608	83.35	-9.76	0.25	57.13	39.35	268.33	22.42	255.67	226.42	133.61	35.40	295.84	25.91	62.46	226.08
40609	84.42	-9.72	0.25	58.87	42.20	277.10	24.54	249.25	229.23	130.53	37.30	288.26	24.76	64.65	228.60
40610	85.50	-9.68	0.25	60.85	45.37	286.78	27.30	241.72	231.93	129.15	39.76	280.01	24.94	68.17	230.99
40611	86.56	-9.63	0.25	63.07	48.82	297.08	30.62	233.28	234.57	129.20	42.75	271.52	26.39	73.38	233.31
40612	87.63	-9.57	0.25	65.53	52.55	307.79	34.47	224.18	237.21	130.45	46.26	263.58	28.95	80.58	235.65
40613	88.68	-9.51	0.25	68.25	56.56	318.83	38.83	214.81	239.99	132.60	50.27	257.45	32.48	90.03	238.17
40614	79.03	-11.54	0.25	58.91	38.62	276.56	26.92	260.80	200.34	159.59	40.88	340.06	42.39	58.12	200.42
40615	80.18	-11.51	0.25	60.10	39.77	277.63	26.27	260.23	203.77	149.75	40.53	336.00	36.25	58.94	203.78
40616	81.32	-11.45	0.25	61.53	41.51	280.52	26.15	258.14	207.32	142.37	40.72	330.26	31.23	60.48	207.15
40617	82.45	-11.37	0.25	63.16	43.74	285.06	26.64	254.66	210.96	137.16	41.49	323.02	27.38	62.87	210.52
40618	83.57	-11.28	0.25	64.93	46.37	291.01	27.79	249.89	214.67	133.81	42.84	314.54	24.83	66.24	213.91
40619	84.67	-11.17	0.25	66.82	49.32	298.10	29.61	243.98	218.45	132.06	44.74	305.11	23.73	70.76	217.32
40620	85.76	-11.04	0.25	68.80	52.53	306.07	32.06	237.13	222.31	131.65	47.14	295.16	24.15	76.55	220.81
40621	86.84	-10.89	0.25	70.88	55.94	314.71	35.09	229.55	226.26	132.32	50.00	285.33	25.97	83.76	224.43
40622	87.91	-10.73	0.25	73.05	59.51	323.90	38.64	221.54	230.36	133.84	53.27	276.59	28.96	92.51	228.28
40623	88.96	-10.55	0.25	75.34	63.19	333.68	42.64	213.44	234.73	135.91	56.89	270.45	32.88	102.96	232.48
40624	79.05	-13.25	0.25	65.82	48.15	307.05	35.07	253.94	186.61	153.06	51.20	369.82	39.67	54.93	186.60
40625	80.26	-13.19	0.25	67.75	49.32	307.42	34.29	253.77	190.15	145.91	50.92	364.26	33.50	57.29	189.96
40626	81.44	-13.10	0.25	69.70	51.08	309.27	33.97	252.15	194.12	140.80	51.11	356.74	28.47	61.08	193.65
40627	82.61	-12.98	0.25	71.66	53.30	312.46	34.18	249.22	198.49	137.42	51.81	347.55	24.67	66.13	197.65
40628	83.76	-12.82	0.25	73.59	55.89	316.87	34.96	245.13	203.19	135.50	53.01	337.05	22.32	72.26	201.94
40629	84.89	-12.64	0.25	75.50	58.73	322.32	36.34	240.05	208.20	134.78	54.67	325.68	21.64	79.40	206.53
40630	86.01	-12.42	0.25	77.37	61.74	328.67	38.30	234.17	213.47	135.02	56.73	314.04	22.66	87.49	211.42
40631	87.10	-12.18	0.25	79.19	64.83	335.80	40.78	227.72	218.99	135.98	59.12	302.99	25.15	96.54	216.65
40632	88.17	-11.90	0.25	80.97	67.92	343.71	43.73	220.97	224.77	137.39	61.76	293.73	28.75	106.61	222.26
40633	89.22	-11.60	0.25	82.67	70.91	352.51	47.03	214.20	230.88	138.95	64.55	287.96	33.15	117.81	228.32
40634	79.08	-14.95	0.25	73.86	61.02	342.61	45.50	248.63	175.93	149.11	65.27	406.17	34.17	51.02	176.72
40635	80.32	-14.88	0.25	76.33	62.18	342.43	44.60	248.95	179.45	144.37	64.96	398.91	28.30	56.35	179.75
40636	81.54	-14.76	0.25	78.64	63.83	343.41	44.04	247.99	183.81	141.17	64.98	389.48	23.49	63.56	183.58
40637	82.75	-14.59	0.25	80.80	65.84	345.48	43.87	245.89	188.93	139.26	65.36	378.26	19.98	71.99	188.13
40638	83.93	-14.38	0.25	82.80	68.09	348.61	44.13	242.77	194.69	138.38	66.07	365.76	18.18	81.24	193.34
40639	85.09	-14.12	0.25	84.84	70.47	352.75	44.82	238.80	200.99	138.30	67.08	352.57	18.38	91.06	199.15
40640	86.22	-13.82	0.25	86.30	72.87	357.84	45.95	234.15	207.73	138.79	68.31	339.50	20.46	101.32	205.52
40641	87.33	-13.48	0.25	87.78	75.17	363.89	47.47	229.01	214.82	139.58	69.66	327.61	23.90	112.01	212.36
40642	88.41	-13.09	0.25	89.04	77.24	370.94	49.32	223.58	222.18	140.39	71.03	318.32	28.23	123.15	219.63
40643	89.														



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
40671	92.47	-10.15	0.25	84.94	76.59	387.68	58.42	194.07	253.73	137.34	71.25	316.77	50.97	160.08	251.97
40672	92.22	-10.90	0.25	87.89	79.11	399.78	57.40	200.40	251.52	136.58	72.74	329.02	48.74	164.24	249.74
40673	90.87	-14.10	0.25	90.55	70.58	475.48	47.27	222.06	228.92	118.85	53.42	401.17	43.06	174.16	229.09
40674	90.61	-13.17	0.25	94.71	83.57	429.58	54.20	220.41	239.27	137.04	75.19	356.39	38.35	162.94	237.66
40675	90.34	-12.26	0.25	90.48	80.23	386.93	53.42	213.23	236.29	140.79	73.31	313.89	37.80	145.11	233.94
40676	91.78	-13.31	0.25	86.38	70.92	471.82	47.75	213.39	236.38	111.58	52.85	400.12	48.59	177.29	236.67
40677	91.42	-12.59	0.25	92.78	82.38	433.39	54.72	214.83	245.27	133.44	73.64	360.47	43.21	170.19	243.80
40678	91.05	-11.88	0.25	90.40	80.62	393.98	54.90	209.28	241.96	139.61	73.63	318.68	41.75	153.62	239.81
40679	92.63	-12.48	0.25	81.66	70.99	468.18	48.58	203.99	243.69	103.34	52.63	405.33	53.43	178.19	244.19
40680	92.19	-11.97	0.25	89.90	80.86	437.47	55.24	208.69	250.94	128.18	71.86	370.09	47.86	176.17	249.69
40681	91.74	-11.48	0.25	89.67	80.32	402.10	56.20	205.34	247.71	137.26	73.35	328.71	45.73	162.15	245.84
40682	90.00	-9.48	-1.25	72.71	59.01	362.54	44.42	210.01	246.54	128.07	56.16	274.78	40.69	89.24	244.37
40683	91.02	-9.43	-1.25	78.19	65.12	372.41	51.07	198.99	248.04	139.11	63.08	274.65	46.55	100.81	245.73
40684	92.04	-9.39	-1.25	85.43	72.28	382.86	58.89	189.69	250.59	152.86	71.62	283.11	53.65	116.88	248.32
40685	90.21	-10.44	-1.25	81.58	67.29	373.72	48.51	207.75	240.24	137.26	63.97	286.93	42.12	101.19	237.57
40686	91.10	-10.31	-1.25	86.50	72.94	381.77	54.57	199.73	243.29	147.12	70.53	287.62	47.71	112.32	240.62
40687	91.98	-10.16	-1.25	92.75	79.59	390.79	61.31	193.17	247.41	159.06	78.48	295.55	54.11	126.54	244.92
40688	90.41	-11.41	-1.25	91.62	78.33	387.30	53.98	207.63	235.41	147.84	74.80	302.30	43.94	115.40	232.36
40689	91.16	-11.18	-1.25	95.93	82.77	393.49	58.87	202.29	239.94	156.30	80.12	303.33	49.06	125.28	237.06
40690	91.91	-10.93	-1.25	101.30	88.53	400.98	64.69	197.95	245.27	166.25	87.00	309.94	55.01	137.50	242.67
40691	79.01	-9.88	-1.25	47.25	25.99	275.07	16.30	286.93	227.11	116.02	25.51	335.52	35.04	63.71	228.05
40692	80.13	-9.86	-1.25	48.13	27.19	277.30	15.94	285.61	229.91	107.62	26.20	333.93	30.94	65.62	230.73
40693	81.25	-9.84	-1.25	49.43	29.02	282.05	16.31	282.65	232.55	101.89	27.49	330.85	27.84	66.96	233.16
40694	82.36	-9.82	-1.25	51.10	31.36	289.04	17.46	278.07	234.99	98.60	29.33	326.38	25.79	67.83	235.34
40695	83.47	-9.78	-1.25	53.11	34.15	297.82	19.38	271.93	237.23	97.51	31.66	320.61	24.85	68.43	237.25
40696	84.58	-9.74	-1.25	55.45	37.32	307.94	22.01	264.30	239.23	98.40	34.44	313.64	25.05	69.03	238.88
40697	85.67	-9.70	-1.25	58.09	40.86	318.89	25.27	255.26	241.01	101.09	37.67	305.65	26.34	70.03	240.26
40698	86.77	-9.65	-1.25	61.07	44.76	330.19	29.12	245.00	242.57	105.44	41.38	296.94	28.61	71.93	241.41
40699	87.86	-9.59	-1.25	64.43	49.09	341.42	33.57	233.73	243.95	111.40	45.65	288.07	31.80	75.35	242.39
40700	88.94	-9.53	-1.25	68.29	53.91	352.29	38.69	221.81	245.26	118.98	50.63	280.05	35.89	80.94	243.34
40701	79.04	-11.64	-1.25	54.22	32.36	305.66	22.51	277.00	210.32	115.05	32.09	363.62	35.87	61.64	210.98
40702	80.23	-11.60	-1.25	55.93	33.63	307.03	21.94	275.94	213.32	108.99	32.56	360.59	31.44	63.49	213.87
40703	81.40	-11.54	-1.25	57.89	35.61	310.49	22.00	273.21	216.36	105.32	33.73	355.73	28.08	65.27	216.66
40704	82.56	-11.46	-1.25	60.05	38.19	315.79	22.78	268.87	219.41	103.78	35.55	349.22	25.84	67.09	219.36
40705	83.70	-11.36	-1.25	62.40	41.26	322.58	24.32	265.03	222.44	104.11	37.98	341.21	24.81	69.10	221.96
40706	84.83	-11.25	-1.25	64.92	44.73	330.46	26.64	255.81	225.44	106.09	40.95	331.92	25.04	71.54	224.49
40707	85.95	-11.11	-1.25	67.62	48.57	339.01	29.68	247.37	228.39	109.58	44.45	321.67	26.49	74.68	226.96
40708	87.06	-10.96	-1.25	70.55	52.75	347.87	33.43	237.93	231.32	114.48	48.48	310.95	29.06	78.88	229.43
40709	88.15	-10.79	-1.25	73.79	57.32	356.74	37.88	227.77	234.26	120.77	53.11	300.54	32.65	84.49	231.98
40710	89.23	-10.61	-1.25	77.48	62.31	365.49	43.04	217.29	237.32	128.54	58.43	291.72	37.20	91.94	234.76
40711	79.07	-13.40	-1.25	63.32	42.47	337.81	31.22	266.43	191.75	117.04	42.96	394.44	34.48	57.63	191.94
40712	80.31	-13.34	-1.25	65.67	43.77	338.39	30.50	265.76	194.94	113.28	43.19	389.81	30.09	60.17	194.99
40713	81.52	-13.25	-1.25	68.09	45.87	340.52	30.33	263.46	198.51	111.53	44.19	382.98	26.79	63.38	198.25
40714	82.72	-13.12	-1.25	70.56	48.62	344.06	30.78	259.64	202.42	111.50	45.92	374.23	24.66	67.20	201.71
40715	83.90	-12.96	-1.25	73.08	51.91	348.75	31.95	254.43	206.60	112.98	48.34	363.83	23.85	71.60	205.37
40716	85.07	-12.77	-1.25	75.68	55.62	354.32	33.87	248.01	211.00	115.82	51.40	352.13	24.44	76.63	209.22
40717	86.21	-12.54	-1.25	78.37	59.70	360.50	36.55	240.56	215.59	119.90	55.05	339.65	26.37	82.38	213.29
40718	87.33	-12.29	-1.25	81.24	64.09	367.04	40.00	232.35	220.34	125.20	59.28	327.10	29.52	89.00	217.62
40719	88.43	-12.01	-1.25	84.38	68.79	373.81	44.21	223.66	225.30	131.75	64.12	315.51	33.73	96.71	222.30
40720	89.50	-11.69	-1.25	87.95	73.83	380.80	49.14	214.89	230.57	139.66	69.63	306.41	38.89	105.82	227.45
40721	79.09	-15.17	-1.25	73.91	59.28	374.04	43.78	256.67	174.65	122.15	61.43	430.52	31.31	51.70	174.68
40722	80.37	-15.09	-1.25	76.76	60.61	373.97	42.96	256.50	177.96	120.42	61.39	424.10	27.21	56.37	177.69
40723	81.63	-14.97	-1.25	79.55	62.75	374.88	42.57	254.87	182.14	120.29	62.11	415.13	24.20	62.47	181.40
40724	82.86	-14.80	-1.25	82.30	65.56	376.73	42.70	251.88	187.09	121.53	63.60	403.99	22.46	69.52	185.76
40725	84.08	-14.58	-1.25	85.02	68.91	379.40	43.41	247.70	192.69	123.99	65.81	391.10	22.23	77.20	190.73
40726	85.27	-14.31	-1.25	87.76	72.68	382.77	44.79	242.49	198.83	127.57	68.70	377.02	23.55	85.33	196.29
40727	86.44	-14.00	-1.25	90.59	76.78	386.73	46.87	236.47	205.41	132.21	72.21	362.46	26.32	93.89	202.41
40728	87.57	-13.64	-1.25	93.61	81.14	391.22	49.69	229.90	212.39	137.96	76.30	348.40	30.29	102.96	209.10
40729	88.68	-13.24	-1.25	96.95	85.71	396.26	53.27	223.10	219.79	144.89	80.96	336.16	35.27	112.76	216.40
40730	89.75	-12.80	-1.25	100.76	90.54	402.03	57.61	216.43	227.65	153.16	86.29	327.56	41.11	123.65	224.38
40731	79.11	-16.93	-1.25	85.52	89.64	412.04	62.61	249.66	167.21	130.32	95.07	468.71	27.24	45.25	169.40
40732	80.42	-16.85	-1.25	88.90	90.94	411.54	61.67	250.13	170.43	130.28	94.53	460.45	23.50	54.32	171.71
40733	81.71	-16.70	-1.25	92.21	92.89	411.74	61.04	249.50	175.12	131.55	94.63	449.63	20.96	64.86	175.45
40734	82.98	-16.49	-1.25	95.46	95.38	412.68	60.75	247.86	181.09	133.96	95.37	436.74	19.99	76.07	180.51
40735	84.22	-16.21	-1.25	98.69	98.30	414.38	60.86	245.33	188.18	137.39	96.75	422.33	20.80	87.55	186.77
40736	85.44	-15.87	-1.25	101.99	101.53	416.86	61.40	242.08	196.22	141.83	98.72	407.13	23.28	99.13	194.15
40737	86.63	-15.47	-1.25	105.45	104.99	420.21	62.43	238.30	205.06	147.27	101.24	392.09	27.10	110.82	202.54
40738	87.79	-15.01	-1.25	109.17	108.57	424.55	63.99	234.22	214.60	153.78	104.27	378.48	31.93	122.80	211.87
40739	88.91	-14.49	-1.25	113.28	112.19	430.15	66.10	230.15	224.83	161.46	107.77	368.01	37.56	135.34	222.12
40740	89.99	-13.91	-1.25	117.90	115.80	437.25	68.86	226.42	235.75	170.44	111.73	362.71	43.91	148.90	232.27
4074															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
40769	97.56	-1.65	-2.70	83.61	72.20	381.70	140.76	129.78	230.03	243.68	86.14	434.61	140.71	144.20	230.02
40770	97.62	-0.55	-2.70	80.60	70.21	381.23	141.62	128.68	230.56	243.12	85.36	436.60	141.61	144.23	230.56
40771	97.62	0.55	-2.70	80.60	70.20	381.21	141.61	128.68	230.56	243.12	85.36	436.63	141.60	144.23	230.56
40772	97.56	1.65	-2.70	83.62	72.18	381.64	140.73	129.77	230.01	243.68	86.12	434.69	140.68	144.20	230.00
40773	96.32	-1.65	-2.70	56.77	60.35	410.31	95.27	119.70	264.88	179.45	71.63	348.67	95.23	83.98	264.80
40774	96.38	-0.55	-2.70	54.20	59.41	409.92	95.70	118.13	265.85	178.92	71.36	349.17	95.70	82.70	265.84
40775	96.38	0.55	-2.70	54.21	59.41	409.90	95.70	118.13	265.84	178.92	71.36	349.19	95.69	82.70	265.83
40776	96.32	1.65	-2.70	56.79	60.33	410.26	95.25	119.70	264.86	179.45	71.62	348.74	95.21	83.98	264.78
40777	95.09	-1.65	-2.70	43.75	52.88	405.47	75.05	139.38	275.42	142.14	60.34	279.75	75.03	61.76	275.32
40778	95.14	-0.55	-2.70	41.31	52.30	405.18	75.35	138.12	276.49	141.58	60.19	279.14	75.35	59.91	276.48
40779	95.14	0.55	-2.70	41.32	52.30	405.17	75.35	138.12	276.48	141.58	60.18	279.15	75.35	59.90	276.47
40780	95.09	1.65	-2.70	43.77	52.87	405.43	75.04	139.38	275.40	142.14	60.33	279.80	75.02	61.76	275.30
40781	93.86	-1.65	-2.70	35.43	46.59	400.61	62.98	163.90	283.47	115.22	53.45	246.80	62.99	48.22	283.38
40782	93.91	-0.55	-2.70	32.98	46.15	400.34	63.25	163.03	284.66	114.58	53.37	245.42	63.25	46.03	284.65
40783	93.91	0.55	-2.70	32.99	46.15	400.34	63.25	163.03	284.65	114.58	53.37	245.43	63.25	46.02	284.64
40784	93.86	1.65	-2.70	35.46	46.59	400.59	62.97	163.90	283.46	115.22	53.44	246.84	62.98	48.22	283.36
40785	92.63	-1.65	-2.70	29.52	41.11	391.06	54.58	189.60	289.71	93.93	48.44	233.12	54.62	46.64	289.63
40786	92.67	-0.55	-2.70	27.01	40.72	390.70	54.86	189.11	290.99	93.18	48.39	231.20	54.86	44.82	290.98
40787	92.67	0.55	-2.70	27.02	40.72	390.70	54.86	189.11	290.99	93.18	48.39	231.21	54.86	44.82	290.98
40788	92.63	1.65	-2.70	29.56	41.11	391.05	54.57	189.60	289.70	93.93	48.44	233.15	54.62	46.63	289.62
40789	91.39	-1.65	-2.70	25.16	36.23	377.30	48.10	214.43	294.37	76.20	44.61	231.21	48.18	53.56	294.31
40790	91.43	-0.55	-2.70	22.60	35.87	376.78	48.39	214.25	295.72	75.33	44.58	228.99	48.40	52.47	295.71
40791	91.43	0.55	-2.70	22.62	35.87	376.78	48.39	214.25	295.71	75.33	44.59	229.00	48.40	52.46	295.71
40792	91.39	1.65	-2.70	25.20	36.24	377.31	48.10	214.43	294.36	76.20	44.62	231.24	48.17	53.54	294.29
40793	90.16	-1.65	-2.70	22.21	31.88	359.96	42.65	237.36	297.59	61.22	41.57	235.28	42.76	63.22	297.54
40794	90.20	-0.55	-2.70	19.73	31.54	359.21	42.95	237.42	298.97	60.23	41.55	232.91	42.96	62.68	298.97
40795	90.20	0.55	-2.70	19.75	31.54	359.22	42.94	237.42	298.97	60.23	41.55	232.92	42.96	62.68	298.97
40796	90.16	1.65	-2.70	22.25	31.90	359.98	42.65	237.36	297.57	61.22	41.58	235.31	42.75	63.20	297.53
40797	88.93	-1.65	-2.70	20.71	28.03	339.91	37.73	257.89	299.51	48.77	39.09	241.72	37.86	72.39	299.48
40798	88.96	-0.55	-2.70	18.50	27.70	338.90	38.02	258.15	300.91	47.66	39.08	239.28	38.04	72.21	300.91
40799	88.96	0.55	-2.70	18.52	27.70	338.91	38.02	258.15	300.91	47.66	39.09	239.30	38.04	72.21	300.90
40800	88.93	1.65	-2.70	20.76	28.05	339.94	37.73	257.89	299.49	48.77	39.10	241.76	37.86	72.38	299.46
40801	87.70	-1.65	-2.70	20.52	24.63	318.04	33.04	275.89	300.28	38.82	37.03	248.55	33.21	79.82	300.27
40802	87.72	-0.55	-2.70	18.72	24.31	316.74	33.33	276.28	301.68	37.63	37.04	246.08	33.34	79.85	301.68
40803	87.72	0.55	-2.70	18.74	24.32	316.75	33.32	276.28	301.67	37.63	37.05	246.09	33.34	79.85	301.67
40804	87.70	1.65	-2.70	20.56	24.65	318.08	33.04	275.89	300.26	38.82	37.05	248.59	33.20	79.82	300.25
40805	86.46	-1.65	-2.70	21.24	21.64	295.25	28.41	291.34	300.06	31.42	35.30	254.78	28.62	85.08	300.06
40806	86.49	-0.55	-2.70	19.89	21.35	293.64	28.68	291.84	301.44	30.19	35.34	252.29	28.70	85.21	301.44
40807	86.49	0.55	-2.70	19.91	21.36	293.66	28.67	291.84	301.43	30.18	35.34	252.30	28.70	85.21	301.44
40808	86.46	1.65	-2.70	21.29	21.66	295.30	28.40	291.34	300.04	31.41	35.32	254.82	28.61	85.07	300.04
40809	85.23	-1.65	-2.70	22.48	19.04	272.45	23.76	304.33	298.99	26.59	33.82	259.96	24.02	88.03	299.01
40810	85.25	-0.55	-2.70	21.51	18.78	270.51	23.99	304.91	300.35	25.40	33.88	257.47	24.02	88.20	300.35
40811	85.25	0.55	-2.70	21.53	18.78	270.53	23.99	304.92	300.34	25.39	33.89	257.48	24.02	88.20	300.35
40812	85.23	1.65	-2.70	22.52	19.06	272.50	23.75	304.34	298.98	26.58	33.84	260.01	24.01	88.03	298.99
40813	84.00	-1.65	-2.70	23.92	16.77	250.60	19.05	314.99	297.24	24.35	32.51	263.93	19.41	88.70	297.27
40814	84.01	-0.55	-2.70	23.26	16.55	248.31	19.24	315.63	298.56	23.29	32.60	261.43	19.28	88.86	298.56
40815	84.01	0.55	-2.70	23.28	16.56	248.32	19.24	315.63	298.55	23.28	32.61	261.45	19.28	88.86	298.55
40816	84.00	1.65	-2.70	23.96	16.80	250.64	19.04	315.00	297.22	24.33	32.54	263.97	19.39	88.70	297.25
40817	82.76	-1.65	-2.70	25.42	14.82	230.75	14.31	323.44	294.91	24.80	31.32	266.59	14.84	87.17	294.96
40818	82.78	-0.55	-2.70	25.00	14.63	228.11	14.45	324.12	296.19	23.94	31.45	264.09	14.51	87.28	296.20
40819	82.78	0.55	-2.70	25.02	14.64	228.12	14.44	324.12	296.19	23.93	31.46	264.11	14.50	87.28	296.19
40820	82.76	1.65	-2.70	25.46	14.84	230.79	14.29	323.45	294.90	24.77	31.35	266.64	14.82	87.17	294.94
40821	81.53	-1.65	-2.70	26.97	13.14	214.10	9.59	329.78	292.13	28.17	30.20	267.90	10.47	83.53	292.20
40822	81.54	-0.55	-2.70	26.73	12.99	211.12	9.66	330.50	293.37	27.55	30.37	265.39	9.76	83.56	293.38
40823	81.54	0.55	-2.70	26.74	13.00	211.13	9.65	330.50	293.37	27.54	30.38	265.40	9.75	83.56	293.37
40824	81.53	1.65	-2.70	27.01	13.17	214.13	9.57	329.79	292.12	28.14	30.23	267.94	10.44	83.53	292.18
40825	80.30	-1.65	-2.70	28.62	11.75	201.90	4.97	334.13	289.00	34.74	29.11	267.75	6.75	77.93	289.08
40826	80.30	-0.55	-2.70	28.51	11.63	198.64	4.94	334.87	290.19	34.35	29.34	265.20	5.17	77.86	290.20
40827	80.30	0.55	-2.70	28.53	11.64	198.65	4.93	334.87	290.19	34.34	29.35	265.22	5.16	77.85	290.20
40828	80.30	1.65	-2.70	28.66	11.78	201.92	4.95	334.13	288.99	34.70	29.15	267.78	6.72	77.93	289.07
40829	79.07	-1.65	-2.70	30.48	10.66	195.31	1.11	336.54	285.58	44.66	28.06	265.95	5.12	70.58	285.68
40830	79.07	-0.55	-2.70	30.49	10.56	191.87	0.49	337.30	286.74	44.48	28.34	263.36	1.74	70.40	286.75
40831	79.07	0.55	-2.70	30.50	10.57	191.87	0.48	337.30	286.74	44.46	28.35	263.37	1.73	70.39	286.75
40832	79.07	1.65	-2.70	30.52	10.68	195.31	1.11	336.54	285.58	44.62	28.09	265.98	5.11	70.58	285.67
40833	97.56	-1.65	-4.10	36.91	71.52	369.81	88.61	137.29	214.17	70.46	33.26	334.08	88.66	121.78	214.27
40834	97.62	-0.55	-4.10	33.18	71.25	369.59	89.19	136.40	214.80	68.19	33.41	335.19	89.19	122.21	214.81
40835	97.62	0.55	-4.10	33.19	71.24	369.57	89.18	136.40	214.79	68.19	33.40	335.21	89.19	122.21	214.81
40836	97.56	1.65	-4.10	36.92	71.49	369.76	88.60	137.28	214.16	70.45	33.23	334.15	88.64	121.79	214.27
40837	96.32	-1.65	-4.10	35.26	58.02	429.09	79.76	138.78	252.98	78.76	44.31	317.79	79.77	59.90	252.94
40838	96.38	-0.55	-4.10	31.77	57.63	429.02	80.28	137.64	254.04	77.15	44.59	317.89	80.28	58.64	254.03
40839	96.38	0.55	-4.10	31.78	57.63	429.01	80.27	137.64	254.04	77.14	44.58	317.91	80.28	58.64	254.03

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
40867	87.72	0.55	-4.10	20.31	17.78	344.38	36.46	300.89	315.37	23.35	41.48	265.41	36.47	111.50	315.37
40868	87.70	1.65	-4.10	21.65	18.13	345.96	36.12	300.33	313.89	24.15	41.44	268.26	36.24	111.14	313.89
40869	86.46	-1.65	-4.10	24.39	15.45	320.49	31.52	315.01	313.84	33.93	41.60	272.87	31.64	114.40	313.85
40870	86.49	-0.55	-4.10	23.60	15.15	318.61	31.83	315.65	315.29	33.83	41.67	270.05	31.85	114.77	315.29
40871	86.49	0.55	-4.10	23.62	15.16	318.63	31.83	315.65	315.28	33.84	41.68	270.07	31.84	114.77	315.28
40872	86.46	1.65	-4.10	24.45	15.48	320.54	31.52	315.02	313.82	33.98	41.62	272.92	31.64	114.41	313.84
40873	85.23	-1.65	-4.10	26.47	13.27	295.43	26.66	327.22	312.87	42.00	41.98	276.38	26.80	114.96	312.90
40874	85.25	-0.55	-4.10	26.01	13.02	293.22	26.94	327.90	314.29	42.21	42.08	273.56	26.96	115.30	314.29
40875	85.25	0.55	-4.10	26.03	13.03	293.24	26.94	327.91	314.28	42.22	42.09	273.58	26.95	115.30	314.28
40876	85.23	1.65	-4.10	26.53	13.30	295.49	26.66	327.23	312.86	42.04	42.00	276.43	26.79	114.97	312.88
40877	84.00	-1.65	-4.10	27.81	11.48	271.74	21.57	337.15	311.21	47.88	42.49	278.69	21.72	112.99	311.25
40878	84.01	-0.55	-4.10	27.57	11.28	269.18	21.80	337.87	312.58	48.27	42.63	275.88	21.82	113.25	312.59
40879	84.01	0.55	-4.10	27.59	11.29	269.20	21.80	337.88	312.58	48.28	42.64	275.90	21.81	113.25	312.58
40880	84.00	1.65	-4.10	27.87	11.52	271.79	21.56	337.16	311.20	47.93	42.52	278.74	21.71	113.00	311.24
40881	82.76	-1.65	-4.10	28.50	10.00	250.48	16.28	345.00	309.03	51.46	43.07	279.81	16.47	108.65	309.09
40882	82.78	-0.55	-4.10	28.40	9.85	247.59	16.46	345.75	310.36	51.94	43.27	277.00	16.48	108.81	310.36
40883	82.78	0.55	-4.10	28.42	9.86	247.61	16.45	345.75	310.35	51.96	43.28	277.01	16.47	108.82	310.36
40884	82.76	1.65	-4.10	28.56	10.04	250.53	16.27	345.01	309.02	51.51	43.11	279.85	16.45	108.66	309.07
40885	81.53	-1.65	-4.10	28.68	8.74	232.87	10.89	350.91	306.47	52.69	43.67	279.70	11.16	102.13	306.54
40886	81.54	-0.55	-4.10	28.68	8.65	229.66	11.00	351.68	307.75	53.23	43.94	276.88	11.03	102.17	307.76
40887	81.54	0.55	-4.10	28.71	8.66	229.67	10.99	351.69	307.74	53.25	43.95	276.90	11.02	102.17	307.75
40888	81.53	1.65	-4.10	28.74	8.78	232.90	10.87	350.92	306.45	52.75	43.71	279.74	11.13	102.13	306.53
40889	80.30	-1.65	-4.10	28.55	7.63	220.15	5.48	355.02	303.63	51.63	44.23	278.28	5.99	93.63	303.73
40890	80.30	-0.55	-4.10	28.62	7.59	216.68	5.51	355.81	304.87	52.19	44.57	275.44	5.57	93.53	304.88
40891	80.30	0.55	-4.10	28.65	7.61	216.69	5.51	355.81	304.87	52.21	44.58	275.45	5.56	93.53	304.88
40892	80.30	1.65	-4.10	28.61	7.68	220.18	5.46	355.02	303.62	51.69	44.28	278.32	5.95	93.63	303.72
40893	79.07	-1.65	-4.10	28.30	6.60	213.47	0.39	357.40	300.61	48.39	44.71	275.42	2.45	83.44	300.73
40894	79.07	-0.55	-4.10	28.43	6.60	209.83	0.16	358.21	301.81	48.95	45.13	272.52	0.82	83.19	301.82
40895	79.07	0.55	-4.10	28.45	6.61	209.84	0.16	358.21	301.81	48.97	45.14	272.53	0.81	83.19	301.82
40896	79.07	1.65	-4.10	28.37	6.64	213.47	0.38	357.41	300.61	48.45	44.76	275.45	2.44	83.44	300.72
40897	97.56	-1.65	-5.50	38.78	65.05	395.11	58.68	142.58	237.30	17.78	18.81	282.67	58.68	101.81	237.42
40898	97.62	-0.55	-5.50	37.13	65.11	395.07	58.91	141.52	238.07	13.00	18.95	282.83	58.91	102.12	238.08
40899	97.62	0.55	-5.50	37.13	65.09	395.06	58.90	141.52	238.07	13.02	18.94	282.85	58.90	102.12	238.08
40900	97.56	1.65	-5.50	38.78	65.01	395.06	58.67	142.58	237.30	17.81	18.77	282.72	58.67	101.82	237.43
40901	96.32	-1.65	-5.50	39.76	53.04	454.10	61.91	166.50	265.37	17.87	26.37	284.64	61.90	58.55	265.40
40902	96.38	-0.55	-5.50	37.83	52.88	454.30	62.30	165.59	266.46	11.88	26.66	283.94	62.30	57.48	266.46
40903	96.38	0.55	-5.50	37.84	52.87	454.28	62.29	165.59	266.46	11.92	26.65	283.96	62.29	57.48	266.46
40904	96.32	1.65	-5.50	39.77	53.00	454.05	61.90	166.50	265.37	17.94	26.33	284.69	61.89	58.56	265.41
40905	95.09	-1.65	-5.50	30.10	42.64	478.98	60.62	191.28	287.38	15.92	32.31	274.39	60.59	60.57	287.35
40906	95.14	-0.55	-5.50	27.38	42.36	479.10	61.03	190.68	288.68	8.90	32.57	272.70	61.03	59.45	288.68
40907	95.14	0.55	-5.50	27.39	42.35	479.09	61.03	190.69	288.68	8.97	32.56	272.71	61.02	59.45	288.68
40908	95.09	1.65	-5.50	30.13	42.62	478.95	60.61	191.29	287.39	16.03	32.29	274.43	60.58	60.58	287.36
40909	93.86	-1.65	-5.50	18.61	34.39	480.55	57.88	218.99	302.89	16.99	35.84	267.87	57.86	84.65	302.85
40910	93.91	-0.55	-5.50	14.10	34.04	480.44	58.29	218.77	304.31	11.64	36.00	265.49	58.28	84.24	304.31
40911	93.91	0.55	-5.50	14.13	34.04	480.44	58.28	218.78	304.32	11.70	35.99	265.50	58.28	84.25	304.31
40912	93.86	1.65	-5.50	18.69	34.38	480.53	57.88	219.00	302.91	17.11	35.82	267.92	57.85	84.66	302.87
40913	92.63	-1.65	-5.50	12.96	27.84	469.25	54.99	246.25	313.50	27.91	38.23	268.40	54.98	106.26	313.47
40914	92.67	-0.55	-5.50	6.29	27.46	468.84	55.38	246.36	314.99	25.65	38.32	265.62	55.38	106.33	314.98
40915	92.67	0.55	-5.50	6.38	27.46	468.83	55.38	246.36	314.99	25.68	38.32	265.63	55.38	106.33	314.99
40916	92.63	1.65	-5.50	13.10	27.84	469.25	54.99	246.26	313.52	28.00	38.22	268.44	54.98	106.27	313.49
40917	91.39	-1.65	-5.50	17.41	22.66	450.29	51.99	270.93	320.61	43.86	40.22	272.65	52.00	122.89	320.59
40918	91.43	-0.55	-5.50	14.16	22.27	449.53	52.38	271.29	322.13	42.96	40.26	269.66	52.38	123.23	322.12
40919	91.43	0.55	-5.50	14.21	22.27	449.53	52.38	271.30	322.13	42.98	40.26	269.68	52.38	123.23	322.13
40920	91.39	1.65	-5.50	17.53	22.66	450.30	51.99	270.94	320.63	43.93	40.22	272.69	52.00	122.89	320.60
40921	90.16	-1.65	-5.50	24.78	18.64	426.61	48.73	292.44	325.08	60.80	42.14	277.92	48.75	134.83	325.07
40922	90.20	-0.55	-5.50	23.23	18.26	425.48	49.11	292.96	326.62	60.58	42.16	274.83	49.11	135.33	326.61
40923	90.20	0.55	-5.50	23.26	18.27	425.49	49.11	292.97	326.62	60.60	42.16	274.84	49.11	135.33	326.62
40924	90.16	1.65	-5.50	24.86	18.65	426.64	48.74	292.45	325.10	60.86	42.14	277.97	48.75	134.84	325.09
40925	88.93	-1.65	-5.50	31.17	15.65	400.19	45.06	310.80	327.54	77.09	44.15	282.85	45.08	142.66	327.54
40926	88.96	-0.55	-5.50	30.39	15.31	398.70	45.42	311.42	329.07	77.28	44.16	279.69	45.43	143.22	329.07
40927	88.96	0.55	-5.50	30.41	15.32	398.72	45.43	311.42	329.07	77.29	44.17	279.71	45.43	143.22	329.07
40928	88.93	1.65	-5.50	31.24	15.67	400.24	45.06	310.81	327.55	77.15	44.16	282.90	45.09	142.67	327.55
40929	87.70	-1.65	-5.50	35.84	13.57	372.48	40.87	326.26	328.43	92.02	46.32	286.85	40.89	146.87	328.44
40930	87.72	-0.55	-5.50	35.48	13.28	370.64	41.22	326.94	329.95	92.46	46.35	283.68	41.22	147.41	329.95
40931	87.72	0.55	-5.50	35.50	13.29	370.66	41.22	326.95	329.95	92.48	46.35	283.70	41.23	147.42	329.95
40932	87.70	1.65	-5.50	35.91	13.59	372.53	40.88	326.28	328.44	92.07	46.33	286.91	40.90	146.87	328.44
40933	86.46	-1.65	-5.50	38.80	12.22	344.60	36.14	339.15	328.13	105.27	48.66	289.76	36.16	147.85	328.15
40934	86.49	-0.55	-5.50	38.68	12.01	342.43	36.47	339.87	329.63	105.90	48.72	286.59	36.47	148.35	329.63
40935	86.49	0.55	-5.50	38.70	12.02	342.45	36.47	339.88	329.63	105.92	48.72	286.61	36.47	148.35	329.63
40936	86.46	1.65	-5.50	38.86	12.24	344.66	36.15	339.17	328.13	105.33	48.68	289.82	36.16	147.86	328.15
40937	85.23	-1.65	-5.50	40.22	11.44	317.57	30.89	349.77	326.96	116.75	51.15	291.58	30.89	145.95	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
40965	96.32	-1.65	-6.90	33.60	43.53	494.66	54.18	195.89	290.56	46.46	23.87	271.03	54.14	59.53	290.62
40966	96.38	-0.55	-6.90	32.04	43.29	495.05	54.46	195.15	291.76	45.08	23.69	269.38	54.45	58.25	291.77
40967	96.38	0.55	-6.90	32.05	43.28	495.04	54.45	195.15	291.77	45.09	23.67	269.39	54.45	58.26	291.77
40968	96.32	1.65	-6.90	33.62	43.47	494.62	54.17	195.91	290.58	46.52	23.81	271.06	54.13	59.54	290.65
40969	95.09	-1.65	-6.90	25.47	34.50	518.17	57.87	230.03	308.46	63.86	27.02	277.83	57.79	87.53	308.48
40970	95.14	-0.55	-6.90	22.94	34.16	518.47	58.23	229.72	309.79	62.87	26.97	275.49	58.22	86.95	309.80
40971	95.14	0.55	-6.90	22.95	34.15	518.46	58.22	229.73	309.80	62.89	26.95	275.50	58.21	86.96	309.81
40972	95.09	1.65	-6.90	25.53	34.46	518.14	57.86	230.04	308.49	63.92	26.98	277.87	57.78	87.55	308.52
40973	93.86	-1.65	-6.90	23.11	27.48	519.15	59.21	259.62	321.95	81.18	31.01	283.55	59.12	121.27	321.96
40974	93.91	-0.55	-6.90	20.32	27.11	519.12	59.59	259.70	323.37	80.58	30.98	280.70	59.58	121.35	323.37
40975	93.91	0.55	-6.90	20.35	27.11	519.11	59.59	259.70	323.38	80.60	30.97	280.71	59.58	121.36	323.38
40976	93.86	1.65	-6.90	23.20	27.46	519.14	59.20	259.64	321.99	81.24	30.98	283.58	59.11	121.29	322.00
40977	92.63	-1.65	-6.90	31.16	22.58	505.39	58.99	285.17	331.47	99.81	35.06	289.13	58.91	147.23	331.47
40978	92.67	-0.55	-6.90	29.56	22.24	504.92	59.38	285.54	332.92	99.61	35.02	285.96	59.37	147.69	332.92
40979	92.67	0.55	-6.90	29.59	22.24	504.92	59.38	285.54	332.94	99.63	35.01	285.98	59.37	147.69	332.94
40980	92.63	1.65	-6.90	31.25	22.57	505.39	58.99	285.19	331.51	99.87	35.04	289.17	58.91	147.24	331.51
40981	91.39	-1.65	-6.90	41.84	19.56	483.03	57.64	306.78	337.73	119.06	39.06	294.33	57.57	165.12	337.73
40982	91.43	-0.55	-6.90	41.08	19.30	482.11	58.02	307.34	339.21	119.20	39.02	290.96	58.01	165.77	339.21
40983	91.43	0.55	-6.90	41.11	19.31	482.11	58.02	307.35	339.22	119.22	39.02	290.98	58.01	165.77	339.22
40984	91.39	1.65	-6.90	41.91	19.56	483.05	57.65	306.80	337.77	119.11	39.06	294.37	57.58	165.13	337.77
40985	90.16	-1.65	-6.90	50.81	18.04	455.94	55.30	324.81	341.42	137.88	43.11	298.67	55.23	176.53	341.43
40986	90.20	-0.55	-6.90	50.54	17.89	454.57	55.66	325.47	342.92	138.31	43.06	295.20	55.65	177.25	342.92
40987	90.20	0.55	-6.90	50.57	17.89	454.58	55.66	325.48	342.94	138.33	43.07	295.21	55.65	177.26	342.94
40988	90.16	1.65	-6.90	50.88	18.05	455.97	55.31	324.83	341.47	137.94	43.11	298.72	55.24	176.55	341.47
40989	88.93	-1.65	-6.90	57.09	17.54	426.50	51.98	339.76	343.13	155.69	47.27	301.95	51.92	182.86	343.14
40990	88.96	-0.55	-6.90	57.11	17.48	424.73	52.33	340.47	344.65	156.32	47.25	298.42	52.32	183.56	344.65
40991	88.96	0.55	-6.90	57.13	17.48	424.75	52.33	340.47	344.66	156.34	47.25	298.44	52.33	183.57	344.66
40992	88.93	1.65	-6.90	57.16	17.55	426.55	52.00	339.78	343.17	155.75	47.28	302.01	51.93	182.88	343.18
40993	87.70	-1.65	-6.90	60.71	17.59	396.30	47.73	352.13	343.33	172.20	51.61	304.14	47.66	185.09	343.35
40994	87.72	-0.55	-6.90	60.88	17.60	394.17	48.05	352.85	344.86	173.00	51.61	300.61	48.04	185.73	344.86
40995	87.72	0.55	-6.90	60.90	17.61	394.19	48.06	352.85	344.87	173.03	51.61	300.63	48.05	185.74	344.87
40996	87.70	1.65	-6.90	60.78	17.59	396.36	47.74	352.15	343.37	172.27	51.62	304.21	47.68	185.11	343.38
40997	86.46	-1.65	-6.90	62.00	17.87	366.50	42.58	362.32	342.43	187.39	56.13	305.34	42.50	183.91	342.45
40998	86.49	-0.55	-6.90	62.25	17.93	364.04	42.88	363.04	343.96	188.32	56.17	301.83	42.87	184.46	343.96
40999	86.49	0.55	-6.90	62.27	17.93	364.06	42.88	363.05	343.97	188.34	56.18	301.85	42.88	184.46	343.97
41000	86.46	1.65	-6.90	62.07	17.87	366.57	42.59	362.35	342.46	187.46	56.15	305.40	42.52	183.94	342.47
41001	85.23	-1.65	-6.90	61.38	18.20	338.07	36.63	370.66	340.77	201.30	60.81	305.63	36.55	179.80	340.80
41002	85.25	-0.55	-6.90	61.67	18.28	335.31	36.89	371.38	342.28	202.34	60.90	302.16	36.88	180.23	342.29
41003	85.25	0.55	-6.90	61.69	18.28	335.33	36.90	371.39	342.29	202.37	60.91	302.18	36.89	180.24	342.29
41004	85.23	1.65	-6.90	61.45	18.20	338.14	36.64	370.69	340.78	201.38	60.83	305.70	36.57	179.83	340.81
41005	84.00	-1.65	-6.90	59.31	18.52	311.95	30.02	377.41	338.62	214.06	65.60	305.13	29.94	173.13	338.66
41006	84.01	-0.55	-6.90	59.61	18.60	308.89	30.23	378.13	340.11	215.21	65.76	301.70	30.22	173.43	340.11
41007	84.01	0.55	-6.90	59.64	18.59	308.91	30.23	378.14	340.11	215.24	65.77	301.72	30.22	173.44	340.12
41008	84.00	1.65	-6.90	59.39	18.52	312.01	30.02	377.44	338.62	214.15	65.63	305.19	29.95	173.15	338.66
41009	82.76	-1.65	-6.90	56.26	18.79	289.12	22.89	382.75	336.19	225.86	70.42	303.89	22.84	164.20	336.25
41010	82.78	-0.55	-6.90	56.56	18.86	285.78	23.03	383.48	337.66	227.12	70.67	300.50	23.02	164.36	337.66
41011	82.78	0.55	-6.90	56.59	18.86	285.79	23.03	383.49	337.66	227.16	70.68	300.51	23.02	164.36	337.66
41012	82.76	1.65	-6.90	56.35	18.79	289.18	22.88	382.78	336.19	225.95	70.46	303.95	22.84	164.22	336.24
41013	81.53	-1.65	-6.90	52.73	19.03	270.66	15.41	386.84	333.66	236.91	75.22	301.93	15.45	153.31	333.73
41014	81.54	-0.55	-6.90	53.01	19.09	267.05	15.46	387.59	335.09	238.31	75.57	298.56	15.47	153.31	335.10
41015	81.54	0.55	-6.90	53.04	19.09	267.07	15.46	387.59	335.10	238.35	75.58	298.57	15.47	153.31	335.10
41016	81.53	1.65	-6.90	52.81	19.04	270.70	15.40	386.87	333.66	237.01	75.27	301.98	15.45	153.33	333.73
41017	80.30	-1.65	-6.90	49.23	19.23	257.65	7.80	389.80	331.14	247.53	79.92	299.22	8.17	140.76	331.24
41018	80.30	-0.55	-6.90	49.51	19.29	253.84	7.71	390.55	332.54	249.08	80.38	295.84	7.75	140.59	332.55
41019	80.30	0.55	-6.90	49.53	19.29	253.84	7.70	390.56	332.54	249.11	80.40	295.85	7.75	140.59	332.55
41020	80.30	1.65	-6.90	49.31	19.24	257.67	7.77	389.82	331.14	247.63	79.98	299.26	8.18	140.78	331.23
41021	79.07	-1.65	-6.90	46.33	19.39	251.03	1.43	391.69	328.71	258.08	84.45	295.67	3.87	126.92	328.84
41022	79.07	-0.55	-6.90	46.60	19.44	247.10	0.48	392.46	330.09	259.81	85.04	292.26	1.31	126.56	330.10
41023	79.07	0.55	-6.90	46.62	19.45	247.11	0.46	392.46	330.09	259.85	85.06	292.27	1.34	126.56	330.10
41024	79.07	1.65	-6.90	46.40	19.40	251.04	1.41	391.70	328.71	258.20	84.51	295.71	3.90	126.93	328.84
41025	97.56	-1.65	-8.30	25.66	40.58	506.01	48.27	184.52	304.43	55.20	31.20	264.98	48.36	57.48	304.50
41026	97.62	-0.55	-8.30	24.43	40.19	506.30	48.35	183.28	305.82	54.12	30.68	263.19	48.36	55.71	305.83
41027	97.62	0.55	-8.30	24.44	40.15	506.29	48.34	183.29	305.83	54.13	30.64	263.20	48.35	55.71	305.84
41028	97.56	1.65	-8.30	25.68	40.48	505.98	48.24	184.55	304.45	55.23	31.11	265.01	48.32	57.50	304.53
41029	96.32	-1.65	-8.30	25.30	33.70	547.70	57.31	235.17	321.32	91.76	29.34	281.38	57.30	90.55	321.38
41030	96.38	-0.55	-8.30	23.48	33.38	548.21	57.60	234.64	322.75	91.13	29.09	278.96	57.60	89.52	322.76
41031	96.38	0.55	-8.30	23.49	33.35	548.20	57.59	234.64	322.77	91.15	29.07	278.97	57.59	89.53	322.77
41032	96.32	1.65	-8.30	25.35	33.62	547.66	57.28	235.20	321.36	91.80	29.26	281.40	57.27	90.58	321.43
41033	95.09	-1.65	-8.30	37.94	29.52	561.87	63.33	274.90	334.64	126.12	29.34	295.17	63.24	133.09	334.68
41034	95.14	-0.55	-8.30	36.70	29.34	562.22	63.72	274.89	336.06	125.89	29.21	292.28	63.71	132.89	336.07
41035	95.14	0.55	-8.30	36.72	29.32	562.21	63.71	274.90							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
41063	86.49	0.55	-8.30	93.22	30.33	382.79	51.20	383.08	357.51	279.06	63.93	315.86	51.19	221.71	357.51
41064	86.46	1.65	-8.30	92.84	30.10	385.56	50.97	382.49	355.93	277.99	63.89	319.72	50.89	221.25	355.94
41065	85.23	-1.65	-8.30	88.67	30.16	356.49	43.92	388.10	353.57	293.43	70.70	318.77	43.84	215.32	353.59
41066	85.25	-0.55	-8.30	89.06	30.36	353.47	44.13	388.70	355.23	294.67	70.81	315.01	44.12	215.67	355.23
41067	85.25	0.55	-8.30	89.09	30.36	353.49	44.14	388.71	355.24	294.70	70.81	315.03	44.13	215.68	355.24
41068	85.23	1.65	-8.30	88.76	30.15	356.55	43.94	388.14	353.61	293.53	70.72	318.83	43.89	215.36	353.63
41069	84.00	-1.65	-8.30	83.21	30.11	330.18	36.04	392.70	350.98	308.53	77.69	317.37	36.02	207.05	351.01
41070	84.01	-0.55	-8.30	83.55	30.28	326.89	36.20	393.30	352.65	309.90	77.88	313.67	36.20	207.27	352.66
41071	84.01	0.55	-8.30	83.59	30.28	326.91	36.21	393.31	352.66	309.94	77.88	313.69	36.21	207.29	352.67
41072	84.00	1.65	-8.30	83.31	30.10	330.24	36.05	392.73	351.01	308.64	77.72	317.43	36.06	207.09	351.03
41073	82.76	-1.65	-8.30	77.02	30.06	307.46	27.51	396.38	348.30	323.51	84.77	315.52	27.62	196.76	348.35
41074	82.78	-0.55	-8.30	77.33	30.19	303.92	27.61	397.00	349.98	325.04	85.04	311.87	27.62	196.84	349.99
41075	82.78	0.55	-8.30	77.36	30.19	303.94	27.61	397.01	349.99	325.08	85.06	311.88	27.63	196.85	349.99
41076	82.76	1.65	-8.30	77.13	30.05	307.51	27.52	396.42	348.32	323.63	84.81	315.57	27.66	196.79	348.36
41077	81.53	-1.65	-8.30	70.82	30.07	289.28	18.55	399.27	345.70	338.70	91.84	313.23	18.99	184.75	345.76
41078	81.54	-0.55	-8.30	71.09	30.17	285.51	18.56	399.90	347.37	340.43	92.22	309.61	18.60	184.68	347.38
41079	81.54	0.55	-8.30	71.12	30.16	285.52	18.55	399.91	347.37	340.47	92.24	309.63	18.62	184.69	347.38
41080	81.53	1.65	-8.30	70.92	30.06	289.32	18.55	399.30	345.71	338.83	91.89	313.27	19.02	184.78	345.77
41081	80.30	-1.65	-8.30	65.40	30.19	276.58	9.41	401.44	343.27	354.47	98.82	310.48	10.93	171.37	343.36
41082	80.30	-0.55	-8.30	65.65	30.25	272.63	9.25	402.08	344.93	356.44	99.33	306.88	9.43	171.13	344.94
41083	80.30	0.55	-8.30	65.68	30.25	272.64	9.24	402.09	344.93	356.49	99.35	306.89	9.45	171.14	344.94
41084	80.30	1.65	-8.30	65.49	30.19	276.61	9.39	401.46	343.28	354.60	98.88	310.52	10.97	171.39	343.36
41085	79.07	-1.65	-8.30	61.65	30.42	270.18	1.93	402.94	341.10	371.26	105.64	307.24	7.39	157.02	341.22
41086	79.07	-0.55	-8.30	61.88	30.47	266.12	0.65	403.59	342.73	373.52	106.29	303.61	2.50	156.59	342.74
41087	79.07	0.55	-8.30	61.90	30.48	266.13	0.62	403.60	342.73	373.57	106.31	303.62	2.54	156.59	342.74
41088	79.07	1.65	-8.30	61.72	30.43	270.19	1.90	402.95	341.10	371.40	105.70	307.27	7.42	157.03	341.21
41089	101.97	-1.65	-2.70	7.48	115.79	12.17	11.52	9.11	25.14	9.75	55.84	13.73	8.13	4.52	25.54
41090	102.02	-0.55	-2.70	6.83	115.86	12.19	7.96	8.85	25.10	9.58	56.42	13.72	7.48	3.88	25.15
41091	102.02	0.55	-2.70	6.83	115.83	12.19	7.94	8.85	25.10	9.58	56.47	13.73	7.48	3.88	25.14
41092	101.97	1.65	-2.70	7.48	115.70	12.17	11.48	9.10	25.13	9.74	55.96	13.73	8.16	4.52	25.51
41093	101.12	-1.65	-2.70	22.93	116.51	17.66	29.67	11.82	33.36	42.47	44.38	29.01	28.45	24.91	33.37
41094	101.18	-0.55	-2.70	21.78	116.72	17.64	28.27	11.53	33.43	41.79	44.70	29.10	28.12	24.67	33.43
41095	101.18	0.55	-2.70	21.78	116.69	17.64	28.25	11.53	33.43	41.79	44.74	29.10	28.12	24.67	33.43
41096	101.12	1.65	-2.70	22.92	116.43	17.66	29.62	11.82	33.35	42.45	44.49	29.01	28.44	24.91	33.36
41097	100.28	-1.65	-2.70	36.19	116.08	31.56	60.26	15.64	43.70	102.19	25.67	43.48	59.75	60.44	43.73
41098	100.34	-0.55	-2.70	34.25	116.34	31.51	59.73	15.28	43.80	101.31	25.76	43.64	59.67	60.65	43.80
41099	100.34	0.55	-2.70	34.25	116.31	31.50	59.71	15.28	43.80	101.30	25.78	43.65	59.66	60.65	43.80
41100	100.28	1.65	-2.70	36.18	116.00	31.56	60.22	15.64	43.70	102.17	25.74	43.49	59.74	60.45	43.73
41101	99.44	-1.65	-2.70	54.07	111.02	61.16	108.27	55.31	64.81	200.53	9.36	78.47	108.03	123.31	65.15
41102	99.50	-0.55	-2.70	51.12	110.95	61.06	108.42	55.10	64.82	199.88	4.90	78.80	108.39	124.17	64.86
41103	99.50	0.55	-2.70	51.12	110.93	61.06	108.40	55.10	64.82	199.87	4.81	78.80	108.38	124.17	64.86
41104	99.44	1.65	-2.70	54.07	110.96	61.15	108.23	55.30	64.80	200.52	9.22	78.49	108.01	123.32	65.15
41105	98.59	-1.65	-2.70	119.26	91.68	221.76	191.47	168.50	140.81	361.41	75.43	304.73	191.38	277.86	141.53
41106	98.65	-0.55	-2.70	115.96	88.82	221.43	192.70	168.39	140.47	361.41	72.82	306.47	192.69	280.08	140.55
41107	98.65	0.55	-2.70	115.96	88.81	221.42	192.68	168.38	140.47	361.42	72.81	306.49	192.68	280.09	140.55
41108	98.59	1.65	-2.70	119.26	91.65	221.71	191.42	168.47	140.79	361.41	75.40	304.79	191.36	277.90	141.54
41109	101.97	-1.65	-4.10	4.42	114.27	43.49	12.18	10.15	81.20	13.30	52.99	77.95	9.98	29.29	81.57
41110	102.02	-0.55	-4.10	4.00	114.39	43.54	9.11	8.34	81.21	13.40	53.27	78.18	8.81	28.33	81.25
41111	102.02	0.55	-4.10	4.00	114.36	43.54	9.11	8.34	81.20	13.40	53.30	78.18	8.81	28.33	81.23
41112	101.97	1.65	-4.10	4.42	114.19	43.49	12.17	10.14	81.17	13.29	53.08	77.96	9.99	29.28	81.51
41113	101.12	-1.65	-4.10	14.38	108.72	64.63	28.54	21.70	95.62	48.13	38.78	108.85	27.62	79.66	95.63
41114	101.18	-0.55	-4.10	13.82	108.99	64.51	27.13	20.57	95.80	48.21	39.06	109.27	27.02	79.49	95.80
41115	101.18	0.55	-4.10	13.82	108.96	64.51	27.12	20.57	95.80	48.21	39.08	109.27	27.02	79.49	95.79
41116	101.12	1.65	-4.10	14.38	108.64	64.62	28.52	21.71	95.60	48.13	38.86	108.86	27.63	79.66	95.60
41117	100.28	-1.65	-4.10	27.37	102.29	107.45	49.18	50.89	115.57	85.39	23.17	140.35	48.66	134.03	115.63
41118	100.34	-0.55	-4.10	26.59	102.67	107.25	48.37	50.18	115.77	85.47	23.59	140.88	48.30	134.57	115.78
41119	100.34	0.55	-4.10	26.59	102.65	107.24	48.36	50.18	115.77	85.47	23.61	140.89	48.31	134.58	115.78
41120	100.28	1.65	-4.10	27.37	102.22	107.44	49.16	50.89	115.55	85.39	23.23	140.37	48.66	134.04	115.62
41121	99.44	-1.65	-4.10	36.84	92.78	182.87	71.23	100.73	144.74	107.64	7.53	211.64	70.91	189.10	145.05
41122	99.50	-0.55	-4.10	35.45	93.14	182.58	70.93	100.18	144.91	107.47	7.58	212.50	70.89	190.37	144.94
41123	99.50	0.55	-4.10	35.45	93.12	182.57	70.92	100.18	144.91	107.47	7.58	212.51	70.89	190.37	144.94
41124	99.44	1.65	-4.10	36.84	92.72	182.84	71.21	100.72	144.73	107.63	7.52	211.68	70.91	189.11	145.05
41125	98.59	-1.65	-4.10	27.28	84.12	275.98	78.50	129.70	176.10	65.04	15.08	290.38	78.42	180.53	176.40
41126	98.65	-0.55	-4.10	23.75	84.25	275.62	78.69	129.08	176.35	63.36	14.99	291.60	78.68	181.87	176.38
41127	98.65	0.55	-4.10	23.75	84.23	275.60	78.68	129.07	176.34	63.35	14.97	291.62	78.67	181.88	176.38
41128	98.59	1.65	-4.10	27.28	84.07	275.93	78.48	129.69	176.09	65.03	15.03	290.43	78.40	180.54	176.40
41129	101.97	-1.65	-5.50	3.90	108.34	88.38	9.92	15.26	133.45	7.56	47.35	194.79	7.49	43.01	133.70
41130	102.02	-0.55	-5.50	3.45	108.46	88.46	6.48	12.40	133.55	7.64	46.91	195.59	6.10	41.76	133.58
41131	102.02	0.55	-5.50	3.45	108.44	88.46	6.48	12.41	133.54	7.64	46.93	195.60	6.10	41.75	133.56
41132	101.97	1.65	-5.50	3.90	108.27	88.39	9.91	15.26	133.42	7.56	47.41	194.82	7.49	42.99	133.64
41133	101.12	-1.65	-5.50	9.97	100.48	122.85	20.13	35.79	148.45	22.82	37.66	202.95	21.21	99.35	148.45
41134	101.18	-0.55	-5												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
41161	99.44	-1.65	-6.90	30.74	72.21	313.18	31.28	89.24	229.43	10.86	28.60	253.54	31.25	115.83	229.48
41162	99.50	-0.55	-6.90	30.07	72.29	312.88	30.84	87.50	230.21	9.02	27.68	253.98	30.83	116.13	230.21
41163	99.50	0.55	-6.90	30.07	72.26	312.86	30.83	87.51	230.20	9.03	27.67	253.99	30.83	116.13	230.21
41164	99.44	1.65	-6.90	30.74	72.14	313.15	31.27	89.25	229.43	10.88	28.56	253.58	31.24	115.83	229.47
41165	98.59	-1.65	-6.90	36.37	64.01	378.46	39.21	119.52	247.49	13.98	25.39	254.86	39.24	101.30	247.58
41166	98.65	-0.55	-6.90	35.60	64.04	378.28	39.04	117.96	248.34	11.24	24.69	254.72	39.05	101.59	248.35
41167	98.65	0.55	-6.90	35.60	64.01	378.27	39.04	117.97	248.34	11.26	24.66	254.74	39.04	101.59	248.35
41168	98.59	1.65	-6.90	36.37	63.94	378.42	39.19	119.54	247.49	14.02	25.33	254.90	39.22	101.29	247.58
41169	101.97	-1.65	-8.30	5.72	80.61	196.89	6.73	18.78	221.39	4.87	38.17	432.82	4.96	34.84	221.43
41170	102.02	-0.55	-8.30	5.39	80.54	196.84	3.78	11.81	222.19	4.86	35.87	434.70	3.45	31.46	222.20
41171	102.02	0.55	-8.30	5.39	80.52	196.84	3.78	11.82	222.18	4.86	35.85	434.71	3.44	31.45	222.18
41172	101.97	1.65	-8.30	5.72	80.54	196.88	6.73	18.79	221.36	4.88	38.12	432.87	4.95	34.81	221.39
41173	101.12	-1.65	-8.30	17.34	72.52	235.45	12.31	35.21	238.31	10.49	37.78	348.18	12.00	72.57	238.24
41174	101.18	-0.55	-8.30	16.99	72.40	235.05	10.94	30.98	239.49	10.46	35.69	349.68	10.91	71.15	239.48
41175	101.18	0.55	-8.30	17.00	72.38	235.05	10.94	30.99	239.48	10.46	35.66	349.69	10.90	71.15	239.47
41176	101.12	1.65	-8.30	17.34	72.44	235.43	12.30	35.24	238.30	10.50	37.72	348.22	11.98	72.55	238.21
41177	100.28	-1.65	-8.30	26.86	64.06	306.97	20.48	60.66	255.57	9.94	36.78	289.69	20.62	84.64	255.51
41178	100.34	-0.55	-8.30	26.50	63.80	306.56	19.77	57.64	256.82	9.33	35.09	290.48	19.79	83.85	256.81
41179	100.34	0.55	-8.30	26.51	63.77	306.55	19.76	57.65	256.82	9.34	35.06	290.49	19.78	83.84	256.81
41180	100.28	1.65	-8.30	26.87	63.97	306.93	20.46	60.69	255.56	9.95	36.71	289.73	20.59	84.63	255.50
41181	99.44	-1.65	-8.30	31.55	55.87	382.42	29.54	95.47	272.20	11.09	35.33	261.05	29.77	77.33	272.19
41182	99.50	-0.55	-8.30	31.13	55.52	382.16	29.17	93.14	273.51	9.15	34.03	260.93	29.19	76.65	273.50
41183	99.50	0.55	-8.30	31.13	55.49	382.15	29.16	93.15	273.51	9.16	34.00	260.94	29.18	76.65	273.51
41184	99.44	1.65	-8.30	31.55	55.77	382.38	29.52	95.50	272.20	11.12	35.24	261.08	29.74	77.32	272.19
41185	98.59	-1.65	-8.30	31.05	48.35	448.05	38.51	135.40	287.67	26.41	33.50	255.68	38.70	61.79	287.72
41186	98.65	-0.55	-8.30	30.44	47.96	448.00	38.36	133.53	289.02	24.87	32.59	254.68	38.38	60.70	289.02
41187	98.65	0.55	-8.30	30.44	47.93	447.98	38.35	133.54	289.02	24.88	32.56	254.69	38.37	60.70	289.03
41188	98.59	1.65	-8.30	31.06	48.25	448.01	38.49	135.43	287.68	26.44	33.41	255.71	38.67	61.79	287.73
41189	77.83	-1.65	-2.70	32.70	9.94	195.05	4.10	337.07	281.94	57.92	27.04	262.28	6.89	61.92	282.06
41190	77.83	-0.55	-2.70	32.79	9.85	191.58	4.03	337.84	283.06	57.93	27.39	259.61	4.43	61.63	283.07
41191	77.83	0.55	-2.70	32.81	9.86	191.57	4.03	337.84	283.06	57.92	27.40	259.62	4.44	61.63	283.07
41192	77.83	1.65	-2.70	32.74	9.96	195.05	4.12	337.07	281.95	57.88	27.08	262.31	6.90	61.91	282.06
41193	76.60	-1.65	-2.70	35.41	9.74	201.18	8.01	335.76	278.12	74.41	26.13	256.45	10.10	52.89	278.25
41194	76.60	-0.55	-2.70	35.57	9.64	197.82	8.06	336.54	279.20	74.60	26.55	253.65	8.32	52.59	279.21
41195	76.60	0.55	-2.70	35.59	9.64	197.81	8.07	336.54	279.20	74.59	26.56	253.66	8.32	52.59	279.21
41196	76.60	1.65	-2.70	35.45	9.76	201.17	8.03	335.75	278.12	74.37	26.16	256.47	10.12	52.88	278.25
41197	75.37	-1.65	-2.70	38.74	10.23	213.04	11.57	332.62	274.11	93.87	25.40	248.21	13.43	45.79	274.26
41198	75.36	-0.55	-2.70	38.95	10.11	209.90	11.69	333.40	275.16	94.22	25.93	245.23	11.91	45.71	275.18
41199	75.36	0.55	-2.70	38.96	10.11	209.89	11.70	333.40	275.16	94.21	25.94	245.24	11.92	45.71	275.18
41200	75.37	1.65	-2.70	38.78	10.23	213.01	11.59	332.61	274.12	93.84	25.43	248.22	13.45	45.78	274.26
41201	74.14	-1.65	-2.70	42.76	11.54	229.49	14.65	327.66	269.92	115.83	25.01	237.51	16.46	45.08	270.07
41202	74.12	-0.55	-2.70	43.00	11.41	226.65	14.83	328.43	270.94	116.31	25.68	234.30	15.04	45.58	270.96
41203	74.12	0.55	-2.70	43.02	11.41	226.64	14.84	328.43	270.95	116.30	25.69	234.30	15.04	45.58	270.96
41204	74.14	1.65	-2.70	42.79	11.54	229.45	14.67	327.65	269.94	115.80	25.03	237.51	16.48	45.08	270.08
41205	72.90	-1.65	-2.70	47.49	13.77	249.26	17.16	320.88	265.53	139.54	25.12	224.92	18.99	54.71	265.67
41206	72.89	-0.55	-2.70	47.75	13.67	246.76	17.37	321.65	266.52	140.07	25.98	221.44	17.58	55.94	266.54
41207	72.89	0.55	-2.70	47.76	13.66	246.74	17.38	321.64	266.52	140.06	25.99	221.44	17.58	55.94	266.54
41208	72.90	1.65	-2.70	47.52	13.77	249.22	17.17	320.87	265.54	139.52	25.14	224.91	19.01	54.73	265.68
41209	71.67	-1.65	-2.70	52.86	16.97	271.14	19.00	312.31	260.88	163.82	25.92	212.48	20.88	73.88	261.00
41210	71.65	-0.55	-2.70	53.11	16.91	268.97	19.21	313.05	261.85	164.32	26.99	208.80	19.42	75.68	261.87
41211	71.65	0.55	-2.70	53.12	16.90	268.95	19.22	313.05	261.86	164.31	27.00	208.80	19.43	75.68	261.87
41212	71.67	1.65	-2.70	52.89	16.96	271.10	19.00	312.30	260.90	163.82	25.94	212.46	20.89	73.90	261.01
41213	70.44	-1.65	-2.70	58.68	21.17	294.00	20.05	301.98	255.96	187.03	27.52	205.17	22.01	99.55	256.02
41214	70.41	-0.55	-2.70	58.91	21.17	292.15	20.24	302.69	256.92	187.37	28.80	201.61	20.46	101.75	256.93
41215	70.41	0.55	-2.70	58.92	21.17	292.13	20.24	302.68	256.93	187.37	28.80	201.60	20.46	101.76	256.93
41216	70.44	1.65	-2.70	58.71	21.17	293.96	20.05	301.98	255.97	187.04	27.53	205.14	22.01	99.58	256.04
41217	69.20	-1.65	-2.70	64.65	26.43	316.81	20.24	289.95	250.75	206.98	29.84	212.07	22.33	128.86	250.75
41218	69.18	-0.55	-2.70	64.85	26.47	315.26	20.34	290.59	251.72	207.07	31.26	209.33	20.58	131.33	251.72
41219	69.18	0.55	-2.70	64.86	26.47	315.25	20.34	290.59	251.73	207.07	31.26	209.32	20.57	131.35	251.73
41220	69.20	1.65	-2.70	64.68	26.42	316.77	20.24	289.95	250.76	207.00	29.85	212.03	22.32	128.90	250.76
41221	67.97	-1.65	-2.70	70.32	32.73	338.54	19.51	276.25	245.29	221.18	32.50	243.57	21.92	158.28	245.24
41222	67.94	-0.55	-2.70	70.50	32.78	337.28	19.46	276.81	246.32	220.98	33.87	242.47	19.73	160.90	246.31
41223	67.94	0.55	-2.70	70.51	32.77	337.27	19.45	276.81	246.32	220.99	33.88	242.45	19.73	160.92	246.31
41224	67.97	1.65	-2.70	70.35	32.72	338.50	19.50	276.25	245.30	221.20	32.51	243.53	21.90	158.33	245.25
41225	66.74	-1.65	-2.70	75.17	39.98	358.07	17.90	260.83	239.73	227.58	34.62	303.92	21.06	182.25	239.68
41226	66.70	-0.55	-2.70	75.34	39.96	357.09	17.63	261.27	240.84	227.05	35.71	304.88	18.00	184.91	240.84
41227	66.70	0.55	-2.70	75.35	39.96	357.08	17.63	261.27	240.85	227.06	35.72	304.86	18.00	184.93	240.84
41228	66.74	1.65	-2.70	75.21	39.97	358.04	17.89	260.83	239.74	227.60	34.63	303.87	21.03	182.30	239.69
41229	65.51	-1.65	-2.70	78.74	47.89	374.02	15.74	243.32	234.24	226.26	34.97	387.57	20.23	192.27	234.30
41230	65.47	-0.55	-2.70	78.82	47.84	373.27	15.17	243.61	235.51	224.96	35.77	390.63	15.69	194.67	235.52
41231	65.47	0.55	-2.70	78.84	47.83	373.27	15.16	243.62	235.51	224.95	35.78	390.62	15.70	194.69	235.52
4															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
41259	76.60	0.55	-4.10	28.58	4.63	216.78	10.00	358.03	295.34	36.94	45.92	261.43	10.04	59.91	295.36
41260	76.60	1.65	-4.10	28.42	4.66	220.31	9.85	357.21	294.21	36.44	45.34	264.56	10.18	60.34	294.38
41261	75.37	-1.65	-4.10	29.10	3.86	233.26	14.23	354.66	290.85	28.53	45.36	256.24	14.48	50.50	291.05
41262	75.36	-0.55	-4.10	29.31	3.79	229.95	14.47	355.49	291.96	29.07	46.10	252.94	14.49	50.23	291.98
41263	75.36	0.55	-4.10	29.33	3.80	229.93	14.47	355.49	291.96	29.09	46.11	252.94	14.50	50.22	291.98
41264	75.37	1.65	-4.10	29.16	3.91	233.23	14.25	354.65	290.86	28.58	45.40	256.25	14.50	50.49	291.05
41265	74.14	-1.65	-4.10	30.59	3.88	251.20	18.10	350.44	287.38	20.43	45.26	246.27	18.31	46.55	287.60
41266	74.12	-0.55	-4.10	30.81	3.69	248.18	18.39	351.27	288.47	21.02	46.14	242.73	18.41	46.82	288.49
41267	74.12	0.55	-4.10	30.83	3.71	248.17	18.39	351.27	288.47	21.04	46.15	242.73	18.42	46.82	288.49
41268	74.14	1.65	-4.10	30.65	3.91	251.16	18.11	350.43	287.40	20.48	45.29	246.27	18.33	46.54	287.60
41269	72.90	-1.65	-4.10	33.01	5.22	272.89	21.30	344.50	283.74	13.29	44.95	235.71	21.50	52.56	283.96
41270	72.89	-0.55	-4.10	33.24	4.99	270.19	21.64	345.33	284.81	13.99	45.99	231.95	21.66	53.62	284.84
41271	72.89	0.55	-4.10	33.26	5.00	270.18	21.64	345.32	284.81	14.00	46.01	231.95	21.66	53.62	284.84
41272	72.90	1.65	-4.10	33.06	5.24	272.85	21.31	344.48	283.76	13.33	44.98	235.70	21.51	52.57	283.97
41273	71.67	-1.65	-4.10	36.51	7.81	297.10	23.74	336.74	279.87	8.91	44.36	227.30	23.92	67.73	280.08
41274	71.65	-0.55	-4.10	36.75	7.61	294.73	24.09	337.56	280.93	9.78	45.58	223.45	24.11	69.43	280.95
41275	71.65	0.55	-4.10	36.76	7.61	294.72	24.09	337.56	280.93	9.79	45.59	223.44	24.11	69.43	280.95
41276	71.67	1.65	-4.10	36.56	7.81	297.05	23.74	336.73	279.89	8.94	44.38	227.28	23.93	67.75	280.09
41277	70.44	-1.65	-4.10	41.24	11.43	322.68	25.29	327.06	275.69	9.35	43.28	226.30	25.47	88.17	275.85
41278	70.41	-0.55	-4.10	41.49	11.29	320.64	25.63	327.85	276.73	10.41	44.65	222.74	25.65	90.29	276.75
41279	70.41	0.55	-4.10	41.50	11.29	320.63	25.63	327.85	276.74	10.42	44.66	222.72	25.65	90.30	276.75
41280	70.44	1.65	-4.10	41.29	11.42	322.63	25.29	327.04	275.70	9.37	43.31	226.26	25.48	88.20	275.86
41281	69.20	-1.65	-4.10	47.35	16.03	348.51	25.86	315.26	271.09	15.50	41.32	240.13	26.06	110.29	271.19
41282	69.18	-0.55	-4.10	47.63	15.95	346.81	26.14	316.01	272.15	16.92	42.75	237.52	26.16	112.66	272.16
41283	69.18	0.55	-4.10	47.64	15.95	346.79	26.14	316.01	272.15	16.93	42.75	237.50	26.16	112.67	272.16
41284	69.20	1.65	-4.10	47.39	16.03	348.47	25.86	315.25	271.10	15.51	41.33	240.08	26.06	110.33	271.19
41285	67.97	-1.65	-4.10	55.03	21.62	373.42	25.41	301.11	266.01	28.92	37.73	274.80	25.68	130.63	266.02
41286	67.94	-0.55	-4.10	55.36	21.56	372.04	25.58	301.78	267.10	30.81	39.05	273.76	25.61	133.10	267.10
41287	67.94	0.55	-4.10	55.37	21.56	372.02	25.58	301.78	267.10	30.82	39.05	273.75	25.61	133.12	267.10
41288	67.97	1.65	-4.10	55.06	21.61	373.38	25.41	301.10	266.01	28.93	37.74	274.75	25.68	130.68	266.02
41289	66.74	-1.65	-4.10	64.42	28.17	395.99	23.99	284.22	260.32	50.47	31.50	330.03	24.44	145.12	260.28
41290	66.70	-0.55	-4.10	64.84	28.09	394.92	23.99	284.79	261.48	52.84	32.47	330.87	24.04	147.54	261.47
41291	66.70	0.55	-4.10	64.85	28.09	394.91	23.98	284.79	261.48	52.86	32.48	330.86	24.04	147.56	261.47
41292	66.74	1.65	-4.10	64.46	28.15	395.95	23.98	284.23	260.32	50.51	31.52	330.00	24.44	145.17	260.27
41293	65.51	-1.65	-4.10	75.51	35.58	414.33	21.81	264.17	253.89	77.92	22.31	397.84	22.65	149.28	253.84
41294	65.47	-0.55	-4.10	76.04	35.49	413.55	21.58	264.56	255.14	80.89	22.68	400.48	21.67	151.37	255.14
41295	65.47	0.55	-4.10	76.06	35.48	413.54	21.58	264.57	255.14	80.92	22.68	400.48	21.68	151.39	255.13
41296	65.51	1.65	-4.10	75.55	35.56	414.30	21.79	264.18	253.88	77.99	22.32	397.81	22.66	149.34	253.84
41297	64.27	-1.65	-4.10	87.73	43.77	425.83	19.35	240.66	246.30	104.36	18.40	463.80	20.77	140.12	246.39
41298	64.23	-0.55	-4.10	88.47	43.79	425.23	18.82	240.68	247.70	108.22	17.85	467.70	18.95	141.20	247.72
41299	64.23	0.55	-4.10	88.48	43.78	425.22	18.81	240.68	247.70	108.28	17.82	467.70	18.97	141.21	247.72
41300	64.27	1.65	-4.10	87.77	43.75	425.80	19.34	240.67	246.30	104.51	18.32	463.78	20.82	140.17	246.38
41301	63.04	-1.65	-4.10	99.57	52.79	426.80	17.45	214.22	236.65	118.09	37.78	509.75	19.45	120.57	237.13
41302	62.99	-0.55	-4.10	100.76	53.22	426.06	16.37	213.25	238.34	122.58	37.27	513.19	16.57	119.60	238.41
41303	62.99	0.55	-4.10	100.77	53.21	426.06	16.36	213.26	238.34	122.68	37.21	513.18	16.62	119.60	238.40
41304	63.04	1.65	-4.10	99.60	52.77	426.77	17.43	214.23	236.64	118.37	37.63	509.73	19.57	120.59	237.11
41305	61.81	-1.65	-4.10	108.41	63.05	412.80	17.25	187.50	223.14	107.24	71.35	522.66	20.74	105.98	224.30
41306	61.76	-0.55	-4.10	110.46	64.16	411.14	14.90	184.31	225.54	109.32	73.16	524.33	15.45	102.57	225.68
41307	61.76	0.55	-4.10	110.46	64.15	411.13	14.88	184.31	225.54	109.46	73.14	524.31	15.58	102.57	225.67
41308	61.81	1.65	-4.10	108.44	63.03	412.78	17.21	187.51	223.14	107.65	71.25	522.60	20.97	105.97	224.25
41309	60.58	-1.65	-4.10	111.66	75.43	376.89	19.60	165.77	202.31	75.10	114.27	501.84	28.51	123.16	203.39
41310	60.52	-0.55	-4.10	114.78	76.88	371.90	14.52	159.32	206.30	74.30	123.58	508.71	16.95	112.20	206.37
41311	60.52	0.55	-4.10	114.78	76.86	371.89	14.49	159.32	206.31	74.40	123.62	508.66	17.20	112.20	206.36
41312	60.58	1.65	-4.10	111.66	75.39	376.85	19.53	165.75	202.34	75.48	114.36	501.68	28.87	123.15	203.34
41313	59.34	-1.65	-4.10	104.42	90.39	312.46	20.58	155.64	172.48	43.90	173.39	416.78	37.40	224.82	172.38
41314	59.28	-0.55	-4.10	106.84	91.62	296.11	10.38	145.57	180.41	51.07	197.65	438.82	17.73	202.47	180.50
41315	59.28	0.55	-4.10	106.83	91.59	296.10	10.35	145.57	180.43	51.00	197.74	438.73	17.98	202.45	180.56
41316	59.34	1.65	-4.10	104.40	90.29	312.41	20.52	155.62	172.57	43.83	173.60	416.53	37.70	224.75	172.48
41317	77.83	-1.65	-5.50	32.57	10.05	232.36	6.24	376.97	312.39	152.74	66.10	280.41	6.30	88.71	312.55
41318	77.83	-0.55	-5.50	32.82	10.13	228.55	6.33	377.78	313.62	154.00	66.72	277.16	6.34	88.23	313.64
41319	77.83	0.55	-5.50	32.84	10.14	228.54	6.34	377.78	313.62	154.03	66.74	277.17	6.35	88.23	313.64
41320	77.83	1.65	-5.50	32.64	10.09	232.35	6.27	376.96	312.39	152.83	66.16	280.44	6.32	88.71	312.55
41321	76.60	-1.65	-5.50	31.52	9.50	239.59	12.13	376.44	309.71	155.68	68.01	274.23	12.22	74.81	309.91
41322	76.60	-0.55	-5.50	31.77	9.59	235.89	12.32	377.27	310.91	157.05	68.75	270.85	12.33	74.20	310.93
41323	76.60	0.55	-5.50	31.79	9.60	235.89	12.33	377.27	310.91	157.07	68.77	270.86	12.34	74.20	310.93
41324	76.60	1.65	-5.50	31.58	9.54	239.57	12.16	376.43	309.72	155.77	68.07	274.25	12.24	74.80	309.91
41325	75.37	-1.65	-5.50	31.33	8.66	253.20	17.59	374.54	307.05	159.18	69.55	266.69	17.71	61.83	307.28
41326	75.36	-0.55	-5.50	31.60	8.74	249.71	17.86	375.37	308.22	160.69	70.43	263.13	17.88	61.22	308.25
41327	75.36	0.55	-5.50	31.62	8.76	249.70	17.87	375.37	308.23	160.72	70.45	263.13	17.88	61.22	308.25
41328	75.37	1.65	-5.50	31.39	8.71	253.17	17.61	374.53	307.06	159.26	69.61	266.70	17.72	61.82	307.29
41329	74.14	-1.65	-5.50	32.28	7.45	272.14	22.46	371.19	304.37	164.24	70.61	258.23			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
41357	65.51	-1.65	-5.50	96.50	22.44	453.37	28.73	289.58	275.90	362.93	25.70	404.44	28.76	93.73	275.86
41358	65.47	-0.55	-5.50	97.54	22.27	452.52	28.64	290.07	277.09	367.58	25.62	406.47	28.64	95.16	277.09
41359	65.47	0.55	-5.50	97.54	22.27	452.51	28.63	290.07	277.09	367.62	25.63	406.46	28.63	95.17	277.08
41360	65.51	1.65	-5.50	96.52	22.43	453.34	28.72	289.58	275.88	363.04	25.73	404.41	28.74	93.75	275.83
41361	64.27	-1.65	-5.50	115.94	30.80	468.36	24.94	265.27	267.71	418.16	4.39	459.46	24.89	92.02	267.70
41362	64.23	-0.55	-5.50	117.17	30.66	467.79	24.57	265.49	268.96	422.94	4.23	462.75	24.56	92.90	268.96
41363	64.23	0.55	-5.50	117.17	30.66	467.79	24.56	265.49	268.96	423.01	4.13	462.74	24.56	92.90	268.95
41364	64.27	1.65	-5.50	115.96	30.78	468.34	24.93	265.28	267.69	418.34	4.16	459.44	24.88	92.03	267.68
41365	63.04	-1.65	-5.50	135.62	40.61	472.48	20.18	237.90	256.93	469.04	41.34	497.04	20.33	92.20	257.16
41366	62.99	-0.55	-5.50	137.08	40.51	472.02	19.40	237.66	258.25	473.19	43.12	500.96	19.42	92.42	258.28
41367	62.99	0.55	-5.50	137.09	40.50	472.01	19.40	237.66	258.25	473.28	43.08	500.95	19.44	92.42	258.27
41368	63.04	1.65	-5.50	135.63	40.58	472.47	20.17	237.90	256.91	469.30	41.23	497.01	20.36	92.20	257.13
41369	61.81	-1.65	-5.50	152.68	52.12	460.30	14.50	210.00	242.29	508.88	92.03	501.75	15.81	100.96	242.98
41370	61.76	-0.55	-5.50	154.37	51.97	459.46	12.99	209.18	243.77	511.40	95.69	506.27	13.24	100.18	243.85
41371	61.76	0.55	-5.50	154.38	51.96	459.45	12.99	209.18	243.77	511.51	95.67	506.24	13.31	100.18	243.83
41372	61.81	1.65	-5.50	152.69	52.09	460.29	14.48	209.98	242.29	509.20	91.95	501.66	15.94	100.96	242.95
41373	60.58	-1.65	-5.50	162.66	65.40	425.47	7.79	186.02	222.59	530.91	155.54	452.24	12.31	131.82	223.74
41374	60.52	-0.55	-5.50	164.06	64.91	422.94	4.49	184.63	224.59	531.12	163.35	457.55	6.31	129.53	224.70
41375	60.52	0.55	-5.50	164.06	64.88	422.94	4.48	184.62	224.60	531.23	163.35	457.49	6.53	129.54	224.69
41376	60.58	1.65	-5.50	162.67	65.35	425.47	7.77	186.00	222.61	531.24	155.51	452.08	12.55	131.84	223.70
41377	59.34	-1.65	-5.50	162.05	79.70	365.09	5.46	169.31	197.68	517.98	229.48	319.78	11.85	208.74	198.93
41378	59.28	-0.55	-5.50	160.64	78.20	359.44	8.90	166.79	201.44	511.21	246.02	323.22	11.06	206.25	201.51
41379	59.28	0.55	-5.50	160.64	78.16	359.44	8.90	166.79	201.47	511.30	246.01	323.16	11.16	206.24	201.52
41380	59.34	1.65	-5.50	162.06	79.62	365.10	5.47	169.28	197.75	518.29	229.45	319.63	12.01	208.71	198.93
41381	77.83	-1.65	-6.90	44.57	19.47	251.39	7.75	392.57	326.43	269.07	88.74	291.20	9.09	112.24	326.60
41382	77.83	-0.55	-6.90	44.83	19.53	247.45	7.78	393.34	327.78	271.01	89.45	287.72	7.94	111.68	327.80
41383	77.83	0.55	-6.90	44.85	19.54	247.45	7.78	393.34	327.78	271.05	89.48	287.73	7.95	111.68	327.79
41384	77.83	1.65	-6.90	44.62	19.49	251.38	7.77	392.57	326.43	269.18	88.80	291.23	9.10	112.23	326.60
41385	76.60	-1.65	-6.90	44.34	19.42	258.74	14.96	392.42	324.32	281.12	92.68	285.76	16.09	97.30	324.53
41386	76.60	-0.55	-6.90	44.61	19.51	254.90	15.12	393.20	325.63	283.29	93.54	282.17	15.26	96.56	325.66
41387	76.60	0.55	-6.90	44.62	19.52	254.90	15.13	393.19	325.64	283.33	93.56	282.18	15.26	96.55	325.66
41388	76.60	1.65	-6.90	44.38	19.46	258.72	14.98	392.41	324.32	281.23	92.74	285.78	16.08	97.28	324.53
41389	75.37	-1.65	-6.90	45.84	19.20	272.54	21.74	391.22	322.37	295.01	96.15	279.46	22.88	82.92	322.62
41390	75.36	-0.55	-6.90	46.13	19.30	268.89	21.99	392.00	323.66	297.48	97.15	275.72	22.13	82.06	323.69
41391	75.36	0.55	-6.90	46.13	19.31	268.88	22.00	391.99	323.66	297.52	97.17	275.72	22.12	82.05	323.69
41392	75.37	1.65	-6.90	45.86	19.24	272.50	21.75	391.20	322.37	295.12	96.21	279.47	22.86	82.90	322.62
41393	74.14	-1.65	-6.90	49.01	18.70	291.85	27.88	388.87	320.55	311.77	98.96	272.78	29.12	70.25	320.84
41394	74.12	-0.55	-6.90	49.35	18.83	288.45	28.21	389.65	321.81	314.58	100.11	268.85	28.35	69.37	321.84
41395	74.12	0.55	-6.90	49.35	18.84	288.43	28.21	389.64	321.81	314.62	100.13	268.85	28.34	69.36	321.84
41396	74.14	1.65	-6.90	49.02	18.75	291.80	27.88	388.84	320.55	311.86	99.02	272.77	29.09	70.22	320.84
41397	72.90	-1.65	-6.90	53.74	17.85	315.58	33.20	385.25	318.78	332.62	100.85	266.87	34.59	60.65	319.11
41398	72.89	-0.55	-6.90	54.16	17.99	312.46	33.58	386.04	320.01	335.86	102.12	262.78	33.74	59.93	320.05
41399	72.89	0.55	-6.90	54.16	18.00	312.45	33.58	386.03	320.01	335.88	102.14	262.78	33.73	59.92	320.04
41400	72.90	1.65	-6.90	53.74	17.90	315.52	33.20	385.22	318.78	332.70	100.90	266.85	34.55	60.62	319.10
41401	71.67	-1.65	-6.90	59.98	16.56	342.64	37.52	380.15	316.96	359.05	101.40	263.98	39.08	55.26	317.31
41402	71.65	-0.55	-6.90	60.52	16.70	339.82	37.91	380.95	318.16	362.78	102.75	259.86	38.10	54.88	318.20
41403	71.65	0.55	-6.90	60.52	16.72	339.80	37.91	380.94	318.15	362.80	102.76	259.85	38.08	54.87	318.19
41404	71.67	1.65	-6.90	59.98	16.60	342.58	37.50	380.12	316.95	359.13	101.44	263.95	39.03	55.24	317.29
41405	70.44	-1.65	-6.90	67.89	14.78	371.98	40.63	373.31	314.94	392.71	99.99	267.67	42.39	54.06	315.28
41406	70.41	-0.55	-6.90	68.59	14.91	369.48	41.02	374.12	316.10	397.00	101.33	263.80	41.23	54.05	316.14
41407	70.41	0.55	-6.90	68.59	14.93	369.46	41.02	374.11	316.09	397.02	101.34	263.79	41.21	54.05	316.13
41408	70.44	1.65	-6.90	67.89	14.83	371.91	40.62	373.29	314.92	392.78	100.02	267.62	42.32	54.05	315.25
41409	69.20	-1.65	-6.90	77.84	12.62	402.57	42.38	364.36	312.52	435.31	95.72	282.26	44.29	55.74	312.81
41410	69.18	-0.55	-6.90	78.71	12.73	400.41	42.73	365.16	313.64	440.19	96.93	279.10	42.95	55.96	313.68
41411	69.18	0.55	-6.90	78.71	12.74	400.39	42.72	365.15	313.63	440.22	96.94	279.08	42.93	55.96	313.67
41412	69.20	1.65	-6.90	77.84	12.67	402.51	42.36	364.34	312.49	435.38	95.74	282.20	44.22	55.73	312.77
41413	67.97	-1.65	-6.90	90.34	10.63	433.29	42.61	352.79	309.45	488.31	87.33	310.94	44.60	59.15	309.65
41414	67.94	-0.55	-6.90	91.41	10.67	431.51	42.88	353.57	310.54	493.79	88.21	308.99	43.11	59.38	310.56
41415	67.94	0.55	-6.90	91.41	10.68	431.49	42.87	353.56	310.53	493.81	88.22	308.97	43.08	59.38	310.55
41416	67.97	1.65	-6.90	90.35	10.66	433.24	42.60	352.77	309.41	488.39	87.35	310.89	44.52	59.15	309.60
41417	66.74	-1.65	-6.90	105.97	10.33	462.79	41.21	337.99	305.40	552.59	73.14	353.58	43.11	64.83	305.50
41418	66.70	-0.55	-6.90	107.22	10.28	461.41	41.34	338.70	306.49	558.57	73.44	353.17	41.56	64.90	306.50
41419	66.70	0.55	-6.90	107.22	10.29	461.40	41.34	338.70	306.47	558.60	73.44	353.15	41.53	64.89	306.48
41420	66.74	1.65	-6.90	105.97	10.34	462.74	41.20	337.98	305.36	552.68	73.16	353.53	43.04	64.82	305.45
41421	65.51	-1.65	-6.90	125.12	13.56	489.21	38.08	319.25	300.00	628.00	51.16	405.55	39.66	74.76	300.00
41422	65.47	-0.55	-6.90	126.54	13.47	488.27	38.01	319.84	301.09	634.28	50.58	406.76	38.19	74.67	301.09
41423	65.47	0.55	-6.90	126.54	13.46	488.26	38.01	319.83	301.07	634.32	50.59	406.75	38.16	74.67	301.07
41424	65.51	1.65	-6.90	125.12	13.54	489.17	38.07	319.24	299.95	628.11	51.18	405.51	39.59	74.76	299.95
41425	64.27	-1.65	-6.90	147.84	20.21	509.89	33.09	295.91	292.74	712.99	20.83	457.92	34.10	90.05	292.71
41426	64.23	-0.55	-6.90	149.41	20.14	509.37	32.74	296.29	293.85	719.22	19.46	460.61	32.84	89.94	293.85
41427	64.23	0.55	-6.90	149.41	20.13										



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
41455	75.36	0.55	-8.30	66.43	31.66	287.38	26.89	404.13	337.92	436.86	125.32	290.25	27.21	112.45	337.95
41456	75.37	1.65	-8.30	66.16	31.56	291.14	26.67	403.46	336.38	433.52	124.23	294.15	29.46	113.43	336.63
41457	74.14	-1.65	-8.30	72.70	31.81	310.20	34.38	402.20	335.41	460.45	129.22	289.12	37.40	101.26	335.71
41458	74.12	-0.55	-8.30	73.04	31.97	306.64	34.66	402.85	336.89	464.39	130.49	285.08	35.03	100.12	336.93
41459	74.12	0.55	-8.30	73.03	31.99	306.62	34.66	402.84	336.89	464.44	130.51	285.08	35.00	100.11	336.92
41460	74.14	1.65	-8.30	72.67	31.85	310.16	34.37	402.16	335.39	460.57	129.27	289.12	37.33	101.23	335.69
41461	72.90	-1.65	-8.30	80.90	31.88	333.82	41.21	399.99	334.63	492.27	133.26	284.79	44.53	91.81	334.97
41462	72.89	-0.55	-8.30	81.35	32.09	330.51	41.53	400.64	336.06	496.79	134.65	280.60	41.93	90.61	336.10
41463	72.89	0.55	-8.30	81.34	32.11	330.49	41.52	400.63	336.05	496.82	134.67	280.59	41.89	90.60	336.08
41464	72.90	1.65	-8.30	80.87	31.92	333.76	41.19	399.96	334.61	492.38	133.30	284.77	44.44	91.78	334.94
41465	71.67	-1.65	-8.30	90.34	31.64	361.06	46.92	396.70	333.96	530.04	135.83	282.69	50.62	86.16	334.33
41466	71.65	-0.55	-8.30	90.95	31.89	358.03	47.26	397.35	335.31	535.18	137.30	278.42	47.70	84.96	335.35
41467	71.65	0.55	-8.30	90.94	31.90	358.00	47.25	397.34	335.30	535.21	137.31	278.41	47.66	84.95	335.34
41468	71.67	1.65	-8.30	90.31	31.68	361.00	46.89	396.67	333.92	530.14	135.86	282.66	50.52	86.12	334.28
41469	70.44	-1.65	-8.30	100.83	30.98	391.01	51.29	392.07	333.23	575.10	136.26	285.28	55.41	85.32	333.60
41470	70.41	-0.55	-8.30	101.63	31.25	388.28	51.62	392.73	334.50	580.91	137.70	281.13	52.11	84.18	334.54
41471	70.41	0.55	-8.30	101.62	31.26	388.26	51.60	392.72	334.48	580.94	137.71	281.11	52.06	84.17	334.52
41472	70.44	1.65	-8.30	100.80	31.01	390.95	51.26	392.03	333.18	575.19	136.28	285.23	55.30	85.28	333.54
41473	69.20	-1.65	-8.30	112.41	29.84	422.80	54.10	385.76	332.24	628.95	133.58	295.77	58.62	90.41	332.57
41474	69.18	-0.55	-8.30	113.44	30.12	420.40	54.38	386.45	333.41	635.44	134.85	292.07	54.91	89.37	333.45
41475	69.18	0.55	-8.30	113.43	30.12	420.38	54.37	386.44	333.39	635.47	134.85	292.05	54.87	89.36	333.42
41476	69.20	1.65	-8.30	112.39	29.86	422.74	54.06	385.73	332.17	629.04	133.60	295.72	58.50	90.37	332.50
41477	67.97	-1.65	-8.30	125.41	28.26	455.52	55.12	377.32	330.70	693.19	126.46	317.26	59.96	102.79	330.97
41478	67.94	-0.55	-8.30	126.67	28.53	453.50	55.33	378.03	331.79	700.32	127.34	314.45	55.90	101.93	331.82
41479	67.94	0.55	-8.30	126.67	28.53	453.48	55.32	378.02	331.76	700.34	127.35	314.43	55.86	101.92	331.79
41480	67.97	1.65	-8.30	125.39	28.26	455.46	55.09	377.30	330.62	693.28	126.47	317.20	59.83	102.77	330.89
41481	66.74	-1.65	-8.30	140.38	26.51	488.12	54.19	366.13	328.31	769.52	113.14	351.27	59.11	123.65	328.48
41482	66.70	-0.55	-8.30	141.87	26.78	486.55	54.29	366.82	329.34	777.13	113.36	349.76	54.86	123.04	329.35
41483	66.70	0.55	-8.30	141.86	26.77	486.54	54.29	366.81	329.30	777.16	113.36	349.75	54.82	123.04	329.32
41484	66.74	1.65	-8.30	140.36	26.49	488.08	54.17	366.11	328.22	769.61	113.15	351.22	58.99	123.63	328.39
41485	65.51	-1.65	-8.30	158.20	25.26	519.23	51.11	351.28	324.71	859.67	91.50	396.43	55.74	152.80	324.76
41486	65.47	-0.55	-8.30	159.89	25.53	518.17	51.05	351.90	325.70	867.51	90.72	396.49	51.58	152.53	325.70
41487	65.47	0.55	-8.30	159.88	25.52	518.16	51.05	351.89	325.67	867.55	90.72	396.48	51.54	152.53	325.67
41488	65.51	1.65	-8.30	158.19	25.23	519.20	51.10	351.25	324.61	859.77	91.50	396.38	55.63	152.79	324.67
41489	64.27	-1.65	-8.30	180.08	25.81	546.80	45.64	331.48	319.48	965.27	59.82	447.53	49.47	187.60	319.46
41490	64.23	-0.55	-8.30	181.92	26.11	546.27	45.32	331.96	320.49	972.95	57.89	449.23	45.75	187.72	320.49
41491	64.23	0.55	-8.30	181.92	26.10	546.26	45.33	331.95	320.46	972.99	57.89	449.21	45.71	187.72	320.46
41492	64.27	1.65	-8.30	180.08	25.76	546.78	45.65	331.45	319.39	965.38	59.81	447.49	49.36	187.60	319.37
41493	63.04	-1.65	-8.30	207.57	29.79	567.64	37.36	304.98	312.18	1087.07	29.83	494.29	39.87	222.45	312.21
41494	62.99	-0.55	-8.30	209.50	30.17	567.61	36.64	305.22	313.25	1094.09	29.95	497.38	36.90	222.91	313.25
41495	62.99	0.55	-8.30	209.50	30.15	567.61	36.65	305.21	313.22	1094.13	29.92	497.37	36.87	222.92	313.22
41496	63.04	1.65	-8.30	207.57	29.74	567.64	37.39	304.95	312.10	1087.17	29.77	494.25	39.79	222.45	312.13
41497	61.81	-1.65	-8.30	242.28	38.27	576.96	25.68	269.85	302.19	1223.01	74.18	518.92	26.61	248.45	302.58
41498	61.76	-0.55	-8.30	244.21	38.79	577.28	24.28	269.71	303.33	1228.63	79.73	522.75	24.35	249.14	303.37
41499	61.76	0.55	-8.30	244.21	38.77	577.29	24.29	269.70	303.30	1228.66	79.71	522.73	24.33	249.14	303.34
41500	61.81	1.65	-8.30	242.28	38.22	576.97	25.71	269.81	302.13	1223.10	74.13	518.87	26.57	248.45	302.50
41501	60.58	-1.65	-8.30	285.53	51.43	567.94	10.12	225.47	288.54	1365.64	161.49	494.61	9.74	253.63	289.93
41502	60.52	-0.55	-8.30	287.12	52.32	568.31	7.30	224.86	289.72	1367.65	170.43	497.85	7.31	254.05	289.88
41503	60.52	0.55	-8.30	287.12	52.30	568.33	7.32	224.84	289.70	1367.67	170.42	497.84	7.34	254.04	289.85
41504	60.58	1.65	-8.30	285.53	51.39	567.98	10.17	225.42	288.49	1365.70	161.47	494.56	9.76	253.60	289.85
41505	59.34	-1.65	-8.30	337.97	69.01	531.61	12.42	177.69	269.46	1499.44	270.14	393.79	15.44	227.44	272.89
41506	59.28	-0.55	-8.30	337.75	71.04	531.46	15.76	176.80	270.75	1489.38	287.35	394.27	17.11	225.76	271.09
41507	59.28	0.55	-8.30	337.75	71.03	531.48	15.75	176.79	270.74	1489.39	287.35	394.26	17.12	225.74	271.07
41508	59.34	1.65	-8.30	337.97	68.98	531.67	12.41	177.65	269.43	1499.49	270.14	393.78	15.45	227.37	272.81
41509	58.31	-1.65	-2.70	125.75	120.13	187.07	90.85	129.12	142.65	996.80	129.15	391.38	117.26	563.68	169.71
41510	58.25	-0.55	-2.70	98.15	125.57	121.30	59.32	89.73	114.00	1175.97	111.10	483.74	59.00	536.45	120.70
41511	58.25	0.55	-2.70	98.11	125.65	121.29	59.28	89.74	114.00	1175.61	111.50	483.62	58.99	536.35	120.90
41512	58.31	1.65	-2.70	125.64	120.40	187.03	90.78	129.12	142.66	995.58	130.39	391.15	117.42	563.22	170.16
41513	57.46	-1.65	-2.70	157.05	134.75	158.18	86.12	119.06	130.25	857.05	293.91	140.95	134.64	455.20	163.92
41514	57.40	-0.55	-2.70	120.70	149.60	41.59	27.32	53.74	74.96	883.02	209.77	59.38	29.44	284.25	85.06
41515	57.40	0.55	-2.70	120.66	149.72	41.58	27.27	53.74	74.97	882.80	210.11	59.33	29.45	284.17	85.28
41516	57.46	1.65	-2.70	156.95	135.18	158.16	86.06	119.03	130.26	856.17	294.95	141.03	134.71	454.84	164.34
41517	56.62	-1.65	-2.70	182.09	139.44	164.07	110.05	123.31	138.26	743.06	431.63	296.73	113.46	474.13	251.20
41518	56.56	-0.55	-2.70	112.33	157.44	30.22	71.89	41.07	74.49	627.59	190.00	47.15	90.78	212.26	100.59
41519	56.56	0.55	-2.70	112.29	157.57	30.22	71.85	41.07	74.50	627.47	190.20	47.19	90.89	212.20	100.77
41520	56.62	1.65	-2.70	182.05	139.87	164.07	109.96	123.27	138.27	742.63	432.24	296.85	113.42	473.85	251.51
41521	55.78	-1.65	-2.70	219.15	154.07	179.83	154.70	133.29	165.51	600.99	543.46	531.05	191.93	564.86	488.41
41522	55.72	-0.55	-2.70	80.69	168.54	28.61	100.22	24.05	85.15	333.11	136.71	113.33	149.82	151.45	183.15
41523	55.72	0.55	-2.70	80.67	168.70	28.61	100.18	24.05	85.16	333.05	136.75	113.36	150.00	151.40	183.23
41524	55.78	1.65	-2.70	219.17	154.46	179.83	154.60	133.26	165.5						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
41553	57.46	-1.65	-5.50	141.41	100.61	238.69	19.27	159.05	153.34	401.05	345.40	253.16	33.58	424.92	153.18
41554	57.40	-0.55	-5.50	122.27	100.22	227.60	36.66	146.51	163.31	351.26	393.92	223.52	41.30	407.12	163.59
41555	57.40	0.55	-5.50	122.26	100.15	227.60	36.65	146.51	163.35	351.34	393.87	223.51	41.24	407.09	163.64
41556	57.46	1.65	-5.50	141.40	100.50	238.71	19.25	159.05	153.44	401.31	345.31	253.05	33.52	424.83	153.29
41557	56.62	-1.65	-5.50	128.54	108.86	181.98	30.81	151.46	135.79	320.71	391.04	468.25	62.76	562.67	145.18
41558	56.56	-0.55	-5.50	84.90	110.41	169.29	51.12	121.86	149.15	221.09	461.22	418.81	61.12	501.90	155.65
41559	56.56	0.55	-5.50	84.89	110.35	169.30	51.10	121.86	149.18	221.15	461.15	418.75	61.00	501.88	155.67
41560	56.62	1.65	-5.50	128.52	108.75	182.00	30.78	151.47	135.88	320.91	390.91	467.99	62.66	562.64	145.20
41561	55.78	-1.65	-5.50	125.72	114.12	143.21	58.36	133.78	129.81	264.92	431.63	694.81	109.27	708.86	263.48
41562	55.72	-0.55	-5.50	40.02	114.25	136.13	56.57	68.24	139.56	99.64	512.98	611.95	74.19	493.33	204.75
41563	55.72	0.55	-5.50	40.00	114.23	136.14	56.55	68.25	139.59	99.67	512.90	611.87	74.06	493.31	204.50
41564	55.78	1.65	-5.50	125.70	114.03	143.24	58.33	133.78	129.88	265.02	431.44	694.43	109.17	708.91	263.07
41565	54.93	-1.65	-5.50	148.74	149.42	126.32	99.75	113.59	170.42	234.49	529.44	898.74	153.12	759.02	966.40
41566	54.88	-0.55	-5.50	10.19	93.98	135.64	16.10	9.89	122.43	13.31	458.97	752.28	17.10	181.61	246.32
41567	54.88	0.55	-5.50	10.20	93.97	135.65	16.09	9.89	122.44	13.31	458.83	752.16	17.06	181.62	245.77
41568	54.93	1.65	-5.50	148.72	149.47	126.37	99.73	113.59	170.46	234.54	529.16	898.28	153.08	759.06	965.56
41569	58.31	-1.65	-6.90	267.25	85.29	373.73	25.24	170.02	206.20	984.64	335.34	232.72	30.66	232.58	209.87
41570	58.25	-0.55	-6.90	258.51	88.70	370.73	33.01	168.56	208.03	946.55	369.42	226.69	36.07	229.86	208.30
41571	58.25	0.55	-6.90	258.51	88.68	370.74	33.00	168.56	208.04	946.59	369.41	226.68	36.05	229.84	208.30
41572	58.31	1.65	-6.90	267.26	85.24	373.79	25.23	170.01	206.22	984.77	335.32	232.68	30.63	232.51	209.85
41573	57.46	-1.65	-6.90	270.98	96.43	301.40	36.47	179.62	182.39	910.41	388.93	376.46	58.60	287.57	184.78
41574	57.40	-0.55	-6.90	246.70	104.41	296.42	48.90	175.81	185.34	816.88	453.08	367.48	58.89	274.81	185.35
41575	57.40	0.55	-6.90	246.69	104.39	296.44	48.89	175.81	185.36	816.92	453.07	367.43	58.82	274.78	185.37
41576	57.46	1.65	-6.90	270.98	96.38	301.46	36.46	179.62	182.42	910.53	388.92	376.29	58.51	287.49	184.81
41577	56.62	-1.65	-6.90	261.99	107.40	216.43	52.77	191.61	154.77	788.63	433.32	640.88	123.69	386.85	155.34
41578	56.56	-0.55	-6.90	203.29	121.02	208.62	65.46	179.24	159.45	588.70	535.35	618.41	93.28	335.95	161.58
41579	56.56	0.55	-6.90	203.28	120.99	208.64	65.45	179.24	159.46	588.73	535.34	618.32	93.17	335.93	161.57
41580	56.62	1.65	-6.90	261.98	107.35	216.50	52.75	191.61	154.80	788.74	433.32	640.56	123.57	386.80	155.36
41581	55.78	-1.65	-6.90	232.95	117.75	128.88	88.74	184.32	129.05	632.11	470.60	872.25	237.79	558.35	215.94
41582	55.72	-0.55	-6.90	107.66	127.15	119.54	70.26	143.74	132.90	262.40	569.56	790.34	122.51	371.93	178.03
41583	55.72	0.55	-6.90	107.65	127.16	119.56	70.25	143.74	132.92	262.42	569.56	790.20	122.41	371.92	177.78
41584	55.78	1.65	-6.90	232.94	117.71	128.95	88.73	184.32	129.09	632.19	470.61	871.80	237.69	558.34	215.64
41585	54.93	-1.65	-6.90	175.14	154.30	104.76	132.43	107.29	161.21	469.07	568.60	960.88	327.92	687.89	838.01
41586	54.88	-0.55	-6.90	46.86	84.81	134.10	12.91	2.68	112.23	50.68	360.39	706.10	14.56	174.96	206.49
41587	54.88	0.55	-6.90	46.86	84.83	134.11	12.90	2.68	112.24	50.68	360.38	705.91	14.52	174.97	205.98
41588	54.93	1.65	-6.90	175.13	154.37	104.83	132.42	107.29	161.24	469.14	568.65	960.32	327.89	687.88	837.36
41589	58.31	-1.65	-8.30	389.41	86.82	474.73	33.74	151.84	247.59	1589.66	370.34	289.86	42.57	186.63	253.18
41590	58.25	-0.55	-8.30	384.26	91.18	473.68	40.40	151.93	249.30	1549.70	405.26	287.08	44.26	180.26	249.75
41591	58.25	0.55	-8.30	384.26	91.17	473.70	40.39	151.92	249.30	1549.71	405.27	287.08	44.24	180.23	249.74
41592	58.31	1.65	-8.30	389.41	86.79	474.80	33.72	151.81	247.57	1589.70	370.36	289.85	42.54	186.56	253.13
41593	57.46	-1.65	-8.30	434.08	103.31	400.58	53.99	160.44	222.40	1618.24	449.90	375.75	80.81	170.65	227.40
41594	57.40	-0.55	-8.30	418.59	111.44	398.16	64.69	163.41	225.18	1517.77	518.65	371.23	76.02	163.65	225.32
41595	57.40	0.55	-8.30	418.59	111.43	398.18	64.68	163.41	225.18	1517.79	518.66	371.18	75.98	163.64	225.32
41596	57.46	1.65	-8.30	434.08	103.28	400.65	53.96	160.43	222.39	1618.28	449.94	375.61	80.74	170.60	227.39
41597	56.62	-1.65	-8.30	477.04	121.99	296.93	77.24	199.47	187.42	1570.52	519.78	707.31	156.57	201.65	187.33
41598	56.56	-0.55	-8.30	440.22	133.68	291.71	92.14	207.43	192.00	1346.15	638.09	688.56	122.54	214.09	192.93
41599	56.56	0.55	-8.30	440.22	133.67	291.73	92.13	207.43	192.00	1346.16	638.11	688.46	122.48	214.10	192.92
41600	56.62	1.65	-8.30	477.04	121.97	297.00	77.22	199.46	187.41	1570.56	519.83	707.04	156.50	201.63	187.34
41601	55.78	-1.65	-8.30	506.01	143.47	161.65	108.90	253.65	138.50	1387.23	575.13	1115.96	293.25	276.56	197.02
41602	55.72	-0.55	-8.30	431.21	147.85	151.43	112.16	266.32	142.29	960.17	699.88	1023.97	165.34	285.05	170.49
41603	55.72	0.55	-8.30	431.21	147.87	151.45	112.16	266.32	142.29	960.17	699.90	1023.84	165.31	285.05	170.33
41604	55.78	1.65	-8.30	506.00	143.45	161.72	108.88	253.65	138.50	1387.26	575.19	1115.60	293.20	276.54	196.85
41605	54.93	-1.65	-8.30	488.52	185.52	80.60	144.07	274.31	97.70	1015.79	624.22	1286.98	397.00	455.42	615.25
41606	54.88	-0.55	-8.30	374.59	122.55	129.20	87.52	277.89	56.00	465.41	428.92	924.43	88.85	291.49	143.42
41607	54.88	0.55	-8.30	374.59	122.57	129.21	87.51	277.89	56.00	465.40	428.94	924.27	88.85	291.49	142.96
41608	54.93	1.65	-8.30	488.51	185.58	80.67	144.06	274.31	97.72	1015.82	624.31	1286.51	397.05	455.41	614.79
41609	97.48	2.50	-2.70	87.86	75.10	382.30	139.58	131.29	228.90	244.55	87.48	432.11	139.47	144.19	228.88
41610	97.39	3.10	-2.70	91.71	77.73	382.96	138.41	132.80	228.10	245.33	88.64	429.51	138.22	144.20	228.08
41611	96.25	2.50	-2.70	60.35	61.72	410.82	94.76	121.90	263.46	180.26	72.22	348.21	94.67	85.79	263.28
41612	96.17	3.10	-2.70	63.50	63.01	411.35	94.19	124.00	262.19	180.98	72.66	347.61	94.05	87.47	261.90
41613	95.02	2.50	-2.70	47.11	53.75	405.88	74.66	141.15	273.85	142.99	60.67	280.78	74.62	64.33	273.63
41614	94.95	3.10	-2.70	50.05	54.57	406.27	74.23	142.83	272.39	143.75	60.91	281.67	74.17	66.64	272.05
41615	93.79	2.50	-2.70	38.77	47.27	401.02	62.60	165.13	281.74	116.16	53.64	248.89	62.63	51.21	281.52
41616	93.73	3.10	-2.70	41.65	47.91	401.39	62.22	166.29	280.10	117.04	53.78	250.81	62.25	53.86	279.77
41617	92.57	2.50	-2.70	32.89	41.70	391.62	54.20	190.32	287.85	95.01	48.57	235.92	54.30	49.13	287.66
41618	92.50	3.10	-2.70	35.75	42.26	392.11	53.81	190.99	286.08	96.02	48.66	238.52	53.96	51.35	285.79
41619	91.34	2.50	-2.70	28.52	36.79	378.13	47.70	214.71	292.42	77.44	44.71	234.42	47.87	55.11	292.27
41620	91.28	3.10	-2.70	31.33	37.30	378.84	47.31	214.96	290.56	78.61	44.77	237.42	47.56	56.51	290.33
41621	90.11	2.50	-2.70	25.44	32.42	361.12	42.24	237.29	295.58	62.63	41.65	238.71	42.48	64.00	295.48
41622	90.06	3.10	-2.70												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
41651	91.34	2.50	-4.10	19.90	30.14	415.11	48.74	239.34	303.91	29.60	42.47	255.00	48.92	84.34	303.80
41652	91.28	3.10	-4.10	23.64	30.64	415.96	48.24	239.19	301.89	32.38	42.40	258.49	48.51	84.56	301.72
41653	90.11	2.50	-4.10	19.61	25.66	395.25	44.32	262.27	308.17	18.22	41.84	260.44	44.53	95.85	308.10
41654	90.06	3.10	-4.10	22.76	26.16	396.51	43.81	261.84	306.12	21.65	41.79	264.10	44.14	95.68	306.01
41655	88.88	2.50	-4.10	21.20	21.85	372.58	40.02	282.33	310.68	17.51	41.49	266.61	40.27	104.67	310.64
41656	88.84	3.10	-4.10	23.54	22.35	374.26	39.53	281.69	308.63	20.07	41.45	270.36	39.91	104.29	308.57
41657	87.66	2.50	-4.10	23.47	18.63	348.25	35.65	299.57	311.78	25.33	41.41	272.29	35.91	110.68	311.78
41658	87.62	3.10	-4.10	25.09	19.11	350.37	35.18	298.79	309.75	26.38	41.36	276.08	35.59	110.19	309.74
41659	86.43	2.50	-4.10	25.61	15.94	323.30	31.08	314.16	311.75	34.24	41.56	276.97	31.36	113.92	311.78
41660	86.39	3.10	-4.10	26.68	16.38	325.86	30.64	313.28	309.76	34.47	41.49	280.77	31.08	113.41	309.80
41661	85.20	2.50	-4.10	27.25	13.70	298.71	26.27	326.30	310.84	41.84	41.89	280.47	26.58	114.53	310.90
41662	85.17	3.10	-4.10	27.94	14.08	301.71	25.88	325.35	308.90	41.63	41.77	284.28	26.36	114.06	308.99
41663	83.97	2.50	-4.10	28.30	11.84	275.48	21.23	336.18	309.24	47.48	42.35	282.78	21.58	112.64	309.33
41664	83.95	3.10	-4.10	28.71	12.16	278.93	20.90	335.18	307.36	47.01	42.17	286.58	21.45	112.27	307.50
41665	82.75	2.50	-4.10	28.78	10.28	254.69	16.01	343.99	307.12	50.91	42.86	283.89	16.45	108.44	307.25
41666	82.73	3.10	-4.10	29.00	10.52	258.57	15.76	342.94	305.31	50.30	42.61	287.69	16.44	108.19	305.50
41667	81.52	2.50	-4.10	28.82	8.95	237.49	10.70	349.87	304.63	52.07	43.38	283.79	11.31	102.07	304.79
41668	81.51	3.10	-4.10	28.90	9.11	241.79	10.53	348.79	302.88	51.39	43.05	287.60	11.49	101.99	303.13
41669	80.29	2.50	-4.10	28.58	7.77	225.12	5.39	353.94	301.86	50.99	43.85	282.40	6.51	93.76	302.07
41670	80.28	3.10	-4.10	28.56	7.85	229.73	5.33	352.83	300.18	50.28	43.42	286.25	7.01	93.87	300.49
41671	79.06	2.50	-4.10	28.26	6.68	218.63	0.56	356.30	298.90	47.75	44.22	279.60	3.73	83.77	299.17
41672	79.06	3.10	-4.10	28.16	6.70	223.44	0.70	355.17	297.28	47.04	43.69	283.52	4.66	84.08	297.67
41673	97.48	2.50	-5.50	41.12	65.00	395.10	58.31	144.04	236.10	23.08	18.56	282.59	58.32	101.46	236.39
41674	97.39	3.10	-5.50	43.19	64.89	395.11	57.99	145.43	235.08	27.16	18.37	282.42	57.99	101.03	235.52
41675	96.25	2.50	-5.50	42.46	53.29	453.80	61.34	167.77	263.75	24.15	25.92	285.78	61.32	60.07	263.83
41676	96.17	3.10	-5.50	44.82	53.48	453.48	60.80	168.97	262.29	28.80	25.52	286.77	60.77	61.42	262.41
41677	95.02	2.50	-5.50	33.74	43.07	478.84	60.03	192.14	285.49	22.63	31.95	276.92	59.96	62.16	285.43
41678	94.95	3.10	-5.50	36.80	43.44	478.64	59.47	192.94	283.72	27.43	31.60	279.23	59.36	63.56	283.64
41679	93.79	2.50	-5.50	23.80	34.91	480.76	57.32	219.33	300.86	22.76	35.62	271.36	57.26	85.26	300.77
41680	93.73	3.10	-5.50	27.75	35.38	480.89	56.76	219.61	298.92	27.01	35.39	274.58	56.67	85.76	298.79
41681	92.57	2.50	-5.50	18.99	28.42	469.92	54.44	246.12	311.39	31.05	38.13	272.42	54.42	106.22	311.32
41682	92.50	3.10	-5.50	23.21	28.95	470.48	53.89	245.95	309.36	33.65	38.00	276.14	53.87	106.11	309.25
41683	91.34	2.50	-5.50	21.43	23.25	451.49	51.45	270.47	318.46	45.27	40.19	276.97	51.48	122.45	318.40
41684	91.28	3.10	-5.50	24.54	23.81	452.53	50.91	269.97	316.38	46.47	40.13	280.97	50.95	121.96	316.30
41685	90.11	2.50	-5.50	27.02	19.22	428.34	48.21	291.75	322.92	61.26	42.15	282.41	48.25	134.18	322.89
41686	90.06	3.10	-5.50	28.90	19.76	429.88	47.67	291.03	320.82	61.59	42.13	286.56	47.75	133.49	320.78
41687	88.88	2.50	-5.50	32.40	16.18	402.45	44.55	309.97	325.37	76.97	44.17	287.42	44.60	141.93	325.37
41688	88.84	3.10	-5.50	33.46	16.69	404.48	44.03	309.11	323.28	76.76	44.16	291.65	44.12	141.16	323.28
41689	87.66	2.50	-5.50	36.50	14.02	375.23	40.39	325.36	326.28	91.52	46.33	291.46	40.44	146.14	326.30
41690	87.62	3.10	-5.50	37.05	14.45	377.73	39.90	324.41	324.21	90.95	46.31	295.71	39.97	145.37	324.24
41691	86.43	2.50	-5.50	39.11	12.57	347.83	35.69	338.20	326.02	104.52	48.64	294.37	35.72	147.19	326.06
41692	86.39	3.10	-5.50	39.34	12.91	350.77	35.24	337.21	323.99	103.70	48.58	298.62	35.29	146.50	324.05
41693	85.20	2.50	-5.50	40.32	11.69	321.25	30.49	348.79	324.88	115.82	51.08	296.16	30.50	145.40	324.95
41694	85.17	3.10	-5.50	40.36	11.93	324.62	30.09	347.76	322.91	114.82	50.97	300.39	30.10	144.81	323.01
41695	83.97	2.50	-5.50	40.34	11.18	296.49	24.85	357.36	323.13	125.38	53.60	296.90	24.83	141.03	323.23
41696	83.95	3.10	-5.50	40.26	11.33	300.28	24.51	356.31	321.22	124.24	53.41	301.11	24.49	140.58	321.36
41697	82.75	2.50	-5.50	39.43	10.91	274.61	18.87	364.12	320.96	133.25	56.15	296.64	18.82	134.32	321.09
41698	82.73	3.10	-5.50	39.27	10.97	278.80	18.62	363.04	319.11	131.99	55.86	300.84	18.55	134.04	319.31
41699	81.52	2.50	-5.50	37.87	10.74	256.74	12.67	369.24	318.53	139.53	58.66	295.41	12.59	125.50	318.70
41700	81.51	3.10	-5.50	37.65	10.74	261.30	12.53	368.13	316.74	138.18	58.26	299.59	12.40	125.43	317.00
41701	80.29	2.50	-5.50	35.96	10.57	244.03	6.42	372.84	315.96	144.42	61.07	293.14	6.28	114.84	316.18
41702	80.28	3.10	-5.50	35.71	10.52	248.87	6.41	371.71	314.23	142.96	60.55	297.35	6.19	114.99	314.57
41703	79.06	2.50	-5.50	34.01	10.35	237.49	1.13	375.02	313.32	148.17	63.32	289.74	0.82	102.65	313.60
41704	79.06	3.10	-5.50	33.74	10.25	242.50	1.42	373.87	311.64	146.62	62.66	294.01	0.91	103.03	312.08
41705	97.48	2.50	-6.90	39.28	54.29	442.50	47.31	158.07	266.98	30.32	23.68	263.29	47.35	73.15	267.21
41706	97.39	3.10	-6.90	40.60	54.34	442.29	47.18	159.68	265.68	32.69	24.16	264.49	47.25	73.67	266.04
41707	96.25	2.50	-6.90	35.82	43.85	494.12	53.75	196.94	288.86	48.49	24.05	273.48	53.68	61.32	289.01
41708	96.17	3.10	-6.90	37.74	44.13	493.53	53.38	197.91	287.29	50.28	24.25	275.72	53.27	62.93	287.52
41709	95.02	2.50	-6.90	28.86	34.97	517.80	57.34	230.48	306.59	65.36	27.06	281.25	57.17	88.38	306.66
41710	94.95	3.10	-6.90	31.66	35.40	517.35	56.86	230.85	304.83	66.68	27.12	284.40	56.60	89.11	304.92
41711	93.79	2.50	-6.90	26.77	28.01	519.28	58.66	259.54	320.00	82.13	31.04	287.68	58.46	121.20	320.01
41712	93.73	3.10	-6.90	29.74	28.51	519.29	58.15	259.40	318.12	82.95	31.08	291.48	57.84	121.05	318.14
41713	92.57	2.50	-6.90	33.50	23.08	506.16	58.46	284.69	329.47	100.22	35.12	293.71	58.27	146.62	329.47
41714	92.50	3.10	-6.90	35.48	23.56	506.78	57.94	284.66	327.52	100.52	35.18	297.94	57.65	145.96	327.51
41715	91.34	2.50	-6.90	43.05	19.96	484.48	57.13	306.05	335.70	118.98	39.15	299.19	56.96	164.25	335.70
41716	91.28	3.10	-6.90	44.08	20.35	485.74	56.61	305.26	333.71	118.81	39.23	303.68	56.36	163.33	333.71
41717	90.11	2.50	-6.90	51.34	18.30	458.02	54.81	323.93	339.37	137.41	43.20	303.70	54.66	175.58	339.38
41718	90.06	3.10	-6.90	51.76	18.57	459.89	54.30	323.01	337.36	136.87	43.28	308.34	54.07	174.57	337.37
41719	88.88	2.50	-6.90	57.22	17.66	429.17	51.52	338.83	341.06	154.92	47.35	307.05	51.37	181.93	341.07
41720	88.84	3.10	-6.90	57.26	17.80	431.58	51.03	337.84	339.02	154.08	47.42	311.76	50.80	180.94	339.05
41721	87.66	2.50	-6.90	60.61	17.59	399.49	47.29	351.18	341.24	171.22	51.66				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
41749	90.11	2.50	-8.30	90.23	28.53	482.51	64.78	355.77	356.21	224.73	45.44	323.54	64.52	218.88	356.23
41750	90.06	3.10	-8.30	89.82	28.32	484.72	64.34	354.78	354.44	223.67	45.58	328.62	63.93	217.76	354.48
41751	88.88	2.50	-8.30	93.90	29.15	451.30	61.36	366.21	356.56	243.23	51.20	325.01	61.10	223.23	356.58
41752	88.84	3.10	-8.30	93.37	28.89	454.07	60.95	365.25	354.72	241.99	51.30	330.14	60.55	222.21	354.75
41753	87.66	2.50	-8.30	94.39	29.57	419.95	56.61	374.70	355.62	260.37	57.36	325.48	56.37	223.55	355.64
41754	87.62	3.10	-8.30	93.84	29.28	423.19	56.22	373.78	353.71	259.00	57.40	330.58	55.85	222.68	353.74
41755	86.43	2.50	-8.30	92.32	29.79	389.50	50.65	381.65	353.79	276.50	63.85	325.14	50.44	220.59	353.82
41756	86.39	3.10	-8.30	91.80	29.49	393.14	50.30	380.76	351.83	275.00	63.83	330.18	49.96	219.89	351.87
41757	85.20	2.50	-8.30	88.30	29.85	360.88	43.66	387.32	351.43	291.90	70.60	324.17	43.51	214.87	351.47
41758	85.17	3.10	-8.30	87.84	29.57	364.87	43.36	386.44	349.43	290.27	70.50	329.12	43.10	214.33	349.49
41759	83.97	2.50	-8.30	82.91	29.84	334.93	35.84	391.91	348.80	306.85	77.51	322.68	35.81	206.78	348.85
41760	83.95	3.10	-8.30	82.51	29.60	339.25	35.61	391.02	346.78	305.04	77.31	327.54	35.52	206.41	346.87
41761	82.75	2.50	-8.30	76.78	29.84	312.54	27.39	395.57	346.10	321.62	84.48	320.74	27.65	196.66	346.19
41762	82.73	3.10	-8.30	76.42	29.64	317.17	27.26	394.66	344.10	319.59	84.14	325.52	27.58	196.47	344.23
41763	81.52	2.50	-8.30	70.61	29.90	294.65	18.56	398.43	343.50	336.55	91.41	318.39	19.52	184.85	343.63
41764	81.51	3.10	-8.30	70.29	29.74	299.54	18.57	397.49	341.52	334.24	90.92	323.12	19.88	184.86	341.72
41765	80.29	2.50	-8.30	65.21	30.06	282.17	9.65	400.56	341.09	352.00	98.23	315.62	12.68	171.69	341.28
41766	80.28	3.10	-8.30	64.90	29.93	287.27	9.91	399.59	339.13	349.36	97.57	320.33	13.95	171.93	339.42
41767	79.06	2.50	-8.30	61.44	30.32	275.87	3.03	402.03	338.95	368.41	104.86	312.38	10.95	157.58	339.21
41768	79.06	3.10	-8.30	61.14	30.20	281.09	3.90	401.03	337.02	365.37	104.01	317.11	13.25	158.06	337.42
41769	101.90	2.50	-2.70	8.42	115.61	12.20	15.14	9.46	24.98	9.92	55.41	13.74	8.95	5.35	25.83
41770	101.82	3.10	-2.70	9.44	115.52	12.20	18.02	9.85	25.00	10.05	54.76	13.69	9.72	6.19	26.27
41771	101.05	2.50	-2.70	24.53	116.13	17.76	31.37	12.23	33.17	43.37	44.13	28.91	28.76	25.26	33.19
41772	100.97	3.10	-2.70	26.06	115.76	17.78	33.07	12.60	33.09	44.29	43.68	28.75	29.20	25.58	33.12
41773	100.20	2.50	-2.70	38.87	115.65	31.69	60.72	16.16	43.48	103.43	25.54	43.33	59.62	60.20	43.55
41774	100.13	3.10	-2.70	41.26	115.24	31.76	61.37	16.61	43.35	104.65	25.40	43.09	59.68	59.93	43.45
41775	99.36	2.50	-2.70	58.18	111.15	61.37	107.69	55.61	64.63	201.51	13.35	78.15	107.16	122.19	65.39
41776	99.28	3.10	-2.70	61.76	111.25	61.53	107.38	55.91	64.60	202.42	16.49	77.74	106.56	121.05	65.73
41777	98.51	2.50	-2.70	123.96	95.84	222.20	189.41	168.58	140.86	361.51	79.27	302.54	189.24	274.86	142.50
41778	98.43	3.10	-2.70	128.25	99.56	222.68	187.61	168.68	141.26	361.46	82.72	300.26	187.35	271.77	143.69
41779	101.90	2.50	-4.10	5.06	114.00	43.43	15.53	12.33	80.82	13.08	53.14	77.58	11.41	30.63	81.59
41780	101.82	3.10	-4.10	5.77	113.84	43.33	18.23	14.26	80.77	12.81	52.94	77.19	12.64	32.04	81.95
41781	101.05	2.50	-4.10	15.20	108.32	64.76	30.34	23.26	95.28	47.97	38.70	108.27	28.37	79.92	95.28
41782	100.97	3.10	-4.10	16.00	107.88	64.87	32.05	24.64	95.11	47.84	38.32	107.65	29.15	80.16	95.12
41783	100.20	2.50	-4.10	28.49	101.74	107.70	50.18	51.89	115.16	85.27	22.97	139.64	49.04	133.32	115.31
41784	100.13	3.10	-4.10	29.54	101.16	107.94	51.24	52.82	114.92	85.17	22.47	138.87	49.51	132.58	115.15
41785	99.36	2.50	-4.10	38.77	92.35	183.22	71.52	101.48	144.30	107.84	7.66	210.51	70.83	187.39	145.02
41786	99.28	3.10	-4.10	40.54	91.85	183.59	71.91	102.20	144.10	108.02	7.68	209.32	70.84	185.63	145.20
41787	98.51	2.50	-4.10	31.76	84.05	276.39	78.16	130.53	175.51	67.33	14.94	288.79	77.96	178.71	176.21
41788	98.43	3.10	-4.10	35.57	83.88	276.83	77.87	131.33	175.19	69.52	15.06	287.09	77.57	176.82	176.25
41789	101.90	2.50	-5.50	4.57	108.02	88.27	13.41	18.70	132.72	7.35	48.44	193.65	9.11	44.76	133.23
41790	101.82	3.10	-5.50	5.31	107.85	88.15	16.10	21.72	132.47	7.11	49.10	192.48	10.46	46.61	133.26
41791	101.05	2.50	-5.50	10.93	100.20	123.09	22.15	37.93	147.90	22.72	38.39	201.76	20.22	99.70	147.88
41792	100.97	3.10	-5.50	11.86	99.85	123.36	23.96	39.85	147.55	22.66	38.87	200.54	21.21	100.03	147.53
41793	100.20	2.50	-5.50	16.88	92.08	183.25	33.16	64.19	166.45	32.21	28.66	217.78	32.18	136.01	166.51
41794	100.13	3.10	-5.50	18.22	91.64	183.66	34.30	65.74	165.97	32.48	29.07	216.61	32.84	135.44	166.06
41795	99.36	2.50	-5.50	24.59	84.13	252.41	42.98	91.93	187.12	28.11	21.06	240.39	42.50	146.96	187.40
41796	99.28	3.10	-5.50	26.35	83.70	252.83	43.54	93.40	186.53	29.39	21.39	239.38	42.80	145.87	186.95
41797	98.51	2.50	-5.50	32.64	75.42	322.40	52.45	118.15	209.39	26.77	16.29	264.50	52.28	136.60	209.78
41798	98.43	3.10	-5.50	34.67	75.07	322.75	52.53	119.62	208.67	29.25	16.41	263.73	52.27	135.38	209.26
41799	101.90	2.50	-6.90	5.71	96.24	142.80	11.27	22.98	177.72	4.72	43.00	320.02	7.22	43.70	178.03
41800	101.82	3.10	-6.90	6.39	96.13	142.77	13.75	27.28	177.17	4.59	44.61	317.95	8.59	46.49	177.66
41801	101.05	2.50	-6.90	15.06	88.47	180.23	16.24	41.63	193.38	11.46	38.63	282.45	14.61	90.84	193.31
41802	100.97	3.10	-6.90	15.79	88.31	180.67	17.98	44.62	192.72	11.61	40.04	280.68	15.77	91.69	192.61
41803	100.20	2.50	-6.90	24.25	80.40	244.03	23.62	64.29	210.38	13.34	34.17	260.78	23.10	113.62	210.34
41804	100.13	3.10	-6.90	25.07	80.21	244.55	24.70	66.82	209.55	14.14	35.41	259.51	23.97	113.63	209.47
41805	99.36	2.50	-6.90	31.73	72.12	313.55	31.84	91.67	228.29	13.18	29.78	253.05	31.78	115.49	228.39
41806	99.28	3.10	-6.90	32.65	71.95	313.96	32.42	93.96	227.32	15.11	30.79	252.48	32.33	115.07	227.48
41807	98.51	2.50	-6.90	37.50	63.98	378.66	39.38	121.71	246.23	17.29	26.27	255.19	39.44	100.97	246.45
41808	98.43	3.10	-6.90	38.53	63.88	378.88	39.59	123.79	245.15	19.96	27.04	255.43	39.70	100.57	245.48
41809	101.90	2.50	-8.30	6.18	80.47	196.98	9.56	25.85	219.51	4.73	41.17	430.09	6.67	39.25	219.59
41810	101.82	3.10	-8.30	6.71	80.56	197.09	11.73	31.61	218.53	4.61	43.53	427.21	8.10	43.47	218.67
41811	101.05	2.50	-8.30	17.83	72.77	235.98	14.04	40.66	236.78	10.51	40.27	346.15	13.39	74.58	236.60
41812	100.97	3.10	-8.30	18.37	72.94	236.60	15.53	45.26	235.65	10.63	42.35	343.97	14.73	76.42	235.38
41813	100.20	2.50	-8.30	27.43	64.41	307.50	21.40	64.81	253.93	10.88	38.81	288.68	21.69	85.83	253.79
41814	100.13	3.10	-8.30	27.96	64.65	308.10	22.31	68.55	252.61	11.77	40.53	287.55	22.77	86.86	252.39
41815	99.36	2.50	-8.30	32.20	56.29	382.72	30.00	98.74	270.47	13.51	36.85	261.31	30.50	78.37	270.45
41816	99.28	3.10	-8.30	32.79	56.60	383.06	30.51	101.79	269.02	15.53	38.16	261.47	31.27	79.27	269.00
41817	98.51	2.50	-8.30	31.98	48.80	448.06	38.66	138.04	285.90	28.54	34.53	257.18	39.07	63.41	286.00
41818	98.43	3.10	-8.30	32.80	49.15	448.05	38.88	140.55	284.38	30.50	35.45	258.54	39.51	64.86	284.53
41819	77.84	2.50	-2.70	32.67	10.13	199.97	4.25	336.00	280.36	57.84	26.63	266.14	9.40	62.29	280.61

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
41847	60.65	2.50	-2.70	95.17	76.61	353.20	36.61	160.79	194.45	398.26	54.45	586.77	41.82	175.30	201.60
41848	60.73	3.10	-2.70	94.93	76.39	354.83	36.09	161.94	195.79	403.26	57.56	581.87	45.97	170.54	205.77
41849	59.42	2.50	-2.70	114.80	89.61	312.62	63.32	164.27	146.17	561.42	50.10	535.99	74.15	342.45	147.86
41850	59.51	3.10	-2.70	115.28	90.68	318.88	60.49	168.13	151.93	567.12	48.15	537.76	68.15	335.84	179.31
41851	77.84	2.50	-4.10	28.06	5.65	218.69	4.92	357.00	295.81	42.56	44.45	275.20	6.22	72.53	296.13
41852	77.84	3.10	-4.10	27.90	5.64	223.52	4.82	355.85	294.23	41.88	43.80	279.23	6.77	73.03	294.72
41853	76.61	2.50	-4.10	28.21	4.70	225.32	9.63	356.07	292.61	35.78	44.53	269.01	10.41	60.94	292.98
41854	76.62	3.10	-4.10	28.00	4.70	230.00	9.42	354.90	291.08	35.12	43.74	273.21	10.65	61.54	291.65
41855	75.38	2.50	-4.10	28.92	4.04	237.93	13.93	353.50	289.30	27.91	44.42	260.95	14.54	50.90	289.73
41856	75.39	3.10	-4.10	28.67	4.14	242.32	13.62	352.32	287.81	27.26	43.48	265.38	14.60	51.35	288.46
41857	74.15	2.50	-4.10	30.38	4.19	255.45	17.70	349.27	285.87	19.75	44.11	251.28	18.24	46.24	286.34
41858	74.17	3.10	-4.10	30.11	4.42	259.46	17.31	348.09	284.41	19.04	42.98	255.99	18.18	46.03	285.12
41859	72.93	2.50	-4.10	32.78	5.57	276.68	20.84	343.33	282.26	12.44	43.56	241.01	21.34	51.20	282.74
41860	72.95	3.10	-4.10	32.49	5.87	280.26	20.38	342.15	280.83	11.60	42.23	246.00	21.20	49.90	281.56
41861	71.70	2.50	-4.10	36.27	8.11	300.42	23.24	335.59	278.41	7.82	42.72	232.70	23.71	65.48	278.86
41862	71.73	3.10	-4.10	35.95	8.39	303.56	22.74	334.42	277.00	6.77	41.16	237.80	23.54	63.23	277.69
41863	70.47	2.50	-4.10	40.97	11.65	325.54	24.79	325.94	274.23	8.02	41.43	231.29	25.27	85.34	274.59
41864	70.51	3.10	-4.10	40.63	11.87	328.23	24.30	324.80	272.83	6.81	39.66	236.00	25.10	82.43	273.39
41865	69.24	2.50	-4.10	47.04	16.17	350.92	25.44	314.21	269.62	13.64	39.35	243.85	25.95	107.11	269.83
41866	69.28	3.10	-4.10	46.65	16.31	353.18	24.99	313.14	268.22	11.87	37.46	247.36	25.85	103.81	268.55
41867	68.02	2.50	-4.10	54.63	21.71	375.39	25.13	300.17	264.48	26.37	35.90	276.39	25.78	127.31	264.51
41868	68.06	3.10	-4.10	54.17	21.79	377.22	24.81	299.21	263.05	23.81	34.11	277.84	25.86	123.83	263.11
41869	66.79	2.50	-4.10	63.91	28.27	397.53	23.92	283.46	258.71	47.31	30.19	329.07	24.97	141.86	258.60
41870	66.84	3.10	-4.10	63.32	28.35	398.96	23.79	282.66	257.22	44.07	28.91	328.02	25.37	138.40	257.05
41871	65.56	2.50	-4.10	74.85	35.76	415.50	22.00	263.63	252.15	74.18	22.00	394.37	23.95	146.37	252.03
41872	65.62	3.10	-4.10	74.14	35.95	416.56	22.11	263.04	250.57	70.49	21.82	390.81	24.95	143.12	250.37
41873	64.33	2.50	-4.10	86.90	44.00	426.71	19.83	240.49	244.44	99.93	19.21	458.32	23.28	138.13	244.56
41874	64.40	3.10	-4.10	86.11	44.40	427.48	20.14	240.10	242.78	95.98	20.09	452.51	25.26	135.33	242.91
41875	63.11	2.50	-4.10	98.44	52.83	427.72	18.15	214.86	234.66	113.14	38.19	503.87	23.13	120.51	235.49
41876	63.17	3.10	-4.10	97.69	53.47	428.33	18.53	214.65	233.09	108.95	38.36	496.46	26.10	118.56	234.14
41877	61.88	2.50	-4.10	106.79	62.62	414.38	17.96	189.93	220.94	104.36	70.08	518.20	24.19	108.02	223.24
41878	61.95	3.10	-4.10	106.24	63.27	415.03	18.10	189.94	219.79	100.25	69.93	510.77	26.40	106.83	222.95
41879	60.65	2.50	-4.10	109.01	74.71	381.52	20.21	171.27	199.24	76.16	107.40	494.72	29.21	131.04	203.02
41880	60.73	3.10	-4.10	108.68	75.11	382.34	19.47	171.53	199.29	73.39	107.24	489.22	26.90	128.76	206.23
41881	59.42	2.50	-4.10	101.73	91.89	326.40	22.90	162.77	165.19	41.56	154.35	401.66	34.83	239.60	167.97
41882	59.51	3.10	-4.10	100.97	91.04	327.71	20.99	163.06	167.00	40.12	154.45	399.23	25.68	234.94	176.47
41883	77.84	2.50	-5.50	32.35	9.99	237.74	6.16	375.83	310.67	151.18	65.35	285.09	6.27	89.34	311.03
41884	77.84	3.10	-5.50	32.06	9.86	242.76	6.07	374.66	309.04	149.51	64.54	289.46	6.19	89.97	309.59
41885	76.61	2.50	-5.50	31.27	9.43	244.80	11.91	375.29	308.04	153.97	67.08	279.07	12.08	75.61	308.47
41886	76.62	3.10	-5.50	30.96	9.29	249.68	11.66	374.10	306.45	152.16	66.12	283.60	11.90	76.42	307.11
41887	75.38	2.50	-5.50	31.06	8.61	258.10	17.24	373.36	305.41	157.27	68.44	271.75	17.47	62.65	305.93
41888	75.39	3.10	-5.50	30.73	8.48	262.70	16.88	372.17	303.86	155.27	67.30	276.50	17.20	63.50	304.64
41889	74.15	2.50	-5.50	31.96	7.45	276.64	22.00	370.00	302.77	162.05	69.30	263.56	22.29	52.63	303.36
41890	74.17	3.10	-5.50	31.58	7.36	280.88	21.54	368.80	301.24	159.78	67.98	268.55	21.96	53.20	302.13
41891	72.93	2.50	-5.50	34.21	5.92	299.26	26.05	365.09	300.05	169.56	69.50	255.71	26.41	48.73	300.68
41892	72.95	3.10	-5.50	33.78	5.94	303.10	25.51	363.88	298.54	166.93	67.99	260.92	26.03	48.52	299.49
41893	71.70	2.50	-5.50	38.12	4.14	324.81	29.24	358.48	297.15	181.36	68.75	250.78	29.69	52.74	297.78
41894	71.73	3.10	-5.50	37.59	4.41	328.23	28.65	357.27	295.66	178.24	67.09	256.01	29.30	51.50	296.61
41895	70.47	2.50	-5.50	44.04	3.24	352.17	31.44	349.93	293.94	199.23	66.65	253.06	31.97	62.47	294.51
41896	70.51	3.10	-5.50	43.39	3.89	355.15	30.84	348.73	292.47	195.49	64.89	257.87	31.62	60.43	293.34
41897	69.24	2.50	-5.50	52.42	5.46	380.21	32.54	339.14	290.27	224.99	62.53	267.94	33.12	73.98	290.71
41898	69.28	3.10	-5.50	51.59	6.04	382.75	31.99	337.98	288.80	220.50	60.79	271.62	32.85	71.51	289.48
41899	68.02	2.50	-5.50	63.63	9.87	407.72	32.47	325.70	285.94	260.03	55.38	299.25	33.01	83.95	286.19
41900	68.06	3.10	-5.50	62.61	10.28	409.79	32.02	324.62	284.46	254.73	53.89	301.09	32.87	81.35	284.85
41901	66.79	2.50	-5.50	77.93	15.65	433.19	31.20	309.11	280.70	304.55	43.76	346.12	31.57	90.12	280.73
41902	66.84	3.10	-5.50	76.69	15.95	434.79	30.92	308.16	279.19	298.50	42.83	345.70	31.57	87.65	279.25
41903	65.56	2.50	-5.50	95.12	22.69	454.63	28.78	288.89	274.21	356.66	25.80	401.85	28.87	91.76	274.10
41904	65.62	3.10	-5.50	93.70	22.92	455.76	28.74	288.15	272.66	350.04	25.83	399.15	28.98	89.64	272.49
41905	64.33	2.50	-5.50	114.37	31.01	469.22	25.31	264.92	265.96	411.77	4.42	455.02	25.20	90.68	265.91
41906	64.40	3.10	-5.50	112.83	31.21	469.95	25.55	264.45	264.38	404.88	4.79	450.36	25.43	89.05	264.29
41907	63.11	2.50	-5.50	133.87	40.78	473.12	20.90	238.02	255.17	463.29	38.87	491.50	21.10	91.55	255.61
41908	63.17	3.10	-5.50	132.32	40.94	473.55	21.40	237.86	253.65	456.56	36.55	485.55	21.50	90.38	254.24
41909	61.88	2.50	-5.50	150.75	52.28	461.16	15.63	210.67	240.62	504.72	87.86	495.59	17.24	101.11	242.16
41910	61.95	3.10	-5.50	149.27	52.35	461.44	16.28	210.78	239.37	498.64	84.58	489.37	17.65	100.02	241.65
41911	60.65	2.50	-5.50	161.03	65.72	427.61	9.51	187.03	220.94	528.70	148.50	445.88	13.14	132.66	223.97
41912	60.73	3.10	-5.50	159.58	65.58	427.96	10.16	187.18	220.30	523.40	145.05	440.69	12.54	130.91	225.19
41913	59.42	2.50	-5.50	162.08	80.00	369.68	6.19	171.10	195.81	520.86	216.69	316.94	6.60	208.41	200.21
41914	59.51	3.10	-5.50	160.48	79.55	370.48	7.24	170.75	196.18	516.23	213.19	315.26	6.46	204.42	204.12
41915	77.84	2.50	-6.90	44.29	19.39	256.94	7.77	391.49	324.58	266.62	87.86	296.18	10.43	112.97	324.95
41916	77.84	3.10	-6.90	43.95	19.28	262.09	7.79	390.36	322.85	264.03	86.92	300.81	11.43	113.67	323.41
41917	76.61	2.50	-6.90	44.03	19.34	264.13	14.77	391.32	322.51	278.33	91.61	290			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
41945	59.42	2.50	-6.90	252.04	70.44	441.11	9.85	175.82	228.88	1009.58	245.68	318.55	10.59	190.39	235.81
41946	59.51	3.10	-6.90	249.17	69.87	441.52	10.65	175.92	228.65	1002.91	240.04	318.15	17.30	187.83	239.44
41947	77.84	2.50	-8.30	60.09	30.66	276.22	9.61	402.85	337.10	386.27	111.23	308.63	16.17	142.97	337.45
41948	77.84	3.10	-8.30	59.78	30.52	281.43	9.76	401.84	335.21	382.79	110.16	313.41	18.49	143.72	335.74
41949	76.61	2.50	-8.30	61.58	31.03	283.22	18.16	403.03	335.57	406.21	117.23	304.34	23.99	128.45	336.02
41950	76.62	3.10	-8.30	61.23	30.87	288.32	18.03	402.01	333.73	402.19	115.94	309.23	26.20	129.46	334.40
41951	75.38	2.50	-8.30	65.77	31.38	296.45	26.37	402.51	334.36	428.92	122.74	299.61	32.26	114.75	334.92
41952	75.39	3.10	-8.30	65.37	31.17	301.33	26.09	401.49	332.56	424.28	121.22	304.65	34.51	116.00	333.39
41953	74.15	2.50	-8.30	72.19	31.61	315.15	33.97	401.22	333.43	455.27	127.56	294.78	40.29	102.72	334.09
41954	74.17	3.10	-8.30	71.68	31.35	319.75	33.56	400.20	331.68	449.93	125.82	300.01	42.70	104.18	332.67
41955	72.93	2.50	-8.30	80.23	31.63	338.40	40.71	399.01	332.71	486.29	131.41	290.63	47.72	93.37	333.47
41956	72.95	3.10	-8.30	79.57	31.32	342.68	40.23	398.00	331.02	480.14	129.48	296.03	50.40	94.94	332.15
41957	71.70	2.50	-8.30	89.46	31.34	365.26	46.39	395.71	332.11	523.16	133.86	288.62	54.23	87.72	332.93
41958	71.73	3.10	-8.30	88.60	30.99	369.19	45.87	394.70	330.49	516.11	131.81	294.10	57.30	89.31	331.72
41959	70.47	2.50	-8.30	99.68	30.64	394.81	50.76	391.06	331.47	567.27	134.30	291.05	59.55	86.80	332.29
41960	70.51	3.10	-8.30	98.56	30.27	398.36	50.24	390.04	329.94	559.24	132.23	296.39	63.09	88.33	331.17
41961	69.24	2.50	-8.30	110.96	29.46	426.15	53.62	384.74	330.58	620.14	131.82	300.95	63.33	91.75	331.33
41962	69.28	3.10	-8.30	109.53	29.09	429.29	53.14	383.69	329.14	611.07	129.92	305.74	67.42	93.13	330.27
41963	68.02	2.50	-8.30	123.63	27.87	458.36	54.75	376.29	329.15	683.46	125.19	321.26	65.21	103.92	329.74
41964	68.06	3.10	-8.30	121.86	27.51	461.01	54.36	375.23	327.81	673.37	123.74	324.95	69.87	105.06	328.71
41965	66.79	2.50	-8.30	138.29	26.09	490.37	53.98	365.12	326.83	759.04	112.76	353.53	64.78	124.43	327.21
41966	66.84	3.10	-8.30	136.17	25.75	492.44	53.74	364.07	325.58	748.03	112.14	355.54	69.97	125.20	326.15
41967	65.56	2.50	-8.30	155.82	24.81	520.80	51.15	350.35	323.26	848.77	92.46	396.54	61.57	153.11	323.39
41968	65.62	3.10	-8.30	153.39	24.46	522.20	51.14	349.39	322.05	837.12	93.13	396.47	67.15	153.43	322.24
41969	64.33	2.50	-8.30	177.49	25.28	547.64	46.06	330.75	318.02	954.46	62.39	445.41	55.04	187.42	317.98
41970	64.40	3.10	-8.30	174.78	24.86	548.30	46.39	329.98	316.81	942.67	64.72	443.11	60.75	187.27	316.74
41971	63.11	2.50	-8.30	204.82	29.15	567.78	38.35	304.58	310.67	1077.01	30.36	490.21	44.75	221.84	310.74
41972	63.17	3.10	-8.30	201.90	28.55	567.72	39.20	304.16	309.43	1065.75	31.77	485.95	50.22	221.31	309.51
41973	61.88	2.50	-8.30	239.45	37.46	576.58	27.55	269.94	300.65	1214.51	66.90	513.74	30.74	247.55	301.49
41974	61.95	3.10	-8.30	236.35	36.65	575.95	29.17	270.01	299.38	1204.48	60.01	508.37	35.72	246.82	300.63
41975	60.65	2.50	-8.30	282.82	50.34	567.45	13.56	226.19	287.05	1360.24	151.19	490.10	14.10	252.81	290.16
41976	60.73	3.10	-8.30	279.47	49.37	566.64	16.39	226.89	285.90	1351.61	142.38	485.37	19.45	251.99	290.53
41977	59.42	2.50	-8.30	336.33	67.12	531.70	10.45	178.90	268.17	1502.74	254.85	392.93	10.26	227.88	276.53
41978	59.51	3.10	-8.30	332.49	66.15	531.36	11.05	180.11	267.43	1494.46	247.20	391.70	15.35	226.82	280.27
41979	58.39	2.50	-2.70	153.40	96.99	280.77	74.60	183.77	70.85	773.98	92.89	347.79	100.27	590.64	72.92
41980	58.47	3.10	-2.70	152.43	102.36	296.94	71.38	188.62	77.84	768.55	97.86	361.30	70.00	570.74	96.04
41981	57.54	2.50	-2.70	179.83	95.50	273.06	53.18	191.56	40.96	819.33	230.46	247.66	98.87	657.56	46.16
41982	57.62	3.10	-2.70	178.59	100.60	294.93	54.23	194.19	36.50	790.33	227.38	273.96	70.98	631.48	55.21
41983	56.70	2.50	-2.70	210.92	94.92	267.07	53.58	210.09	59.22	817.73	389.52	501.20	84.81	757.73	82.88
41984	56.77	3.10	-2.70	212.32	95.76	290.23	55.46	213.06	48.20	784.30	375.77	502.27	81.69	736.85	114.54
41985	55.85	2.50	-2.70	261.19	98.04	263.03	69.94	243.73	71.73	849.21	580.66	894.99	69.60	885.46	153.04
41986	55.93	3.10	-2.70	264.59	99.49	287.30	67.43	248.51	60.43	827.52	589.43	883.44	82.59	962.17	233.98
41987	55.01	2.50	-2.70	361.74	127.52	278.66	59.79	312.99	72.64	926.19	539.53	1377.70	67.90	1605.92	386.00
41988	55.08	3.10	-2.70	368.89	156.20	308.04	78.07	327.80	60.85	902.54	531.86	1341.62	89.35	1596.42	438.05
41989	58.39	2.50	-4.10	88.60	110.62	270.03	21.82	158.80	129.52	49.54	212.37	245.83	23.93	399.82	129.95
41990	58.47	3.10	-4.10	87.40	107.82	272.38	20.23	158.47	132.64	47.30	209.69	247.72	19.46	390.91	142.64
41991	57.54	2.50	-4.10	81.60	122.77	228.92	19.62	157.35	99.77	106.85	270.29	197.45	18.15	541.75	99.49
41992	57.62	3.10	-4.10	80.65	117.88	232.88	22.85	156.63	103.20	99.84	262.76	202.70	18.73	526.29	120.55
41993	56.70	2.50	-4.10	85.09	127.95	199.51	20.95	163.89	75.11	134.38	325.23	427.35	25.35	690.57	74.58
41994	56.77	3.10	-4.10	84.23	120.53	205.19	28.07	163.53	78.08	117.77	315.38	423.36	31.23	668.82	130.47
41995	55.85	2.50	-4.10	104.88	139.47	179.59	44.72	188.59	61.24	161.44	362.51	742.34	59.00	948.81	94.36
41996	55.93	3.10	-4.10	101.01	124.80	187.10	49.92	190.44	60.45	129.60	353.96	736.37	49.04	917.40	230.71
41997	55.01	2.50	-4.10	175.63	120.40	161.59	77.94	251.79	75.11	254.63	261.34	1053.94	88.59	1596.85	422.31
41998	55.08	3.10	-4.10	162.24	122.81	173.65	90.05	260.32	60.01	177.13	269.89	1063.76	84.88	1582.13	506.09
41999	58.39	2.50	-5.50	157.25	90.50	305.81	9.63	166.22	171.29	482.90	270.35	193.47	8.64	314.43	176.43
42000	58.47	3.10	-5.50	155.35	89.77	307.16	12.94	165.03	172.65	479.59	266.23	196.46	25.99	306.75	183.83
42001	57.54	2.50	-5.50	153.39	96.32	247.77	9.60	167.87	149.28	437.70	302.26	274.41	10.45	433.78	154.90
42002	57.62	3.10	-5.50	151.43	95.07	249.65	17.72	166.00	151.32	437.92	296.72	274.12	49.59	422.18	170.06
42003	56.70	2.50	-5.50	157.87	100.45	192.80	7.53	173.43	126.33	404.68	323.12	502.67	5.25	596.05	131.01
42004	56.77	3.10	-5.50	157.10	97.01	195.81	22.80	171.39	129.09	414.83	310.93	496.86	72.00	577.27	170.35
42005	55.85	2.50	-5.50	185.70	109.25	147.70	34.80	189.09	104.03	417.11	354.51	756.52	42.62	859.22	105.55
42006	55.93	3.10	-5.50	188.13	101.30	151.87	40.43	188.45	107.97	451.15	333.24	750.32	86.31	825.57	234.17
42007	55.01	2.50	-5.50	264.74	107.41	113.43	65.70	250.45	92.42	501.61	361.89	1005.83	97.23	1522.22	359.18
42008	55.08	3.10	-5.50	271.92	118.32	115.35	76.88	257.06	88.39	596.83	380.83	1018.27	135.25	1497.26	473.25
42009	58.39	2.50	-6.90	272.04	82.41	376.61	19.77	170.72	205.20	1009.10	308.71	238.46	22.64	232.16	216.31
42010	58.47	3.10	-6.90	268.75	81.66	377.68	21.06	169.99	205.72	1002.48	304.35	241.18	42.91	227.65	224.31
42011	57.54	2.50	-6.90	287.37	89.29	306.05	24.35	181.68	180.73	979.41	337.45	381.54	27.07	292.95	194.92
42012	57.62	3.10	-6.90	284.19	87.84	307.57	28.79	180.08	181.96	974.90	331.94	379.48	76.66	285.61	210.80
42013	56.70	2.50	-6.90	306.34	93.24	223.84	21.38	199.53	151.30	952.18	337.69	650.95	22.92	415.87	164.11
42014	56.77	3.10	-6.90	304.94	89.30	225.95	33.23	197.07	153						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
42043	96.02	3.96	-2.70	68.83	65.34	412.31	92.98	127.66	259.93	182.23	73.34	346.45	92.74	90.27	259.47
42044	97.23	3.96	-2.70	98.12	82.22	384.13	136.17	135.44	227.07	246.58	90.58	424.59	135.85	144.06	227.03
42045	79.05	5.05	-2.70	31.24	11.86	225.05	3.61	329.27	274.94	46.46	25.97	289.42	15.33	72.00	275.72
42046	80.24	5.05	-2.70	30.42	13.14	230.31	5.42	327.05	277.95	38.54	27.43	290.79	14.56	78.31	278.60
42047	81.44	5.06	-2.70	29.99	14.81	240.31	8.98	322.98	280.67	33.92	28.89	290.69	15.33	83.00	281.19
42048	82.63	5.06	-2.70	29.90	16.80	254.24	13.03	316.98	283.04	32.32	30.36	289.23	17.44	85.95	283.43
42049	83.83	5.06	-2.70	30.11	19.08	271.15	17.26	308.98	284.97	33.27	31.86	286.47	20.44	87.09	285.24
42050	85.03	5.06	-2.70	30.68	21.64	290.02	21.58	298.91	286.39	36.40	33.45	282.43	23.98	86.39	286.53
42051	86.22	5.06	-2.70	31.67	24.51	309.92	25.95	286.68	287.19	41.59	35.17	277.16	27.83	83.86	287.20
42052	87.42	5.07	-2.70	33.21	27.71	329.92	30.39	272.25	287.25	48.85	37.10	270.78	31.89	79.64	287.12
42053	88.61	5.07	-2.70	35.40	31.29	349.18	34.99	255.60	286.45	58.25	39.32	263.64	36.17	74.08	286.17
42054	89.81	5.07	-2.70	38.34	35.30	366.86	39.90	236.81	284.69	69.88	41.95	256.57	40.79	67.90	284.24
42055	91.00	5.07	-2.70	42.13	39.83	382.18	45.39	216.13	281.83	83.89	45.15	251.22	46.01	62.54	281.22
42056	92.20	5.07	-2.70	46.94	45.01	394.44	51.94	194.07	277.77	100.64	49.21	250.63	52.26	60.44	277.01
42057	93.39	5.08	-2.70	53.22	51.10	403.21	60.32	171.58	272.40	121.06	54.63	259.87	60.36	64.48	271.53
42058	94.59	5.08	-2.70	62.19	58.70	408.27	72.10	150.36	265.52	147.30	62.31	286.05	71.87	76.18	264.63
42059	95.78	5.08	-2.70	76.83	69.32	414.01	91.20	133.27	256.22	184.32	75.01	344.91	90.76	94.48	255.49
42060	96.98	5.08	-2.70	107.72	89.52	386.07	132.62	139.48	224.90	248.60	94.35	417.02	132.05	143.73	224.84
42061	79.04	6.15	-2.70	32.08	12.61	239.59	4.69	325.28	269.30	47.73	25.07	301.43	18.36	72.53	270.35
42062	80.21	6.15	-2.70	31.79	13.96	244.27	5.89	323.18	272.11	40.84	26.68	302.56	17.13	78.29	273.00
42063	81.39	6.16	-2.70	31.94	15.75	253.28	8.86	319.25	274.63	37.12	28.29	302.29	17.22	82.53	275.35
42064	82.56	6.16	-2.70	32.45	17.88	265.96	12.50	313.45	276.80	36.21	29.91	300.70	18.59	85.18	277.35
42065	83.74	6.16	-2.70	33.32	20.31	281.46	16.44	305.73	278.56	37.65	31.56	297.84	20.94	86.17	278.92
42066	84.91	6.16	-2.70	34.56	23.02	298.88	20.53	296.00	279.81	41.08	33.29	293.72	23.97	85.51	279.99
42067	86.09	6.16	-2.70	36.23	26.02	317.32	24.74	284.21	280.48	46.40	35.15	288.35	27.43	83.26	280.47
42068	87.26	6.17	-2.70	38.40	29.35	335.94	29.07	270.35	280.47	53.61	37.20	281.86	31.20	79.63	280.25
42069	88.44	6.17	-2.70	41.15	33.04	353.90	33.61	254.42	279.67	62.82	39.54	274.56	35.27	75.02	279.24
42070	89.61	6.17	-2.70	44.56	37.17	370.42	38.49	236.55	277.99	74.12	42.28	267.19	39.73	70.23	277.32
42071	90.79	6.17	-2.70	48.71	41.83	384.77	44.00	217.00	275.33	87.72	45.63	261.27	44.81	66.61	274.43
42072	91.96	6.17	-2.70	53.84	47.23	396.34	50.57	196.28	271.59	104.04	49.89	259.57	50.96	66.19	270.47
42073	93.14	6.18	-2.70	60.48	53.71	404.78	58.94	175.29	266.67	124.04	55.62	266.76	58.91	71.05	265.40
42074	94.31	6.18	-2.70	69.97	62.06	410.01	70.54	155.57	260.38	149.95	63.83	289.68	70.12	82.20	259.09
42075	95.49	6.18	-2.70	85.52	74.27	416.16	88.99	139.59	251.72	186.78	77.39	343.37	88.27	99.01	250.69
42076	96.66	6.18	-2.70	118.15	97.95	388.47	128.23	144.10	222.39	250.85	99.18	408.15	127.31	143.16	222.31
42077	79.03	7.25	-2.70	33.50	13.60	255.96	6.00	320.48	262.57	49.51	24.22	315.32	21.10	72.92	263.88
42078	80.18	7.25	-2.70	33.79	15.01	260.01	6.66	318.51	265.18	43.79	25.95	316.14	19.48	78.06	266.29
42079	81.33	7.25	-2.70	34.51	16.91	267.96	8.94	314.78	267.49	41.00	27.69	315.63	19.02	81.83	268.40
42080	82.48	7.25	-2.70	35.61	19.18	279.27	12.08	309.25	269.47	40.76	29.45	313.85	19.74	84.16	270.15
42081	83.63	7.25	-2.70	37.07	21.76	293.21	15.65	301.85	271.03	42.63	31.26	310.82	21.46	85.04	271.48
42082	84.78	7.26	-2.70	38.90	24.63	308.99	19.47	292.55	272.13	46.33	33.15	306.54	23.95	84.48	272.33
42083	85.93	7.26	-2.70	41.14	27.79	325.81	23.47	281.31	272.68	51.75	35.16	301.03	26.97	82.61	272.63
42084	87.08	7.26	-2.70	43.85	31.26	342.85	27.66	268.13	272.62	58.91	37.37	294.37	30.41	79.68	272.28
42085	88.23	7.26	-2.70	47.07	35.10	359.35	32.11	253.06	271.85	67.91	39.86	286.86	34.22	76.15	271.21
42086	89.38	7.26	-2.70	50.88	39.39	374.57	36.96	236.25	270.29	78.88	42.78	279.17	38.47	72.81	269.34
42087	90.53	7.26	-2.70	55.39	44.26	387.86	42.45	217.97	267.87	92.05	46.34	272.66	43.39	70.89	266.61
42088	91.68	7.26	-2.70	60.85	49.93	398.68	49.02	198.72	264.50	107.89	50.88	269.80	49.37	71.98	262.97
42089	92.83	7.26	-2.70	67.90	56.86	406.79	57.36	179.35	260.10	127.46	57.02	274.86	57.15	77.54	258.39
42090	93.98	7.26	-2.70	78.01	66.10	412.25	68.78	161.19	254.47	153.00	65.92	294.28	68.04	88.23	252.76
42091	95.13	7.26	-2.70	94.58	80.10	418.85	86.41	146.35	246.50	189.58	80.57	342.15	85.28	103.57	245.15
42092	96.28	7.26	-2.70	128.82	107.26	391.31	123.09	149.02	219.66	253.11	105.05	398.45	121.66	142.21	219.57
42093	79.06	3.95	-4.10	28.03	6.73	231.78	0.90	353.05	294.40	45.79	42.74	290.41	6.01	84.60	295.03
42094	80.27	3.95	-4.10	28.58	8.00	237.76	5.20	350.76	297.20	49.01	42.65	293.03	7.83	94.01	297.70
42095	81.48	3.95	-4.10	29.10	9.39	249.26	10.22	346.76	299.78	50.17	42.44	294.31	11.79	101.79	300.18
42096	82.69	3.95	-4.10	29.45	10.95	265.35	15.29	340.98	302.09	49.22	42.15	294.38	16.42	107.69	302.40
42097	83.90	3.95	-4.10	29.49	12.73	284.94	20.29	333.30	304.02	46.20	41.83	293.26	21.21	111.54	304.24
42098	85.12	3.95	-4.10	29.17	14.77	306.94	25.15	323.57	305.45	41.27	41.54	290.96	25.95	113.17	305.59
42099	86.33	3.96	-4.10	28.54	17.16	330.30	29.82	311.64	306.21	34.91	41.33	287.44	30.56	112.45	306.27
42100	87.54	3.96	-4.10	27.77	19.96	354.02	34.30	297.34	306.11	28.21	41.25	282.72	34.98	109.26	306.10
42101	88.75	3.96	-4.10	27.23	23.24	377.15	38.61	280.51	304.95	24.01	41.36	276.93	39.23	103.55	304.86
42102	89.96	3.96	-4.10	27.49	27.07	398.64	42.87	261.02	302.44	26.72	41.68	270.53	43.41	95.35	302.26
42103	91.18	3.96	-4.10	29.14	31.54	417.40	47.28	238.89	298.26	36.82	42.23	264.64	47.72	84.90	297.98
42104	92.39	3.96	-4.10	32.50	36.77	432.15	52.19	214.38	291.97	51.02	43.01	261.59	52.50	72.97	291.60
42105	93.60	3.96	-4.10	37.41	42.95	441.33	58.17	188.33	282.85	66.54	43.88	265.62	58.32	61.45	282.40
42106	94.81	3.96	-4.10	43.39	50.41	442.98	66.06	162.86	269.43	80.43	44.53	283.45	66.09	54.92	268.99
42107	96.02	3.96	-4.10	49.90	60.11	429.28	76.92	144.54	247.46	86.84	43.05	317.59	76.97	65.87	247.23
42108	97.23	3.96	-4.10	52.49	72.92	370.68	85.47	141.78	210.97	81.42	32.69	328.43	85.70	119.51	211.53
42109	79.05	5.05	-4.10	27.99	6.80	244.89	1.18	349.62	289.81	43.93	41.27	301.41	7.79	85.32	290.77
42110	80.24	5.05	-4.10	28.78	8.26	250.39	5.00	347.40	292.43	47.13	41.46	303.85	9.07	94.15	293.22
42111	81.44	5.06	-4.10	29.62	9.88	261.07	9.72	343.49	294.84	48.39	41.49	305.03	12.32	101.39	295.46
42112	82.63	5.06	-4.10	30.35	11.67	276.11	14.53	337.82	296.95	47.68	41.43	305.03	16.44	106.84	297.42
42113	83.83	5.06	-4.10	30.90	13.66	294.53	19.30	330.28	298.68	45.12	41.31	303.88	20.86	110.34	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
42141	79.03	7.25	-4.10	29.06	7.19	277.77	2.01	339.99	277.69	39.93	37.60	329.97	11.27	86.58	279.35
42142	80.18	7.25	-4.10	30.51	9.08	282.15	4.52	337.98	279.91	43.06	38.39	331.84	11.75	93.86	281.28
42143	81.33	7.25	-4.10	32.10	11.23	290.87	8.40	334.35	281.87	44.62	39.00	332.59	13.70	99.78	282.98
42144	82.48	7.25	-4.10	33.74	13.56	303.35	12.51	329.03	283.52	44.68	39.47	332.27	16.64	104.16	284.37
42145	83.63	7.25	-4.10	35.40	16.06	318.84	16.68	321.93	284.77	43.47	39.84	330.85	20.11	106.87	285.38
42146	84.78	7.26	-4.10	37.09	18.77	336.51	20.84	312.94	285.53	41.48	40.14	328.28	23.84	107.81	285.91
42147	85.93	7.26	-4.10	38.92	21.70	355.47	24.95	301.96	285.70	39.53	40.39	324.47	27.65	106.92	285.84
42148	87.08	7.26	-4.10	41.02	24.92	374.83	28.99	288.90	285.14	38.93	40.64	319.37	31.45	104.20	285.03
42149	88.23	7.26	-4.10	43.56	28.49	393.68	33.01	273.71	283.68	41.15	40.91	313.05	35.23	99.76	283.30
42150	89.38	7.26	-4.10	46.72	32.49	411.10	37.07	256.42	281.12	47.08	41.23	305.82	39.01	93.85	280.47
42151	90.53	7.26	-4.10	50.65	37.05	426.13	41.36	237.15	277.21	56.57	41.64	298.48	42.93	86.94	276.26
42152	91.68	7.26	-4.10	55.49	42.32	437.74	46.17	216.26	271.57	68.78	42.13	292.75	47.27	79.85	270.36
42153	92.83	7.26	-4.10	61.39	48.62	444.63	51.93	194.50	263.55	82.57	42.62	291.70	52.49	73.84	262.18
42154	93.98	7.26	-4.10	68.54	56.43	444.88	59.21	173.46	251.82	96.14	42.86	300.10	59.29	70.87	250.55
42155	95.13	7.26	-4.10	76.90	66.49	430.08	68.52	157.65	233.02	105.69	41.40	318.26	68.53	76.99	232.48
42156	96.28	7.26	-4.10	80.78	77.41	373.33	76.38	152.18	203.30	105.19	33.65	314.89	76.64	112.60	204.95
42157	79.06	3.95	-5.50	33.26	10.05	251.17	1.83	371.70	308.73	143.77	61.48	301.47	0.93	103.67	309.42
42158	80.27	3.95	-5.50	35.28	10.41	257.27	6.38	369.58	311.21	140.30	59.61	304.71	6.02	115.19	311.75
42159	81.48	3.95	-5.50	37.29	10.74	269.20	12.26	366.04	313.62	135.68	57.55	306.92	12.06	125.22	314.03
42160	82.69	3.95	-5.50	39.00	11.12	286.09	18.16	361.00	315.87	129.68	55.34	308.17	18.06	133.47	316.18
42161	83.90	3.95	-5.50	40.13	11.64	306.87	23.89	354.31	317.85	122.14	53.06	308.48	23.86	139.71	318.08
42162	85.12	3.95	-5.50	40.45	12.41	330.47	29.33	345.83	319.42	112.97	50.76	307.80	29.37	143.69	319.58
42163	86.33	3.96	-5.50	39.78	13.57	355.86	34.38	335.35	320.39	102.19	48.48	306.06	34.47	145.18	320.49
42164	87.54	3.96	-5.50	38.03	15.26	382.04	38.96	322.65	320.53	89.89	46.27	303.15	39.10	143.94	320.57
42165	88.75	3.96	-5.50	35.28	17.62	407.97	43.05	307.50	319.53	76.36	44.14	299.03	43.20	139.71	319.52
42166	89.96	3.96	-5.50	31.97	20.75	432.51	46.67	289.67	317.05	62.16	42.08	293.81	46.80	132.19	316.98
42167	91.18	3.96	-5.50	29.26	24.80	454.26	49.89	269.01	312.64	48.51	40.01	287.96	49.97	121.02	312.51
42168	92.39	3.96	-5.50	29.23	29.89	471.36	52.86	245.60	305.72	37.82	37.74	282.66	52.84	105.83	305.53
42169	93.60	3.96	-5.50	33.64	36.21	481.01	55.72	220.05	295.47	33.24	34.95	280.23	55.59	86.55	295.26
42170	94.81	3.96	-5.50	41.66	44.08	478.18	58.41	194.29	280.60	34.34	30.95	283.28	58.24	65.85	280.49
42171	96.02	3.96	-5.50	48.71	53.76	452.84	59.80	171.05	259.77	35.60	24.81	288.48	59.76	63.62	259.97
42172	97.23	3.96	-5.50	46.65	64.60	395.10	57.42	147.88	233.40	33.25	18.03	282.08	57.42	100.19	234.09
42173	79.05	5.05	-5.50	32.58	9.68	264.79	2.34	368.16	304.19	139.30	59.63	313.35	0.79	104.53	305.25
42174	80.24	5.05	-5.50	34.69	10.22	270.48	6.34	366.09	306.50	136.08	58.14	316.44	5.76	115.36	307.34
42175	81.44	5.06	-5.50	36.82	10.77	281.68	11.83	362.63	308.72	131.74	56.42	318.57	11.53	124.76	309.37
42176	82.63	5.06	-5.50	38.69	11.40	297.61	17.40	357.66	310.77	126.03	54.53	319.81	17.28	132.46	311.26
42177	83.83	5.06	-5.50	40.06	12.21	317.31	22.86	351.07	312.53	118.84	52.53	320.13	22.86	138.23	312.89
42178	85.03	5.06	-5.50	40.74	13.28	339.77	28.07	342.70	313.89	110.09	50.46	319.49	28.19	141.83	314.14
42179	86.22	5.06	-5.50	40.62	14.72	363.98	32.95	332.34	314.66	99.86	48.35	317.77	33.15	143.04	314.82
42180	87.42	5.07	-5.50	39.69	16.65	388.93	37.41	319.82	314.62	88.31	46.25	314.85	37.67	141.65	314.69
42181	88.61	5.07	-5.50	38.14	19.18	413.57	41.42	304.94	313.51	75.83	44.17	310.64	41.71	137.43	313.48
42182	89.81	5.07	-5.50	36.47	22.41	436.77	44.99	287.53	310.97	63.16	42.07	305.20	45.25	130.15	310.84
42183	91.00	5.07	-5.50	35.64	26.47	457.15	48.20	267.50	306.58	51.69	39.88	298.95	48.37	119.55	306.36
42184	92.20	5.07	-5.50	36.98	31.50	472.91	51.17	245.01	299.80	43.75	37.42	292.94	51.17	105.38	299.50
42185	93.39	5.08	-5.50	41.50	37.67	481.36	54.03	220.69	289.84	41.39	34.34	289.16	53.85	87.70	289.52
42186	94.59	5.08	-5.50	48.60	45.26	477.58	56.70	196.31	275.52	43.27	30.04	289.77	56.45	69.17	275.35
42187	95.78	5.08	-5.50	54.54	54.42	451.91	58.19	174.17	255.63	44.49	23.82	291.41	58.13	66.82	255.96
42188	96.98	5.08	-5.50	51.92	64.39	395.14	56.45	151.62	230.59	41.36	17.60	281.83	56.43	98.95	231.67
42189	79.04	6.15	-5.50	31.93	9.20	280.84	2.78	363.60	298.85	133.84	57.43	327.58	0.51	105.33	300.30
42190	80.21	6.15	-5.50	34.16	9.99	286.06	6.26	361.62	300.97	130.93	56.37	330.46	5.47	115.32	302.13
42191	81.39	6.16	-5.50	36.44	10.86	296.41	11.27	358.25	302.97	126.92	55.05	332.46	10.92	123.97	303.88
42192	82.56	6.16	-5.50	38.53	11.85	311.22	16.45	353.40	304.76	121.58	53.54	333.62	16.35	131.03	305.46
42193	83.74	6.16	-5.50	40.20	13.02	329.64	21.57	346.94	306.26	114.82	51.87	333.90	21.66	136.26	306.78
42194	84.91	6.16	-5.50	41.31	14.46	350.73	26.50	338.72	307.35	106.62	50.08	333.23	26.75	139.44	307.70
42195	86.09	6.16	-5.50	41.82	16.23	373.52	31.14	328.57	307.86	97.08	48.19	331.46	31.53	140.36	308.07
42196	87.26	6.17	-5.50	41.78	18.43	397.00	35.43	316.30	307.59	86.46	46.24	328.45	35.91	138.82	307.68
42197	88.44	6.17	-5.50	41.46	21.14	420.12	39.34	301.77	306.30	75.26	44.21	324.08	39.84	134.64	306.25
42198	89.61	6.17	-5.50	41.30	24.48	441.75	42.86	284.87	303.67	64.36	42.07	318.37	43.31	127.67	303.48
42199	90.79	6.17	-5.50	42.02	28.55	460.53	46.05	265.61	299.32	55.23	39.75	311.64	46.36	117.74	298.99
42200	91.96	6.17	-5.50	44.49	33.50	474.72	49.02	244.19	292.71	49.85	37.06	304.80	49.10	104.70	292.28
42201	93.14	6.18	-5.50	49.24	39.49	481.75	51.89	221.27	283.14	49.32	33.68	299.51	51.69	88.77	282.69
42202	94.31	6.18	-5.50	55.76	46.75	476.84	54.58	198.44	269.52	51.88	29.07	297.38	54.26	72.47	269.31
42203	95.49	6.18	-5.50	60.78	55.29	450.75	56.22	177.55	250.82	53.14	22.82	294.99	56.13	70.05	251.31
42204	96.66	6.18	-5.50	57.67	64.21	395.19	55.25	155.73	227.39	49.42	17.22	281.83	55.21	97.44	228.90
42205	79.03	7.25	-5.50	31.50	8.67	299.09	3.05	357.99	292.78	127.47	54.92	344.04	0.45	105.91	294.61
42206	80.18	7.25	-5.50	33.89	9.79	303.78	6.07	356.11	294.70	124.92	54.33	346.64	5.21	114.95	296.18
42207	81.33	7.25	-5.50	36.36	11.04	313.17	10.57	352.86	296.45	121.29	53.46	348.42	10.27	122.76	297.62
42208	82.48	7.25	-5.50	38.68	12.46	326.72	15.30	348.17	297.97	116.40	52.36	349.40	15.33	129.11	298.88
42209	83.63	7.25	-5.50	40.70	14.07	343.66	20.02	341.90	299.18	110.18	51.06	349.54	20.31	133.76	299.85
42210	84.78	7.26	-5.50	42.30	15.91	363.15	24.61	333.90	299.95	102.64	49.58	348.72	25.11	136.50	300.42
42211	85.93	7.26	-5.50	43.47	18.05	384.27	28.98	324.01	300.16	93.95	47.95				



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
42239	81.44	5.06	-6.90	50.51	18.43	301.74	14.96	379.33	321.74	224.36	72.37	331.49	14.66	152.59	322.34
42240	82.63	5.06	-6.90	54.04	18.27	318.19	21.51	375.40	323.89	214.49	68.49	333.63	20.76	162.09	324.33
42241	83.83	5.06	-6.90	57.11	18.11	338.74	27.92	370.21	325.93	203.76	64.46	335.16	27.10	169.79	326.25
42242	85.03	5.06	-6.90	59.30	18.00	362.42	33.98	363.59	327.74	192.01	60.34	336.00	33.20	175.37	327.97
42243	86.22	5.06	-6.90	60.27	18.01	388.27	39.53	355.33	329.11	179.14	56.17	336.03	38.82	178.52	329.27
42244	87.42	5.07	-6.90	59.73	18.25	415.26	44.41	345.21	329.81	165.14	52.01	335.02	43.77	178.89	329.92
42245	88.61	5.07	-6.90	57.53	18.91	442.33	48.51	333.00	329.50	150.10	47.88	332.77	47.91	176.10	329.57
42246	89.81	5.07	-6.90	53.68	20.24	468.21	51.75	318.46	327.80	134.23	43.78	329.05	51.15	169.62	327.82
42247	91.00	5.07	-6.90	48.57	22.51	491.32	54.07	301.34	324.22	117.93	39.68	323.74	53.43	158.77	324.22
42248	92.20	5.07	-6.90	43.45	26.01	509.44	55.44	281.39	318.23	101.78	35.53	316.86	54.72	142.55	318.22
42249	93.39	5.08	-6.90	40.73	30.95	519.11	55.76	258.42	309.22	86.56	31.35	308.54	54.99	119.96	309.27
42250	94.59	5.08	-6.90	42.29	37.44	514.99	54.71	232.23	296.61	72.46	27.52	298.58	54.06	91.95	296.86
42251	95.78	5.08	-6.90	45.71	45.34	490.58	51.77	202.04	280.13	57.99	25.21	286.00	51.51	69.45	280.72
42252	96.98	5.08	-6.90	46.43	54.47	441.18	46.70	166.80	259.93	42.30	26.05	270.25	46.91	76.01	260.80
42253	79.04	6.15	-6.90	42.88	18.07	300.77	6.17	379.23	312.37	234.43	76.86	340.30	10.94	130.19	313.82
42254	80.21	6.15	-6.90	45.83	18.14	306.16	9.29	377.56	314.28	226.18	74.02	343.47	10.28	141.45	315.40
42255	81.39	6.16	-6.90	49.34	18.16	316.90	14.79	374.86	316.22	217.58	70.88	346.12	13.96	151.65	317.06
42256	82.56	6.16	-6.90	52.89	18.16	332.38	20.78	371.05	318.12	208.33	67.50	348.25	19.49	160.46	318.75
42257	83.74	6.16	-6.90	56.01	18.20	351.80	26.75	365.97	319.90	198.19	63.92	349.83	25.44	167.56	320.36
42258	84.91	6.16	-6.90	58.31	18.31	374.27	32.46	359.46	321.42	187.02	60.18	350.74	31.27	172.63	321.75
42259	86.09	6.16	-6.90	59.49	18.60	398.82	37.74	351.31	322.52	174.73	56.32	350.82	36.69	175.35	322.75
42260	87.26	6.17	-6.90	59.36	19.18	424.43	42.45	341.30	322.97	161.38	52.38	349.82	41.52	175.38	323.13
42261	88.44	6.17	-6.90	57.85	20.21	449.97	46.46	329.23	322.47	147.12	48.38	347.47	45.61	172.35	322.56
42262	89.61	6.17	-6.90	55.11	21.89	474.13	49.68	314.95	320.65	132.25	44.32	343.50	48.84	165.84	320.69
42263	90.79	6.17	-6.90	51.59	24.45	495.30	52.06	298.29	317.08	117.20	40.18	337.00	51.16	155.26	317.07
42264	91.96	6.17	-6.90	48.37	28.08	511.33	53.53	279.13	311.23	102.57	35.97	330.00	52.53	139.84	311.23
42265	93.14	6.18	-6.90	47.07	32.94	518.95	53.99	257.38	302.56	88.96	31.76	320.40	52.93	118.84	302.65
42266	94.31	6.18	-6.90	48.57	39.09	513.25	53.15	232.83	290.54	76.31	28.03	308.52	52.28	93.47	290.91
42267	95.49	6.18	-6.90	50.83	46.36	488.41	50.62	204.57	274.92	63.05	26.02	293.40	50.32	73.35	275.74
42268	96.66	6.18	-6.90	50.49	54.68	440.37	46.35	171.49	255.81	48.40	27.23	274.74	46.70	77.64	257.01
42269	79.03	7.25	-6.90	41.52	17.48	319.30	7.33	373.41	306.91	224.77	73.90	357.39	11.63	130.58	308.72
42270	80.18	7.25	-6.90	44.52	17.72	324.22	9.87	371.83	308.61	217.36	71.69	360.35	10.26	140.83	310.03
42271	81.33	7.25	-6.90	48.06	17.95	334.12	14.58	369.25	310.30	209.54	69.15	362.85	13.02	150.13	311.39
42272	82.48	7.25	-6.90	51.65	18.21	348.46	19.93	365.58	311.91	201.02	66.34	364.88	17.94	158.17	312.74
42273	83.63	7.25	-6.90	54.86	18.55	366.55	25.37	360.67	313.36	191.58	63.27	366.38	23.46	164.61	313.97
42274	84.78	7.26	-6.90	57.31	19.02	387.56	30.65	354.33	314.53	181.10	59.99	367.22	28.97	169.14	314.97
42275	85.93	7.26	-6.90	58.76	19.70	410.56	35.60	346.35	315.27	169.53	56.51	367.22	34.16	171.42	315.59
42276	87.08	7.26	-6.90	59.09	20.69	434.53	40.07	338.54	315.38	156.96	52.85	366.08	38.83	171.11	315.59
42277	88.23	7.26	-6.90	58.34	22.13	458.29	43.95	324.71	314.60	143.63	49.03	363.50	42.84	167.89	314.72
42278	89.38	7.26	-6.90	56.73	24.17	480.50	47.15	310.76	312.60	129.89	45.03	359.14	46.07	161.38	312.64
42279	90.53	7.26	-6.90	54.75	26.97	499.52	49.58	294.65	308.99	116.25	40.89	352.72	48.45	151.14	308.98
42280	91.68	7.26	-6.90	53.22	30.67	513.25	51.20	276.36	303.31	103.26	36.64	344.09	49.94	136.58	303.31
42281	92.83	7.26	-6.90	53.12	35.38	518.62	51.87	255.88	295.06	91.36	32.43	333.09	50.57	117.25	295.19
42282	93.98	7.26	-6.90	54.64	41.07	511.16	51.35	233.04	283.76	80.22	28.81	319.22	50.31	94.58	284.26
42283	95.13	7.26	-6.90	56.02	47.58	485.88	49.33	206.87	269.17	68.22	27.02	301.56	49.02	76.89	270.23
42284	96.28	7.26	-6.90	54.84	54.95	439.43	45.94	176.20	251.36	54.63	28.36	280.03	46.48	79.27	252.87
42285	79.06	3.95	-8.30	60.55	29.95	290.01	5.30	399.05	333.86	359.83	102.44	325.25	16.16	158.77	334.48
42286	80.27	3.95	-8.30	64.31	29.68	296.01	10.45	397.65	335.90	344.51	96.36	328.45	15.66	172.20	336.35
42287	81.48	3.95	-8.30	69.67	29.46	307.94	18.62	395.60	338.21	329.99	90.04	331.29	20.32	184.72	338.53
42288	82.69	3.95	-8.30	75.75	29.30	325.11	27.02	392.84	340.74	315.84	83.55	333.78	27.32	195.97	340.95
42289	83.90	3.95	-8.30	81.75	29.19	346.68	35.15	389.25	343.38	301.69	76.96	335.93	34.89	205.58	343.52
42290	85.12	3.95	-8.30	86.99	29.10	371.75	42.75	384.70	346.00	287.26	70.37	337.68	42.26	213.20	346.09
42291	86.33	3.96	-8.30	90.86	28.99	399.42	49.59	379.02	348.41	272.26	63.86	338.91	49.00	218.48	348.48
42292	87.54	3.96	-8.30	92.84	28.78	428.79	55.46	372.00	350.34	256.49	57.54	339.45	54.81	220.99	350.40
42293	88.75	3.96	-8.30	92.41	28.44	458.87	60.14	363.39	351.44	239.73	51.52	339.07	59.47	220.26	351.49
42294	89.96	3.96	-8.30	89.07	27.96	488.52	63.49	352.87	351.26	221.73	45.85	337.48	62.81	215.61	351.32
42295	91.18	3.96	-8.30	82.34	27.46	516.25	65.42	339.89	349.32	202.12	40.60	334.36	64.72	206.07	349.38
42296	92.39	3.96	-8.30	71.99	27.29	539.86	65.83	323.60	345.10	180.39	35.87	329.22	65.14	190.23	345.20
42297	93.60	3.96	-8.30	58.54	28.02	555.97	64.60	302.55	338.17	155.79	32.05	321.37	63.97	166.42	338.33
42298	94.81	3.96	-8.30	44.10	30.38	559.62	61.43	274.69	328.18	127.45	29.90	309.79	60.98	133.83	328.44
42299	96.02	3.96	-8.30	33.46	34.95	544.49	55.96	237.74	314.91	95.15	30.24	293.67	55.89	95.61	315.27
42300	97.23	3.96	-8.30	31.55	41.90	504.02	47.94	190.80	298.33	60.90	33.12	274.24	48.44	66.06	298.70
42301	79.05	5.05	-8.30	59.54	29.50	303.89	7.30	395.65	329.16	351.04	99.98	338.02	19.31	159.59	330.12
42302	80.24	5.05	-8.30	63.30	29.24	309.63	11.44	394.32	331.08	336.81	94.48	341.19	17.55	172.31	331.78
42303	81.44	5.06	-8.30	68.62	28.99	321.05	18.78	392.36	333.26	323.22	88.70	344.09	20.68	184.20	333.76
42304	82.63	5.06	-8.30	74.64	28.77	337.54	26.64	389.70	335.65	309.85	82.69	346.72	26.70	194.89	335.99
42305	83.83	5.06	-8.30	80.54	28.59	358.33	34.39	386.21	338.16	296.37	76.52	349.07	33.71	204.02	338.39
42306	85.03	5.06	-8.30	85.65	28.42	382.56	41.70	381.74	340.67	282.47	70.27	351.06	40.74	211.21	340.83
42307	86.22	5.06	-8.30	89.39	28.25	409.33	48.35	376.09	343.01	267.91	64.04	352.54	47.28	216.07	343.12
42308	87.42	5.07	-8.30	91.29	28.04	437.69	54.09	369.04	344.92	252.53	57.92	353.30	52.98	218.18	345.01
42309	88.61	5.07	-8.30	90.93	27.77	466									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
42337	83.63	7.25	-8.30	77.17	27.50	386.84	32.35	376.72	325.97	281.84	75.57	381.22	29.89	198.37	326.42
42338	84.78	7.26	-8.30	82.08	27.34	408.83	38.72	372.59	327.89	269.47	70.38	383.49	36.04	204.57	328.21
42339	85.93	7.26	-8.30	85.62	27.21	433.22	44.66	367.22	329.65	256.22	65.02	385.27	42.02	208.55	329.87
42340	87.08	7.26	-8.30	87.42	27.13	458.99	49.96	360.31	331.02	241.97	59.54	386.25	47.42	209.85	331.20
42341	88.23	7.26	-8.30	87.24	27.12	484.89	54.40	351.62	331.73	226.71	54.02	386.01	51.96	207.96	331.88
42342	89.38	7.26	-8.30	84.98	27.28	509.44	57.79	340.95	331.37	210.48	48.56	383.98	55.41	202.42	331.53
42343	90.53	7.26	-8.30	80.57	27.76	530.89	59.96	328.15	329.48	193.24	43.31	379.55	57.64	192.70	329.67
42344	91.68	7.26	-8.30	74.04	28.82	547.16	60.78	312.91	325.55	174.67	38.52	372.07	58.59	178.19	325.82
42345	92.83	7.26	-8.30	65.74	30.78	555.62	60.12	294.46	319.11	154.08	34.67	360.80	58.25	158.21	319.56
42346	93.98	7.26	-8.30	56.71	33.96	552.96	57.84	271.33	309.87	130.57	32.59	344.94	56.69	132.87	310.58
42347	95.13	7.26	-8.30	48.98	38.61	535.17	53.83	241.71	297.72	103.84	33.22	323.89	53.89	104.89	298.69
42348	96.28	7.26	-8.30	44.46	44.91	497.98	48.13	204.52	282.83	75.28	36.89	298.45	49.79	83.13	283.82
42349	98.27	3.96	-2.70	135.31	105.75	223.45	184.53	168.91	142.46	361.16	88.47	295.87	184.09	266.16	146.18
42350	99.12	3.96	-2.70	67.73	111.31	61.72	107.04	56.41	64.76	203.98	20.98	76.82	105.70	118.84	66.54
42351	99.98	3.96	-2.70	45.38	114.41	31.81	62.71	17.38	43.24	106.88	25.28	42.58	60.00	59.34	43.39
42352	100.83	3.96	-2.70	28.76	115.03	17.74	36.09	13.23	33.03	46.04	42.90	28.43	30.18	26.12	33.07
42353	101.69	3.96	-2.70	11.16	115.21	12.09	22.46	10.48	25.26	10.56	53.39	13.62	11.13	7.45	27.28
42354	98.01	5.08	-2.70	145.94	115.52	224.76	179.23	169.22	143.84	360.76	97.60	289.10	178.47	257.33	149.40
42355	98.87	5.08	-2.70	76.68	111.70	62.16	106.00	57.22	64.82	206.59	26.81	75.53	103.77	115.41	67.56
42356	99.74	5.08	-2.70	51.68	113.27	32.01	64.45	18.62	42.95	110.53	24.90	41.89	60.11	58.48	43.20
42357	100.60	5.07	-2.70	32.96	113.99	17.80	40.34	14.25	32.83	48.94	41.68	27.99	31.51	26.99	32.90
42358	101.47	5.07	-2.70	13.86	114.74	12.00	28.23	11.43	25.36	11.58	51.52	13.56	13.06	9.24	28.49
42359	97.69	6.18	-2.70	157.41	126.44	226.42	172.83	169.41	145.81	359.96	107.92	281.12	171.63	246.62	153.08
42360	98.57	6.18	-2.70	86.29	112.31	62.73	104.80	58.16	64.99	209.67	32.71	74.07	101.44	111.30	68.74
42361	99.44	6.18	-2.70	58.72	111.95	32.27	66.43	20.03	42.60	114.98	24.38	41.08	60.20	57.44	42.95
42362	100.32	6.18	-2.70	37.91	112.70	17.89	44.96	15.39	32.57	52.60	40.16	27.47	33.10	28.01	32.64
42363	101.20	6.17	-2.70	17.31	114.14	11.91	34.12	12.55	25.48	13.07	49.46	13.47	15.23	11.31	29.79
42364	97.31	7.26	-2.70	168.95	138.03	228.31	165.48	169.47	148.39	358.61	118.99	272.17	163.68	234.38	157.06
42365	98.20	7.26	-2.70	96.30	113.10	63.40	103.41	59.13	65.34	213.10	38.58	72.41	98.71	106.46	70.05
42366	99.09	7.26	-2.70	66.45	110.47	32.61	68.53	21.56	42.21	120.17	23.74	40.20	60.25	56.20	42.68
42367	99.98	7.26	-2.70	43.60	111.26	18.03	49.68	16.65	32.22	57.04	38.45	26.90	34.92	29.14	32.27
42368	100.87	7.26	-2.70	21.31	113.31	11.79	40.13	13.74	25.59	15.24	47.37	13.41	17.69	13.47	31.09
42369	98.27	3.96	-4.10	41.52	83.42	277.63	77.40	132.80	174.88	73.33	15.57	283.96	76.91	173.35	176.53
42370	99.12	3.96	-4.10	43.62	90.80	184.24	72.69	103.51	143.98	108.46	7.75	207.06	70.97	182.36	145.70
42371	99.98	3.96	-4.10	31.46	99.99	108.37	53.22	54.47	114.65	85.09	21.23	137.41	50.45	131.16	115.02
42372	100.83	3.96	-4.10	17.52	107.01	65.06	35.07	26.95	94.90	47.76	37.45	106.48	30.63	80.56	94.92
42373	101.69	3.96	-4.10	7.12	113.44	43.09	22.41	17.08	81.06	12.65	52.13	76.51	14.72	34.31	82.95
42374	98.01	5.08	-4.10	49.80	83.06	278.94	76.54	135.08	174.09	79.13	16.24	279.17	75.69	167.97	176.62
42375	98.87	5.08	-4.10	48.36	89.44	185.28	73.76	105.56	143.51	109.25	8.29	203.54	70.96	177.24	146.15
42376	99.74	5.08	-4.10	34.60	98.32	109.06	56.10	57.04	114.03	85.11	19.71	135.11	51.71	128.96	114.60
42377	100.60	5.07	-4.10	20.09	105.77	65.39	39.39	30.39	94.42	47.79	36.42	104.63	32.70	81.20	94.45
42378	101.47	5.07	-4.10	9.38	112.78	42.72	27.89	20.89	80.95	12.63	51.42	75.38	17.49	37.70	83.94
42379	97.69	6.18	-4.10	58.38	82.70	280.58	75.43	137.63	173.33	85.65	17.30	273.71	74.11	161.47	176.78
42380	98.57	6.18	-4.10	53.73	87.88	186.63	74.95	107.89	143.11	110.29	9.25	199.49	70.88	171.02	146.71
42381	99.44	6.18	-4.10	38.40	96.33	110.00	59.34	60.01	113.34	85.32	17.83	132.46	53.10	126.27	114.13
42382	100.32	6.18	-4.10	23.34	104.22	65.88	44.09	34.14	93.84	48.08	35.21	102.42	35.00	81.94	93.87
42383	101.20	6.17	-4.10	12.35	111.93	42.33	33.51	24.95	80.83	12.96	50.67	73.99	20.38	41.68	85.04
42384	97.31	7.26	-4.10	66.99	82.35	282.53	74.08	140.31	172.72	92.60	18.71	267.90	72.15	154.03	177.02
42385	98.20	7.26	-4.10	59.57	86.14	188.25	76.21	110.39	142.87	111.67	10.72	195.10	70.69	163.86	147.40
42386	99.09	7.26	-4.10	42.87	94.04	111.16	62.78	63.23	112.64	85.82	15.63	129.53	54.55	123.12	113.65
42387	99.98	7.26	-4.10	27.32	102.44	66.54	48.95	38.10	93.10	48.79	34.03	99.93	37.42	82.75	93.13
42388	100.87	7.26	-4.10	15.89	110.85	41.91	39.23	28.99	80.67	14.03	49.97	72.41	23.42	45.90	86.16
42389	98.27	3.96	-5.50	38.08	74.32	323.41	52.71	122.25	207.57	33.32	16.54	262.35	52.30	133.12	208.50
42390	99.12	3.96	-5.50	29.33	82.79	253.60	44.56	96.01	185.66	31.66	21.82	237.51	43.41	143.83	186.32
42391	99.98	3.96	-5.50	20.55	90.69	184.43	36.32	68.47	165.28	33.09	29.60	214.43	34.08	134.36	165.41
42392	100.83	3.96	-5.50	13.56	99.07	123.88	27.02	43.10	147.04	22.78	39.58	198.25	23.01	100.58	147.01
42393	101.69	3.96	-5.50	6.66	107.48	87.92	20.14	26.05	132.59	7.10	49.75	190.38	12.73	49.56	133.88
42394	98.01	5.08	-5.50	43.22	73.38	324.47	52.89	126.28	205.69	39.22	16.73	260.38	52.24	129.69	207.13
42395	98.87	5.08	-5.50	33.82	81.58	254.85	46.07	100.04	184.13	35.27	22.46	234.66	44.28	140.71	185.17
42396	99.74	5.08	-5.50	24.13	89.40	185.67	39.29	72.67	164.04	34.29	30.44	211.01	35.90	132.72	164.25
42397	100.60	5.07	-5.50	16.26	98.06	124.73	31.32	47.97	146.10	23.19	40.71	194.59	25.60	101.49	146.05
42398	101.47	5.07	-5.50	8.84	106.80	87.56	25.37	31.86	131.95	7.38	51.18	186.91	15.84	53.95	134.01
42399	97.69	6.18	-5.50	48.88	72.33	325.80	53.03	130.82	203.59	45.52	16.88	258.33	52.11	125.61	205.57
42400	98.57	6.18	-5.50	38.84	80.16	256.41	47.73	104.61	182.44	39.47	23.00	231.44	45.25	136.93	183.86
42401	99.44	6.18	-5.50	28.25	87.87	187.24	42.54	77.42	162.63	35.99	31.21	206.97	37.95	130.69	162.91
42402	100.32	6.18	-5.50	19.55	96.79	125.85	35.87	53.28	144.99	24.02	41.82	190.16	28.48	102.50	144.92
42403	101.20	6.17	-5.50	11.66	105.96	87.19	30.66	37.99	131.24	8.21	52.64	182.63	19.18	59.06	134.19
42404	97.31	7.26	-5.50	54.88	71.21	327.35	53.09	135.59	201.42	52.06	16.97	256.46	51.88	120.99	203.94
42405	98.20	7.26	-5.50	44.30	78.58	258.26	49.44	109.49	180.72	44.19	23.37	228.08	46.28	132.60	182.53
42406	99.09	7.26	-5.50	32.92	86.13	189.13	45.89	82.53	161.16	38.27	31.81	202.51	40.11	128.33	161.50
42407	99.98	7.26	-5.50	23.44	95.33	127.26	40.47	58.91	143.68	25.46	42.88	185.06	31.48	103.61	143.58
42408															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
42435	98.87	5.08	-8.30	35.64	57.71	384.64	33.03	115.11	262.90	23.64	43.15	262.46	34.90	83.31	262.82
42436	99.74	5.08	-8.30	30.54	65.51	311.23	26.44	84.01	247.12	16.30	46.99	282.18	27.68	91.36	246.56
42437	100.60	5.07	-8.30	21.05	73.58	239.94	21.58	62.47	231.07	12.30	50.13	333.15	20.52	84.28	230.42
42438	101.47	5.07	-8.30	9.32	81.31	197.85	19.06	49.35	215.52	5.59	52.22	413.01	14.18	58.18	215.98
42439	97.69	6.18	-8.30	39.53	51.27	447.63	41.08	159.11	273.02	44.84	40.91	270.34	43.34	75.70	273.50
42440	98.57	6.18	-8.30	37.85	58.42	385.82	34.80	123.92	258.31	28.98	45.80	263.62	37.40	86.15	258.18
42441	99.44	6.18	-8.30	32.57	66.06	313.64	29.22	93.80	242.92	19.82	50.46	278.52	30.99	94.45	242.12
42442	100.32	6.18	-8.30	23.14	73.98	242.63	25.32	72.62	227.48	14.10	54.39	325.14	24.41	89.47	226.58
42443	101.20	6.17	-8.30	11.43	81.65	198.66	23.33	59.45	212.69	6.95	57.16	402.10	18.26	67.25	213.40
42444	97.31	7.26	-8.30	42.83	51.86	447.29	42.17	166.77	267.68	51.23	42.23	276.43	45.15	80.15	268.26
42445	98.20	7.26	-8.30	40.48	58.83	387.15	36.72	133.06	253.26	34.85	47.64	265.32	40.10	89.11	253.05
42446	99.09	7.26	-8.30	35.03	66.30	316.52	32.11	103.84	238.20	24.05	53.02	274.63	34.44	97.65	237.14
42447	99.98	7.26	-8.30	25.68	74.02	245.98	29.15	82.78	223.18	16.69	57.79	315.89	28.45	94.90	222.01
42448	100.87	7.26	-8.30	13.99	81.69	199.90	27.66	69.03	209.38	9.12	61.29	389.29	22.67	76.07	210.39
42449	77.84	3.95	-2.70	32.52	10.57	212.53	4.66	332.91	276.10	57.76	25.51	276.18	13.95	63.32	276.69
42450	77.85	5.05	-2.70	32.56	11.09	225.02	5.20	329.67	271.68	57.75	24.50	286.44	17.41	64.32	272.58
42451	77.86	6.15	-2.70	32.89	11.82	239.66	6.00	325.61	266.22	57.89	23.47	298.79	20.70	65.43	267.44
42452	77.87	7.25	-2.70	33.73	12.83	256.13	7.12	320.71	259.70	58.33	22.54	313.07	23.69	66.53	261.20
42453	76.63	3.95	-2.70	34.81	10.40	218.10	7.95	331.54	272.47	73.20	24.24	270.96	16.73	54.49	273.14
42454	76.66	5.05	-2.70	34.48	10.96	230.24	8.07	328.27	268.20	72.28	23.05	281.65	20.33	55.77	269.21
42455	76.69	6.15	-2.70	34.33	11.74	244.48	8.42	324.16	262.91	71.24	21.90	294.49	23.85	57.34	264.28
42456	76.72	7.25	-2.70	34.57	12.83	260.50	9.13	319.22	256.60	70.21	20.94	309.27	27.07	59.11	258.26
42457	75.42	3.95	-2.70	37.79	10.95	228.83	11.11	328.38	268.66	91.66	23.07	263.58	19.88	46.57	269.39
42458	75.46	5.06	-2.70	37.12	11.57	240.23	10.94	325.09	264.51	89.85	21.67	274.86	23.68	47.56	265.62
42459	75.51	6.16	-2.70	36.50	12.45	253.64	10.96	320.98	259.40	87.58	20.41	288.35	27.51	49.09	260.88
42460	75.57	7.25	-2.70	36.12	13.64	268.76	11.34	316.04	253.29	85.00	19.48	303.79	31.04	51.18	257.05
42461	74.21	3.95	-2.70	41.53	12.30	243.80	13.90	323.43	264.64	112.79	22.10	253.98	23.04	43.13	265.40
42462	74.27	5.06	-2.70	40.57	12.97	254.20	13.51	320.15	260.63	110.14	20.46	266.03	27.19	42.49	261.79
42463	74.34	6.16	-2.70	39.49	13.93	266.47	13.29	316.05	255.69	106.64	19.11	280.32	31.48	42.66	257.22
42464	74.42	7.25	-2.70	38.50	15.23	280.32	13.44	311.15	249.80	102.43	18.30	296.57	35.48	43.99	251.61
42465	73.00	3.95	-2.70	46.07	14.46	261.93	16.20	316.71	260.41	135.97	21.48	242.63	25.95	48.79	261.14
42466	73.07	5.06	-2.70	44.86	15.13	271.18	15.66	313.47	256.53	132.63	19.56	255.50	30.63	45.07	257.65
42467	73.16	6.16	-2.70	43.36	16.12	282.11	15.29	309.42	251.77	128.01	18.15	270.67	35.60	41.83	253.26
42468	73.27	7.25	-2.70	41.74	17.50	294.49	15.31	304.59	246.11	122.19	17.55	287.79	40.29	40.16	247.86
42469	71.78	3.95	-2.70	51.36	17.46	282.12	17.95	308.25	255.91	160.24	21.40	231.08	28.42	64.48	256.52
42470	71.87	5.06	-2.70	49.96	18.04	290.17	17.32	305.08	252.17	156.52	19.16	244.54	33.80	57.63	253.14
42471	71.99	6.16	-2.70	48.10	18.98	299.69	16.88	301.12	247.62	151.06	17.73	260.35	39.69	50.13	248.92
42472	72.12	7.26	-2.70	45.87	20.36	310.47	16.88	296.39	242.23	143.80	17.45	278.12	45.36	43.43	243.76
42473	70.57	3.96	-2.70	57.23	21.34	303.33	19.08	298.12	251.09	184.12	22.06	223.15	30.28	87.58	251.48
42474	70.68	5.06	-2.70	55.75	21.72	310.19	18.47	295.08	247.50	180.56	19.49	236.25	36.48	78.21	248.15
42475	70.81	6.16	-2.70	53.61	22.49	318.29	18.05	291.24	243.18	174.79	18.12	251.71	43.52	67.00	244.11
42476	70.97	7.26	-2.70	50.81	23.80	327.44	18.14	286.65	238.12	166.53	18.27	269.22	50.50	55.16	239.24
42477	69.36	3.96	-2.70	63.36	26.24	324.58	19.57	286.42	245.91	205.49	23.65	226.09	31.49	115.10	245.97
42478	69.48	5.07	-2.70	61.93	26.31	330.30	19.08	283.59	242.46	202.84	20.79	236.62	38.53	103.83	242.63
42479	69.64	6.17	-2.70	59.66	26.77	337.03	18.81	279.96	238.41	197.71	19.55	249.43	46.85	89.62	238.74
42480	69.82	7.26	-2.70	56.42	27.85	344.61	19.14	275.53	233.76	189.31	20.20	264.49	55.45	73.35	234.20
42481	68.15	3.96	-2.70	69.25	32.34	344.88	19.43	273.23	240.34	221.64	26.31	249.43	32.27	143.54	240.07
42482	68.29	5.07	-2.70	68.01	32.05	349.56	19.23	270.75	236.98	220.77	23.29	254.27	39.94	131.12	236.60
42483	68.46	6.17	-2.70	65.87	32.01	355.05	19.21	267.46	233.23	217.64	22.17	260.79	49.40	114.82	232.78
42484	68.67	7.26	-2.70	62.42	32.66	361.17	19.91	263.29	229.09	210.62	23.37	269.59	59.85	95.01	228.60
42485	66.94	3.96	-2.70	74.21	39.82	363.14	18.74	258.47	234.44	229.85	29.97	299.14	33.34	167.33	234.06
42486	67.09	5.07	-2.70	73.26	39.30	366.94	19.01	256.56	231.04	231.36	27.27	296.04	41.16	154.84	230.34
42487	67.29	6.17	-2.70	71.56	38.61	371.39	19.38	253.89	227.53	231.89	26.18	293.08	51.07	138.07	226.45
42488	67.52	7.26	-2.70	68.34	38.52	376.28	20.55	250.19	224.00	228.57	27.84	291.35	63.19	116.40	222.55
42489	65.72	3.96	-2.70	77.58	48.78	378.01	17.73	241.67	228.39	229.35	34.14	371.80	36.17	177.78	228.42
42490	65.90	5.07	-2.70	76.80	48.54	381.15	18.65	240.57	224.72	232.72	33.04	360.65	43.38	166.44	224.53
42491	66.11	6.17	-2.70	75.87	47.21	384.91	19.58	239.05	221.24	238.17	31.95	347.74	52.18	151.84	220.47
42492	66.37	7.26	-2.70	73.56	45.89	388.98	21.24	236.37	218.34	241.52	33.75	333.66	65.02	131.78	216.64
42493	64.51	3.96	-2.70	79.20	58.82	387.53	17.05	221.69	222.46	225.61	37.97	453.20	42.58	164.55	223.50
42494	64.70	5.07	-2.70	78.00	60.22	390.30	18.51	221.37	218.26	227.96	40.65	435.03	48.69	154.76	219.99
42495	64.94	6.17	-2.70	77.87	58.78	393.92	20.28	221.81	214.29	237.51	40.39	415.02	53.93	145.66	216.32
42496	65.22	7.26	-2.70	77.39	55.56	397.96	22.39	221.45	211.74	250.18	41.55	391.84	65.27	133.12	212.58
42497	63.30	3.96	-2.70	79.80	68.83	388.82	18.55	197.30	216.79	236.16	43.14	519.59	52.41	126.25	218.92
42498	63.50	5.08	-2.70	77.23	74.37	391.37	19.38	196.52	212.11	232.34	50.17	494.32	58.69	116.68	216.77
42499	63.76	6.18	-2.70	77.30	74.55	395.63	22.22	199.61	206.63	240.83	52.79	471.86	58.62	114.45	215.56
42500	64.07	7.26	-2.70	79.47	68.87	401.16	25.24	204.12	203.46	262.01	52.70	449.20	65.54	115.48	213.87
42501	62.09	3.96	-2.70	80.84	77.51	377.73	25.17	169.83	210.63	289.71	56.44	547.36	59.52	105.37	214.14
42502	62.31	5.08	-2.70	76.21	89.96	379.24	23.20	164.44	206.56	278.86	65.41	509.79	68.71	101.16	214.42
42503	62.59	6.18	-2.70	75.81	94.89	384.76	26.29	169.24	198.11	278.72	71.49	485.94	68.10	101.88	217.14
42504	62.92	7.26	-2.70	80.64	87.50	394.63	32.45	182.42	191.85	298.62	70.86	477.42	72.09	104.40	223.18
42505	60.88	3.96	-2.70	83.91	86.54	353.12	38.42	146.87	202.35	408.25	69.52				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
42533	71.78	3.95	-4.10	35.33	8.93	309.01	21.83	332.22	274.51	5.12	38.54	246.69	23.34	59.19	275.60
42534	71.87	5.06	-4.10	34.31	9.88	317.70	20.38	328.67	270.53	3.66	34.71	260.68	23.36	53.38	272.22
42535	71.99	6.16	-4.10	33.06	11.18	327.96	18.72	324.20	265.74	4.69	30.74	277.08	23.82	47.59	268.02
42536	72.12	7.26	-4.10	31.76	12.85	339.57	17.05	318.82	260.14	7.83	27.00	295.54	24.71	43.33	262.88
42537	70.57	3.96	-4.10	39.95	12.32	332.90	23.37	322.66	270.37	5.19	36.67	244.24	24.91	77.04	271.27
42538	70.68	5.06	-4.10	38.79	13.18	340.36	21.84	319.18	266.46	4.92	32.31	257.30	24.96	68.73	267.90
42539	70.81	6.16	-4.10	37.29	14.45	349.14	20.05	314.79	261.80	7.39	27.87	272.73	25.56	59.34	263.79
42540	70.97	7.26	-4.10	35.57	16.16	359.03	18.22	309.50	256.39	11.03	23.86	290.27	26.74	50.28	258.80
42541	69.36	3.96	-4.10	45.88	16.61	357.07	24.13	311.11	265.77	9.10	34.22	253.49	25.76	97.55	266.34
42542	69.48	5.07	-4.10	44.54	17.27	363.32	22.63	307.80	261.93	6.97	29.42	263.53	25.92	87.60	262.90
42543	69.64	6.17	-4.10	42.76	18.35	370.63	20.79	303.57	257.42	8.92	24.55	275.75	26.72	75.63	258.82
42544	69.82	7.26	-4.10	40.59	19.96	378.81	18.90	298.44	252.24	13.39	20.32	290.18	28.28	62.77	254.00
42545	68.15	3.96	-4.10	53.23	21.94	380.37	24.11	297.38	260.59	19.25	30.93	280.32	25.99	117.17	260.72
42546	68.29	5.07	-4.10	51.65	22.30	385.45	22.79	294.38	256.79	13.04	26.05	284.91	26.36	106.39	257.08
42547	68.46	6.17	-4.10	49.51	23.02	391.37	21.03	290.48	252.45	9.57	20.96	291.07	27.34	92.94	252.97
42548	68.67	7.26	-4.10	46.82	24.34	397.91	19.16	285.64	247.59	13.08	16.77	299.32	29.26	77.54	248.32
42549	66.94	3.96	-4.10	62.16	28.42	401.41	23.39	281.14	254.68	37.97	26.49	326.02	25.92	131.79	254.42
42550	67.09	5.07	-4.10	60.20	28.49	405.43	22.43	278.66	250.87	28.35	22.40	323.69	26.60	121.09	250.48
42551	67.29	6.17	-4.10	57.58	28.71	410.10	20.92	275.36	246.69	17.96	17.82	321.77	27.64	107.50	246.21
42552	67.52	7.26	-4.10	54.29	29.50	415.19	19.19	271.07	242.22	12.84	14.45	321.10	29.72	91.18	241.69
42553	65.72	3.96	-4.10	72.72	36.14	418.39	22.11	261.92	247.91	63.47	21.30	384.35	26.21	136.90	247.54
42554	65.90	5.07	-4.10	70.28	36.12	421.53	21.75	260.21	243.97	51.50	19.67	375.26	27.32	127.15	243.31
42555	66.11	6.17	-4.10	67.02	35.74	425.25	20.78	257.93	239.87	36.18	17.22	365.40	28.22	115.10	238.80
42556	66.37	7.26	-4.10	62.96	35.71	429.25	19.32	254.65	235.86	21.19	16.16	355.29	29.99	100.13	234.33
42557	64.51	3.96	-4.10	84.57	45.07	428.83	20.51	239.31	240.00	88.92	21.42	442.00	27.69	129.62	240.10
42558	64.70	5.07	-4.10	81.76	45.43	431.38	20.96	238.44	235.82	76.40	22.65	427.37	29.50	121.29	235.86
42559	64.94	6.17	-4.10	77.76	44.57	434.65	20.99	237.70	231.60	58.38	22.89	412.08	30.17	112.31	231.31
42560	65.22	7.26	-4.10	72.76	43.33	438.25	20.08	236.18	228.02	36.88	23.95	395.55	31.10	101.40	226.93
42561	63.30	3.96	-4.10	96.48	54.99	429.30	19.04	213.74	230.43	102.37	38.30	482.13	30.04	113.34	231.85
42562	63.51	5.08	-4.10	93.92	56.58	431.55	20.21	213.22	226.03	91.24	38.43	462.87	33.48	106.29	228.25
42563	63.76	6.18	-4.10	89.40	55.71	435.13	21.94	214.27	221.25	74.23	38.29	445.63	35.01	100.95	224.28
42564	64.07	7.26	-4.10	83.34	52.91	439.51	22.14	215.54	217.80	50.96	38.87	428.95	35.37	95.91	220.55
42565	62.09	3.96	-4.10	106.06	65.78	415.62	18.26	187.92	218.10	93.15	69.98	494.10	30.45	101.70	222.49
42566	62.31	5.08	-4.10	104.96	69.46	417.62	19.49	186.26	213.94	83.53	70.06	470.83	37.08	95.23	220.45
42567	62.59	6.18	-4.10	100.82	69.44	422.40	23.64	188.49	207.92	71.16	68.01	452.70	43.56	93.11	217.11
42568	62.92	7.26	-4.10	93.83	65.03	429.39	26.06	193.27	203.71	53.19	64.94	440.75	46.25	93.97	214.63
42569	60.88	3.96	-4.10	110.52	78.01	380.67	18.54	166.85	200.43	67.29	112.96	476.79	27.27	116.23	211.14
42570	61.12	5.08	-4.10	112.51	83.78	380.91	18.64	162.16	197.61	63.76	120.31	454.72	37.98	102.53	210.88
42571	61.41	6.18	-4.10	110.42	85.46	387.82	25.68	163.94	189.85	59.36	118.17	432.30	55.03	101.40	205.33
42572	61.77	7.26	-4.10	103.23	79.79	400.92	31.91	171.23	183.21	48.15	108.57	420.07	65.41	109.98	202.09
42573	59.67	3.96	-4.10	103.64	91.18	317.99	16.73	155.95	175.88	44.13	171.25	398.96	18.79	207.65	193.17
42574	59.92	5.08	-4.10	108.91	98.64	308.55	13.73	146.48	177.06	62.72	193.19	389.44	30.29	172.30	193.63
42575	60.24	6.18	-4.10	111.58	102.04	317.44	25.07	146.48	166.77	71.19	192.92	364.68	60.85	159.69	179.80
42576	60.62	7.26	-4.10	107.50	95.58	345.01	37.48	154.30	154.79	62.29	168.29	349.14	81.66	167.07	171.34
42577	77.84	3.95	-5.50	31.54	9.60	251.45	5.90	372.46	306.22	146.47	63.10	297.10	6.01	91.04	307.07
42578	77.85	5.05	-5.50	30.78	9.10	265.10	5.67	368.86	301.81	141.69	60.85	309.25	5.65	92.61	303.12
42579	77.86	6.15	-5.50	30.01	8.44	281.17	5.40	364.25	296.63	135.90	58.19	323.80	5.16	94.27	298.42
42580	77.87	7.25	-5.50	29.45	7.70	299.45	5.09	358.55	290.76	129.19	55.19	340.61	4.59	95.88	292.97
42581	76.63	3.95	-5.50	30.40	8.99	258.13	11.24	371.87	303.69	148.87	64.39	291.52	11.54	77.86	304.73
42582	76.66	5.05	-5.50	29.57	8.43	271.41	10.57	368.23	299.39	143.72	61.71	304.09	10.89	80.06	300.97
42583	76.69	6.15	-5.50	28.69	7.71	287.06	9.78	363.56	294.34	137.52	58.58	319.09	10.05	82.55	296.48
42584	76.72	7.25	-5.50	27.97	6.93	304.86	8.90	357.81	288.62	130.41	55.08	336.34	9.05	85.14	291.25
42585	75.42	3.95	-5.50	30.12	8.18	270.68	16.24	369.91	301.15	151.64	65.27	284.79	16.68	65.09	302.37
42586	75.46	5.06	-5.50	29.19	7.67	283.26	15.21	366.23	296.93	146.00	62.15	297.91	15.76	67.64	298.78
42587	75.51	6.16	-5.50	28.17	7.04	298.10	13.99	361.52	291.98	139.27	58.52	313.47	14.56	70.72	294.47
42588	75.57	7.25	-5.50	27.27	6.52	314.98	12.63	355.74	286.37	131.61	54.53	331.27	13.16	74.15	289.40
42589	74.21	3.95	-5.50	30.90	7.15	288.24	20.71	366.52	298.58	155.70	65.64	277.27	21.29	54.40	299.96
42590	74.27	5.06	-5.50	29.84	6.83	299.89	19.38	362.81	294.41	149.37	62.05	291.01	20.13	56.64	296.51
42591	74.34	6.16	-5.50	28.66	6.55	313.62	17.78	358.07	289.52	141.88	57.93	307.20	18.62	59.74	292.33
42592	74.42	7.25	-5.50	27.55	6.65	329.23	15.99	352.27	283.98	133.45	53.45	325.59	16.84	63.60	287.38
42593	73.00	3.95	-5.50	32.98	5.95	309.76	24.53	361.59	295.91	162.20	65.34	270.01	25.28	48.45	297.40
42594	73.07	5.06	-5.50	31.74	6.06	320.32	22.94	357.86	291.78	154.90	61.29	284.26	23.92	49.13	294.05
42595	73.16	6.16	-5.50	30.32	6.47	332.77	21.01	353.11	286.93	146.32	56.69	300.96	22.14	51.08	289.96
42596	73.27	7.25	-5.50	28.94	7.44	346.88	18.85	347.30	281.43	136.76	51.75	319.80	20.02	54.48	285.09
42597	71.78	3.95	-5.50	36.62	4.88	334.14	27.57	354.97	293.05	172.62	64.16	265.13	28.50	49.56	294.56
42598	71.87	5.06	-5.50	35.11	5.78	343.54	25.78	351.24	288.95	163.94	59.69	279.42	27.04	47.50	291.26
42599	71.99	6.16	-5.50	33.38	7.09	354.58	23.58	346.49	284.13	153.79	54.63	296.12	25.06	46.77	287.24
42600	72.12	7.26	-5.50	31.63	8.92	367.06	21.09	340.71	278.68	142.57	49.28	314.91	22.67	48.22	282.41
42601	70.57	3.96	-5.50	42.17	4.94	360.30	29.72	346.46	289.88	188.68	61.77	266.24	30.86	56.90	291.26
42602	70.68	5.06	-5.50	40.28	6.60	368.48	27.82	342.75	285.81	178.14	56.98	279.48	29.41	52.13	287.96
42603	70.81	6.16	-5.50	38.10	8.62	378.06	25.43	338.05	281.03	165.76	51.56	295.04	27.35	48.05	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
42631	62.59	6.18	-5.50	134.11	51.52	465.79	23.04	210.61	228.89	433.90	57.45	445.48	23.27	91.79	233.32
42632	62.92	7.26	-5.50	122.73	50.37	469.20	24.43	211.17	225.64	393.04	46.85	430.56	28.74	92.41	229.85
42633	60.88	3.96	-5.50	157.35	65.13	427.33	11.11	186.54	219.51	511.20	140.45	431.75	12.87	125.51	226.89
42634	61.12	5.08	-5.50	153.83	64.80	428.14	14.62	185.75	216.59	492.45	129.81	418.55	16.59	118.72	225.96
42635	61.41	6.18	-5.50	147.58	63.54	432.94	20.95	186.10	211.66	469.80	109.61	406.06	21.32	116.44	221.94
42636	61.77	7.26	-5.50	136.77	61.14	440.05	25.86	187.14	208.24	435.57	85.81	397.10	26.85	118.67	219.17
42637	59.67	3.96	-5.50	157.00	78.38	368.83	8.49	168.25	197.82	502.97	213.56	312.30	9.58	194.45	210.46
42638	59.92	5.08	-5.50	153.34	77.39	368.79	11.04	165.39	197.44	487.13	207.98	307.89	9.24	181.01	213.32
42639	60.24	6.18	-5.50	150.93	76.57	376.59	17.74	164.64	191.88	478.86	179.67	306.72	17.46	172.78	209.76
42640	60.62	7.26	-5.50	144.99	73.52	390.24	26.54	165.21	186.92	464.73	136.26	313.79	24.75	170.18	208.45
42641	77.84	3.95	-6.90	43.31	19.03	270.96	7.87	388.21	319.93	259.29	85.21	308.84	12.79	114.86	320.80
42642	77.85	5.05	-6.90	42.27	18.55	284.84	8.09	384.62	315.50	251.82	82.54	321.52	14.31	116.52	316.84
42643	77.86	6.15	-6.90	40.99	17.92	301.14	8.45	379.93	310.53	242.71	79.34	336.60	15.44	118.18	312.36
42644	77.87	7.25	-6.90	39.56	17.18	319.67	8.90	374.03	305.24	232.10	75.72	353.96	16.17	119.67	307.51
42645	76.63	3.95	-6.90	42.99	18.91	277.79	14.25	388.00	317.96	270.07	88.41	303.91	19.09	100.85	319.05
42646	76.66	5.05	-6.90	41.89	18.37	291.34	13.78	384.38	313.62	261.68	85.20	316.94	20.41	103.27	315.29
42647	76.69	6.15	-6.90	40.52	17.65	307.25	13.30	379.64	308.77	251.52	81.39	332.39	21.37	105.86	311.02
42648	76.72	7.25	-6.90	38.97	16.83	325.32	12.84	373.70	303.61	239.76	77.09	350.08	21.90	108.39	306.38
42649	75.42	3.95	-6.90	44.32	18.60	290.64	20.46	386.75	316.13	282.44	91.12	298.30	25.64	87.22	317.45
42650	75.46	5.06	-6.90	43.10	18.00	303.56	19.51	383.10	311.87	272.94	87.37	311.80	26.84	90.28	313.87
42651	75.51	6.16	-6.90	41.59	17.25	318.73	18.43	378.33	307.08	261.49	82.92	327.71	27.65	93.71	309.78
42652	75.57	7.25	-6.90	39.87	16.43	335.96	17.26	372.37	302.00	248.32	77.92	345.83	27.99	97.22	305.29
42653	74.21	3.95	-6.90	47.21	18.04	308.71	26.15	384.37	314.42	297.33	93.19	292.42	31.93	74.82	315.96
42654	74.27	5.06	-6.90	45.79	17.42	320.80	24.83	380.70	310.20	286.47	88.89	306.44	33.15	78.29	312.53
42655	74.34	6.16	-6.90	44.06	16.69	334.98	23.26	375.92	305.44	273.43	83.81	322.86	33.92	82.36	308.56
42656	74.42	7.25	-6.90	42.10	16.00	351.04	21.51	369.95	300.38	258.53	78.13	341.43	34.14	86.73	304.16
42657	73.00	3.95	-6.90	51.50	17.17	331.05	31.14	380.72	312.75	315.93	94.40	287.20	37.71	64.75	314.46
42658	73.07	5.06	-6.90	49.78	16.59	342.16	29.52	377.04	308.57	303.39	89.59	301.65	39.09	68.20	311.16
42659	73.16	6.16	-6.90	47.71	15.98	355.18	27.55	372.26	303.82	288.37	83.91	318.48	39.95	72.53	307.28
42660	73.27	7.25	-6.90	45.40	15.55	369.87	25.32	366.31	298.73	271.28	77.60	337.36	40.18	77.50	302.90
42661	71.78	3.95	-6.90	57.12	15.93	356.62	35.24	375.60	311.04	339.66	94.44	284.41	42.78	58.04	312.83
42662	71.87	5.06	-6.90	54.97	15.49	366.68	33.41	371.91	306.88	325.04	89.22	298.92	44.49	60.93	309.61
42663	71.99	6.16	-6.90	52.42	15.14	378.42	31.13	367.14	302.12	307.52	83.04	315.73	45.63	65.01	305.77
42664	72.12	7.26	-6.90	49.59	15.17	391.58	28.51	361.22	296.98	287.66	76.17	334.51	46.01	70.14	301.38
42665	70.57	3.96	-6.90	64.22	14.33	384.40	38.30	368.75	309.13	370.15	92.88	286.87	46.92	55.14	310.87
42666	70.68	5.06	-6.90	61.48	14.15	393.34	36.36	365.07	304.99	352.99	87.44	300.57	49.18	57.09	307.67
42667	70.81	6.16	-6.90	58.26	14.27	403.72	33.88	360.32	300.22	332.36	80.93	316.47	50.84	60.46	303.82
42668	70.97	7.26	-6.90	54.74	14.99	415.25	30.96	354.45	295.03	308.95	73.63	334.25	51.62	65.30	299.36
42669	69.36	3.96	-6.90	73.20	12.52	413.31	40.18	359.82	306.81	409.19	89.06	298.07	49.89	55.61	308.33
42670	69.48	5.07	-6.90	69.71	12.79	421.05	38.25	356.17	302.72	389.01	83.75	309.57	52.96	56.72	305.07
42671	69.64	6.17	-6.90	65.61	13.63	429.99	35.71	351.48	297.94	364.52	77.21	323.08	55.49	59.29	301.14
42672	69.82	7.26	-6.90	61.14	15.24	439.79	32.63	345.71	292.72	336.59	69.74	338.40	57.00	63.55	296.58
42673	68.15	3.96	-6.90	84.62	11.05	442.19	40.78	348.40	303.82	458.44	82.05	320.95	51.40	58.83	304.93
42674	68.29	5.07	-6.90	80.25	11.96	448.62	39.02	344.86	299.78	434.83	77.43	328.54	55.61	59.61	301.52
42675	68.46	6.17	-6.90	75.05	13.66	455.99	36.57	340.31	295.04	405.74	71.38	337.81	59.45	61.69	297.44
42676	68.67	7.26	-6.90	69.34	16.22	463.96	33.48	334.72	289.82	372.17	64.15	348.76	62.21	65.39	292.76
42677	66.94	3.96	-6.90	99.13	11.24	469.65	40.01	333.94	299.83	519.20	70.57	355.91	51.09	65.10	300.38
42678	67.09	5.07	-6.90	93.75	12.64	474.63	38.63	330.66	295.83	491.97	67.48	358.19	56.78	66.07	296.73
42679	67.29	6.17	-6.90	87.23	14.98	480.31	36.50	326.41	291.17	457.64	62.73	361.52	62.56	68.08	292.45
42680	67.52	7.26	-6.90	79.95	18.23	486.31	33.60	321.18	286.04	417.29	56.39	366.23	67.27	71.38	287.66
42681	65.72	3.96	-6.90	117.23	14.39	493.89	37.84	315.84	294.43	591.91	52.87	399.50	48.54	75.70	294.44
42682	65.90	5.07	-6.90	110.80	15.71	497.31	37.09	313.04	290.48	561.29	52.50	395.80	56.02	76.98	290.53
42683	66.11	6.17	-6.90	102.74	18.08	501.17	35.58	309.38	285.93	521.51	50.29	392.34	64.48	79.11	286.05
42684	66.37	7.26	-6.90	93.53	21.49	505.11	33.14	304.79	281.03	473.41	45.91	389.70	72.18	82.14	281.20
42685	64.51	3.96	-6.90	139.09	20.51	512.40	34.20	293.52	287.16	675.79	27.30	444.08	43.34	91.05	286.94
42686	64.70	5.07	-6.90	131.66	21.28	514.26	34.42	291.48	283.25	642.66	30.84	434.73	52.74	92.46	282.87
42687	64.94	6.17	-6.90	121.96	23.07	516.32	33.93	288.75	278.87	597.95	32.86	424.81	64.65	94.81	278.31
42688	65.22	7.26	-6.90	110.45	26.08	518.23	32.37	285.20	274.34	541.78	32.22	415.06	76.70	97.82	273.58
42689	63.30	3.96	-6.90	164.31	29.14	521.56	28.94	266.66	277.49	768.26	19.05	477.70	35.32	109.72	277.83
42690	63.51	5.08	-6.90	156.11	29.10	522.08	30.52	265.63	273.66	734.43	12.48	464.18	46.37	110.98	273.95
42691	63.76	6.18	-6.90	144.86	29.90	522.67	31.64	264.14	269.47	686.53	12.87	449.54	62.33	113.76	269.57
42692	64.07	7.26	-6.90	130.81	32.05	522.90	31.58	262.00	265.45	622.98	16.73	434.59	80.31	117.50	265.27
42693	62.09	3.96	-6.90	191.58	40.15	516.47	21.83	235.64	264.88	862.71	70.83	482.54	25.18	130.37	267.31
42694	62.31	5.08	-6.90	183.01	39.13	516.16	25.16	235.68	261.29	831.22	53.63	467.86	36.93	130.97	264.35
42695	62.59	6.18	-6.90	170.76	38.61	516.14	28.63	235.51	257.30	784.24	35.28	452.23	56.81	134.16	260.58
42696	62.92	7.26	-6.90	154.34	39.39	515.68	31.04	234.94	253.86	716.28	23.12	436.39	82.66	139.44	257.08
42697	60.88	3.96	-6.90	218.66	53.56	491.51	13.51	202.72	248.79	943.58	143.98	434.04	16.29	153.78	255.92
42698	61.12	5.08	-6.90	210.02	51.62	491.34	18.51	203.30	245.85	917.85	120.76	423.41	26.71	152.79	255.30
42699	61.41	6.18	-6.90	198.08	49.49	492.17	24.67	203.93	242.13	880.35	88.07	413.56	47.74	155.54	252.98
42700	61.77	7.26	-6.90	180.62	48.23	492.86	30.76	204.51	239.21	817.21	57.10	404.83	82.81	162.22	250.87
42701	59.67	3.96	-6.90	242.											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
42729	70.57	3.96	-8.30	96.51	29.59	404.48	49.22	388.04	327.32	544.36	128.33	305.57	68.43	91.10	329.26
42730	70.68	5.06	-8.30	93.30	28.53	414.14	47.43	384.68	323.23	520.83	121.97	319.85	75.30	95.41	326.18
42731	70.81	6.16	-8.30	89.47	27.36	425.27	45.07	380.23	318.41	492.35	114.05	336.18	81.15	100.42	322.36
42732	70.97	7.26	-8.30	85.16	26.28	437.39	42.23	374.53	313.27	459.82	104.83	354.00	85.31	105.74	318.01
42733	69.36	3.96	-8.30	106.90	28.43	434.69	52.18	381.67	326.66	594.14	126.23	313.98	73.70	95.64	328.45
42734	69.48	5.07	-8.30	102.79	27.41	443.28	50.42	378.29	322.71	567.12	120.02	326.97	82.01	99.56	325.45
42735	69.64	6.17	-8.30	97.92	26.37	453.14	48.03	373.86	317.92	534.15	112.00	341.88	89.34	104.12	321.60
42736	69.82	7.26	-8.30	92.47	25.56	463.75	45.04	368.25	312.67	496.29	102.41	358.15	94.78	109.00	317.09
42737	68.15	3.96	-8.30	118.58	26.89	465.57	53.55	373.18	325.47	654.27	120.70	331.30	77.23	107.11	326.91
42738	68.29	5.07	-8.30	113.40	25.99	472.90	51.98	369.78	321.69	623.43	115.26	341.60	87.34	110.26	323.90
42739	68.46	6.17	-8.30	107.23	25.21	481.30	49.73	365.35	316.97	585.29	107.73	353.65	96.66	113.87	319.97
42740	68.67	7.26	-8.30	100.34	24.87	490.21	46.81	359.81	311.66	541.03	98.24	366.96	103.95	117.67	315.27
42741	66.94	3.96	-8.30	132.20	25.20	495.99	53.18	362.05	323.38	726.83	110.41	358.97	78.50	126.57	324.29
42742	67.09	5.07	-8.30	125.83	24.47	501.78	51.99	358.68	319.77	691.96	106.66	365.03	90.81	128.58	321.18
42743	67.29	6.17	-8.30	118.11	24.09	508.41	50.12	354.31	315.17	647.93	100.51	372.50	102.84	130.75	317.09
42744	67.52	7.26	-8.30	109.42	24.38	515.32	47.50	348.87	309.85	596.01	91.85	381.14	112.80	132.79	312.18
42745	65.72	3.96	-8.30	148.72	23.93	524.54	50.98	347.51	319.94	814.14	93.58	396.17	76.85	153.95	320.25
42746	65.90	5.07	-8.30	141.09	23.37	528.47	50.40	344.36	316.47	775.33	92.84	396.65	91.82	154.61	316.96
42747	66.11	6.17	-8.30	131.59	23.40	532.94	49.19	340.22	312.02	724.84	89.43	397.95	107.50	155.08	312.69
42748	66.37	7.26	-8.30	120.67	24.43	537.44	47.21	335.05	306.81	663.77	82.73	400.22	121.37	155.00	307.62
42749	64.51	3.96	-8.30	169.46	24.23	549.29	46.83	328.45	314.72	918.62	68.20	438.77	71.48	186.99	314.62
42750	64.70	5.07	-8.30	160.52	23.60	551.09	47.21	325.83	311.32	876.55	72.05	433.01	89.49	186.49	311.15
42751	64.94	6.17	-8.30	149.00	23.85	553.06	47.07	322.30	307.01	819.43	73.29	427.19	110.06	185.60	306.77
42752	65.22	7.26	-8.30	135.33	25.42	554.76	46.14	317.77	302.03	747.76	70.36	421.95	129.63	183.71	301.71
42753	63.30	3.96	-8.30	196.01	27.56	567.37	40.55	303.25	307.30	1041.88	35.73	478.00	61.54	220.55	307.41
42754	63.51	5.08	-8.30	185.78	26.42	567.03	42.37	301.63	303.88	998.23	43.47	466.53	82.68	219.64	303.99
42755	63.76	6.18	-8.30	172.03	26.28	566.42	43.91	299.28	299.69	935.40	50.97	453.98	109.50	218.59	299.76
42756	64.07	7.26	-8.30	155.00	27.80	565.20	44.65	296.01	295.02	852.11	54.11	441.43	137.20	216.38	295.05
42757	62.09	3.96	-8.30	229.95	35.11	574.55	31.85	270.03	297.26	1182.37	48.06	498.38	46.90	246.08	299.07
42758	62.31	5.08	-8.30	218.58	32.93	572.51	35.74	269.92	293.83	1140.30	32.86	483.63	70.16	246.05	296.35
42759	62.59	6.18	-8.30	202.63	31.47	569.83	39.78	269.43	289.72	1075.24	28.79	467.10	104.09	247.07	292.84
42760	62.92	7.26	-8.30	181.66	31.93	566.16	43.19	268.25	285.41	981.18	35.38	450.00	143.39	247.54	289.04
42761	60.88	3.96	-8.30	272.37	47.46	564.88	20.84	228.03	284.01	1331.74	125.59	476.55	30.15	251.62	290.83
42762	61.12	5.08	-8.30	260.03	44.15	562.25	27.27	229.74	280.82	1295.40	95.13	463.65	51.97	253.88	290.22
42763	61.41	6.18	-8.30	242.50	40.37	558.86	34.59	231.56	276.88	1236.69	58.16	449.44	90.73	260.29	288.42
42764	61.77	7.26	-8.30	217.71	38.25	554.20	42.12	233.21	272.95	1138.58	33.65	434.57	145.57	268.36	286.43
42765	59.67	3.96	-8.30	323.54	64.78	530.41	13.89	182.08	266.43	1471.61	235.11	389.16	24.53	225.83	285.38
42766	59.92	5.08	-8.30	309.55	61.49	529.10	19.33	184.96	264.30	1441.16	203.20	386.00	34.52	230.28	289.41
42767	60.24	6.18	-8.30	292.04	55.00	527.51	28.31	188.18	260.92	1404.78	142.98	383.77	65.62	245.39	290.62
42768	60.62	7.26	-8.30	265.55	48.10	524.71	41.00	191.93	257.45	1323.69	78.05	381.97	136.39	268.00	291.74
42769	58.63	3.96	-2.70	120.80	144.53	207.01	87.27	132.27	157.32	961.80	158.89	374.57	80.02	509.56	187.78
42770	58.89	5.08	-2.70	106.31	147.25	132.27	58.92	91.12	118.53	1126.91	175.75	408.56	71.61	454.44	126.86
42771	59.21	6.18	-2.70	116.46	153.16	139.80	67.46	91.37	112.22	1139.31	232.98	371.06	88.04	418.64	112.59
42772	59.59	7.26	-2.70	131.34	153.20	199.27	101.59	116.79	114.06	978.07	297.09	287.56	183.99	391.08	115.03
42773	57.78	3.96	-2.70	149.82	155.00	177.79	96.72	120.37	145.54	793.27	283.71	166.00	109.84	403.02	178.15
42774	58.03	5.08	-2.70	123.12	155.99	43.27	40.26	51.66	74.69	843.64	207.03	53.18	29.17	234.90	82.66
42775	58.33	6.18	-2.70	136.74	154.44	47.26	16.94	51.08	67.97	900.42	250.59	45.32	35.98	230.11	73.06
42776	58.70	7.26	-2.70	160.05	139.33	135.48	83.03	105.86	96.48	904.91	362.23	117.19	134.13	335.01	111.28
42777	56.92	3.96	-2.70	177.17	149.24	183.60	124.22	125.52	150.04	680.60	403.44	290.00	120.90	428.24	265.22
42778	57.16	5.08	-2.70	112.34	157.43	31.42	77.70	40.84	73.60	600.49	166.77	42.86	67.19	177.05	93.60
42779	57.46	6.18	-2.70	126.48	159.93	31.94	56.11	39.38	67.28	664.13	181.46	58.16	126.89	189.99	86.72
42780	57.81	7.26	-2.70	175.82	143.67	126.74	81.74	110.70	105.87	812.51	421.27	269.45	82.54	374.11	178.13
42781	56.07	3.96	-2.70	217.93	155.74	196.04	160.67	141.05	169.97	581.02	564.95	505.99	151.59	524.10	489.11
42782	56.30	5.07	-2.70	88.85	156.84	29.14	101.74	31.78	81.24	340.08	123.26	98.50	115.03	133.68	168.40
42783	56.58	6.18	-2.70	85.17	178.51	28.46	91.30	20.10	79.76	349.26	101.16	119.17	183.70	148.38	168.61
42784	56.92	7.26	-2.70	195.41	150.60	136.08	114.49	115.77	134.36	637.45	399.15	485.11	251.71	477.47	387.44
42785	55.21	3.96	-2.70	270.87	349.74	253.48	243.14	162.68	243.39	423.73	771.33	870.84	234.67	739.68	1202.40
42786	55.43	5.07	-2.70	21.49	159.55	24.59	52.49	18.93	72.04	92.66	203.22	212.54	46.84	47.09	287.82
42787	55.70	6.17	-2.70	25.67	172.69	20.40	33.13	23.72	67.86	49.13	153.25	214.75	100.83	72.53	118.97
42788	56.03	7.26	-2.70	231.15	372.47	188.88	191.25	108.63	215.30	441.69	540.06	828.52	426.49	511.25	1171.36
42789	58.63	3.96	-4.10	83.55	99.66	252.67	14.88	147.65	153.83	39.87	229.09	254.08	10.98	352.84	175.29
42790	58.89	5.08	-4.10	84.63	106.54	227.39	17.18	132.36	161.96	53.57	263.35	256.09	7.16	302.42	176.77
42791	59.21	6.18	-4.10	92.39	110.29	234.03	21.26	131.47	148.33	67.35	261.59	236.78	39.37	278.74	154.15
42792	59.59	7.26	-4.10	97.31	107.53	276.80	36.78	141.64	128.53	65.57	220.71	233.86	63.53	271.76	137.75
42793	57.78	3.96	-4.10	70.79	105.41	205.94	24.21	139.32	137.70	118.48	269.40	162.09	36.21	480.04	171.67
42794	58.03	5.08	-4.10	62.87	110.31	165.61	32.93	114.09	152.73	148.39	309.18	119.18	47.12	417.32	167.67
42795	58.33	6.18	-4.10	73.43	118.09	165.64	24.81	113.29	137.25	162.97	311.58	113.28	16.99	402.87	136.78
42796	58.70	7.26	-4.10	87.48	124.35	215.45	30.76	132.59	110.47	135.07	267.48	183.26	32.16	404.48	114.21
42797	56.92	3.96	-4.10	74.46	111.20	177.48	35.92	134.43	128.08	111.09	321.42	336.74	65.59	562.66	223.89
42798	57.16	5.08	-4.10	54.13	113.39	127.61	54.81								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
42827	55.70	6.17	-5.50	17.57	95.83	144.29	32.78	30.79	122.74	42.69	385.96	715.23	114.19	185.29	131.54
42828	56.03	7.26	-5.50	128.15	138.95	137.18	90.55	97.64	177.30	203.24	365.82	847.85	90.89	686.09	697.20
42829	58.63	3.96	-6.90	256.91	82.57	378.28	24.73	167.44	207.67	968.20	313.40	243.94	61.25	218.26	235.76
42830	58.89	5.08	-6.90	243.35	84.09	380.83	23.12	163.93	208.58	936.97	314.84	250.74	45.41	209.61	244.88
42831	59.21	6.18	-6.90	238.60	81.08	387.75	18.63	161.11	206.03	952.66	266.45	263.62	24.51	209.45	250.51
42832	59.59	7.26	-6.90	233.32	72.79	397.47	27.12	157.61	203.10	973.31	177.15	278.65	57.24	215.66	259.25
42833	57.78	3.96	-6.90	262.01	91.98	307.83	40.63	174.28	186.42	903.05	364.99	371.88	127.52	265.96	231.07
42834	58.03	5.08	-6.90	236.10	100.21	310.25	39.80	167.04	190.52	826.81	409.47	367.68	100.95	249.00	241.02
42835	58.33	6.18	-6.90	235.04	101.64	319.35	25.06	163.03	189.14	861.13	382.26	372.22	28.28	252.58	247.86
42836	58.70	7.26	-6.90	248.83	90.64	334.21	20.69	158.28	184.97	971.97	268.18	369.75	22.87	264.19	272.68
42837	56.92	3.96	-6.90	259.44	98.09	225.07	64.00	184.46	161.29	811.31	388.82	614.35	231.88	351.54	242.05
42838	57.16	5.08	-6.90	202.60	114.63	226.17	64.08	169.58	169.52	628.19	486.79	590.58	200.76	303.04	236.39
42839	57.46	6.18	-6.90	199.83	125.17	236.31	40.65	167.37	171.17	647.92	509.69	598.00	56.07	320.23	219.72
42840	57.81	7.26	-6.90	247.65	117.66	256.07	17.01	171.04	165.00	885.59	402.14	604.89	44.44	364.56	266.20
42841	56.07	3.96	-6.90	247.63	104.56	140.69	103.60	179.06	139.32	728.94	401.52	826.73	369.82	507.19	333.93
42842	56.30	5.07	-6.90	125.43	124.74	139.74	87.13	140.14	146.28	349.81	524.79	746.14	304.59	344.32	272.45
42843	56.58	6.18	-6.90	111.11	132.23	149.21	54.43	138.70	152.73	307.31	553.67	759.19	108.29	372.27	157.23
42844	56.92	7.26	-6.90	213.24	145.97	168.92	41.82	171.97	147.96	689.62	540.82	846.24	111.28	551.39	168.80
42845	55.21	3.96	-6.90	204.65	193.84	108.74	162.98	124.93	176.14	648.77	711.15	955.16	520.93	711.85	871.36
42846	55.43	5.07	-6.90	34.11	102.91	152.52	36.73	24.56	127.61	40.15	431.90	667.87	150.86	251.46	393.54
42847	55.70	6.17	-6.90	36.43	86.97	158.67	39.79	29.21	124.19	35.84	351.93	664.60	130.66	194.49	157.58
42848	56.03	7.26	-6.90	136.51	129.24	142.58	88.81	95.35	180.65	425.65	440.48	897.32	169.73	647.68	541.56
42849	58.63	3.96	-8.30	374.15	82.51	476.61	25.77	154.82	246.82	1565.43	343.52	298.76	51.36	182.71	286.78
42850	58.89	5.08	-8.30	356.61	82.13	477.55	23.12	156.39	246.72	1527.64	332.94	305.00	37.37	183.81	296.92
42851	59.21	6.18	-8.30	341.49	74.97	479.27	23.67	156.93	244.34	1528.34	263.50	313.74	34.82	204.08	300.81
42852	59.59	7.26	-8.30	319.12	62.14	480.46	38.45	157.65	241.10	1502.36	155.08	323.13	106.56	242.56	306.40
42853	57.78	3.96	-8.30	420.20	98.05	405.44	44.76	159.43	224.24	1601.27	428.24	371.17	117.77	163.68	296.25
42854	58.03	5.08	-8.30	394.39	104.00	408.41	40.27	159.09	227.60	1521.43	468.57	369.50	81.84	157.05	310.53
42855	58.33	6.18	-8.30	382.29	100.96	414.01	27.41	154.16	227.12	1557.61	419.37	371.34	27.04	166.49	312.26
42856	58.70	7.26	-8.30	373.40	83.61	420.80	32.88	145.17	223.97	1639.64	271.43	365.20	52.89	209.05	325.66
42857	56.92	3.96	-8.30	468.85	113.27	305.17	69.71	194.22	192.10	1581.17	481.92	672.58	246.52	194.33	319.39
42858	57.16	5.08	-8.30	423.69	125.88	309.71	67.31	195.09	201.18	1389.35	594.61	644.24	195.02	201.01	326.97
42859	57.46	6.18	-8.30	410.98	132.68	320.23	45.74	187.62	205.39	1433.36	610.76	640.76	45.82	186.57	304.52
42860	57.81	7.26	-8.30	427.27	120.16	335.11	27.04	168.61	202.58	1692.30	463.64	626.71	52.89	203.85	329.80
42861	56.07	3.96	-8.30	512.24	132.87	171.96	105.36	243.82	145.85	1473.85	498.53	1049.42	456.23	261.62	369.71
42862	56.30	5.07	-8.30	428.98	145.45	175.46	95.58	249.90	159.63	1070.88	654.40	948.80	360.73	270.91	334.98
42863	56.58	6.18	-8.30	410.31	149.80	191.97	71.37	243.87	173.85	1070.76	713.97	949.96	126.96	256.86	227.24
42864	56.92	7.26	-8.30	463.58	164.71	216.68	40.46	225.06	175.28	1551.88	699.82	1019.45	127.65	275.80	237.27
42865	55.21	3.96	-8.30	517.51	220.96	70.65	165.16	280.04	144.79	1188.28	717.11	1253.88	688.28	483.45	603.98
42866	55.43	5.07	-8.30	373.17	149.35	92.45	78.49	276.17	116.84	546.18	487.27	869.13	300.17	282.84	228.05
42867	55.70	6.17	-8.30	368.53	133.84	78.67	81.00	263.35	116.18	567.65	461.70	825.25	267.54	288.97	116.35
42868	56.03	7.26	-8.30	443.09	165.22	70.01	68.19	252.41	153.12	1144.48	656.21	1137.52	127.22	398.95	381.82
42869	79.01	8.10	-2.70	35.11	14.57	269.65	7.22	316.27	256.59	51.33	23.67	327.21	22.97	73.09	258.08
42870	80.14	8.10	-2.70	35.84	16.00	273.21	7.55	314.43	259.04	46.55	25.44	327.76	21.11	77.72	260.31
42871	81.27	8.10	-2.70	36.99	17.97	280.33	9.28	310.88	261.20	44.47	27.25	327.03	20.31	81.12	262.23
42872	82.40	8.10	-2.70	38.50	20.34	290.54	11.96	305.58	263.01	44.71	29.12	325.06	20.59	83.23	263.79
42873	83.53	8.10	-2.70	40.36	23.04	303.21	15.18	298.49	264.44	46.90	31.05	321.86	21.86	84.06	264.94
42874	84.66	8.10	-2.70	42.58	26.04	317.64	18.74	289.59	265.43	50.77	33.07	317.43	23.92	83.65	265.63
42875	85.79	8.10	-2.70	45.20	29.33	333.10	22.55	278.83	265.91	56.24	35.23	311.78	26.59	82.14	265.79
42876	86.92	8.10	-2.70	48.25	32.94	348.82	26.61	266.26	265.82	63.35	37.59	304.97	29.74	79.83	265.36
42877	88.05	8.10	-2.70	51.80	36.92	364.09	30.98	251.95	265.09	72.19	40.25	297.29	33.33	77.20	264.27
42878	89.18	8.10	-2.70	55.89	41.38	378.24	35.77	236.05	263.65	82.90	43.36	289.35	37.40	75.02	262.45
42879	90.30	8.10	-2.70	60.65	46.47	390.65	41.23	218.84	261.45	95.73	47.15	282.38	42.15	74.34	259.88
42880	91.43	8.10	-2.70	66.39	52.42	400.87	47.75	200.82	258.42	111.20	51.98	278.64	47.96	76.46	256.53
42881	92.56	8.10	-2.70	73.77	59.75	408.74	56.04	182.73	254.47	130.41	58.52	282.04	55.55	82.48	252.37
42882	93.69	8.10	-2.70	84.38	69.75	414.43	67.33	165.79	249.42	155.65	68.07	298.68	66.20	92.84	247.34
42883	94.82	8.10	-2.70	101.80	85.34	421.38	84.36	151.90	242.03	192.02	83.86	341.72	82.78	107.12	240.43
42884	95.95	8.10	-2.70	137.28	115.35	393.91	118.72	153.10	217.08	254.94	110.69	390.78	116.75	141.26	217.01
42885	79.01	8.70	-2.70	36.56	15.36	279.81	8.23	312.96	251.93	52.91	23.36	336.22	24.11	73.05	253.51
42886	80.12	8.70	-2.70	37.59	16.80	283.04	8.35	311.22	254.27	48.81	25.13	336.55	22.12	77.32	255.62
42887	81.23	8.70	-2.70	39.01	18.80	289.56	9.72	307.81	256.30	47.22	26.98	335.65	21.11	80.45	257.40
42888	82.34	8.70	-2.70	40.79	21.23	298.96	12.04	302.71	258.01	47.78	28.91	333.53	21.13	82.42	258.83
42889	83.45	8.70	-2.70	42.90	24.01	310.70	14.97	295.87	259.34	50.16	30.92	330.20	22.10	83.23	259.83
42890	84.56	8.70	-2.70	45.36	27.10	324.13	18.32	287.28	260.25	54.13	33.03	325.65	23.87	82.96	260.43
42891	85.67	8.70	-2.70	48.20	30.49	338.56	21.97	276.92	260.68	59.62	35.28	319.88	26.28	81.75	260.51
42892	86.79	8.70	-2.70	51.46	34.21	353.29	25.92	264.83	260.59	66.68	37.76	312.98	29.22	79.92	260.02
42893	87.90	8.70	-2.70	55.20	38.32	367.65	30.21	251.10	259.91	75.39	40.55	305.18	32.63	77.96	258.93
42894	89.01	8.70	-2.70	59.51	42.91	380.99	34.94	235.92	258.57	85.94	43.82	297.06	36.54	76.60	257.17
42895	90.12	8.70	-2.70	64.42	48.19	392.76	40.34	219.53	256.53	98.50	47.81	289.79	41.14	76.75	254.73
42896	91.23	8.70	-2.70	70.34	54.40	402.56	46.82	202.40	253.77						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
42925	87.90	8.70	-4.10	51.38	31.40	403.12	29.65	269.71	271.21	49.50	40.43	333.10	32.85	97.80	270.61
42926	89.01	8.70	-4.10	55.40	35.56	418.28	33.53	253.78	268.67	56.38	40.81	325.38	36.29	93.24	267.68
42927	90.12	8.70	-4.10	60.01	40.28	431.30	37.64	236.16	264.93	65.87	41.20	317.32	39.87	88.08	263.57
42928	91.23	8.70	-4.10	65.46	45.70	441.26	42.28	217.19	259.72	77.62	41.68	310.31	43.84	83.06	258.03
42929	92.34	8.70	-4.10	71.95	52.08	446.99	47.74	197.59	252.40	90.90	42.08	306.80	48.51	79.04	250.55
42930	93.45	8.70	-4.10	79.80	60.12	446.45	54.70	178.53	241.78	104.46	42.28	310.48	54.77	76.94	240.12
42931	94.56	8.70	-4.10	88.91	70.39	430.74	63.15	163.99	225.09	115.12	41.18	320.17	63.02	81.13	224.47
42932	95.68	8.70	-4.10	93.17	80.09	374.80	70.79	157.23	199.53	116.52	34.85	308.72	70.75	108.46	201.73
42933	79.01	8.10	-5.50	31.52	8.31	314.59	3.08	352.98	287.58	122.07	52.83	358.21	0.78	106.15	289.65
42934	80.14	8.10	-5.50	34.02	9.69	318.84	5.79	351.20	289.33	119.80	52.60	360.55	5.06	114.39	291.03
42935	81.27	8.10	-5.50	36.63	11.27	327.45	9.89	348.07	290.89	116.49	52.07	362.11	9.76	121.52	292.25
42936	82.40	8.10	-5.50	39.16	13.05	339.93	14.26	343.52	292.19	112.00	51.30	362.89	14.51	127.30	293.24
42937	83.53	8.10	-5.50	41.46	15.01	355.62	18.65	337.43	293.15	106.26	50.31	362.84	19.20	131.49	293.93
42938	84.66	8.10	-5.50	43.45	17.19	373.73	22.95	329.64	293.67	99.33	49.10	361.83	23.75	133.89	294.21
42939	85.79	8.10	-5.50	45.14	19.62	393.40	27.07	320.02	293.63	91.40	47.69	359.71	28.07	134.31	293.95
42940	86.92	8.10	-5.50	46.68	22.35	413.68	30.96	308.43	292.88	82.88	46.06	356.27	32.09	132.61	292.97
42941	88.05	8.10	-5.50	48.31	25.45	433.55	34.58	294.80	291.21	74.43	44.19	351.36	35.74	128.68	291.08
42942	89.18	8.10	-5.50	50.35	29.00	451.88	37.91	279.11	288.38	67.07	42.00	344.92	38.98	122.46	288.03
42943	90.30	8.10	-5.50	53.18	33.13	467.39	41.01	261.47	284.09	62.10	39.46	337.15	41.83	113.90	283.53
42944	91.43	8.10	-5.50	57.17	37.94	478.43	43.96	242.21	277.92	60.64	36.41	328.63	44.37	103.07	277.23
42945	92.56	8.10	-5.50	62.41	43.61	482.57	46.88	221.96	269.28	62.61	32.54	320.40	46.82	90.21	268.62
42946	93.69	8.10	-5.50	68.35	50.24	475.25	49.74	202.02	257.29	66.17	27.47	313.01	49.42	77.55	257.05
42947	94.82	8.10	-5.50	72.11	57.43	448.27	51.82	183.46	241.23	67.55	21.40	303.02	51.72	75.08	242.07
42948	95.95	8.10	-5.50	68.42	64.12	395.32	52.59	163.21	221.19	63.23	16.90	283.08	52.44	94.26	223.45
42949	79.01	8.70	-5.50	31.82	8.15	326.35	2.93	348.97	283.57	117.94	51.32	369.09	1.05	106.05	285.77
42950	80.12	8.70	-5.50	34.37	9.67	330.29	5.48	347.27	285.22	115.88	51.29	371.22	4.95	113.75	287.06
42951	81.23	8.70	-5.50	37.08	11.49	338.31	9.32	344.24	286.64	112.83	51.00	372.59	9.39	120.39	288.12
42952	82.34	8.70	-5.50	39.75	13.51	349.98	13.42	339.81	287.77	108.64	50.46	373.19	13.90	125.74	288.93
42953	83.45	8.70	-5.50	42.25	15.73	364.69	17.57	333.86	288.56	103.29	49.68	372.96	18.37	129.60	289.42
42954	84.56	8.70	-5.50	44.51	18.14	381.72	21.64	326.25	288.90	96.84	48.66	371.78	22.72	131.77	289.49
42955	85.67	8.70	-5.50	46.56	20.78	400.26	25.58	316.86	288.69	89.53	47.40	369.46	26.87	132.07	289.02
42956	86.79	8.70	-5.50	48.53	23.69	419.38	29.31	305.56	287.78	81.78	45.88	365.82	30.74	130.36	287.86
42957	87.90	8.70	-5.50	50.68	26.93	438.08	32.82	292.28	286.00	74.30	44.08	360.67	34.27	126.56	285.84
42958	89.01	8.70	-5.50	53.30	30.55	455.26	36.05	277.07	283.11	68.10	41.89	353.95	37.39	120.65	282.70
42959	90.12	8.70	-5.50	56.60	34.73	469.64	39.07	260.02	278.84	64.34	39.28	345.80	40.13	112.55	278.21
42960	91.23	8.70	-5.50	60.93	39.51	479.62	42.01	241.47	272.86	63.91	36.15	336.72	42.61	102.41	272.09
42961	92.34	8.70	-5.50	66.37	45.07	482.82	44.88	222.13	264.59	66.56	32.20	327.52	44.94	90.58	263.86
42962	93.45	8.70	-5.50	72.18	51.50	474.68	47.85	202.96	253.22	70.35	27.02	318.45	47.57	78.76	252.97
42963	94.56	8.70	-5.50	75.56	58.22	447.36	50.15	185.16	238.13	71.72	21.08	306.02	50.06	76.33	239.08
42964	95.68	8.70	-5.50	71.77	64.07	395.35	51.59	165.43	219.26	67.36	16.92	283.93	51.38	93.13	221.74
42965	79.01	8.10	-6.90	40.50	17.03	335.11	8.07	368.15	302.52	216.47	71.41	372.11	11.98	130.57	304.56
42966	80.14	8.10	-6.90	43.52	17.43	339.64	10.24	366.66	304.06	209.73	69.71	374.87	10.12	139.96	305.69
42967	81.27	8.10	-6.90	47.09	17.87	348.81	14.35	364.19	305.55	202.56	67.67	377.19	12.16	148.54	306.82
42968	82.40	8.10	-6.90	50.73	18.40	362.18	19.18	360.65	306.91	194.65	65.32	379.07	16.58	155.94	307.89
42969	83.53	8.10	-6.90	54.01	19.05	379.10	24.17	355.88	308.08	185.82	62.70	380.42	21.75	161.85	308.81
42970	84.66	8.10	-6.90	56.61	19.87	398.80	29.07	349.71	308.94	175.95	59.81	381.11	26.98	165.94	309.47
42971	85.79	8.10	-6.90	58.31	20.92	420.42	33.72	341.92	309.36	165.02	56.67	380.93	31.96	167.88	309.74
42972	86.92	8.10	-6.90	59.05	22.30	442.92	37.97	332.32	309.16	153.16	53.28	379.58	36.49	167.35	309.41
42973	88.05	8.10	-6.90	58.91	24.08	465.14	41.72	320.75	308.11	140.63	49.63	376.71	40.42	164.02	308.25
42974	89.18	8.10	-6.90	58.17	26.38	485.68	44.86	307.14	305.92	127.85	45.73	371.94	43.63	157.57	305.97
42975	90.30	8.10	-6.90	57.30	29.35	502.92	47.34	291.51	302.25	115.37	41.62	364.97	46.06	147.63	302.24
42976	91.43	8.10	-6.90	56.94	33.06	514.76	49.07	273.94	296.72	103.73	37.38	355.55	47.68	133.81	296.72
42977	92.56	8.10	-6.90	57.63	37.62	518.30	49.94	254.48	288.84	93.18	33.23	343.42	48.52	115.80	289.01
42978	93.69	8.10	-6.90	59.21	42.92	509.42	49.73	232.92	278.18	83.21	29.71	328.00	48.64	95.16	278.77
42979	94.82	8.10	-6.90	60.08	48.74	483.80	48.17	208.42	264.47	72.23	28.01	308.42	47.95	79.36	265.71
42980	95.95	8.10	-6.90	58.41	55.30	438.70	45.55	179.76	247.72	59.53	29.29	284.78	46.28	80.53	249.46
42981	79.01	8.70	-6.90	39.85	16.81	347.21	8.41	363.89	299.31	210.04	69.61	383.47	12.20	130.20	301.47
42982	80.12	8.70	-6.90	42.87	17.29	351.46	10.38	362.49	300.76	203.82	68.21	386.07	9.98	139.03	302.51
42983	81.23	8.70	-6.90	46.45	17.90	360.07	14.11	360.10	302.09	197.13	66.53	388.23	11.51	147.08	303.48
42984	82.34	8.70	-6.90	50.11	18.65	372.66	18.56	356.65	303.28	189.68	64.52	389.94	15.55	154.00	304.35
42985	83.45	8.70	-6.90	53.45	19.54	388.64	23.23	352.00	304.23	181.31	62.21	391.13	20.45	159.51	305.05
42986	84.56	8.70	-6.90	56.17	20.64	407.30	27.84	345.96	304.87	171.92	59.61	391.64	25.47	163.29	305.47
42987	85.67	8.70	-6.90	58.07	21.99	427.78	32.25	338.35	305.05	161.51	56.72	391.25	30.28	165.00	305.48
42988	86.79	8.70	-6.90	59.10	23.64	449.10	36.32	328.95	304.63	150.21	53.54	389.66	34.69	164.32	304.91
42989	87.90	8.70	-6.90	59.40	25.68	470.07	39.96	317.62	303.38	138.31	50.07	386.50	38.55	160.95	303.54
42990	89.01	8.70	-6.90	59.28	28.16	489.32	43.03	304.32	301.05	126.26	46.26	381.38	41.72	154.61	301.11
42991	90.12	8.70	-6.90	59.09	31.24	505.19	45.51	289.07	297.32	114.62	42.20	373.94	44.17	144.92	297.32
42992	91.23	8.70	-6.90	59.44	34.93	515.66	47.35	272.03	291.91	103.96	38.02	363.91	45.91	131.64	291.92
42993	92.34	8.70	-6.90	60.68	39.37	517.89	48.32	253.36	284.34	94.40	33.96	350.95	46.85	114.71	284.53
42994	93.45	8.70	-6.90	62.28	44.35	508.01	48.38	232.55	274.14	85.17	30.49	334.43	47.30	95.26	274.80
42995	94.56	8.70	-6.90	62.86	49.63	482.18	47.22	209.26	261.11	7					



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
43023	90.12	8.70	-8.30	79.30	29.78	537.45	56.27	320.62	318.20	187.63	45.72	401.59	53.10	184.35	318.47
43024	91.23	8.70	-8.30	74.56	31.25	550.01	57.58	305.89	314.26	170.85	40.91	392.77	54.70	170.56	314.63
43025	92.34	8.70	-8.30	68.64	33.47	554.65	57.52	288.62	308.19	152.51	37.01	379.84	55.16	152.51	308.75
43026	93.45	8.70	-8.30	61.88	36.50	548.79	56.04	267.43	299.56	131.57	34.69	362.16	54.73	130.20	300.43
43027	94.56	8.70	-8.30	55.58	40.59	529.66	52.99	241.60	288.37	108.17	34.87	339.29	53.35	107.20	289.55
43028	95.68	8.70	-8.30	50.77	46.02	494.30	48.51	209.76	274.72	82.99	37.93	311.88	50.91	89.40	275.91
43029	96.97	8.10	-2.70	177.91	147.44	230.07	158.93	169.29	150.44	357.19	128.04	264.94	156.52	223.85	159.89
43030	97.87	8.10	-2.70	104.32	113.97	64.07	102.04	59.91	65.55	216.07	42.97	71.18	96.10	102.35	70.84
43031	98.78	8.10	-2.70	72.95	109.36	32.98	70.13	22.82	41.81	124.77	22.84	39.58	60.12	55.17	42.33
43032	99.68	8.10	-2.70	48.70	110.24	18.23	53.21	17.73	31.81	61.04	36.72	26.48	36.34	30.14	31.85
43033	100.59	8.10	-2.70	25.03	112.80	11.77	44.52	14.76	25.35	17.35	45.90	13.36	19.60	15.34	31.75
43034	96.69	8.70	-2.70	183.89	154.28	231.36	153.83	168.61	152.48	355.28	134.68	259.34	150.86	215.10	162.27
43035	97.61	8.70	-2.70	110.15	114.50	64.83	101.18	60.59	65.89	218.31	46.23	70.49	94.26	99.24	71.56
43036	98.52	8.70	-2.70	77.81	108.31	33.23	71.45	23.73	41.56	128.44	22.29	39.02	60.17	54.34	42.11
43037	99.44	8.70	-2.70	52.78	109.06	18.33	55.97	18.53	31.63	64.38	35.29	26.08	37.66	30.83	31.63
43038	100.36	8.70	-2.70	28.71	112.51	11.81	47.63	15.76	25.20	19.29	44.95	13.21	21.18	17.09	32.21
43039	96.97	8.10	-4.10	73.76	82.20	284.23	72.90	142.34	172.19	98.23	19.82	263.29	70.34	147.61	177.12
43040	97.87	8.10	-4.10	64.42	84.75	189.71	77.19	112.36	142.66	112.95	11.99	191.59	70.40	157.70	147.85
43041	98.78	8.10	-4.10	46.83	92.09	112.21	65.48	65.88	112.07	86.47	14.09	127.15	55.61	120.42	113.21
43042	99.68	8.10	-4.10	31.02	101.02	67.12	52.62	41.35	92.42	49.63	33.45	97.79	39.20	83.48	92.44
43043	100.59	8.10	-4.10	19.19	109.98	41.60	43.44	32.28	80.06	15.33	50.05	70.96	25.62	49.48	86.55
43044	96.69	8.70	-4.10	78.64	81.95	285.42	72.00	143.73	172.11	102.56	20.75	259.75	68.91	142.49	177.45
43045	97.61	8.70	-4.10	68.05	83.62	190.88	77.98	113.66	142.78	113.96	13.20	188.92	70.22	152.68	148.43
43046	98.52	8.70	-4.10	49.97	90.42	113.12	67.59	67.83	111.81	87.16	12.75	125.38	56.51	118.24	113.08
43047	99.44	8.70	-4.10	34.13	99.62	67.58	55.42	43.71	92.22	50.54	32.72	96.12	40.68	83.97	92.20
43048	100.36	8.70	-4.10	22.50	109.41	41.31	46.44	35.10	79.73	16.68	50.27	69.71	27.20	52.59	86.87
43049	96.97	8.10	-5.50	59.77	70.40	328.71	53.07	139.35	199.66	57.30	17.08	255.31	51.61	117.13	202.57
43050	97.87	8.10	-5.50	48.87	77.35	259.89	50.79	113.38	179.30	48.22	23.61	225.53	47.04	128.93	181.39
43051	98.78	8.10	-5.50	36.96	84.74	190.81	48.49	86.66	159.97	40.52	32.20	198.87	41.81	126.32	160.34
43052	99.68	8.10	-5.50	26.98	94.26	128.51	43.94	63.52	142.52	27.01	43.70	180.70	33.76	104.60	142.39
43053	100.59	8.10	-5.50	18.06	103.95	86.60	39.96	48.91	129.16	11.69	55.31	173.13	25.34	68.93	133.76
43054	96.69	8.70	-5.50	63.36	69.71	329.76	52.98	142.06	198.49	61.13	17.12	254.68	51.34	114.07	201.65
43055	97.61	8.70	-5.50	52.30	76.29	261.19	51.79	116.18	178.39	51.37	23.66	223.80	47.64	126.01	180.67
43056	98.52	8.70	-5.50	40.13	83.50	192.18	50.44	89.63	159.19	42.51	32.29	196.22	43.14	124.63	159.59
43057	99.44	8.70	-5.50	29.93	93.18	129.56	46.51	66.89	141.98	28.56	43.95	177.42	35.57	105.24	141.80
43058	100.36	8.70	-5.50	21.08	103.32	86.45	42.80	53.09	128.23	13.50	56.13	169.56	27.25	72.83	133.32
43059	96.97	8.10	-6.90	53.85	62.24	382.38	42.60	150.78	230.68	47.54	33.56	262.57	43.55	95.35	232.30
43060	97.87	8.10	-6.90	46.93	69.08	320.90	40.21	123.58	214.54	37.47	38.91	246.47	40.28	108.85	215.24
43061	98.78	8.10	-6.90	38.40	76.96	253.88	37.85	98.44	198.42	28.67	45.61	240.77	35.62	113.34	197.94
43062	99.68	8.10	-6.90	28.25	85.21	189.18	36.27	78.26	183.24	19.98	52.50	251.83	30.35	103.35	182.69
43063	100.59	8.10	-6.90	17.70	93.50	143.64	35.21	63.43	169.76	11.07	58.93	283.40	24.78	76.80	172.77
43064	96.69	8.70	-6.90	56.32	61.98	383.01	42.93	154.34	228.68	51.24	34.07	264.55	44.05	94.48	230.42
43065	97.61	8.70	-6.90	49.37	68.56	322.16	41.25	127.56	212.81	40.82	39.40	246.24	41.43	107.76	213.56
43066	98.52	8.70	-6.90	40.83	76.31	255.63	39.59	102.71	196.92	31.44	46.20	238.14	37.32	113.11	196.35
43067	99.44	8.70	-6.90	30.71	84.59	190.88	38.54	82.78	182.10	22.16	53.26	247.08	32.45	105.03	181.45
43068	100.36	8.70	-6.90	20.31	92.94	144.08	37.83	68.82	168.11	13.09	60.18	277.10	26.96	81.75	171.45
43069	96.97	8.10	-8.30	45.70	52.23	446.97	43.09	172.63	263.45	56.55	42.84	281.86	46.69	83.54	264.08
43070	97.87	8.10	-8.30	42.86	59.02	388.31	38.26	140.17	249.27	39.79	48.48	267.18	42.31	91.44	248.98
43071	98.78	8.10	-8.30	37.29	66.38	319.08	34.35	111.67	234.51	27.88	54.26	271.69	37.20	100.21	233.22
43072	99.68	8.10	-8.30	28.00	74.00	249.05	32.09	90.83	219.63	19.25	59.66	308.05	31.52	99.33	218.25
43073	100.59	8.10	-8.30	16.32	81.26	201.28	30.97	76.57	205.60	11.22	63.78	377.96	25.99	83.11	206.89
43074	96.69	8.70	-8.30	47.86	52.29	446.68	43.77	176.64	260.51	60.60	43.01	286.19	47.81	85.68	261.18
43075	97.61	8.70	-8.30	44.70	58.91	389.19	39.40	145.12	246.56	43.57	48.67	268.93	43.96	92.92	246.21
43076	98.52	8.70	-8.30	39.10	66.12	321.14	35.99	117.17	232.05	30.97	54.63	269.74	39.29	101.85	230.57
43077	99.44	8.70	-8.30	29.95	73.78	251.59	34.16	96.56	217.60	21.58	60.30	302.13	33.92	102.40	216.02
43078	100.36	8.70	-8.30	18.50	80.85	202.57	33.43	83.02	203.01	13.30	65.04	368.89	28.35	89.04	204.49
43079	60.95	8.10	-2.70	112.98	123.62	358.39	64.17	165.47	130.27	569.10	171.36	429.27	157.67	238.06	197.60
43080	62.08	8.10	-2.70	95.12	99.03	391.93	44.37	177.70	175.17	410.76	103.89	476.85	112.19	147.50	242.11
43081	63.21	8.10	-2.70	85.27	78.12	403.05	33.24	191.00	193.63	320.11	74.23	468.80	87.56	106.85	224.31
43082	64.34	8.10	-2.70	79.68	64.14	405.38	27.95	205.44	203.98	277.56	57.00	426.66	81.44	111.52	211.37
43083	65.47	8.10	-2.70	75.03	53.92	401.09	25.45	219.60	210.87	255.91	45.48	371.70	79.78	118.15	209.96
43084	66.60	8.10	-2.70	70.05	45.86	392.29	23.79	233.30	216.31	239.62	36.80	323.45	77.21	112.20	213.88
43085	67.72	8.10	-2.70	64.55	39.29	380.37	22.43	246.67	221.08	222.11	30.15	292.12	73.00	97.10	219.36
43086	68.85	8.10	-2.70	58.86	33.84	366.36	21.19	259.57	225.49	202.18	25.15	278.53	67.55	78.47	224.90
43087	69.98	8.10	-2.70	53.38	29.22	351.06	19.98	271.68	229.65	180.62	21.56	277.81	61.47	60.72	230.04
43088	71.11	8.10	-2.70	48.38	25.22	335.24	18.71	282.67	233.62	158.60	19.22	284.10	55.22	47.06	234.73
43089	72.24	8.10	-2.70	44.09	21.77	319.63	17.31	292.29	237.42	137.18	18.00	293.06	49.13	40.10	239.00
43090	73.37	8.10	-2.70	40.61	18.86	304.97	15.71	300.39	241.05	117.09	17.71	302.21	43.40	40.52	242.89
43091	74.50	8.10	-2.70	37.98	16.51	292.01	13.92	306.87	244.52	98.89	18.14	310.32	38.14	45.85	246.46
43092	75.63	8.10	-2.70	36.19	14.82	281.46	11.97	311.71	247.83	82.96	19.10	316.91	33.40	53.09	249.75
43093	76.76	8.10	-2.70	35.18	13.90	273.92	9.99	314.89	250.96	69.59	20.42	321.88	29.24	60.	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
43121	72.24	8.10	-4.10	30.95	14.41	349.44	15.90	314.12	255.21	10.98	24.40	311.12	25.54	42.16	258.13
43122	73.37	8.10	-4.10	28.71	11.39	332.65	14.35	321.65	258.52	11.23	27.15	318.26	23.01	45.39	261.54
43123	74.50	8.10	-4.10	27.51	8.80	317.90	12.34	327.53	261.61	15.95	29.52	325.28	20.39	52.56	264.55
43124	75.63	8.10	-4.10	27.22	6.80	305.93	9.92	331.80	264.49	22.34	31.54	331.45	17.78	61.38	267.25
43125	76.76	8.10	-4.10	27.71	5.78	297.40	7.18	334.51	267.18	28.71	33.27	336.51	15.39	70.49	269.68
43126	77.89	8.10	-4.10	28.77	6.11	292.83	4.37	335.68	269.65	34.28	34.75	340.40	13.50	79.14	271.84
43127	61.22	8.70	-4.10	94.56	83.87	373.48	35.52	160.85	165.66	49.89	144.32	353.35	72.90	169.16	192.77
43128	62.34	8.70	-4.10	91.28	72.03	415.09	28.28	177.15	189.69	37.34	98.79	409.32	59.84	112.68	209.32
43129	63.45	8.70	-4.10	83.38	60.82	437.27	24.03	194.79	205.31	31.54	64.97	418.18	45.22	89.13	213.57
43130	64.56	8.70	-4.10	73.94	51.54	444.67	21.23	213.43	216.05	26.60	42.44	400.03	37.71	83.81	216.23
43131	65.67	8.70	-4.10	64.80	44.00	442.74	19.39	231.46	223.96	21.90	28.03	371.52	35.47	81.82	221.40
43132	66.78	8.70	-4.10	56.45	37.57	434.65	18.34	248.38	230.22	20.75	18.44	344.16	34.82	76.77	228.08
43133	67.89	8.70	-4.10	49.07	32.02	422.40	17.82	263.92	235.48	21.90	13.92	324.62	34.00	68.08	234.76
43134	69.00	8.70	-4.10	42.81	27.22	407.40	17.46	277.96	240.06	22.04	14.04	314.78	32.70	57.73	240.78
43135	70.11	8.70	-4.10	37.64	22.94	390.82	17.02	290.44	244.16	20.13	16.63	313.09	30.83	48.48	245.97
43136	71.23	8.70	-4.10	33.58	19.10	373.66	16.32	301.28	247.89	16.74	19.78	316.68	28.56	42.93	250.43
43137	72.34	8.70	-4.10	30.63	15.62	356.82	15.25	310.43	251.34	13.62	22.81	322.89	26.06	42.76	254.28
43138	73.45	8.70	-4.10	28.75	12.50	341.11	13.79	317.91	254.55	13.50	25.51	329.88	23.44	47.34	257.62
43139	74.56	8.70	-4.10	27.84	9.77	327.32	11.92	323.75	257.54	17.22	27.88	336.55	20.83	54.70	260.56
43140	75.67	8.70	-4.10	27.79	7.59	316.15	9.67	327.99	260.32	22.80	29.96	342.33	18.31	63.13	263.19
43141	76.78	8.70	-4.10	28.48	6.34	308.19	7.12	330.70	262.92	28.62	31.78	347.04	16.04	71.66	265.54
43142	77.89	8.70	-4.10	29.82	6.47	303.90	4.64	331.92	265.25	33.86	33.42	350.65	14.27	79.82	267.57
43143	60.95	8.10	-5.50	135.48	70.35	399.59	31.21	165.34	188.62	435.83	104.95	322.21	41.29	168.54	213.24
43144	62.08	8.10	-5.50	125.57	59.84	444.46	26.71	187.67	208.86	396.11	71.51	391.22	36.48	121.06	219.98
43145	63.21	8.10	-5.50	112.40	50.29	471.25	23.26	211.15	224.78	351.93	42.02	418.79	34.62	93.40	228.45
43146	64.34	8.10	-5.50	97.26	41.99	482.05	21.32	233.90	236.88	306.87	18.39	415.17	33.44	77.24	236.43
43147	65.47	8.10	-5.50	82.12	35.00	480.97	20.62	254.95	246.07	263.75	2.88	395.09	31.36	67.73	244.46
43148	66.60	8.10	-5.50	68.37	29.13	471.70	20.70	273.83	253.22	225.75	12.73	370.45	28.90	61.16	252.40
43149	67.72	8.10	-5.50	56.63	24.16	456.96	21.07	290.45	258.94	194.50	22.84	349.15	26.95	55.41	259.62
43150	68.85	8.10	-5.50	47.08	19.95	438.75	21.31	304.84	263.64	170.40	30.64	334.99	25.44	50.33	265.77
43151	69.98	8.10	-5.50	39.69	16.37	418.63	21.14	317.09	267.58	152.93	36.71	328.39	24.06	47.09	270.76
43152	71.11	8.10	-5.50	34.24	13.31	397.89	20.40	327.31	270.99	141.00	41.45	327.73	22.53	47.13	274.77
43153	72.24	8.10	-5.50	30.47	10.75	377.65	19.04	335.62	274.00	133.37	45.08	330.81	20.63	51.00	278.01
43154	73.37	8.10	-5.50	28.10	8.70	358.90	17.07	342.17	276.72	128.85	47.82	335.75	18.25	58.00	280.67
43155	74.50	8.10	-5.50	26.94	7.22	342.53	14.54	347.12	279.22	126.42	49.83	341.22	15.36	66.96	282.92
43156	75.63	8.10	-5.50	26.84	6.45	329.34	11.51	350.60	281.55	125.18	51.25	346.48	11.98	76.88	284.90
43157	76.76	8.10	-5.50	27.70	6.46	319.98	8.15	352.70	283.72	124.41	52.19	351.14	8.20	87.09	286.65
43158	77.89	8.10	-5.50	29.34	7.18	314.98	4.77	353.49	285.71	123.51	52.71	355.07	4.13	97.02	288.20
43159	61.22	8.70	-5.50	124.98	69.00	401.80	32.65	164.16	193.14	397.21	92.97	325.65	56.02	165.87	218.99
43160	62.34	8.70	-5.50	116.35	59.82	445.02	25.87	187.32	210.86	357.66	67.24	385.17	44.06	121.40	221.68
43161	63.45	8.70	-5.50	104.85	51.10	471.57	21.54	210.26	224.79	316.28	41.20	408.65	38.22	93.56	227.90
43162	64.56	8.70	-5.50	91.05	43.29	482.68	19.40	232.31	235.49	274.99	19.64	405.15	34.81	76.19	234.58
43163	65.67	8.70	-5.50	77.24	36.67	482.16	18.63	252.49	243.79	237.26	5.25	388.17	30.89	66.18	241.91
43164	66.78	8.70	-5.50	64.66	31.03	473.77	18.70	270.77	250.37	204.51	10.38	368.47	27.55	59.13	249.44
43165	67.89	8.70	-5.50	53.88	26.14	460.12	19.13	287.00	255.77	177.87	20.03	352.30	25.25	53.56	256.41
43166	69.00	8.70	-5.50	45.13	21.95	443.09	19.45	301.13	260.25	157.56	27.61	342.30	23.60	49.48	262.38
43167	70.11	8.70	-5.50	38.34	18.27	424.19	19.38	313.22	264.08	142.88	33.70	338.45	22.28	47.73	267.26
43168	71.23	8.70	-5.50	33.35	15.04	404.68	18.77	323.34	267.41	132.91	38.49	339.25	20.88	49.15	271.23
43169	72.34	8.70	-5.50	29.90	12.23	385.63	17.58	331.58	270.39	126.63	42.22	342.91	19.14	53.78	274.45
43170	73.45	8.70	-5.50	27.78	9.84	368.00	15.81	338.09	273.08	123.01	45.11	347.88	16.96	60.86	277.11
43171	74.56	8.70	-5.50	26.79	7.95	352.63	13.50	343.02	275.54	121.17	47.31	353.15	14.30	69.44	279.35
43172	75.67	8.70	-5.50	26.80	6.72	340.25	10.72	346.49	277.83	120.33	48.94	358.11	11.15	78.77	281.30
43173	76.78	8.70	-5.50	27.75	6.34	331.48	7.59	348.61	279.95	119.87	50.11	362.47	7.58	88.32	283.04
43174	77.89	8.70	-5.50	29.62	6.95	326.75	4.48	349.44	281.83	119.25	50.93	366.17	3.80	97.81	284.47
43175	60.95	8.10	-6.90	190.10	57.17	453.55	38.28	174.74	221.41	849.36	73.54	338.12	125.01	194.89	253.20
43176	62.08	8.10	-6.90	162.77	48.63	492.28	34.19	204.99	238.29	745.20	42.50	398.10	114.02	168.56	250.34
43177	63.21	8.10	-6.90	139.19	41.22	514.57	31.49	234.21	251.92	648.69	21.10	424.14	102.47	143.75	255.01
43178	64.34	8.10	-6.90	118.56	34.71	522.67	30.41	259.92	262.62	563.79	18.66	423.37	92.94	120.24	262.18
43179	65.47	8.10	-6.90	100.75	29.22	519.52	30.32	281.94	270.83	491.41	29.91	408.32	84.45	100.24	269.90
43180	66.60	8.10	-6.90	85.95	24.78	508.15	30.63	300.67	277.08	431.52	41.23	388.87	76.57	85.01	277.24
43181	67.72	8.10	-6.90	74.07	21.33	491.12	30.87	316.53	281.87	382.79	50.68	371.31	69.65	74.79	283.62
43182	68.85	8.10	-6.90	64.77	18.83	470.48	30.71	329.76	285.56	343.79	57.95	358.66	63.32	69.32	288.74
43183	69.98	8.10	-6.90	57.58	17.17	447.94	29.95	340.58	288.46	313.15	63.50	351.61	57.36	67.89	292.62
43184	71.11	8.10	-6.90	51.92	16.17	424.95	28.47	349.22	290.83	289.35	67.61	349.32	51.57	69.85	295.48
43185	72.24	8.10	-6.90	47.33	15.68	402.74	26.30	355.92	292.86	271.02	70.50	350.37	45.80	74.60	297.58
43186	73.37	8.10	-6.90	43.53	15.55	382.38	23.47	360.95	294.66	256.92	72.37	353.36	39.94	81.56	299.18
43187	74.50	8.10	-6.90	40.51	15.65	364.76	20.09	364.58	296.34	245.95	73.41	357.23	33.97	90.14	300.46
43188	75.63	8.10	-6.90	38.49	15.89	350.67	16.32	366.99	297.95	237.16	73.74	361.31	27.94	99.82	301.58
43189	76.76	8.10	-6.90	37.75	16.21	340.75	12.48	368.35	299.51	229.77	73.48	365.26	22.03	110.17	302.60
43190	77.89	8.10	-6.90	38.46	16.62	335.48	9.22	368.72	301.01	223.04	72.69	368.89	16.51	120.63	303.55
43191	61.22	8.70	-6.90	171.29	57.16	453.09	42.20	174.85	222.63	774.24	64.85	340.88			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
43219	74.50	8.10	-8.30	62.67	26.89	383.93	27.73	378.56	311.28	367.20	98.90	372.67	57.43	121.20	315.45
43220	75.63	8.10	-8.30	57.63	27.15	369.43	22.88	379.68	312.02	352.21	97.83	375.59	48.03	129.46	315.60
43221	76.76	8.10	-8.30	54.33	27.32	359.31	18.19	380.17	312.89	339.24	96.05	378.66	39.19	139.03	315.86
43222	77.89	8.10	-8.30	53.40	27.43	353.98	14.50	380.10	313.91	327.57	93.64	381.70	31.20	149.24	316.27
43223	61.22	8.70	-8.30	208.85	46.42	517.30	56.00	197.88	254.91	1090.43	45.23	377.09	246.64	293.46	294.59
43224	62.34	8.70	-8.30	173.36	40.49	545.33	48.59	234.58	268.98	936.83	32.58	414.51	212.30	273.18	284.37
43225	63.45	8.70	-8.30	147.66	35.81	559.42	44.92	265.22	280.21	813.79	37.49	428.51	185.60	243.13	284.34
43226	64.56	8.70	-8.30	128.81	32.12	562.33	43.63	290.32	288.88	713.70	49.07	426.85	165.13	208.89	288.85
43227	65.67	8.70	-8.30	115.16	29.49	556.14	43.36	310.28	295.19	634.26	59.57	417.22	147.53	178.57	294.73
43228	66.78	8.70	-8.30	104.93	27.56	542.84	43.32	326.61	299.63	569.93	69.30	405.42	133.02	153.33	300.45
43229	67.89	8.70	-8.30	97.05	26.34	524.30	43.01	339.99	302.71	517.65	77.28	394.69	120.55	134.67	305.23
43230	69.00	8.70	-8.30	90.56	25.75	502.31	42.11	350.65	304.74	475.12	83.30	386.68	109.03	122.32	308.67
43231	70.11	8.70	-8.30	84.67	25.54	478.66	40.45	358.84	306.09	440.31	87.94	381.89	98.19	115.16	310.90
43232	71.23	8.70	-8.30	78.85	25.59	454.89	38.02	364.87	307.06	411.86	91.20	379.98	87.71	112.37	312.24
43233	72.34	8.70	-8.30	72.88	25.78	432.28	34.88	369.13	307.82	388.60	93.29	380.24	77.48	113.15	312.97
43234	73.45	8.70	-8.30	66.82	26.04	411.84	31.16	372.04	308.52	369.51	94.38	381.88	67.48	116.82	313.35
43235	74.56	8.70	-8.30	61.07	26.31	394.39	26.99	373.92	309.23	353.67	94.61	384.30	57.76	122.76	313.56
43236	75.67	8.70	-8.30	56.23	26.56	380.57	22.61	375.04	309.98	340.31	94.09	387.08	48.42	130.45	313.74
43237	76.78	8.70	-8.30	53.07	26.75	370.94	18.43	375.56	310.81	328.77	92.92	390.04	39.63	139.45	313.96
43238	77.89	8.70	-8.30	52.27	26.94	365.86	15.23	375.53	311.69	318.47	91.04	393.06	31.88	149.50	314.18
43239	56.31	8.10	-2.70	313.35	111.93	219.78	45.65	280.31	81.95	915.70	388.06	1282.26	120.76	1300.40	258.09
43240	57.22	8.10	-2.70	233.82	134.63	220.61	63.37	223.09	82.92	854.93	466.20	821.46	87.23	769.21	88.39
43241	58.12	8.10	-2.70	199.26	115.55	237.94	55.24	191.44	70.43	857.41	384.57	468.09	83.40	545.09	71.67
43242	59.03	8.10	-2.70	174.36	110.20	263.87	60.98	170.98	45.89	845.95	290.84	246.61	144.27	436.97	45.54
43243	59.93	8.10	-2.70	148.54	127.96	305.54	78.34	162.59	60.31	782.97	246.78	300.46	188.30	365.61	73.64
43244	56.54	8.70	-2.70	386.41	204.69	321.82	93.63	120.35	40.41	838.42	386.53	1238.10	105.75	1266.49	445.57
43245	57.46	8.70	-2.70	273.84	138.80	305.44	67.13	238.71	38.42	801.91	503.17	843.61	73.71	710.10	274.76
43246	58.38	8.70	-2.70	219.44	118.87	321.97	61.11	200.22	28.88	772.39	382.92	535.20	45.07	483.15	135.15
43247	59.29	8.70	-2.70	181.27	124.40	342.98	59.81	178.47	44.24	762.86	315.25	352.59	101.66	364.91	74.51
43248	60.21	8.70	-2.70	150.05	136.88	362.13	67.54	177.64	97.30	755.31	265.04	342.13	189.29	318.65	134.61
43249	56.31	8.10	-4.10	165.62	156.55	156.17	61.66	227.09	84.54	212.89	200.64	1008.51	80.00	1373.89	207.29
43250	57.22	8.10	-4.10	116.33	168.89	187.61	46.53	175.70	58.30	116.93	283.37	724.55	55.27	813.84	149.59
43251	58.12	8.10	-4.10	103.96	136.90	220.01	39.69	152.96	66.51	105.53	261.40	440.64	28.68	540.06	153.61
43252	59.03	8.10	-4.10	98.35	120.70	262.86	44.68	143.51	91.39	94.98	233.78	253.96	45.15	380.01	135.06
43253	59.93	8.10	-4.10	98.41	104.54	313.89	44.79	147.37	122.58	66.93	193.55	258.38	70.56	263.30	147.75
43254	56.54	8.70	-4.10	199.57	166.94	199.99	86.58	243.49	38.66	102.61	205.81	1053.68	66.03	1340.48	588.64
43255	57.46	8.70	-4.10	136.28	130.53	215.79	57.72	183.99	49.48	67.36	220.24	724.45	39.97	756.43	385.08
43256	58.38	8.70	-4.10	111.73	114.78	242.67	50.83	154.46	74.84	76.57	214.35	441.98	22.89	494.18	245.26
43257	59.29	8.70	-4.10	98.37	104.89	279.33	50.17	143.04	104.82	82.97	195.23	271.69	44.11	350.55	177.36
43258	60.21	8.70	-4.10	93.88	95.29	323.63	43.82	147.22	136.20	63.05	173.63	271.46	66.04	250.01	171.92
43259	56.31	8.10	-5.50	236.06	132.35	134.51	51.94	225.51	96.37	549.04	347.41	990.55	81.29	1353.34	107.41
43260	57.22	8.10	-5.50	175.95	135.52	180.40	37.49	176.42	100.17	487.34	321.35	749.82	36.46	771.57	290.68
43261	58.12	8.10	-5.50	157.87	107.48	234.11	30.95	158.96	122.89	477.09	226.08	498.51	25.23	492.43	277.20
43262	59.03	8.10	-5.50	149.17	91.55	291.29	34.62	149.83	145.61	474.18	173.71	305.85	42.15	333.25	236.70
43263	59.93	8.10	-5.50	142.69	80.63	346.25	34.64	151.66	167.01	462.01	138.49	257.10	44.72	235.80	215.12
43264	56.54	8.70	-5.50	280.26	155.78	142.96	79.43	232.42	78.09	799.16	389.26	1024.45	146.06	1303.21	655.65
43265	57.46	8.70	-5.50	193.75	116.72	192.55	50.92	176.62	107.42	578.73	228.39	730.46	91.09	707.28	483.30
43266	58.38	8.70	-5.50	159.05	98.35	245.35	47.02	153.15	131.43	500.29	169.94	472.15	94.48	453.35	348.20
43267	59.29	8.70	-5.50	142.02	86.91	298.78	44.67	143.34	153.56	461.84	140.01	296.50	86.67	312.30	265.57
43268	60.21	8.70	-5.50	132.57	77.69	350.89	39.80	147.84	173.74	431.41	117.02	265.37	71.94	225.05	228.46
43269	56.31	8.10	-6.90	382.62	144.98	120.33	52.54	228.25	108.27	1277.73	481.37	1149.63	142.92	1235.75	117.03
43270	57.22	8.10	-6.90	314.31	135.30	191.07	24.55	192.03	134.44	1122.93	413.69	880.15	44.73	635.15	366.90
43271	58.12	8.10	-6.90	281.11	96.86	274.33	31.67	166.23	163.04	1075.02	245.99	577.89	58.13	376.47	348.84
43272	59.03	8.10	-6.90	248.97	78.15	346.16	40.43	150.58	184.86	1018.93	162.19	354.33	110.22	270.41	301.32
43273	59.93	8.10	-6.90	219.21	66.62	404.18	41.40	154.05	203.47	944.73	111.91	288.65	127.15	223.35	268.65
43274	56.54	8.70	-6.90	467.39	180.36	118.21	97.91	233.91	101.84	1672.43	618.92	1194.38	296.39	1191.22	685.28
43275	57.46	8.70	-6.90	332.16	110.88	205.44	61.24	179.13	143.80	1239.98	286.67	828.11	176.99	587.87	527.89
43276	58.38	8.70	-6.90	270.25	86.15	284.60	61.28	151.56	168.25	1071.16	175.72	528.26	195.19	363.60	397.84
43277	59.29	8.70	-6.90	228.91	73.66	351.54	57.19	141.63	188.18	963.33	123.64	333.75	193.39	272.90	317.00
43278	60.21	8.70	-6.90	198.04	65.02	406.17	50.36	151.27	205.69	870.85	91.72	293.00	178.62	229.22	274.25
43279	56.31	8.10	-8.30	631.47	194.24	110.84	26.01	258.11	115.97	2282.05	724.25	1482.94	96.07	932.28	150.12
43280	57.22	8.10	-8.30	518.87	154.19	237.87	46.74	194.98	168.91	2045.75	522.54	1016.02	45.43	399.17	405.32
43281	58.12	8.10	-8.30	428.36	92.73	347.47	55.73	147.84	201.69	1844.18	262.52	579.48	136.36	263.41	389.03
43282	59.03	8.10	-8.30	350.03	66.82	425.00	58.86	138.61	222.75	1617.80	145.04	352.16	195.61	259.04	345.98
43283	59.93	8.10	-8.30	288.26	54.04	479.85	56.17	159.79	239.69	1408.22	84.89	329.32	212.79	277.33	313.68
43284	56.54	8.70	-8.30	694.38	243.01	119.71	164.88	224.61	123.30	2721.86	892.04	1489.91	551.77	993.17	689.61
43285	57.46	8.70	-8.30	500.66	123.45	253.02	103.72	163.82	178.18	2083.14	361.85	925.76	338.97	424.66	540.24
43286	58.38	8.70	-8.30	388.96	79.55	353.79	91.23	131.99	203.96	1736.50	183.48	521.03	333.22	301.09	428.36
43287	59.29	8.70	-8.30	310.09	62.20	425.47	78.24	135.98	223.43	1473.67	108.80	339.51	312.29	292.14	359.19
43288	60.21	8.70	-8.30</												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
43317	94.69	13.37	-2.70	152.62	115.39	67.96	93.40	62.51	70.56	234.66	63.72	61.93	73.28	67.77	75.86
43318	95.59	12.19	-2.70	141.87	116.03	67.01	94.93	62.10	69.03	229.90	60.20	63.47	79.18	76.21	74.95
43319	96.40	10.95	-2.70	130.67	115.91	66.27	96.91	61.68	67.85	225.47	56.02	65.79	84.94	84.83	74.03
43320	97.13	9.66	-2.70	118.88	115.16	65.62	99.51	61.28	66.93	221.41	50.99	68.60	90.72	93.54	73.03
43321	79.23	21.87	-2.70	230.13	15.53	42.04	55.31	45.52	28.79	280.74	24.39	44.01	31.22	4.84	30.19
43322	80.80	21.76	-2.70	230.79	18.87	41.91	55.84	45.45	29.16	278.61	23.74	43.27	26.75	8.36	29.79
43323	82.35	21.54	-2.70	228.97	24.24	41.64	58.32	45.16	29.75	274.71	22.95	42.27	25.65	11.88	29.75
43324	83.88	21.20	-2.70	224.80	30.73	41.25	62.26	44.62	30.54	268.95	21.96	41.06	27.85	15.35	30.11
43325	85.39	20.76	-2.70	218.44	37.91	40.74	66.99	43.85	31.50	261.35	20.76	39.71	32.09	18.77	30.86
43326	86.86	20.20	-2.70	210.11	45.58	40.15	71.83	42.82	32.57	252.08	19.42	38.29	37.06	22.15	31.91
43327	88.28	19.55	-2.70	200.08	53.53	39.48	76.23	41.56	33.71	241.35	18.04	36.89	41.91	25.49	33.17
43328	89.65	18.79	-2.70	188.69	61.54	38.74	79.77	40.08	34.83	229.45	16.78	35.60	46.21	28.79	34.51
43329	90.97	17.94	-2.70	176.29	69.38	37.96	82.22	38.41	35.90	216.74	15.84	34.51	49.77	32.04	35.82
43330	92.22	17.00	-2.70	163.25	76.79	37.17	83.49	36.60	36.90	203.60	15.42	33.75	52.59	35.20	37.05
43331	93.40	15.97	-2.70	149.86	83.57	36.39	83.68	34.72	37.81	190.38	15.58	33.39	54.77	38.28	38.16
43332	94.51	14.85	-2.70	136.37	89.63	35.67	82.89	32.82	38.63	177.42	16.29	33.49	56.41	41.27	39.14
43333	95.53	13.67	-2.70	123.04	94.91	35.03	81.24	30.92	39.40	165.13	17.50	34.05	57.61	44.17	40.02
43334	96.46	12.41	-2.70	110.10	99.38	34.48	78.97	29.02	40.12	153.82	19.07	35.03	58.53	47.03	40.83
43335	97.30	11.08	-2.70	97.68	103.03	34.02	76.39	27.11	40.81	143.63	20.75	36.35	59.36	49.85	41.56
43336	98.05	9.70	-2.70	85.71	106.04	33.55	73.70	25.19	41.34	134.55	22.19	37.82	60.14	52.65	42.05
43337	79.28	22.71	-2.70	240.46	7.84	22.81	28.03	37.91	2.24	293.47	11.36	23.46	19.82	6.55	1.78
43338	80.92	22.59	-2.70	239.80	10.51	22.74	32.47	37.97	4.52	288.17	11.83	23.10	18.45	11.29	1.72
43339	82.56	22.35	-2.70	235.97	15.27	22.59	41.12	37.88	7.22	279.69	12.73	22.65	25.76	16.07	2.28
43340	84.17	21.99	-2.70	229.14	21.38	22.38	51.20	37.62	9.99	268.13	14.22	22.14	35.47	20.58	3.73
43341	85.75	21.52	-2.70	219.58	28.60	22.10	61.08	37.15	12.74	253.78	16.34	21.61	44.57	24.70	5.84
43342	87.30	20.93	-2.70	207.66	36.72	21.79	69.87	36.46	15.41	237.07	18.89	21.11	52.04	28.32	8.39
43343	88.80	20.23	-2.70	193.79	45.49	21.43	77.01	35.53	17.95	218.56	21.56	20.67	57.42	31.37	11.24
43344	90.24	19.42	-2.70	178.46	54.57	21.04	82.19	34.36	20.31	198.92	23.97	20.34	60.59	33.77	14.24
43345	91.62	18.52	-2.70	162.21	63.59	20.62	85.27	32.96	22.45	178.83	25.84	20.19	61.63	35.47	17.26
43346	92.93	17.51	-2.70	145.57	72.22	20.21	86.27	31.37	24.36	158.99	27.04	20.26	60.82	36.47	20.15
43347	94.16	16.41	-2.70	129.01	80.19	19.81	85.35	29.63	26.04	139.99	27.69	20.59	58.58	36.80	22.83
43348	95.31	15.22	-2.70	112.95	87.33	19.45	82.72	27.79	27.50	122.32	28.07	21.17	55.31	36.54	25.22
43349	96.37	13.96	-2.70	97.74	93.52	19.14	78.64	25.88	28.75	106.40	28.59	21.98	51.48	35.79	27.26
43350	97.34	12.62	-2.70	83.68	98.72	18.87	73.44	23.90	29.83	92.47	29.64	22.98	47.51	34.67	28.95
43351	98.20	11.21	-2.70	70.93	103.00	18.64	67.49	21.87	30.72	80.59	31.45	24.10	43.76	33.32	30.28
43352	98.96	9.75	-2.70	59.62	106.51	18.39	60.98	19.85	31.37	70.59	33.94	25.19	40.29	31.86	31.21
43353	79.32	23.55	-2.70	244.19	3.85	9.19	10.74	33.64	7.95	298.14	4.56	9.24	7.68	13.37	8.15
43354	81.05	23.42	-2.70	242.36	6.17	9.20	25.00	33.89	8.28	289.62	5.99	9.30	23.30	18.17	7.07
43355	82.77	23.17	-2.70	236.66	10.72	9.22	40.45	34.13	9.06	276.59	9.50	9.40	40.06	23.15	5.51
43356	84.46	22.78	-2.70	227.35	17.30	9.25	54.93	34.29	10.27	259.36	15.08	9.51	54.66	27.82	4.39
43357	86.12	22.28	-2.70	214.84	25.62	9.30	67.67	34.29	11.81	238.53	22.03	9.64	66.28	31.93	5.47
43358	87.74	21.65	-2.70	199.63	35.26	9.37	78.16	34.06	13.60	214.90	29.54	9.80	74.41	35.30	8.63
43359	89.31	20.91	-2.70	182.32	45.72	9.46	86.05	33.55	15.51	189.44	36.79	9.99	78.81	37.76	12.69
43360	90.82	20.05	-2.70	163.56	56.49	9.59	91.15	32.70	17.43	163.23	43.03	10.21	79.52	39.21	17.07
43361	92.26	19.09	-2.70	144.07	67.03	9.74	93.44	31.52	19.27	137.36	47.64	10.48	76.86	39.58	21.40
43362	93.63	18.02	-2.70	124.57	76.89	9.94	93.05	30.01	20.95	112.87	50.26	10.79	71.43	38.85	25.39
43363	94.92	16.85	-2.70	105.66	85.72	10.16	90.28	28.21	22.40	90.57	50.84	11.13	64.02	37.11	28.82
43364	96.11	15.59	-2.70	87.86	93.29	10.40	85.46	26.19	23.62	71.05	49.67	11.50	55.49	34.50	31.49
43365	97.21	14.25	-2.70	71.59	99.49	10.65	79.02	24.01	24.57	54.65	47.41	11.88	46.71	31.22	33.31
43366	98.21	12.83	-2.70	57.14	104.32	10.91	71.40	21.72	25.24	41.39	45.06	12.26	38.45	27.49	34.24
43367	99.10	11.34	-2.70	44.58	107.96	11.13	63.03	19.37	25.65	31.10	43.70	12.60	31.23	23.50	34.30
43368	99.88	9.79	-2.70	34.48	110.73	11.42	54.39	17.22	25.82	23.46	43.99	12.89	25.25	19.69	33.65
43369	79.15	20.20	-4.10	160.09	14.14	345.70	53.50	163.05	182.47	178.68	15.75	369.09	17.73	30.31	190.18
43370	80.55	20.10	-4.10	161.84	17.59	344.78	52.69	163.20	182.70	179.72	14.48	363.24	15.24	34.44	188.15
43371	81.94	19.90	-4.10	162.29	23.35	342.90	52.19	163.17	182.68	179.86	13.56	354.82	14.00	38.45	186.11
43372	83.31	19.62	-4.10	161.47	29.99	340.18	52.08	162.96	182.46	179.02	13.12	344.24	14.57	42.26	184.27
43373	84.65	19.23	-4.10	159.43	36.88	336.73	52.40	162.55	182.10	177.17	13.24	331.94	16.98	45.96	182.78
43374	85.97	18.76	-4.10	156.25	43.71	332.67	53.13	161.92	181.61	174.31	13.97	318.43	20.69	49.80	181.70
43375	87.25	18.19	-4.10	152.03	50.31	328.12	54.20	161.07	180.99	170.46	15.27	304.28	25.16	54.12	181.02
43376	88.49	17.54	-4.10	146.89	56.52	323.17	55.52	160.01	180.24	165.71	17.01	290.17	30.01	59.26	180.66
43377	89.68	16.80	-4.10	140.98	62.21	317.95	57.03	158.79	179.32	160.18	19.00	276.82	35.02	65.51	180.47
43378	90.82	15.98	-4.10	134.44	67.27	312.53	58.65	157.46	178.23	154.01	21.05	264.98	40.03	72.98	180.30
43379	91.89	15.08	-4.10	127.44	71.52	307.26	60.48	155.98	177.09	147.37	22.95	255.55	45.06	81.64	180.20
43380	92.91	14.11	-4.10	119.90	74.94	302.38	62.50	154.48	175.88	140.26	24.17	249.18	49.97	91.54	179.94
43381	93.85	13.08	-4.10	111.92	77.62	297.84	64.62	152.93	174.65	132.93	24.78	246.02	54.67	102.14	179.52
43382	94.72	11.98	-4.10	103.51	79.57	293.73	66.59	151.05	173.45	125.34	24.35	246.03	59.01	113.15	178.89
43383	95.51	10.82	-4.10	94.75	80.81	290.11	68.50	148.76	172.57	117.48	23.40	248.96	62.89	124.12	178.24
43384	96.21	9.62	-4.10	85.59	81.52	287.20	70.41	145.99	172.29	109.20	22.06	254.45	66.44	134.81	177.90
43385	79.19	21.03	-4.10	179.19	49.42	236.24	50.50	138.76	154.74	201.98	56.89	250.03	15.92	20.79	162.49
43386	80.67	20.93	-4.10	180.02	49.77	235.56	51.10	138.80	154.89	201.65	55.18	245.98	14.07	25.39	160.16
43387	82.14	20.72	-4.10	178.73	49.82	234.17	53.79	138.58	154.77	199.54	52.76	240.21	18.45	30.11	157.89
43388	83.59	20.41	-4.10	175.44	49.77	232.15	58.05	138.10	154.45	195.7					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
43415	97.30	11.08	-4.10	63.85	83.09	116.01	75.63	75.05	110.43	92.32	8.74	117.48	59.61	108.03	111.94
43416	98.05	9.70	-4.10	55.33	87.49	114.42	71.08	70.88	111.45	88.93	10.31	122.06	57.96	114.16	112.90
43417	79.28	22.71	-4.10	214.47	18.18	88.74	19.48	102.65	36.78	244.51	22.51	91.73	6.73	11.87	38.40
43418	80.92	22.59	-4.10	213.36	17.21	88.43	27.11	102.52	38.69	240.22	20.26	90.17	17.63	22.82	38.83
43419	82.56	22.35	-4.10	208.94	15.48	87.79	38.84	101.87	42.04	232.21	16.59	88.14	31.38	33.46	40.51
43420	84.17	21.99	-4.10	201.45	14.47	86.86	51.03	100.65	46.46	220.81	12.24	85.80	43.82	43.47	43.38
43421	85.75	21.52	-4.10	191.22	16.43	85.70	62.27	98.83	51.56	206.50	9.29	83.28	54.15	52.69	47.30
43422	87.30	20.93	-4.10	178.67	22.02	84.34	71.88	96.36	56.98	189.94	10.95	80.76	61.95	60.94	52.06
43423	88.80	20.23	-4.10	164.29	30.05	82.79	79.42	93.22	62.44	171.85	16.03	78.40	67.01	68.12	57.36
43424	90.24	19.42	-4.10	148.66	39.28	81.07	84.65	89.23	67.67	153.08	21.65	76.45	69.36	74.09	62.86
43425	91.62	18.52	-4.10	132.39	48.88	79.24	87.52	85.07	72.49	134.45	26.51	75.16	69.26	78.79	68.28
43426	92.93	17.51	-4.10	116.10	58.25	77.35	88.13	80.25	76.78	116.75	30.01	74.80	67.22	82.22	73.35
43427	94.16	16.41	-4.10	100.31	67.00	75.50	86.74	75.11	80.49	100.59	31.98	75.53	63.85	84.45	77.90
43428	95.31	15.22	-4.10	85.42	74.91	73.74	83.63	69.80	83.64	86.41	32.59	77.37	59.77	85.64	81.84
43429	96.37	13.96	-4.10	71.76	81.85	72.15	79.12	64.40	86.28	74.48	32.23	80.25	55.46	86.01	85.14
43430	97.34	12.62	-4.10	59.51	87.78	70.74	73.57	58.90	88.46	64.95	31.52	83.97	51.26	85.78	87.82
43431	98.20	11.21	-4.10	48.78	92.77	69.48	67.32	53.31	90.24	57.84	31.14	88.31	47.31	85.22	89.93
43432	98.96	9.75	-4.10	39.56	96.92	68.38	60.56	47.66	91.67	52.97	31.45	92.95	43.54	84.52	91.54
43433	79.32	23.55	-4.10	225.81	3.63	40.06	9.21	94.54	7.79	258.17	5.13	40.42	7.10	21.38	7.54
43434	81.05	23.42	-4.10	223.93	3.05	39.95	24.10	94.72	13.04	251.99	3.46	39.97	24.56	33.38	9.28
43435	82.77	23.17	-4.10	218.32	5.69	39.72	39.40	94.57	19.73	241.20	4.83	39.62	40.73	45.54	12.88
43436	84.46	22.78	-4.10	209.24	11.86	39.39	53.55	93.99	26.80	226.26	10.90	39.44	54.65	56.93	18.26
43437	86.12	22.28	-4.10	197.10	20.11	39.02	65.91	92.84	33.95	207.82	18.76	39.48	65.70	67.06	25.13
43438	87.74	21.65	-4.10	182.41	29.79	38.61	76.01	91.04	40.99	186.74	27.29	39.82	73.40	75.59	33.13
43439	89.31	20.91	-4.10	165.75	40.33	38.20	83.53	88.48	47.77	163.98	35.66	40.54	77.55	82.24	41.87
43440	90.82	20.05	-4.10	147.79	51.18	37.83	88.30	85.11	54.11	140.61	43.08	41.74	78.21	86.79	50.87
43441	92.26	19.09	-4.10	129.25	61.80	37.56	90.32	80.96	59.87	117.71	48.93	43.51	75.75	89.07	59.66
43442	93.63	18.02	-4.10	110.84	71.75	37.44	89.77	76.10	64.92	96.27	52.82	45.90	70.81	89.10	67.76
43443	94.92	16.85	-4.10	93.15	80.71	37.51	86.98	70.66	69.22	77.00	54.68	48.85	64.23	87.00	74.77
43444	96.11	15.59	-4.10	76.66	88.48	37.79	82.31	64.81	72.78	60.35	54.76	52.24	56.85	83.08	80.41
43445	97.21	14.25	-4.10	61.71	94.97	38.28	76.17	58.65	75.62	46.46	53.58	55.93	49.44	77.72	84.56
43446	98.21	12.83	-4.10	48.50	100.22	38.92	68.97	52.30	77.76	35.22	51.87	59.79	42.54	71.35	87.17
43447	99.10	11.34	-4.10	37.06	104.36	39.66	61.07	45.79	79.29	26.45	50.38	63.63	36.42	64.33	88.36
43448	99.88	9.79	-4.10	27.84	107.64	40.59	52.88	39.53	80.34	20.02	49.61	67.36	31.08	57.43	88.39
43449	79.15	20.20	-5.50	148.90	26.41	383.37	23.08	194.35	160.84	152.11	26.91	402.88	5.39	46.32	164.27
43450	80.55	20.10	-5.50	149.64	26.88	382.53	23.15	194.07	161.78	152.73	26.49	398.15	5.77	49.91	163.71
43451	81.94	19.90	-5.50	148.83	28.63	380.86	24.82	193.21	163.30	151.70	26.27	390.79	10.24	53.74	163.99
43452	83.31	19.62	-5.50	146.59	31.43	378.47	27.72	191.80	165.39	149.14	26.21	381.13	15.48	57.47	165.21
43453	84.65	19.23	-5.50	143.03	34.98	375.48	31.27	189.82	168.01	145.18	26.23	369.51	20.66	60.93	167.39
43454	85.97	18.76	-5.50	138.31	39.02	371.99	34.98	187.27	171.06	139.99	26.27	356.30	25.48	64.09	170.44
43455	87.25	18.19	-5.50	132.60	43.30	368.06	38.48	184.17	174.38	133.80	26.22	341.92	29.81	67.04	174.12
43456	88.49	17.54	-5.50	126.13	47.62	363.79	41.56	180.56	177.79	126.85	25.98	326.87	33.58	69.95	178.14
43457	89.68	16.80	-5.50	119.15	51.76	359.26	44.10	176.55	181.08	119.41	25.47	311.78	36.81	73.06	182.17
43458	90.82	15.98	-5.50	111.94	55.60	354.57	46.09	172.31	184.10	111.79	24.66	297.32	39.57	76.58	185.93
43459	91.89	15.08	-5.50	104.72	58.85	349.93	47.76	167.97	186.74	104.21	23.39	284.31	42.09	80.69	189.26
43460	92.91	14.11	-5.50	97.45	61.65	345.50	49.19	163.67	189.00	96.65	22.03	273.37	44.39	85.59	192.04
43461	93.85	13.08	-5.50	90.25	64.01	341.33	50.40	159.53	191.01	89.25	20.59	264.86	46.46	91.07	194.41
43462	94.72	11.98	-5.50	83.03	65.98	337.54	51.35	155.33	192.81	81.86	19.16	258.90	48.24	97.05	196.39
43463	95.51	10.82	-5.50	75.84	67.47	334.23	52.07	150.89	194.73	74.45	18.00	255.45	49.62	103.23	198.30
43464	96.21	9.62	-5.50	68.61	68.72	331.48	52.61	145.96	196.87	66.87	17.25	254.30	50.69	109.47	200.27
43465	97.19	21.03	-5.50	165.95	16.18	314.06	18.32	177.66	135.65	171.98	16.03	328.40	4.00	35.24	139.52
43466	80.67	20.93	-5.50	166.02	17.04	313.27	20.46	177.29	136.71	171.58	15.89	324.15	8.73	39.59	138.81
43467	82.14	20.72	-5.50	164.00	19.40	311.68	25.67	176.25	138.51	168.84	16.58	317.74	16.57	44.89	139.13
43468	83.59	20.41	-5.50	160.05	22.95	309.42	32.12	174.55	141.02	163.97	17.99	309.48	24.19	50.50	140.58
43469	85.02	19.99	-5.50	154.36	27.38	306.59	38.67	172.18	144.16	157.21	19.94	299.70	31.06	56.08	143.17
43470	86.41	19.48	-5.50	147.17	32.44	303.27	44.67	169.15	147.81	148.89	22.18	288.72	36.91	61.51	146.73
43471	87.77	18.87	-5.50	138.76	37.89	299.51	49.74	165.44	151.75	139.37	24.41	276.94	41.59	66.82	151.00
43472	89.07	18.17	-5.50	129.46	43.48	295.38	53.67	161.14	155.77	129.08	26.35	264.81	45.06	72.09	155.59
43473	90.33	17.37	-5.50	119.66	48.96	290.95	56.40	156.36	159.62	118.47	27.74	252.93	47.40	77.43	160.14
43474	91.52	16.49	-5.50	109.77	54.10	286.34	57.98	151.29	163.13	108.01	28.38	241.98	48.82	82.95	164.34
43475	92.65	15.53	-5.50	100.10	58.70	281.74	58.64	146.15	166.20	98.02	28.24	232.67	49.65	88.77	168.00
43476	93.71	14.48	-5.50	90.77	62.78	277.30	58.56	141.12	168.83	88.61	27.53	225.55	50.07	94.93	171.07
43477	94.69	13.37	-5.50	81.88	66.36	273.14	57.88	136.22	171.08	79.85	26.44	220.88	50.18	101.36	173.62
43478	95.59	12.19	-5.50	73.44	69.47	269.34	56.68	131.29	173.08	71.67	25.28	218.70	49.96	107.98	175.76
43479	96.40	10.95	-5.50	65.39	72.10	266.01	55.09	126.09	175.04	63.96	24.33	218.91	49.37	114.66	177.71
43480	97.13	9.66	-5.50	57.61	74.46	263.16	53.24	120.45	177.06	56.57	23.75	221.22	48.47	121.32	179.58
43481	79.23	21.87	-5.50	181.11	8.36	242.82	13.85	163.04	101.26	190.08	10.02	252.52	3.56	23.98	104.70
43482	80.80	21.76	-5.50	180.50	9.01	242.10	19.66	162.61	102.76	188.58	8.95	248.84	13.41	30.99	104.37
43483	82.35	21.54	-5.50	177.28	10.99	240.62	28.89	161.43	105.42	184.03	8.85	243.53	24.10	39.82	105.40
43484	83.88	21.20	-5.50	171.63	14.53	238.54	38.53	159.48	109.14	176.72	10.61	236.91	33.89	48.98	107.83
43485	85.39	20.76	-5.50	163.85	19.52	235.96	47.49	156.75	113.71	167.05	14.10	229.27	42.29	57.86	111.58
43486	86.														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
43513	79.32	23.55	-5.50	208.86	1.75	109.88	7.27	141.80	21.84	223.66	2.46	112.70	7.17	17.10	22.33
43514	81.05	23.42	-5.50	207.04	3.26	109.37	22.08	141.81	27.25	219.85	3.20	110.38	22.93	35.40	24.42
43515	82.77	23.17	-5.50	201.74	7.28	108.30	36.41	141.27	35.59	211.64	7.12	107.82	37.57	52.84	28.85
43516	84.46	22.78	-5.50	193.25	13.41	106.81	49.56	140.06	45.24	199.49	13.25	105.28	50.36	68.81	35.57
43517	86.12	22.28	-5.50	181.95	21.21	104.99	60.99	138.03	55.40	184.04	20.75	103.04	60.67	82.96	44.30
43518	87.74	21.65	-5.50	168.29	30.25	102.89	70.29	135.05	65.65	166.02	28.93	101.38	68.06	94.94	54.63
43519	89.31	20.91	-5.50	152.78	40.03	100.52	77.14	131.01	75.67	146.30	37.07	100.61	72.29	104.44	66.04
43520	90.82	20.05	-5.50	136.05	50.02	97.95	81.39	125.85	85.16	125.86	44.47	101.15	73.38	111.15	77.91
43521	92.26	19.09	-5.50	118.81	59.72	95.30	83.06	119.58	93.88	105.72	50.57	103.44	71.64	114.88	89.60
43522	93.63	18.02	-5.50	101.75	68.73	92.74	82.36	112.34	101.64	86.83	55.03	107.78	67.67	115.64	100.49
43523	94.92	16.85	-5.50	85.49	76.81	90.45	79.65	104.36	108.39	69.89	57.82	114.13	62.25	113.65	110.11
43524	96.11	15.59	-5.50	70.45	83.83	88.58	75.33	95.89	114.15	55.21	59.18	122.19	56.09	109.32	118.18
43525	97.21	14.25	-5.50	56.89	89.76	87.22	69.76	87.08	118.98	42.81	59.45	131.51	49.73	103.16	124.58
43526	98.21	12.83	-5.50	44.92	94.63	86.39	63.26	78.00	122.91	32.46	58.98	141.68	43.45	95.66	129.27
43527	99.10	11.34	-5.50	34.52	98.54	86.06	56.12	68.64	125.97	23.97	58.06	152.32	37.38	87.20	132.34
43528	99.88	9.79	-5.50	26.07	101.66	86.19	48.67	59.59	128.38	17.31	56.86	162.82	31.60	78.81	134.11
43529	79.15	20.20	-6.90	133.15	43.91	434.44	4.97	223.38	153.66	134.89	46.81	450.75	5.77	67.31	155.08
43530	80.55	20.10	-6.90	133.39	44.17	433.61	7.69	222.78	155.23	135.02	47.26	446.72	7.52	70.12	155.55
43531	81.94	19.90	-6.90	132.10	45.19	431.99	12.80	221.39	158.09	133.54	47.97	439.90	12.29	73.46	157.49
43532	83.31	19.62	-6.90	129.41	46.87	429.71	18.22	219.27	162.22	130.60	48.84	430.56	17.61	76.88	160.96
43533	84.65	19.23	-6.90	125.46	49.05	426.86	23.39	216.41	167.46	126.38	49.75	418.97	22.74	80.03	165.90
43534	85.97	18.76	-6.90	120.40	51.55	423.51	28.02	212.80	173.59	121.06	50.53	405.39	27.36	82.65	172.07
43535	87.25	18.19	-6.90	114.43	54.15	419.69	31.95	208.44	180.30	114.89	51.03	390.13	31.32	84.61	179.11
43536	88.49	17.54	-6.90	107.82	56.63	415.46	35.10	203.36	187.23	108.18	51.04	373.58	34.54	85.88	186.57
43537	89.68	16.80	-6.90	100.89	58.78	410.89	37.46	197.73	193.99	101.30	50.38	356.30	37.08	86.56	193.94
43538	90.82	15.98	-6.90	94.03	60.44	406.09	39.15	191.81	200.25	94.62	48.97	338.99	39.08	86.86	200.80
43539	91.89	15.08	-6.90	87.55	61.37	401.29	40.47	185.90	205.74	88.36	46.68	322.49	40.83	87.06	206.81
43540	92.91	14.11	-6.90	81.46	61.84	396.69	41.56	180.28	210.45	82.41	43.98	307.54	42.40	87.59	211.90
43541	93.85	13.08	-6.90	75.83	61.90	392.49	42.49	175.19	214.59	76.58	41.09	294.56	43.79	88.57	216.31
43542	94.72	11.98	-6.90	70.44	61.80	388.93	43.17	170.28	218.28	70.42	38.41	283.73	44.75	89.96	220.16
43543	95.51	10.82	-6.90	65.20	61.65	386.13	43.44	165.14	221.93	63.74	36.32	275.01	45.00	91.59	223.85
43544	96.21	9.62	-6.90	59.98	61.63	384.11	43.27	159.20	225.75	56.58	34.82	268.31	44.60	93.25	227.62
43545	79.19	21.03	-6.90	148.17	32.49	380.59	3.86	210.03	126.69	148.32	33.82	393.80	4.55	55.36	128.47
43546	80.67	20.93	-6.90	147.91	33.14	379.69	10.09	209.35	128.55	147.95	34.68	389.63	10.20	58.71	128.85
43547	82.14	20.72	-6.90	145.68	34.86	377.92	17.59	207.80	132.04	145.38	36.27	382.94	17.40	63.54	131.01
43548	83.59	20.41	-6.90	141.67	37.52	375.46	24.84	205.41	137.05	140.87	38.45	374.08	24.37	69.02	134.99
43549	85.02	19.99	-6.90	136.09	40.93	372.45	31.42	202.16	143.36	134.66	41.00	363.33	30.63	74.52	140.70
43550	86.41	19.48	-6.90	129.13	44.85	368.92	37.04	198.03	150.66	127.06	43.64	350.97	35.88	79.62	147.82
43551	87.77	18.87	-6.90	121.08	49.00	364.89	41.51	192.98	158.55	118.41	46.09	337.28	39.96	84.09	155.91
43552	89.07	18.17	-6.90	112.29	53.10	360.37	44.73	187.09	166.60	109.19	48.01	322.66	42.83	87.79	164.42
43553	90.33	17.37	-6.90	103.20	56.84	355.44	46.71	180.51	174.40	99.89	49.13	307.71	44.60	90.74	172.82
43554	91.52	16.49	-6.90	94.30	59.95	350.23	47.63	173.55	181.57	91.01	49.20	293.18	45.56	93.06	180.60
43555	92.65	15.53	-6.90	85.97	62.31	344.94	47.81	166.57	187.89	82.83	48.25	279.90	46.09	95.04	187.47
43556	93.71	14.48	-6.90	78.34	64.01	339.80	47.53	159.91	193.34	75.30	46.59	268.55	46.40	96.97	193.38
43557	94.69	13.37	-6.90	71.42	65.19	335.01	46.93	153.66	198.09	68.14	44.57	259.48	46.48	99.04	198.46
43558	95.59	12.19	-6.90	65.02	66.05	330.77	45.98	147.51	202.31	60.96	42.66	252.78	46.07	101.29	202.91
43559	96.40	10.95	-6.90	59.00	66.79	327.16	44.61	140.92	206.24	53.60	41.16	248.47	44.92	103.67	206.98
43560	97.13	9.66	-6.90	53.22	67.61	324.15	42.79	133.41	210.09	46.09	40.03	246.47	43.07	106.05	210.89
43561	79.23	21.87	-6.90	162.93	21.85	320.86	3.63	197.47	95.18	163.10	22.30	331.18	4.39	42.58	96.93
43562	80.80	21.76	-6.90	162.15	22.90	319.87	13.21	196.79	97.65	162.12	23.52	326.89	13.53	47.75	97.56
43563	82.35	21.54	-6.90	158.96	25.33	317.95	22.77	195.20	102.28	158.33	25.97	320.48	22.86	55.91	100.31
43564	83.88	21.20	-6.90	153.62	29.01	315.36	31.71	192.71	108.78	152.07	29.42	312.36	31.46	65.15	105.17
43565	85.39	20.76	-6.90	146.39	33.69	312.23	39.63	189.27	116.76	143.70	33.57	302.88	38.86	74.33	111.96
43566	86.86	20.20	-6.90	137.51	39.09	308.59	46.22	184.82	125.73	133.62	38.06	292.28	44.73	82.85	120.30
43567	88.28	19.55	-6.90	127.34	44.87	304.41	51.23	179.32	135.21	122.30	42.44	280.85	48.87	90.31	129.68
43568	89.65	18.79	-6.90	116.29	50.64	299.69	54.55	172.80	144.72	110.34	46.28	269.04	51.26	96.48	139.49
43569	90.97	17.94	-6.90	104.94	56.03	294.49	56.19	165.43	153.79	98.42	49.16	257.48	52.08	101.25	149.16
43570	92.22	17.00	-6.90	93.85	60.72	288.95	56.38	157.51	162.08	87.17	50.83	247.01	51.76	104.69	158.18
43571	93.40	15.97	-6.90	83.50	64.56	283.28	55.49	149.45	169.40	76.95	51.31	238.43	50.81	107.06	166.26
43572	94.51	14.85	-6.90	74.13	67.61	277.67	53.87	141.60	175.78	67.79	50.87	232.29	49.57	108.71	173.32
43573	95.53	13.67	-6.90	65.75	69.99	272.32	51.74	134.04	181.35	59.37	49.92	228.81	48.09	109.96	179.48
43574	96.46	12.41	-6.90	58.18	71.89	267.33	49.14	126.45	186.23	51.36	48.85	227.98	46.11	111.02	184.83
43575	97.30	11.08	-6.90	51.26	73.49	262.72	46.04	118.33	190.51	43.62	47.87	229.80	43.43	111.93	189.50
43576	98.05	9.70	-6.90	44.87	74.98	258.53	42.41	109.38	194.40	36.26	46.91	234.05	40.06	112.67	193.69
43577	79.28	22.71	-6.90	176.81	11.59	259.76	4.92	186.23	60.98	178.05	11.63	267.57	5.32	29.85	62.25
43578	80.92	22.59	-6.90	175.53	13.07	258.70	16.72	185.70	64.66	176.41	13.21	263.18	17.09	39.72	63.52
43579	82.56	22.35	-6.90	171.41	16.22	256.66	28.10	184.34	71.32	171.37	16.44	257.21	28.37	53.44	67.26
43580	84.17	21.99	-6.90	164.79	20.92	253.93	38.60	182.08	80.17	163.35	21.08	250.14	38.51	67.55	73.38
43581	85.75	21.52	-6.90	155.96	26.90	250.69	47.79	178.83	90.45	152.80	26.75	242.36	47.01	80.78	81.63
43582	87.30	20.93	-6.90	145.22	33.80	246.93	55.29	174.50	101.51	140.20	32.96	234.15	53.46	92.56	91.56
43583	88.80	20.23	-6.90	132.96	41.21	242.60									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
43611	81.94	19.90	-8.30	110.26	48.18	494.51	13.15	246.00	158.37	133.09	54.14	500.54	15.33	98.92	157.21
43612	83.31	19.62	-8.30	107.75	49.98	492.26	18.73	243.48	164.33	130.10	55.84	491.20	18.92	101.58	162.52
43613	84.65	19.23	-8.30	104.13	52.19	489.44	23.96	240.19	171.98	126.32	57.54	479.29	23.59	103.98	168.77
43614	85.97	18.76	-8.30	99.50	54.60	486.05	28.64	236.07	180.96	121.82	59.05	464.97	28.35	105.76	178.64
43615	87.25	18.19	-8.30	94.04	56.98	482.10	32.60	231.09	190.84	116.77	60.19	448.44	32.72	106.63	188.67
43616	88.49	17.54	-8.30	88.04	59.02	477.59	35.76	225.29	201.12	111.41	60.70	429.99	36.50	106.39	199.31
43617	89.68	16.80	-8.30	81.89	60.42	472.56	38.11	218.80	211.22	106.08	60.31	410.11	39.63	104.99	209.88
43618	90.82	15.98	-8.30	76.08	60.89	467.13	39.82	212.02	220.58	101.11	58.78	389.55	42.24	102.61	219.73
43619	91.89	15.08	-8.30	71.01	60.20	461.61	41.26	205.44	228.66	96.60	55.97	369.33	44.68	99.63	228.26
43620	92.91	14.11	-8.30	66.74	58.71	456.34	42.65	199.64	235.36	92.25	52.43	350.40	47.03	96.77	235.32
43621	93.85	13.08	-8.30	63.10	56.67	451.78	44.04	195.07	241.08	87.51	48.70	333.34	49.18	94.55	241.33
43622	94.72	11.98	-8.30	59.46	54.69	448.46	45.13	191.22	246.13	81.64	45.62	318.27	50.58	92.85	246.58
43623	95.51	10.82	-8.30	55.45	53.20	446.69	45.37	187.15	251.10	74.45	43.85	305.06	50.55	91.09	251.69
43624	96.21	9.62	-8.30	51.06	52.38	446.33	44.69	181.64	256.33	66.43	43.18	293.59	49.22	88.40	257.00
43625	79.19	21.03	-8.30	126.25	38.29	451.72	4.12	237.09	119.96	140.45	41.17	463.56	12.37	82.53	120.56
43626	80.67	20.93	-8.30	125.84	39.06	450.67	10.01	236.10	122.54	138.86	42.59	459.45	12.99	84.64	121.84
43627	82.14	20.72	-8.30	123.66	40.85	448.69	16.82	234.16	127.62	135.81	44.72	452.47	17.52	88.24	125.54
43628	83.59	20.41	-8.30	119.93	43.48	446.08	23.43	231.33	135.03	131.47	47.34	443.02	23.45	92.59	131.73
43629	85.02	19.99	-8.30	114.80	46.73	442.94	29.43	227.58	144.38	125.97	50.23	431.37	29.35	97.04	140.20
43630	86.41	19.48	-8.30	108.43	50.37	439.24	34.52	222.81	155.13	119.45	53.15	417.66	34.58	101.00	150.53
43631	87.77	18.87	-8.30	101.04	54.08	434.92	38.50	216.97	166.76	112.19	55.81	402.04	38.86	104.02	162.13
43632	89.07	18.17	-8.30	93.02	57.52	429.95	41.26	210.09	178.67	104.61	57.88	384.85	42.07	105.79	174.37
43633	90.33	17.37	-8.30	84.88	60.27	424.36	42.84	202.34	190.26	97.21	58.94	366.62	44.31	106.16	186.51
43634	91.52	16.49	-8.30	77.25	61.96	418.29	43.51	194.12	200.93	90.43	58.68	348.19	45.91	105.25	197.84
43635	92.65	15.53	-8.30	70.64	62.44	412.03	43.74	186.06	210.24	84.40	57.07	330.59	47.32	103.50	207.81
43636	93.71	14.48	-8.30	65.16	61.93	405.96	43.91	178.80	218.19	78.76	54.59	314.69	48.74	101.57	216.33
43637	94.69	13.37	-8.30	60.56	60.81	400.50	44.11	172.58	225.08	72.81	51.94	300.91	49.92	99.96	223.70
43638	95.59	12.19	-8.30	56.28	59.64	396.05	43.96	166.80	231.25	65.90	49.95	289.25	50.17	98.67	230.24
43639	96.40	10.95	-8.30	51.97	58.83	392.80	42.99	160.29	236.93	57.95	48.98	279.75	48.92	97.21	236.22
43640	97.13	9.66	-8.30	47.62	58.59	390.53	41.14	152.01	242.45	49.44	48.76	272.65	46.33	94.99	241.99
43641	79.23	21.87	-8.30	141.25	27.27	398.43	5.16	225.42	86.01	148.21	28.72	408.59	8.56	69.09	86.57
43642	80.80	21.76	-8.30	140.35	28.38	397.07	12.75	224.44	89.49	146.27	30.32	403.79	13.46	72.22	88.06
43643	82.35	21.54	-8.30	137.25	30.78	394.65	21.05	222.52	96.20	142.24	33.00	396.40	21.18	78.38	92.41
43644	83.88	21.20	-8.30	132.31	34.32	391.63	28.95	219.66	105.62	136.45	36.57	387.05	28.98	86.04	99.60
43645	85.39	20.76	-8.30	125.71	38.74	388.15	35.96	215.78	117.04	129.09	40.73	376.06	35.95	94.02	109.34
43646	86.86	20.20	-8.30	117.61	43.75	384.12	41.69	210.74	129.75	120.37	45.18	363.55	41.63	101.44	121.08
43647	88.28	19.55	-8.30	108.28	48.99	379.43	45.91	204.45	143.09	110.68	49.53	349.69	45.80	107.65	134.16
43648	89.65	18.79	-8.30	98.17	54.01	374.02	48.48	196.91	156.48	100.56	53.33	334.85	48.41	112.15	147.90
43649	90.97	17.94	-8.30	87.92	58.35	367.91	49.46	188.29	169.33	90.72	56.08	319.69	49.65	114.70	161.53
43650	92.22	17.00	-8.30	78.28	61.59	361.25	49.18	178.97	181.11	81.77	57.43	305.16	50.01	115.34	174.36
43651	93.40	15.97	-8.30	69.87	63.59	354.33	48.21	169.60	191.51	73.96	57.44	292.30	50.12	114.51	185.88
43652	94.51	14.85	-8.30	62.89	64.56	347.46	47.05	160.85	200.64	66.92	56.59	281.83	50.27	112.90	196.06
43653	95.53	13.67	-8.30	57.05	64.87	340.97	45.85	152.86	208.77	59.94	55.58	273.97	50.17	111.13	205.09
43654	96.46	12.41	-8.30	51.82	64.94	335.01	44.29	144.99	216.05	52.39	54.94	268.68	49.07	109.34	213.11
43655	97.30	11.08	-8.30	46.87	65.06	329.57	41.92	136.11	222.39	44.30	54.80	266.31	46.49	107.21	220.09
43656	98.05	9.70	-8.30	42.13	65.46	324.58	38.68	125.48	228.09	36.21	54.84	267.29	42.59	104.31	226.32
43657	79.28	22.71	-8.30	155.96	15.07	342.13	5.81	213.92	52.05	158.60	15.61	350.89	6.20	54.62	52.26
43658	80.92	22.59	-8.30	154.57	16.49	340.48	15.56	213.15	57.35	156.35	17.31	345.32	15.57	60.44	54.26
43659	82.56	22.35	-8.30	150.61	19.49	337.60	25.55	211.54	66.76	151.42	20.47	337.66	25.59	71.23	59.51
43660	84.17	21.99	-8.30	144.52	23.92	334.14	34.88	209.03	78.88	144.24	24.88	328.74	34.86	83.76	67.83
43661	85.75	21.52	-8.30	136.51	29.50	330.26	43.02	205.47	92.59	135.09	30.23	319.00	42.76	96.25	78.81
43662	87.30	20.93	-8.30	126.74	35.87	325.84	49.58	200.69	107.11	124.23	36.14	308.56	48.90	107.63	91.89
43663	88.80	20.23	-8.30	115.48	42.62	320.70	54.24	194.57	121.85	112.09	42.10	297.65	53.00	117.12	106.43
43664	90.24	19.42	-8.30	103.25	49.23	314.76	56.84	187.03	136.30	99.35	47.56	286.81	55.03	124.13	121.72
43665	91.62	18.52	-8.30	90.79	55.17	308.06	57.43	178.16	149.97	86.88	51.99	276.90	55.25	128.29	136.99
43666	92.93	17.51	-8.30	78.93	60.06	300.79	56.40	168.29	162.46	75.51	55.09	269.04	54.26	129.60	151.50
43667	94.16	16.41	-8.30	68.40	63.80	293.23	54.38	158.03	173.64	65.67	56.99	264.20	52.84	128.53	164.80
43668	95.31	15.22	-8.30	59.50	66.62	285.67	51.98	148.00	183.71	57.14	58.21	262.80	51.43	125.86	176.83
43669	96.37	13.96	-8.30	51.97	68.78	278.23	49.38	138.38	192.95	49.20	59.23	264.71	49.78	122.35	187.73
43670	97.34	12.62	-8.30	45.29	70.46	270.86	46.33	128.59	201.22	41.26	60.15	269.95	47.17	118.22	197.38
43671	98.20	11.21	-8.30	39.13	71.76	263.50	42.50	117.76	208.15	33.36	60.80	279.04	43.21	113.22	205.40
43672	98.96	9.75	-8.30	33.47	72.83	256.36	37.80	105.58	213.96	26.07	60.87	291.82	38.09	107.13	211.99
43673	79.32	23.55	-8.30	169.59	4.05	291.24	6.17	203.00	19.54	170.13	4.12	298.99	6.07	40.04	18.43
43674	81.05	23.42	-8.30	167.83	5.80	289.40	18.22	202.65	29.74	167.70	5.92	292.70	18.23	51.44	21.49
43675	82.77	23.17	-8.30	163.14	9.33	286.20	29.86	201.71	43.53	162.04	9.45	285.10	29.80	68.78	28.13
43676	84.46	22.78	-8.30	156.03	14.52	282.34	40.53	199.99	58.47	153.70	14.55	277.22	40.18	86.78	37.96
43677	86.12	22.28	-8.30	146.74	21.06	278.06	49.79	197.28	73.86	143.00	20.85	269.63	48.86	103.66	50.57
43678	87.74	21.65	-8.30	135.40	28.56	273.18	57.20	193.41	89.37	130.22	27.88	262.60	55.42	118.50	65.51
43679	89.31	20.91	-8.30	122.31	36.54	267.53	62.40	188.16	104.69	115.83	35.06	256.52	59.54	130.53	82.16
43680	90.82	20.05	-8.30	108.00	44.43	261.02	65.18	181.37	119.49	100.57	41.78	252.19	61.13	139.10	99.75
43681	92.26	19.09	-8.30												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
43709	63.19	14.48	-2.70	105.19	114.31	65.75	88.68	54.85	65.87	431.60	159.71	53.41	179.53	46.63	79.29
43710	64.25	15.53	-2.70	113.58	108.18	68.18	90.35	57.29	68.58	390.42	141.45	57.22	149.19	38.15	81.72
43711	65.38	16.49	-2.70	123.33	102.34	70.41	92.35	59.04	71.46	355.60	126.61	62.11	125.27	30.81	84.64
43712	66.57	17.37	-2.70	133.82	96.61	72.47	94.41	60.30	74.46	326.36	114.83	67.35	106.70	24.91	87.82
43713	67.83	18.17	-2.70	144.58	90.89	74.34	96.25	61.18	77.39	302.51	105.64	72.39	92.24	20.32	90.90
43714	69.13	18.87	-2.70	155.25	85.21	76.01	97.70	61.78	80.13	283.94	98.46	76.88	80.91	16.69	93.67
43715	70.49	19.48	-2.70	165.55	79.76	77.49	98.71	62.17	82.67	270.33	92.89	80.67	71.90	13.61	95.98
43716	71.88	19.99	-2.70	175.23	74.77	78.77	99.27	62.40	84.95	261.16	88.59	83.68	64.54	10.74	97.70
43717	73.31	20.41	-2.70	184.09	70.54	79.83	99.41	62.51	86.92	255.69	85.29	85.88	58.35	8.00	98.75
43718	74.76	20.72	-2.70	191.96	67.35	80.66	99.19	62.57	88.53	253.07	82.76	87.27	53.02	5.65	99.09
43719	76.23	20.93	-2.70	198.67	65.48	81.23	98.66	62.62	89.72	252.48	80.82	87.85	48.33	4.61	98.75
43720	77.71	21.03	-2.70	204.08	65.11	81.54	97.90	62.69	90.47	253.15	79.30	87.67	44.22	5.64	97.77
43721	58.85	9.70	-2.70	185.62	182.17	198.22	136.44	114.39	149.63	640.37	488.20	304.77	203.44	249.01	293.77
43722	59.60	11.08	-2.70	121.12	140.71	29.12	100.18	32.89	54.55	544.11	230.38	24.90	291.64	76.81	110.32
43723	60.44	12.41	-2.70	103.12	122.58	32.61	87.94	25.55	38.79	449.69	122.32	27.71	264.47	54.43	70.49
43724	61.37	13.67	-2.70	102.41	109.38	32.18	83.30	26.16	35.85	399.87	83.14	26.87	227.63	45.95	58.97
43725	62.39	14.85	-2.70	107.99	98.94	33.86	81.94	28.53	34.91	368.02	63.32	28.84	194.65	40.19	53.28
43726	63.50	15.97	-2.70	117.08	89.69	35.08	81.87	30.94	34.33	344.08	50.92	30.89	166.65	35.13	49.08
43727	64.68	17.00	-2.70	128.31	81.00	36.25	82.73	33.23	33.80	324.82	42.79	33.27	143.49	30.47	45.73
43728	65.93	17.94	-2.70	140.88	72.51	37.30	82.09	35.38	33.20	309.18	37.54	35.67	124.48	26.26	43.00
43729	67.25	18.79	-2.70	154.17	64.03	38.26	81.31	37.38	32.52	297.06	34.23	37.90	108.77	22.49	40.74
43730	68.62	19.55	-2.70	167.63	55.56	39.12	79.57	39.20	31.76	288.37	31.99	39.87	95.52	19.06	38.81
43731	70.04	20.20	-2.70	180.75	47.18	39.88	76.79	40.81	30.97	282.89	30.24	41.50	84.04	15.83	37.13
43732	71.51	20.76	-2.70	193.08	39.07	40.54	73.09	42.20	30.21	280.15	28.77	42.79	73.72	12.64	35.63
43733	73.02	21.20	-2.70	204.22	31.42	41.09	68.75	43.35	29.56	279.46	27.50	43.72	64.10	9.42	34.25
43734	74.55	21.54	-2.70	213.81	24.52	41.53	64.19	44.26	29.05	279.99	26.46	44.30	54.91	6.11	32.99
43735	76.10	21.76	-2.70	221.50	18.88	41.84	59.99	44.92	28.74	280.88	25.65	44.54	46.13	2.81	31.86
43736	77.67	21.87	-2.70	227.01	15.49	42.01	56.81	45.34	28.65	281.35	24.99	44.44	38.03	1.65	30.90
43737	57.94	9.75	-2.70	223.75	200.08	192.11	171.83	131.38	149.97	588.59	548.94	447.12	202.40	361.97	472.12
43738	58.70	11.21	-2.70	108.57	148.78	18.08	112.57	32.26	46.65	415.90	149.78	27.13	276.92	97.44	158.81
43739	59.56	12.62	-2.70	88.31	121.89	19.38	89.01	25.20	29.28	331.72	34.35	25.71	242.63	69.43	95.27
43740	60.53	13.96	-2.70	91.35	106.22	17.50	83.64	24.64	25.76	307.79	18.60	17.79	217.61	57.53	70.43
43741	61.59	15.22	-2.70	99.24	94.45	18.39	82.00	25.54	24.47	294.86	27.04	18.59	195.10	49.99	55.32
43742	62.74	16.41	-2.70	110.42	84.44	18.99	81.77	27.08	23.37	287.95	30.67	19.29	174.35	44.65	44.09
43743	63.97	17.51	-2.70	123.76	75.23	19.62	81.72	28.72	22.13	283.38	31.57	20.25	155.70	39.99	34.92
43744	65.28	18.52	-2.70	138.53	66.31	20.19	81.06	30.33	20.66	280.52	30.90	21.13	138.97	35.67	27.28
43745	66.66	19.42	-2.70	154.14	57.45	20.71	79.21	31.85	18.93	279.39	29.06	21.92	123.83	31.52	20.89
43746	68.10	20.23	-2.70	169.96	48.64	21.18	75.81	33.22	16.96	280.01	26.35	22.57	109.78	27.45	15.58
43747	69.60	20.93	-2.70	185.38	40.05	21.59	70.70	34.41	14.77	282.22	23.06	23.08	96.35	23.33	11.19
43748	71.15	21.52	-2.70	199.84	31.87	21.95	63.90	35.43	12.41	285.59	19.56	23.45	83.12	19.09	7.65
43749	72.73	21.99	-2.70	212.79	24.37	22.25	55.64	36.25	9.91	289.45	16.29	23.69	69.76	14.68	4.94
43750	74.34	22.35	-2.70	223.74	17.76	22.50	46.45	36.90	7.32	293.00	13.67	23.82	56.17	10.12	3.10
43751	75.98	22.59	-2.70	232.24	12.31	22.68	37.30	37.39	4.73	295.37	12.03	23.82	42.55	5.64	2.18
43752	77.62	22.71	-2.70	237.90	8.57	22.79	30.13	37.72	2.42	295.74	11.35	23.70	29.66	3.27	1.92
43753	57.02	9.79	-2.70	281.43	328.26	226.67	255.44	163.36	191.07	415.92	530.72	707.60	222.17	652.65	930.52
43754	57.80	11.34	-2.70	55.72	158.32	10.88	95.74	24.92	35.89	163.70	75.50	62.13	141.11	143.25	291.80
43755	58.69	12.83	-2.70	65.43	122.64	12.73	83.72	23.62	24.64	171.55	101.25	36.61	162.83	119.36	167.10
43756	59.69	14.25	-2.70	70.74	105.49	10.30	82.01	22.76	21.79	182.85	126.60	19.28	174.39	87.05	112.94
43757	60.79	15.59	-2.70	81.84	93.24	10.27	82.73	24.00	20.69	197.62	125.65	15.82	174.66	72.78	80.51
43758	61.98	16.85	-2.70	95.36	82.96	10.06	84.24	25.61	19.80	211.84	114.15	13.67	169.27	62.02	58.52
43759	63.27	18.02	-2.70	110.94	73.38	9.89	85.43	27.26	18.77	224.96	99.01	12.50	160.31	53.55	42.09
43760	64.64	19.09	-2.70	128.07	63.89	9.73	85.53	28.76	17.57	237.24	83.10	11.62	149.28	46.15	29.35
43761	66.08	20.05	-2.70	146.16	54.26	9.60	83.92	30.03	16.20	249.04	67.64	10.92	136.82	39.45	19.36
43762	67.59	20.91	-2.70	164.52	44.55	9.49	80.17	31.04	14.72	260.54	53.18	10.37	123.15	33.27	11.58
43763	69.16	21.65	-2.70	182.45	35.02	9.41	74.03	31.81	13.23	271.63	40.05	9.94	108.29	27.49	5.76
43764	70.78	22.28	-2.70	199.23	26.06	9.35	65.44	32.37	11.78	281.97	28.49	9.63	92.20	22.01	2.84
43765	72.44	22.78	-2.70	214.18	18.10	9.29	54.51	32.75	10.47	290.95	18.78	9.41	74.86	16.85	4.40
43766	74.13	23.17	-2.70	226.67	11.55	9.25	41.56	33.02	9.37	297.84	11.23	9.28	56.37	12.26	6.53
43767	75.85	23.42	-2.70	236.12	6.77	9.22	27.14	33.22	8.54	301.81	6.32	9.22	37.08	9.30	7.93
43768	77.58	23.55	-2.70	242.07	4.08	9.20	12.77	33.41	8.05	302.10	4.43	9.21	17.85	9.78	8.47
43769	60.69	9.62	-4.10	83.36	89.46	306.50	44.37	136.12	168.00	71.28	148.10	261.34	46.04	208.22	208.67
43770	61.39	10.82	-4.10	72.58	95.22	280.42	54.45	126.96	176.74	102.95	144.81	238.83	51.84	157.18	212.21
43771	62.18	11.98	-4.10	67.92	92.70	275.59	57.11	129.34	165.90	137.39	121.12	225.79	62.12	129.36	191.39
43772	63.05	13.08	-4.10	69.30	87.37	284.63	58.10	135.74	164.08	156.45	98.49	225.69	66.73	111.78	184.74
43773	63.99	14.11	-4.10	74.58	81.67	292.83	58.48	141.02	164.60	165.84	80.04	233.07	65.72	96.34	183.54
43774	65.01	15.08	-4.10	81.75	75.90	300.64	58.86	145.19	166.13	169.07	65.42	247.89	61.96	81.42	184.24
43775	66.08	15.98	-4.10	89.94	70.08	307.99	59.33	148.57	168.03	169.09	53.78	267.05	57.16	68.17	186.14
43776	67.22	16.80	-4.10	98.77	64.13	314.88	59.76	151.34	170.10	167.88	45.01	287.73	52.17	56.81	188.27
43777	68.41	17.54	-4.10	107.81	57.97	321.13	59.98	153.74	172.08	166.62	38.27	307.71	47.33	47.16	190.33
43778	69.65	18.19	-4.10	116.77	51.61	326.77	59.90	155.82	173.91	166.00	33.06	325.77	42.88	39.10	192.10
43779	70.93	18.76	-4.10	125.41	45.04	331.79	59.50	157.60	175.60	166.33	28.98	341.22	38.80	32.45	193.43
43780	72.25	19.23	-4.10	133.51	38.33	3									



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
43807	64.68	17.00	-4.10	89.00	57.72	124.76	82.41	88.61	97.41	168.21	26.12	113.38	91.33	81.24	125.94
43808	65.93	17.94	-4.10	103.29	49.60	128.15	82.56	93.62	96.16	173.67	26.15	121.40	89.79	68.28	119.11
43809	67.25	18.79	-4.10	118.25	42.36	131.25	81.22	98.23	94.72	179.84	28.23	128.90	86.26	57.34	113.82
43810	68.62	19.55	-4.10	133.30	36.53	134.04	78.18	102.40	93.12	187.01	31.16	135.49	81.00	47.93	109.52
43811	70.04	20.20	-4.10	147.90	32.74	136.49	73.40	106.07	91.46	194.98	34.47	140.99	74.09	39.53	105.86
43812	71.51	20.76	-4.10	161.52	31.35	138.62	67.00	109.21	89.89	203.27	37.82	145.35	65.61	31.67	102.63
43813	73.02	21.20	-4.10	173.69	32.04	140.40	59.30	111.79	88.55	211.24	40.91	148.56	55.66	24.07	99.73
43814	74.55	21.54	-4.10	183.97	33.90	141.83	50.87	113.82	87.52	218.19	43.41	150.63	44.48	16.71	97.09
43815	76.10	21.76	-4.10	191.98	35.93	142.86	42.74	115.27	86.90	223.47	45.00	151.56	32.49	10.26	94.73
43816	77.67	21.87	-4.10	197.40	37.42	143.44	36.54	116.17	86.72	226.54	45.45	151.36	20.50	8.07	92.73
43817	57.94	9.75	-4.10	114.01	115.07	187.66	82.20	135.38	129.70	55.23	184.15	522.90	71.97	543.05	572.55
43818	58.70	11.21	-4.10	65.91	118.47	110.99	84.81	74.29	128.73	29.47	180.72	229.58	47.18	306.80	449.82
43819	59.56	12.62	-4.10	52.90	101.68	72.04	73.26	56.05	92.54	73.19	85.00	92.57	26.18	211.24	283.71
43820	60.53	13.96	-4.10	57.30	89.05	69.68	73.28	58.01	81.80	99.10	26.79	73.70	61.41	168.60	206.83
43821	61.59	15.22	-4.10	66.52	78.70	70.63	75.67	62.85	77.22	120.27	8.06	70.65	81.84	140.22	161.43
43822	62.74	16.41	-4.10	78.90	69.19	72.92	78.27	68.30	74.10	136.98	18.97	73.20	92.32	119.13	131.21
43823	63.97	17.51	-4.10	93.27	59.98	75.33	80.16	73.74	70.99	151.26	23.40	76.86	96.55	101.91	109.22
43824	65.28	18.52	-4.10	109.00	50.77	77.69	80.75	78.95	67.47	164.44	23.10	80.66	96.72	87.34	92.48
43825	66.66	19.42	-4.10	125.50	41.57	79.89	79.59	83.80	63.44	177.42	20.29	84.11	93.89	74.69	79.40
43826	68.10	20.23	-4.10	142.15	32.65	81.87	76.39	88.16	58.98	190.44	16.75	87.03	88.54	63.38	68.96
43827	69.60	20.93	-4.10	158.32	24.57	83.62	71.00	91.98	54.22	203.32	14.27	89.37	80.91	52.87	60.53
43828	71.15	21.52	-4.10	173.40	18.23	85.13	63.47	95.21	49.43	215.56	14.35	91.13	71.13	42.69	53.73
43829	72.73	21.99	-4.10	186.81	14.88	86.41	54.01	97.85	44.90	226.52	16.66	92.33	59.39	32.48	48.31
43830	74.34	22.35	-4.10	198.05	14.86	87.45	43.09	99.89	40.98	235.52	19.64	93.00	45.98	22.03	44.12
43831	75.98	22.59	-4.10	206.64	16.47	88.22	31.62	101.35	38.07	241.87	22.01	93.15	31.38	11.35	41.08
43832	77.62	22.71	-4.10	212.20	17.88	88.66	21.85	102.26	36.58	245.00	23.07	92.73	16.42	2.92	39.17
43833	57.02	9.79	-4.10	142.85	171.26	175.06	119.68	141.62	143.74	116.58	222.49	799.87	138.49	836.92	1072.00
43834	57.80	11.34	-4.10	39.18	130.68	87.82	75.35	61.58	115.69	35.47	194.14	360.26	89.63	381.22	700.86
43835	58.69	12.83	-4.10	47.74	103.87	42.53	67.95	54.29	80.47	13.69	55.19	131.77	15.10	286.91	419.25
43836	59.69	14.25	-4.10	53.65	91.42	38.19	69.21	55.28	70.58	47.24	19.64	84.92	39.58	218.72	284.06
43837	60.79	15.59	-4.10	65.10	82.53	36.63	72.79	59.27	65.95	77.85	52.41	65.15	70.72	179.91	204.35
43838	61.98	16.85	-4.10	78.95	74.41	36.39	76.55	64.32	62.60	104.25	63.90	57.74	88.52	151.58	152.11
43839	63.27	18.02	-4.10	94.73	66.14	36.47	79.40	69.53	59.05	127.67	64.08	53.85	97.57	129.21	114.67
43840	64.64	19.09	-4.10	111.91	57.39	36.77	80.72	74.49	54.91	149.23	58.38	51.25	100.69	110.29	86.62
43841	66.08	20.05	-4.10	129.92	48.14	37.21	80.02	78.95	50.08	169.59	49.71	49.15	99.44	93.73	65.10
43842	67.59	20.91	-4.10	148.12	38.61	37.71	76.96	82.82	44.63	188.95	39.71	47.32	94.62	78.87	48.39
43843	69.16	21.65	-4.10	165.80	29.16	38.23	71.35	86.05	38.66	207.10	29.48	45.72	86.65	65.13	35.34
43844	70.78	22.28	-4.10	182.26	20.26	38.71	63.17	88.66	32.32	223.57	19.82	44.35	75.82	52.06	25.20
43845	72.44	22.78	-4.10	196.87	12.44	39.16	52.59	90.70	25.76	237.73	11.48	43.20	62.45	39.34	17.55
43846	74.13	23.17	-4.10	209.01	6.35	39.54	39.90	92.23	19.13	248.88	5.53	42.27	46.92	26.99	12.15
43847	75.85	23.42	-4.10	218.15	3.26	39.84	25.63	93.33	12.73	256.37	4.20	41.54	29.78	16.13	8.87
43848	77.58	23.55	-4.10	223.85	3.57	40.02	10.93	94.08	7.68	259.59	5.35	40.93	11.75	12.86	7.43
43849	60.69	9.62	-5.50	111.86	75.53	347.72	44.00	139.81	183.67	349.42	108.43	267.04	95.90	208.00	239.80
43850	61.39	10.82	-5.50	87.23	73.49	338.72	44.47	136.56	190.94	234.79	102.90	263.94	93.38	187.12	239.07
43851	62.18	11.98	-5.50	73.02	72.16	333.29	43.21	140.32	188.76	140.04	93.67	259.13	66.86	166.20	225.35
43852	63.05	13.08	-5.50	68.84	69.94	334.82	42.04	146.82	184.11	80.33	75.36	259.77	40.43	146.04	211.30
43853	63.99	14.11	-5.50	70.48	66.84	339.90	41.43	153.35	181.04	57.59	58.27	268.28	25.28	127.52	202.55
43854	65.01	15.08	-5.50	75.45	63.54	345.57	41.33	159.45	178.62	61.50	45.72	282.65	21.96	110.53	196.24
43855	66.08	15.98	-5.50	82.15	60.13	351.38	41.48	165.07	176.35	73.36	37.85	300.70	24.17	95.94	191.65
43856	67.22	16.80	-5.50	90.04	56.44	356.99	41.58	170.31	173.99	85.71	34.15	320.04	26.82	83.56	187.63
43857	68.41	17.54	-5.50	98.56	52.54	362.20	41.24	175.17	171.49	97.17	32.59	338.87	28.29	72.96	184.03
43858	69.65	18.19	-5.50	107.28	48.43	366.94	40.29	179.56	168.94	107.66	31.91	356.08	28.51	63.98	180.69
43859	70.93	18.76	-5.50	115.86	44.20	371.17	38.64	183.42	166.49	117.29	31.40	371.03	27.52	56.40	177.53
43860	72.25	19.23	-5.50	123.96	39.96	374.84	36.31	186.71	164.31	126.07	30.75	383.38	25.45	50.20	174.55
43861	73.59	19.62	-5.50	131.32	35.91	377.94	33.43	189.43	162.53	133.88	29.94	392.96	22.40	45.60	171.78
43862	74.96	19.90	-5.50	137.69	32.25	380.41	30.24	191.57	161.26	140.57	29.05	399.73	18.53	42.87	169.29
43863	76.35	20.10	-5.50	142.85	29.26	382.20	27.11	193.11	160.55	145.96	28.20	403.66	14.06	42.21	167.14
43864	77.75	20.20	-5.50	146.61	27.25	383.24	24.55	194.04	160.43	149.83	27.48	404.73	9.33	43.47	165.45
43865	59.77	9.66	-5.50	116.23	83.75	295.40	54.18	125.64	167.56	374.98	128.85	260.70	129.71	277.11	285.25
43866	60.50	10.95	-5.50	83.40	79.74	281.00	55.49	113.05	177.70	240.23	121.72	224.15	125.82	236.52	278.48
43867	61.31	12.19	-5.50	65.62	76.01	269.23	52.36	114.72	173.52	131.33	107.12	209.42	83.69	202.46	248.74
43868	62.21	13.37	-5.50	62.30	71.93	267.77	50.59	122.09	166.33	67.63	79.73	209.22	45.61	173.76	220.24
43869	63.19	14.48	-5.50	66.06	67.17	271.99	50.46	129.87	162.16	47.44	56.78	217.52	27.31	148.61	201.86
43870	64.25	15.53	-5.50	73.37	62.43	277.33	51.01	137.00	159.09	57.40	42.28	230.39	28.16	126.71	189.33
43871	65.38	16.49	-5.50	82.57	57.69	282.96	51.60	143.60	156.28	73.68	34.92	245.96	34.21	108.13	180.24
43872	66.57	17.37	-5.50	92.97	52.76	288.44	51.77	149.74	153.36	89.32	31.92	262.25	38.86	92.64	173.11
43873	67.83	18.17	-5.50	104.00	47.60	293.55	51.09	155.42	150.24	103.74	30.50	277.89	41.17	79.64	167.15
43874	69.13	18.87	-5.50	115.19	42.27	298.17	49.31	160.56	147.01	117.09	29.17	291.98	41.33	68.52	161.97
43875	70.49	19.48	-5.50	126.09	36.91	302.26	46.33	165.06	143.86	129.47	27.44	304.08	39.57	58.79	157.35
43876	71.88	19.99	-5.50	136.30	31.70	305.80	42.17	168.90	141.00	140.75	25.28	313.95	36.09	50.18	153.18
43877	73.31	20.41	-5.50	145.48	26.84	308.79	37.00	172.06	138.60	150.72	22.90				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
43905	66.66	19.42	-5.50	113.50	42.88	157.35	67.09	124.57	99.13	112.74	29.91	164.81	62.87	110.26	120.06
43906	68.10	20.23	-5.50	128.99	35.19	161.21	64.70	130.79	92.26	131.88	26.55	170.45	63.27	93.91	105.51
43907	69.60	20.93	-5.50	143.99	27.54	164.61	60.16	136.19	85.13	149.89	22.07	175.04	60.40	78.90	93.73
43908	71.15	21.52	-5.50	157.94	20.34	167.54	53.47	140.71	78.11	166.33	17.33	178.56	54.57	64.53	84.18
43909	72.73	21.99	-5.50	170.32	14.09	170.03	44.81	144.37	71.63	180.70	13.20	181.05	46.12	50.29	76.53
43910	74.34	22.35	-5.50	180.68	9.31	172.08	34.47	147.17	66.14	192.48	10.38	182.56	35.49	35.98	70.60
43911	75.98	22.59	-5.50	188.59	6.51	173.62	22.97	149.15	62.14	201.16	8.99	183.06	23.18	21.82	66.29
43912	77.62	22.71	-5.50	193.66	5.56	174.53	11.60	150.32	60.11	206.30	8.26	182.43	9.85	10.68	63.58
43913	77.02	9.79	-5.50	162.64	171.18	143.42	126.01	130.81	143.84	468.43	427.88	834.50	355.22	820.54	1067.97
43914	57.80	11.34	-5.50	32.45	111.42	129.61	63.11	68.91	132.60	73.52	232.08	490.53	145.83	436.29	760.54
43915	58.69	12.83	-5.50	41.51	88.63	99.64	57.64	76.26	124.61	71.14	133.75	278.94	87.62	378.27	545.60
43916	59.69	14.25	-5.50	46.35	78.57	87.88	58.47	81.31	113.72	31.67	60.77	177.90	41.02	301.55	386.82
43917	60.79	15.59	-5.50	56.84	72.37	86.18	62.24	88.57	106.70	24.88	30.25	143.46	24.90	251.64	284.61
43918	61.98	16.85	-5.50	69.97	66.77	87.40	66.63	96.41	100.76	44.97	34.79	130.52	40.16	212.70	215.17
43919	63.27	18.02	-5.50	85.07	60.61	89.91	70.21	104.28	94.67	69.12	41.39	125.82	55.05	181.52	165.40
43920	64.64	19.09	-5.50	101.51	53.58	92.90	72.26	111.74	87.86	92.92	42.63	123.77	64.73	155.40	128.46
43921	66.08	20.05	-5.50	118.70	45.75	95.99	72.26	118.47	80.17	115.99	39.69	122.57	69.66	132.89	100.33
43922	67.59	20.91	-5.50	135.97	37.37	98.94	69.89	124.32	71.68	138.15	34.12	121.60	70.38	112.79	78.45
43923	69.16	21.65	-5.50	152.66	28.88	101.61	65.00	129.21	62.59	158.99	27.15	120.62	67.28	94.16	61.24
43924	70.78	22.28	-5.50	168.13	20.76	103.96	57.60	133.19	53.15	177.97	19.80	119.58	60.71	76.21	47.72
43925	72.44	22.78	-5.50	181.80	13.52	105.98	47.88	136.31	43.67	194.44	12.91	118.48	51.05	58.38	37.37
43926	74.13	23.17	-5.50	193.15	7.63	107.67	36.13	138.64	34.56	207.78	7.31	117.34	38.79	40.30	29.86
43927	75.85	23.42	-5.50	201.71	3.57	108.97	22.79	140.27	26.65	217.42	3.82	116.10	24.53	21.87	24.99
43928	77.58	23.55	-5.50	207.05	1.84	109.75	8.46	141.30	21.63	222.83	2.80	114.60	8.97	4.81	22.53
43929	60.69	9.62	-6.90	158.88	64.62	404.11	55.71	148.66	209.98	711.07	86.56	295.41	221.39	236.69	278.55
43930	61.39	10.82	-6.90	112.59	65.31	398.13	50.55	151.73	213.28	502.04	94.70	295.92	213.35	237.88	275.15
43931	62.18	11.98	-6.90	83.32	64.76	393.06	41.09	158.31	212.23	340.52	92.82	295.37	168.34	222.98	261.25
43932	63.05	13.08	-6.90	69.96	63.69	392.13	34.02	165.57	208.72	234.06	79.19	298.86	121.82	198.87	244.47
43933	63.99	14.11	-6.90	66.52	63.15	394.64	30.51	172.59	204.25	168.26	65.00	308.65	87.17	173.87	229.91
43934	65.01	15.08	-6.90	68.39	62.75	399.01	29.29	179.59	199.57	129.16	55.30	323.87	63.83	151.36	217.87
43935	66.08	15.98	-6.90	73.13	62.23	404.10	29.24	186.44	194.37	107.87	50.33	342.28	49.04	132.77	207.96
43936	67.22	16.80	-6.90	79.64	61.17	409.30	29.56	193.08	188.63	98.35	48.89	361.84	40.26	117.55	198.97
43937	68.41	17.54	-6.90	87.18	59.56	414.24	29.55	199.33	182.50	96.84	48.67	380.92	35.36	104.84	190.79
43938	69.65	18.19	-6.90	95.14	57.45	418.74	28.84	204.98	176.25	100.14	48.69	398.50	32.16	94.14	183.29
43939	70.93	18.76	-6.90	103.08	54.96	422.73	27.22	209.91	170.25	105.87	48.53	413.92	29.35	85.08	176.49
43940	72.25	19.23	-6.90	110.62	52.31	426.18	24.65	214.09	164.82	112.49	48.12	426.85	26.23	77.55	170.48
43941	73.59	19.62	-6.90	117.45	49.71	429.09	21.18	217.52	160.25	119.05	47.57	437.15	22.52	71.66	165.33
43942	74.96	19.90	-6.90	123.34	47.37	431.45	16.95	220.20	156.76	124.95	47.03	444.77	18.23	67.63	161.15
43943	76.35	20.10	-6.90	128.05	45.52	433.22	12.24	222.10	154.46	129.75	46.66	449.66	13.52	65.60	157.99
43944	77.75	20.20	-6.90	131.35	44.36	434.29	7.59	223.16	153.41	133.12	46.60	451.72	8.85	65.54	155.94
43945	59.77	9.66	-6.90	176.67	72.61	351.90	70.26	128.93	195.01	767.57	118.54	298.87	270.21	278.02	327.35
43946	60.50	10.95	-6.90	113.06	72.53	345.61	63.50	126.49	199.76	502.91	131.02	270.14	257.64	278.61	320.08
43947	61.31	12.19	-6.90	76.89	69.14	338.30	49.24	133.62	198.30	315.18	120.90	259.73	189.57	259.83	294.13
43948	62.21	13.37	-6.90	63.88	65.46	335.74	40.33	142.41	193.59	206.70	95.67	260.67	128.04	229.89	263.78
43949	63.19	14.48	-6.90	62.57	63.28	337.77	37.07	150.90	187.99	144.62	72.70	269.51	86.17	198.72	237.28
43950	64.25	15.53	-6.90	66.70	61.65	342.33	36.72	159.15	182.31	109.55	58.16	283.72	60.35	171.13	216.58
43951	65.38	16.49	-6.90	73.72	59.93	347.80	37.48	167.24	176.19	92.64	50.84	300.58	46.10	148.21	200.27
43952	66.57	17.37	-6.90	82.46	57.67	353.44	38.29	175.04	169.49	88.19	47.74	318.17	39.54	129.51	186.79
43953	67.83	18.17	-6.90	92.19	54.77	358.79	38.42	182.33	162.30	91.69	46.06	335.10	36.98	113.95	175.18
43954	69.13	18.87	-6.90	102.26	51.32	363.65	37.44	188.90	154.90	99.46	44.46	350.47	35.47	100.61	165.00
43955	70.49	19.48	-6.90	112.16	47.53	367.93	35.17	194.62	147.68	109.00	42.53	363.78	33.47	88.83	156.06
43956	71.88	19.99	-6.90	121.47	43.67	371.62	31.56	199.44	141.05	118.79	40.31	374.82	30.33	78.33	148.31
43957	73.31	20.41	-6.90	129.82	40.02	374.75	26.70	203.38	135.36	127.94	38.05	383.51	25.94	69.19	141.75
43958	74.76	20.72	-6.90	136.95	36.85	377.33	20.79	206.44	130.91	135.87	36.03	389.85	20.40	61.77	136.42
43959	76.23	20.93	-6.90	142.55	34.42	379.28	14.10	208.59	127.91	142.13	34.54	393.80	14.04	56.67	132.38
43960	77.71	21.03	-6.90	146.36	32.93	380.44	7.15	209.79	126.48	146.36	33.77	395.19	7.49	54.48	129.70
43961	58.85	9.70	-6.90	197.86	84.46	290.72	89.20	121.38	179.34	818.48	169.36	420.06	334.20	345.60	425.92
43962	59.60	11.08	-6.90	107.82	83.61	287.31	76.77	106.43	185.48	470.98	185.49	303.75	301.81	329.85	404.21
43963	60.44	12.41	-6.90	66.26	74.60	278.66	54.85	113.02	183.28	266.08	152.96	248.07	199.80	303.64	354.09
43964	61.37	13.67	-6.90	56.70	67.25	274.45	44.81	122.80	177.36	170.09	108.68	232.84	126.06	265.76	300.99
43965	62.39	14.85	-6.90	58.43	63.46	275.86	42.65	132.28	170.61	117.84	76.29	235.72	81.10	227.80	255.81
43966	63.50	15.97	-6.90	65.01	60.75	280.42	43.57	141.51	163.90	89.34	57.68	246.42	55.40	194.99	221.31
43967	64.68	17.00	-6.90	74.33	57.97	286.14	45.33	150.56	156.78	78.46	49.08	260.06	43.85	167.83	195.06
43968	65.93	17.94	-6.90	85.30	54.56	292.09	46.75	159.27	148.99	79.95	45.38	274.30	40.94	145.61	174.45
43969	67.25	18.79	-6.90	97.19	50.40	297.75	47.10	167.36	140.55	88.74	42.95	287.85	41.21	127.05	157.62
43970	68.62	19.55	-6.90	109.34	45.62	302.87	45.92	174.60	131.73	100.91	40.22	299.97	41.30	110.89	143.49
43971	70.04	20.20	-6.90	121.18	40.53	307.36	43.04	180.86	122.93	114.08	36.90	310.29	39.84	96.20	131.51
43972	71.51	20.76	-6.90	132.22	35.47	311.22	38.44	186.11	114.60	126.90	33.20	318.68	36.42	82.46	121.41
43973	73.02	21.20	-6.90	142.07	30.80	314.52	32.24	190.36	107.23	138.52	29.50	325.16	31.07	69.56	113.06
43974	74.55	21.54	-6.90	150.40	26.86	317.29	24.67	193.64	101.25	148.40	26.22	329.78	24.06	57.83	106.43
43975															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
44003	69.16	21.65	-6.90	137.62	28.51	186.52	57.86	162.63	77.33	127.55	26.24	214.96	53.83	121.38	73.35
44004	70.78	22.28	-6.90	151.91	21.28	190.69	51.42	167.20	65.01	145.47	20.20	214.94	49.44	100.32	56.42
44005	72.44	22.78	-6.90	164.52	14.77	194.29	42.77	170.76	52.68	161.33	14.32	214.48	42.10	79.28	43.25
44006	74.13	23.17	-6.90	175.03	9.42	197.36	32.24	173.39	40.77	174.53	9.28	213.68	32.25	58.02	33.54
44007	75.85	23.42	-6.90	183.04	5.61	199.78	20.20	175.17	30.16	184.51	5.60	212.44	20.40	36.76	27.06
44008	77.58	23.55	-6.90	188.08	3.62	201.26	7.11	176.20	23.07	190.71	3.65	210.41	7.18	18.37	23.62
44009	60.69	9.62	-8.30	196.58	54.23	471.58	71.71	167.34	240.15	1012.46	74.47	332.73	334.16	314.31	320.93
44010	61.39	10.82	-8.30	131.04	57.77	463.09	62.72	175.26	240.50	702.90	95.42	332.52	313.07	314.94	315.13
44011	62.18	11.98	-8.30	89.59	58.33	457.07	48.74	182.08	238.88	485.05	99.51	334.36	250.06	290.79	298.18
44012	63.05	13.08	-8.30	68.46	58.04	455.18	38.01	188.15	235.34	349.64	88.37	341.26	190.09	256.55	277.30
44013	63.99	14.11	-8.30	59.76	58.73	456.92	31.99	194.30	230.19	267.23	75.69	353.85	146.27	222.91	258.37
44014	65.01	15.08	-8.30	58.00	60.00	460.96	29.25	201.18	223.84	215.91	66.25	371.02	115.56	194.00	241.95
44015	66.08	15.98	-8.30	60.21	61.05	466.10	28.39	208.47	216.15	183.33	60.38	391.04	93.83	171.04	227.78
44016	67.22	16.80	-8.30	64.92	61.23	471.50	28.29	215.79	207.29	162.00	57.50	412.06	78.22	152.90	214.58
44017	68.41	17.54	-8.30	71.12	60.47	476.62	28.07	222.72	197.75	148.53	55.61	432.52	67.02	138.16	202.37
44018	69.65	18.19	-8.30	78.02	58.89	481.23	27.17	228.92	188.07	140.65	54.18	451.36	58.33	126.00	191.20
44019	70.93	18.76	-8.30	85.01	56.76	485.24	25.37	234.28	178.82	136.59	52.92	467.95	51.05	115.86	181.23
44020	72.25	19.23	-8.30	91.66	54.36	488.65	22.63	238.78	170.46	135.05	51.82	481.96	44.48	107.57	172.59
44021	73.59	19.62	-8.30	97.69	51.93	491.51	19.02	242.47	163.37	135.03	50.93	493.30	38.23	101.13	165.41
44022	74.96	19.90	-8.30	102.88	49.70	493.83	14.67	245.36	157.88	135.74	50.36	501.93	32.17	96.66	159.78
44023	76.35	20.10	-8.30	107.05	47.92	495.61	9.83	247.42	154.15	136.55	50.19	507.82	26.36	94.17	155.77
44024	77.75	20.20	-8.30	109.95	46.84	496.74	4.89	248.52	152.20	136.92	50.55	510.84	20.99	93.50	153.34
44025	59.77	9.66	-8.30	229.10	63.16	421.68	90.81	136.95	225.26	1128.56	116.06	322.25	407.00	327.13	368.23
44026	60.50	10.95	-8.30	135.92	66.49	413.81	76.70	146.11	226.54	708.59	145.67	309.60	370.41	343.26	361.62
44027	61.31	12.19	-8.30	83.86	63.64	407.28	54.63	155.84	224.72	446.57	138.62	306.71	272.69	320.67	334.48
44028	62.21	13.37	-8.30	62.33	60.25	404.89	40.19	164.18	220.08	308.71	112.42	311.66	193.78	283.45	299.95
44029	63.19	14.48	-8.30	55.60	59.31	406.61	33.54	172.18	213.62	232.36	89.28	323.06	142.28	245.40	267.83
44030	64.25	15.53	-8.30	56.03	59.70	411.08	31.49	180.62	205.87	186.71	73.85	339.04	108.95	212.41	241.24
44031	65.38	16.49	-8.30	60.51	59.98	416.88	31.71	189.50	196.84	158.95	64.58	357.56	86.95	185.78	219.40
44032	66.57	17.37	-8.30	67.49	59.34	422.98	32.60	198.34	186.60	142.33	59.18	376.84	72.17	164.63	200.70
44033	67.83	18.17	-8.30	75.93	57.60	428.77	33.08	206.63	175.51	133.25	55.42	395.45	62.02	147.34	184.19
44034	69.13	18.87	-8.30	84.94	54.97	433.95	32.51	214.03	164.14	129.45	52.19	412.44	54.33	132.63	169.55
44035	70.49	19.48	-8.30	93.87	51.78	438.44	30.65	220.39	153.07	129.10	49.18	427.25	47.73	119.74	156.74
44036	71.88	19.99	-8.30	102.23	48.39	442.25	27.47	225.69	142.86	130.82	46.38	439.65	41.40	108.38	145.75
44037	73.31	20.41	-8.30	109.73	45.11	445.47	23.10	230.00	134.03	133.55	43.95	449.58	34.97	98.65	136.67
44038	74.76	20.72	-8.30	116.13	42.21	448.16	17.73	233.35	127.06	136.49	42.05	457.09	28.39	90.87	129.57
44039	76.23	20.93	-8.30	121.23	39.95	450.28	11.72	235.73	122.30	138.99	40.87	462.13	21.90	85.43	124.52
44040	77.71	21.03	-8.30	124.69	38.61	451.57	5.69	237.00	119.90	140.46	40.57	464.43	16.10	82.64	121.50
44041	58.85	9.70	-8.30	269.43	78.53	356.63	118.89	116.63	208.69	1253.75	188.80	423.65	508.95	345.19	453.82
44042	59.60	11.08	-8.30	132.72	80.45	353.47	92.61	121.54	211.38	666.61	224.69	337.53	428.31	373.36	438.93
44043	60.44	12.41	-8.30	71.59	69.60	348.33	58.34	133.70	209.46	369.99	185.02	302.17	278.38	352.27	393.47
44044	61.37	13.67	-8.30	54.13	61.19	346.10	41.38	144.05	203.89	251.17	133.53	293.84	184.98	311.85	339.01
44045	62.39	14.85	-8.30	50.97	58.31	347.97	35.68	153.61	196.14	189.80	99.07	298.82	131.89	270.11	288.56
44046	63.50	15.97	-8.30	54.14	57.61	352.87	35.13	163.40	187.16	153.54	77.77	310.53	99.17	233.56	247.52
44047	64.68	17.00	-8.30	61.13	56.92	359.23	36.73	173.49	177.04	133.02	65.34	325.34	78.95	203.65	215.07
44048	65.93	17.94	-8.30	70.47	55.24	365.94	38.64	183.40	165.71	122.49	57.86	341.02	66.45	179.56	188.70
44049	67.25	18.79	-8.30	81.14	52.35	372.32	39.70	192.60	153.39	118.93	52.44	356.16	58.40	159.60	166.53
44050	68.62	19.55	-8.30	92.25	48.51	378.03	39.27	200.73	140.56	120.09	47.63	369.89	52.39	142.16	147.54
44051	70.04	20.20	-8.30	103.09	44.11	382.96	37.14	207.66	127.77	124.13	42.99	381.72	46.80	126.26	131.30
44052	71.51	20.76	-8.30	113.13	39.61	387.17	33.30	213.38	115.60	129.57	38.58	391.47	40.79	111.46	117.61
44053	73.02	21.20	-8.30	122.06	35.38	390.80	27.92	217.98	104.67	135.37	34.63	399.18	34.02	97.82	106.39
44054	74.55	21.54	-8.30	129.65	31.76	393.96	21.29	221.53	95.68	140.76	31.42	404.98	26.53	85.83	97.67
44055	76.10	21.76	-8.30	135.66	29.06	396.59	13.84	224.01	89.27	145.13	29.26	408.83	18.71	76.29	91.46
44056	77.67	21.87	-8.30	139.67	27.52	398.25	6.34	225.32	85.95	147.79	28.34	410.24	11.52	70.38	87.76
44057	57.94	9.75	-8.30	316.71	115.84	271.52	162.87	115.08	191.52	1374.48	358.77	696.71	668.02	415.33	625.22
44058	58.70	11.21	-8.30	108.10	103.33	284.02	102.44	104.89	195.28	519.81	344.47	453.67	450.53	406.97	562.36
44059	59.56	12.62	-8.30	51.43	73.35	284.19	54.48	118.84	193.52	248.75	220.40	345.74	241.05	385.05	478.87
44060	60.53	13.96	-8.30	45.06	60.31	282.95	41.41	130.43	187.38	183.96	145.20	305.89	160.20	340.87	395.48
44061	61.59	15.22	-8.30	45.79	55.81	285.51	38.48	140.97	178.64	140.48	101.89	294.05	113.87	296.84	321.29
44062	62.74	16.41	-8.30	52.19	54.06	290.91	40.07	151.53	168.79	117.77	76.45	295.98	86.27	257.66	261.76
44063	63.97	17.51	-8.30	61.77	52.37	297.92	43.14	162.21	157.99	106.13	61.99	303.44	70.48	224.82	215.60
44064	65.28	18.52	-8.30	73.52	49.64	305.35	45.94	172.52	146.05	103.05	53.25	312.79	61.81	197.80	179.34
44065	66.66	19.42	-8.30	86.44	45.62	312.43	47.39	181.91	133.02	105.97	46.75	322.25	56.81	174.93	150.02
44066	68.10	20.23	-8.30	98.63	40.59	318.77	46.90	190.07	119.22	112.76	40.79	330.86	52.88	154.49	125.75
44067	69.60	20.93	-8.30	112.32	35.02	324.25	44.30	196.91	105.11	121.55	34.93	338.14	48.44	135.31	105.51
44068	71.15	21.52	-8.30	123.97	29.43	328.94	39.63	202.49	91.18	130.89	29.26	343.94	42.74	116.80	88.80
44069	72.73	21.99	-8.30	134.26	24.29	333.03	33.11	206.93	77.98	139.81	24.10	348.34	35.57	98.93	75.34
44070	74.34	22.35	-8.30	142.97	20.00	336.71	25.08	210.30	66.28	147.67	19.85	351.56	27.07	82.09	65.02
44071	75.98	22.59	-8.30	149.84	16.89	339.86	15.98	212.60	57.17	153.88	16.87	353.51	17.61	67.34	57.73
44072	77.62	22.71	-8.30	154.35	15.22	341.90	6.56	213.79	52.01	157.75	15.				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
44101	86.43	-2.50	-2.70	23.10	22.07	297.61	28.04	290.66	298.08	33.12	35.28	258.33	28.52	84.92	298.09
44102	86.39	-3.10	-2.70	24.75	22.48	299.80	27.68	289.97	296.18	34.70	35.24	261.69	28.41	84.74	296.19
44103	87.66	-2.50	-2.70	22.89	25.09	319.96	32.65	275.36	298.27	40.49	37.04	252.08	33.03	79.83	298.25
44104	87.62	-3.10	-2.70	24.96	25.54	321.73	32.26	274.81	296.35	42.04	37.04	255.42	32.84	79.80	296.31
44105	88.88	-2.50	-2.70	23.56	28.52	341.41	37.33	257.57	297.50	50.33	39.13	245.21	37.63	72.70	297.44
44106	88.84	-3.10	-2.70	25.99	28.99	342.79	36.92	257.22	295.57	51.79	39.14	248.49	37.39	72.95	295.47
44107	90.11	-2.50	-2.70	25.38	32.40	361.09	42.25	237.29	295.61	62.63	41.63	238.66	42.48	64.02	295.50
44108	90.06	-3.10	-2.70	28.06	32.89	362.11	41.85	237.21	293.70	63.95	41.67	241.85	42.20	64.73	293.54
44109	91.34	-2.50	-2.70	28.46	36.77	378.11	47.71	214.72	292.44	77.44	44.70	234.37	47.88	55.13	292.29
44110	91.28	-3.10	-2.70	31.27	37.29	378.83	47.32	214.97	290.59	78.61	44.76	237.36	47.57	56.53	290.36
44111	92.57	-2.50	-2.70	32.84	41.70	391.63	54.21	190.32	287.87	95.01	48.57	235.87	54.30	49.15	287.68
44112	92.50	-3.10	-2.70	35.69	42.25	392.12	53.83	190.99	286.11	96.02	48.66	238.47	53.97	51.37	285.82
44113	93.79	-2.50	-2.70	38.73	47.27	401.05	62.62	165.13	281.76	116.16	53.65	248.83	62.64	51.22	281.54
44114	93.73	-3.10	-2.70	41.61	47.91	401.42	62.24	166.29	280.13	117.03	53.79	250.74	62.27	53.87	279.80
44115	95.02	-2.50	-2.70	47.07	53.76	405.93	74.68	141.15	273.88	142.98	60.68	280.71	74.64	64.34	273.66
44116	94.95	-3.10	-2.70	50.01	54.59	406.33	74.26	142.83	272.42	143.75	60.93	281.59	74.19	66.65	272.08
44117	96.25	-2.50	-2.70	60.32	61.74	410.90	94.79	121.90	263.49	180.26	72.24	348.11	94.69	85.80	263.31
44118	96.17	-3.10	-2.70	63.47	63.04	411.44	94.23	124.00	262.22	180.98	72.69	347.49	94.08	87.47	261.94
44119	97.48	-2.50	-2.70	87.84	75.13	382.40	139.63	131.31	228.92	244.55	87.51	431.99	139.50	144.19	228.91
44120	97.39	-3.10	-2.70	91.70	77.76	383.07	138.46	132.82	228.14	245.32	88.67	429.35	138.27	144.18	228.12
44121	79.06	-2.50	-4.10	28.16	6.81	218.62	0.58	356.30	298.91	47.65	44.15	279.55	3.75	83.77	299.18
44122	79.06	-3.10	-4.10	28.04	6.62	223.42	0.71	355.16	297.28	46.93	43.60	283.46	4.68	84.07	297.69
44123	80.29	-2.50	-4.10	28.49	7.70	225.09	5.43	353.93	301.87	50.89	43.78	282.35	6.55	93.75	302.09
44124	80.28	-3.10	-4.10	28.45	7.77	229.70	5.37	352.82	300.19	50.16	43.34	286.19	7.05	93.86	300.52
44125	81.52	-2.50	-4.10	28.73	8.89	237.45	10.73	349.85	304.64	51.99	43.32	283.72	11.35	102.06	304.81
44126	81.51	-3.10	-4.10	28.79	9.03	241.73	10.57	348.77	302.90	51.29	42.97	287.53	11.53	101.98	303.16
44127	82.75	-2.50	-4.10	28.70	10.23	254.62	16.04	343.97	307.14	50.83	42.81	283.82	16.48	108.42	307.27
44128	82.73	-3.10	-4.10	28.90	10.45	258.50	15.79	342.92	305.34	50.21	42.54	287.61	16.48	108.17	305.53
44129	83.97	-2.50	-4.10	28.22	11.79	275.41	21.24	336.16	309.26	47.40	42.30	282.70	21.60	112.63	309.35
44130	83.95	-3.10	-4.10	28.61	12.09	278.84	20.92	335.15	307.39	46.92	42.11	286.49	21.48	112.25	307.53
44131	85.20	-2.50	-4.10	27.18	13.65	298.63	26.28	326.28	310.86	41.77	41.85	280.40	26.59	114.52	310.92
44132	85.17	-3.10	-4.10	27.85	14.02	301.62	25.89	325.32	308.93	41.54	41.72	284.19	26.38	114.05	309.02
44133	86.43	-2.50	-4.10	25.53	15.90	323.22	31.08	314.14	311.77	34.17	41.53	276.89	31.37	113.92	311.80
44134	86.39	-3.10	-4.10	26.59	16.32	325.76	30.65	313.26	309.79	34.38	41.44	280.68	31.09	113.41	309.83
44135	87.66	-2.50	-4.10	23.39	18.59	348.18	35.65	299.56	311.79	25.24	41.39	272.22	35.92	110.68	311.79
44136	87.62	-3.10	-4.10	24.99	19.06	350.28	35.18	298.78	309.77	26.29	41.33	275.99	35.59	110.19	309.77
44137	88.88	-2.50	-4.10	21.11	21.82	372.52	40.02	282.32	310.69	17.41	41.47	266.54	40.27	104.68	310.65
44138	88.84	-3.10	-4.10	23.44	22.31	374.19	39.53	281.68	308.64	19.97	41.43	270.27	39.91	104.29	308.59
44139	90.11	-2.50	-4.10	19.51	25.63	395.21	44.31	262.27	308.18	18.14	41.83	260.38	44.53	95.85	308.11
44140	90.06	-3.10	-4.10	22.65	26.14	396.46	43.81	261.83	306.14	21.57	41.78	264.03	44.14	95.69	306.02
44141	91.34	-2.50	-4.10	19.79	30.12	415.09	48.75	239.34	303.92	29.56	42.46	254.95	48.92	84.35	303.81
44142	91.28	-3.10	-4.10	23.54	30.63	415.94	48.24	239.19	301.90	32.33	42.39	258.43	48.51	84.57	301.73
44143	92.57	-2.50	-4.10	22.71	35.39	430.80	53.68	213.77	297.45	45.21	43.37	252.75	53.80	70.78	297.30
44144	92.50	-3.10	-4.10	26.61	35.89	431.31	53.17	213.99	295.50	47.37	43.26	255.92	53.36	71.61	295.26
44145	93.79	-2.50	-4.10	27.77	41.60	440.67	59.72	186.41	288.03	61.65	44.43	258.39	59.78	57.06	287.85
44146	93.73	-3.10	-4.10	31.54	42.09	440.94	59.19	187.11	286.18	63.45	44.25	260.97	59.28	58.73	285.91
44147	95.02	-2.50	-4.10	33.81	49.04	442.70	67.80	159.53	274.18	75.78	45.30	279.06	67.80	48.76	274.00
44148	94.95	-3.10	-4.10	37.50	49.54	442.85	67.21	160.74	272.47	77.48	45.05	280.62	67.22	51.12	272.20
44149	96.25	-2.50	-4.10	39.84	58.66	429.23	79.07	140.37	251.38	81.06	43.99	317.77	79.09	61.67	251.29
44150	96.17	-3.10	-4.10	43.70	59.21	429.30	78.34	141.89	249.95	83.18	43.67	317.68	78.38	63.28	249.80
44151	97.48	-2.50	-4.10	41.79	72.03	370.10	87.82	138.52	213.12	73.60	32.99	332.61	87.92	121.23	213.35
44152	97.39	-3.10	-4.10	45.93	72.41	370.36	87.02	139.71	212.28	76.51	32.85	331.09	87.17	120.65	212.64
44153	79.06	-2.50	-5.50	33.90	10.30	237.48	1.15	375.01	313.32	148.04	63.24	289.69	0.80	102.64	313.62
44154	79.06	-3.10	-5.50	33.60	10.19	242.49	1.43	373.86	311.64	146.46	62.56	293.95	0.89	103.02	312.09
44155	80.29	-2.50	-5.50	35.84	10.53	243.99	6.45	372.82	315.97	144.29	60.99	293.08	6.31	114.83	316.20
44156	80.28	-3.10	-5.50	35.57	10.46	248.83	6.45	371.69	314.24	142.81	60.45	297.27	6.23	114.97	314.59
44157	81.52	-2.50	-5.50	37.76	10.70	256.68	12.70	369.21	318.55	139.42	58.59	295.34	12.61	125.48	318.72
44158	81.51	-3.10	-5.50	37.52	10.68	261.23	12.57	368.10	316.76	138.03	58.17	299.51	12.44	125.40	317.03
44159	82.75	-2.50	-5.50	39.33	10.87	274.54	18.89	364.09	320.98	133.14	56.08	296.57	18.84	134.29	321.11
44160	82.73	-3.10	-5.50	39.14	10.92	278.72	18.65	363.00	319.14	131.86	55.79	300.74	18.57	134.01	319.34
44161	83.97	-2.50	-5.50	40.25	11.15	296.41	24.86	357.33	323.15	125.28	53.55	296.82	24.84	141.00	323.25
44162	83.95	-3.10	-5.50	40.14	11.28	300.18	24.53	356.27	321.24	124.12	53.35	301.01	24.50	140.55	321.39
44163	85.20	-2.50	-5.50	40.23	11.65	321.16	30.49	348.76	324.89	115.73	51.04	296.07	30.50	145.38	324.96
44164	85.17	-3.10	-5.50	40.25	11.88	324.51	30.09	347.72	322.93	114.71	50.91	300.29	30.11	144.78	323.03
44165	86.43	-2.50	-5.50	39.02	12.54	347.74	35.69	338.18	326.02	104.44	48.61	294.28	35.72	147.17	326.06
44166	86.39	-3.10	-5.50	39.23	12.87	350.66	35.23	337.17	324.00	103.60	48.54	298.51	35.28	146.47	324.07
44167	87.66	-2.50	-5.50	36.41	13.98	375.15	40.38	325.33	326.28	91.44	46.31	291.37	40.43	146.12	326.30
44168	87.62	-3.10	-5.50	36.94	14.41	377.63	39.88	324.38	324.22	90.85	46.28	295.61	39.96	145.36	324.25
44169	88.88	-2.50	-5.50	32.30	16.16	402.38	44.54	309.95	325.36	76.89	44.16	287.34	44.59	141.91	325.36
44170	88.84	-3.10	-5.50	33.34	16.65	404.40	44.02	309.08	323.27	76.66	44.15	291.55	44.11	141.14	323.27
44171	90.11	-2.50	-5.50	26.90	19.20	428.29	48.20	291.74	322.90	61.17	42.14	282.34			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
44199	87.66	-2.50	-6.90	60.51	17.59	399.39	47.27	351.14	341.20	171.13	51.64	309.16	47.11	184.22	341.23
44200	87.62	-3.10	-6.90	60.32	17.62	402.26	46.80	350.13	339.16	170.05	51.67	313.86	46.55	183.32	339.21
44201	88.88	-2.50	-6.90	57.12	17.64	429.09	51.50	338.79	341.01	154.83	47.34	306.96	51.34	181.90	341.02
44202	88.84	-3.10	-6.90	57.14	17.78	431.48	51.01	337.80	338.97	153.97	47.41	311.64	50.77	180.91	339.00
44203	90.11	-2.50	-6.90	51.24	18.29	457.97	54.79	323.91	339.31	137.33	43.20	303.61	54.64	175.55	339.32
44204	90.06	-3.10	-6.90	51.63	18.56	459.81	54.28	322.97	337.29	136.76	43.28	308.23	54.05	174.54	337.30
44205	91.34	-2.50	-6.90	42.94	19.96	484.44	57.12	306.02	335.64	118.89	39.16	299.12	56.95	164.23	335.64
44206	91.28	-3.10	-6.90	43.95	20.35	485.69	56.60	305.23	333.64	118.70	39.24	303.59	56.35	163.31	333.64
44207	92.57	-2.50	-6.90	33.37	23.09	506.16	58.46	284.67	329.41	100.13	35.14	293.65	58.26	146.60	329.41
44208	92.50	-3.10	-6.90	35.34	23.58	506.78	57.94	284.13	327.45	100.41	35.20	297.86	57.64	145.93	327.45
44209	93.79	-2.50	-6.90	26.66	28.05	519.30	58.67	259.52	319.95	82.04	31.08	287.62	58.47	121.18	319.96
44210	93.73	-3.10	-6.90	29.62	28.56	519.32	58.16	259.37	318.06	82.84	31.13	291.41	57.84	121.02	318.07
44211	95.02	-2.50	-6.90	28.79	35.03	517.85	57.36	230.45	306.55	65.27	27.13	281.20	57.18	88.35	306.61
44212	94.95	-3.10	-6.90	31.59	35.48	517.40	56.88	230.82	304.78	66.58	27.20	284.33	56.61	89.08	304.88
44213	96.25	-2.50	-6.90	35.79	43.94	494.18	53.78	196.92	288.83	48.41	24.14	273.42	53.70	61.30	288.98
44214	96.17	-3.10	-6.90	37.72	44.23	493.61	53.41	197.88	287.26	50.19	24.36	275.65	53.29	62.90	287.49
44215	97.48	-2.50	-6.90	39.27	54.39	442.57	47.33	158.05	266.97	30.26	23.79	263.23	47.37	73.15	267.20
44216	97.39	-3.10	-6.90	40.59	54.47	442.37	47.20	159.65	265.67	32.62	24.28	264.42	47.27	73.67	266.02
44217	79.06	-2.50	-8.30	61.34	30.31	275.86	3.06	402.01	338.94	368.19	104.76	312.34	10.92	157.56	339.21
44218	79.06	-3.10	-8.30	61.01	30.18	281.07	3.94	401.01	337.02	365.10	103.88	317.05	13.22	158.04	337.42
44219	80.29	-2.50	-8.30	65.07	30.06	282.13	9.68	400.53	341.09	351.79	98.14	315.56	12.63	171.66	341.28
44220	80.28	-3.10	-8.30	64.73	29.92	287.23	9.96	399.55	339.13	349.10	97.45	320.26	13.90	171.89	339.43
44221	81.52	-2.50	-8.30	70.46	29.91	294.59	18.57	398.38	343.49	336.35	91.34	318.32	19.47	184.81	343.63
44222	81.51	-3.10	-8.30	70.10	29.75	299.47	18.60	397.43	341.51	333.99	90.83	323.04	19.82	184.81	341.72
44223	82.75	-2.50	-8.30	76.63	29.86	312.46	27.39	395.52	346.08	321.44	84.42	320.66	27.59	196.61	346.18
44224	82.73	-3.10	-8.30	76.23	29.66	317.07	27.26	394.59	344.08	319.36	84.07	325.42	27.51	196.40	344.22
44225	83.97	-2.50	-8.30	82.76	29.86	334.84	35.82	391.85	348.76	306.68	77.47	322.59	35.75	206.72	348.82
44226	83.95	-3.10	-8.30	82.32	29.62	339.13	35.58	390.94	346.75	304.83	77.25	327.42	35.45	206.33	346.84
44227	85.20	-2.50	-8.30	88.16	29.86	360.78	43.63	387.26	351.37	291.75	70.57	324.07	43.45	214.81	351.42
44228	85.17	-3.10	-8.30	87.66	29.59	364.75	43.32	386.36	349.37	290.08	70.46	329.00	43.02	214.25	349.43
44229	86.43	-2.50	-8.30	92.19	29.79	389.40	50.61	381.59	353.72	276.37	63.83	325.04	50.38	220.54	353.75
44230	86.39	-3.10	-8.30	91.64	29.49	393.01	50.25	380.68	351.74	274.84	63.81	330.05	49.88	219.82	351.79
44231	87.66	-2.50	-8.30	94.27	29.56	419.85	56.56	374.65	355.53	260.25	57.34	325.38	56.31	223.51	355.55
44232	87.62	-3.10	-8.30	93.69	29.27	423.06	56.17	373.71	353.60	258.85	57.38	330.45	55.77	222.62	353.64
44233	88.88	-2.50	-8.30	93.79	29.12	451.22	61.32	366.17	356.45	243.12	51.19	324.91	61.05	223.19	356.47
44234	88.84	-3.10	-8.30	93.23	28.86	453.97	60.90	365.19	354.59	241.86	51.28	330.01	60.49	222.16	354.63
44235	90.11	-2.50	-8.30	90.13	28.48	482.45	64.75	355.74	356.09	224.63	45.42	323.45	64.48	218.84	356.11
44236	90.06	-3.10	-8.30	89.69	28.27	484.64	64.31	354.73	354.30	223.55	45.56	328.50	63.88	217.71	354.34
44237	91.34	-2.50	-8.30	82.70	27.78	512.07	66.78	342.70	353.98	204.35	40.11	320.71	66.50	209.35	354.01
44238	91.28	-3.10	-8.30	82.52	27.64	513.59	66.29	341.72	352.25	203.52	40.28	325.63	65.86	208.20	352.30
44239	92.57	-2.50	-8.30	71.20	27.34	537.82	67.29	326.03	349.68	181.74	35.39	316.29	67.01	193.07	349.72
44240	92.50	-3.10	-8.30	71.44	27.30	538.60	66.76	325.19	347.98	181.22	35.57	320.95	66.33	192.09	348.04
44241	93.79	-2.50	-8.30	56.11	27.76	556.08	66.08	304.16	342.73	156.07	31.65	309.48	65.82	168.08	342.79
44242	93.73	-3.10	-8.30	56.95	27.85	556.12	65.54	303.62	341.03	155.93	31.81	313.77	65.15	167.52	341.13
44243	95.02	-2.50	-8.30	39.69	29.81	561.46	62.78	274.91	332.74	126.46	29.54	299.27	62.59	133.35	332.85
44244	94.95	-3.10	-8.30	41.28	30.05	560.90	62.29	274.85	331.04	126.77	29.70	303.07	62.00	133.54	331.20
44245	96.25	-2.50	-8.30	27.74	34.18	547.03	56.90	235.90	319.41	92.65	29.66	284.82	56.87	91.99	319.56
44246	96.17	-3.10	-8.30	29.88	34.54	546.23	56.56	236.57	317.72	93.51	29.93	288.01	56.51	93.31	317.95
44247	97.48	-2.50	-8.30	27.40	41.16	505.64	48.13	186.23	302.58	56.73	31.86	267.55	48.33	59.95	302.73
44248	97.39	-3.10	-8.30	28.93	41.55	505.15	48.05	187.86	300.97	58.20	32.41	269.94	48.36	62.20	301.21
44249	101.90	-2.50	-2.70	8.43	115.75	12.20	15.19	9.47	25.00	9.93	55.23	13.74	8.92	5.36	25.88
44250	101.05	-2.50	-2.70	24.55	116.26	17.76	31.43	12.23	33.18	43.39	43.97	28.90	28.76	25.27	33.22
44251	100.20	-2.50	-2.70	38.88	115.77	31.70	60.78	16.16	43.49	103.45	25.43	43.32	59.64	60.20	43.55
44252	99.36	-2.50	-2.70	58.18	111.25	61.39	107.74	55.62	64.65	201.52	13.50	78.13	107.19	122.17	65.39
44253	98.51	-2.50	-2.70	123.96	95.89	222.26	189.48	168.63	140.88	361.50	79.32	302.45	189.29	274.80	142.49
44254	101.82	-3.10	-2.70	9.45	115.70	12.20	18.08	9.87	25.02	10.06	54.53	13.69	9.69	6.20	26.34
44255	100.97	-3.10	-2.70	26.08	115.92	17.78	33.15	12.60	33.10	44.31	43.49	28.74	29.21	25.59	33.15
44256	100.13	-3.10	-2.70	41.28	115.39	31.76	61.44	16.61	43.36	104.68	25.26	43.08	59.71	59.92	43.45
44257	99.28	-3.10	-2.70	61.76	111.37	61.55	107.45	55.93	64.62	202.43	16.63	77.72	106.60	121.02	65.73
44258	98.43	-3.10	-2.70	128.24	99.62	222.76	187.69	168.74	141.30	361.45	82.79	300.15	187.40	271.70	143.69
44259	101.90	-2.50	-4.10	5.06	114.12	43.42	15.55	12.35	80.86	13.08	53.00	77.56	11.39	30.65	81.68
44260	101.05	-2.50	-4.10	15.20	108.44	64.77	30.37	23.26	95.31	47.97	38.58	108.24	28.35	79.93	95.33
44261	100.20	-2.50	-4.10	28.49	101.84	107.72	50.22	51.89	115.18	85.27	22.88	139.61	49.03	133.31	115.33
44262	99.36	-2.50	-4.10	38.76	92.44	183.26	71.55	101.50	144.33	107.84	7.67	210.46	70.83	187.37	145.03
44263	98.51	-2.50	-4.10	31.76	84.13	276.45	78.18	130.55	175.53	67.35	15.00	288.71	77.98	178.69	176.22
44264	101.82	-3.10	-4.10	5.77	113.99	43.32	18.26	14.28	80.83	12.81	52.78	77.17	12.61	32.07	82.06
44265	100.97	-3.10	-4.10	16.00	108.03	64.88	32.09	24.64	95.15	47.84	38.18	107.62	29.13	80.17	95.18
44266	100.13	-3.10	-4.10	29.54	101.29	107.97	51.29	52.83	114.96	85.18	22.36	138.83	49.50	132.57	115.18
44267	99.28	-3.10	-4.10	40.54	91.96	183.65	71.95	102.22	144.14	108.03	7.71	209.25	70.85	185.59	145.20
44268	98.43	-3.10	-4.10	35.57	83.97	276.91	77.91	131.36	175.21	69.54	15.13	287.00	77.60	176.79	176.25
44269	101.90	-2.50	-5.50	4.57	108.13	88.26	13.42	18.69	132.77	7.35	48.36				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
44297	99.28	-3.10	-8.30	32.78	56.77	383.13	30.55	101.73	269.02	15.50	38.30	261.41	31.32	79.29	269.00
44298	98.43	-3.10	-8.30	32.78	49.32	448.12	38.93	140.49	284.37	30.46	35.59	258.49	39.57	64.85	284.51
44299	77.84	-2.50	-2.70	32.60	10.10	199.97	4.22	336.01	280.35	57.91	26.58	266.11	9.38	62.30	280.61
44300	76.61	-2.50	-2.70	35.21	9.91	205.95	7.96	334.68	276.58	74.14	25.55	260.45	12.26	53.30	276.87
44301	75.38	-2.50	-2.70	38.46	10.42	217.49	11.41	331.54	272.62	93.36	24.68	252.45	15.43	45.94	272.94
44302	74.15	-2.50	-2.70	42.43	11.74	233.52	14.42	326.58	268.48	115.13	24.10	242.07	18.42	44.46	268.81
44303	72.93	-2.50	-2.70	47.13	13.95	252.84	16.88	319.82	264.12	138.74	23.98	229.84	20.99	53.09	264.43
44304	71.70	-2.50	-2.70	52.49	17.08	274.26	18.70	311.29	259.51	163.07	24.50	217.66	22.98	71.43	259.76
44305	70.47	-2.50	-2.70	58.35	21.20	296.66	19.79	301.01	254.60	186.48	25.81	210.19	24.27	96.52	254.75
44306	69.24	-2.50	-2.70	64.36	26.38	319.04	20.09	289.07	249.38	206.78	27.93	216.00	24.84	125.45	249.39
44307	68.02	-2.50	-2.70	70.07	32.67	340.37	19.55	275.50	243.86	221.40	30.65	245.29	24.89	154.65	243.75
44308	66.79	-2.50	-2.70	74.93	40.03	359.54	18.23	260.24	238.18	228.18	33.25	302.81	24.95	178.55	238.06
44309	65.56	-2.50	-2.70	78.52	48.15	375.17	16.44	242.91	232.52	227.42	34.44	383.54	25.89	188.75	232.60
44310	64.33	-2.50	-2.70	80.88	56.27	385.31	15.02	222.79	226.98	225.56	33.68	473.00	27.91	175.58	227.51
44311	63.11	-2.50	-2.70	82.82	63.28	387.09	15.66	199.53	220.96	239.32	36.55	548.16	28.89	137.65	222.31
44312	61.88	-2.50	-2.70	86.16	68.94	376.97	21.34	175.76	211.96	292.95	49.84	586.09	28.69	113.15	215.40
44313	60.65	-2.50	-2.70	95.17	76.59	353.30	36.68	160.81	194.51	399.60	54.31	587.00	41.57	175.61	201.83
44314	59.42	-2.50	-2.70	114.92	89.52	312.76	63.41	164.31	146.18	563.33	49.25	536.29	73.79	343.12	148.03
44315	77.84	-3.10	-2.70	32.52	10.25	204.57	4.35	334.92	278.82	57.89	26.15	269.74	11.25	62.68	279.21
44316	76.62	-3.10	-2.70	35.02	10.07	210.40	7.93	333.59	275.10	73.84	25.03	264.24	14.02	53.72	275.53
44317	75.39	-3.10	-2.70	38.19	10.60	221.64	11.28	330.44	271.19	92.81	24.04	256.47	17.13	46.13	271.67
44318	74.17	-3.10	-2.70	42.08	11.93	237.29	14.21	325.49	267.09	114.38	23.30	246.38	20.15	43.92	267.58
44319	72.95	-3.10	-2.70	46.74	14.12	256.18	16.62	318.75	262.77	137.86	22.98	234.48	22.82	51.51	263.24
44320	71.73	-3.10	-2.70	52.10	17.20	277.15	18.41	310.24	258.19	162.20	23.25	222.54	24.95	68.96	258.59
44321	70.51	-3.10	-2.70	57.97	21.24	299.13	19.53	300.02	253.31	185.80	24.30	214.91	26.42	93.40	253.55
44322	69.28	-3.10	-2.70	64.04	26.32	321.10	19.91	288.16	248.09	206.48	26.23	219.68	27.22	121.88	248.12
44323	68.06	-3.10	-2.70	69.80	32.57	342.05	19.54	274.72	242.54	221.57	28.97	246.83	27.59	150.85	242.37
44324	66.84	-3.10	-2.70	74.67	40.03	360.88	18.47	259.63	236.77	228.73	32.05	301.57	28.21	174.68	236.56
44325	65.62	-3.10	-2.70	78.16	48.47	376.21	16.99	242.45	230.95	228.03	34.36	379.41	30.29	184.89	231.04
44326	64.40	-3.10	-2.70	80.34	57.14	386.10	15.92	222.39	225.29	226.03	35.09	466.00	34.75	171.80	225.98
44327	63.17	-3.10	-2.70	82.14	64.61	387.73	17.03	199.08	219.39	240.38	38.82	538.38	39.88	134.61	220.89
44328	61.95	-3.10	-2.70	85.61	70.14	377.82	22.59	175.54	211.21	296.56	52.86	575.50	41.68	111.93	214.45
44329	60.73	-3.10	-2.70	94.89	76.40	354.99	36.20	161.97	195.93	404.78	57.66	582.28	45.81	171.08	206.11
44330	59.51	-3.10	-2.70	115.46	90.58	319.23	60.61	168.31	151.98	570.30	47.31	538.55	67.76	337.13	180.22
44331	77.84	-2.50	-4.10	27.97	5.57	218.69	4.89	357.00	295.80	42.47	44.38	275.16	6.19	72.54	296.13
44332	76.61	-2.50	-4.10	28.12	4.63	225.35	9.60	356.08	292.59	35.69	44.46	268.98	10.37	60.95	292.98
44333	75.38	-2.50	-4.10	28.83	3.98	237.97	13.90	353.52	289.28	27.83	44.36	260.94	14.50	50.92	289.32
44334	74.15	-2.50	-4.10	30.30	4.15	255.51	17.68	349.29	285.84	19.68	44.05	251.27	18.21	46.25	286.72
44335	72.93	-2.50	-4.10	32.71	5.56	276.75	20.83	343.35	282.23	12.39	43.52	241.03	21.31	51.18	282.73
44336	71.70	-2.50	-4.10	36.20	8.11	300.49	23.23	335.61	278.39	7.78	42.68	232.74	23.70	65.45	278.85
44337	70.47	-2.50	-4.10	40.91	11.65	325.61	24.80	325.95	274.21	8.00	41.40	231.35	25.26	85.29	274.58
44338	69.24	-2.50	-4.10	46.98	16.18	350.99	25.45	314.22	269.60	13.62	39.33	243.92	25.95	107.05	269.82
44339	68.02	-2.50	-4.10	54.57	21.73	375.45	25.14	300.18	264.47	26.35	35.88	276.46	25.78	127.24	264.51
44340	66.79	-2.50	-4.10	63.85	28.29	397.58	23.93	283.45	258.71	47.27	30.17	329.12	24.97	141.78	258.60
44341	65.56	-2.50	-4.10	74.80	35.79	415.54	22.02	263.62	252.16	74.10	21.99	394.40	23.94	146.28	252.03
44342	64.33	-2.50	-4.10	86.85	44.03	426.74	19.85	240.47	244.44	99.74	19.32	458.34	23.24	138.04	244.57
44343	63.11	-2.50	-4.10	98.39	52.86	427.75	18.18	214.84	234.67	112.76	38.41	503.89	23.02	120.45	235.51
44344	61.88	-2.50	-4.10	106.75	62.65	414.42	18.02	189.93	220.95	103.75	70.27	518.28	23.95	108.03	223.29
44345	60.65	-2.50	-4.10	108.99	74.76	381.58	20.31	171.30	199.21	75.46	107.35	494.99	28.84	131.05	203.14
44346	59.42	-2.50	-4.10	101.75	92.03	326.47	23.02	162.83	165.04	41.37	154.12	402.08	34.53	239.73	167.99
44347	77.84	-3.10	-4.10	27.78	5.55	223.53	4.78	355.85	294.23	41.77	43.72	279.19	6.74	73.04	294.72
44348	76.62	-3.10	-4.10	27.88	4.62	230.04	9.38	354.92	291.06	35.01	43.66	273.18	10.61	61.56	291.64
44349	75.39	-3.10	-4.10	28.56	4.08	242.37	13.59	352.35	287.78	27.16	43.40	265.37	14.55	51.37	288.44
44350	74.17	-3.10	-4.10	30.00	4.39	259.52	17.28	348.12	284.38	18.96	42.92	255.99	18.14	46.04	285.10
44351	72.95	-3.10	-4.10	32.39	5.87	280.34	20.37	342.17	280.80	11.53	42.18	246.02	21.17	49.89	281.54
44352	71.73	-3.10	-4.10	35.87	8.40	303.65	22.73	334.44	276.97	6.72	41.12	237.83	23.52	63.18	277.67
44353	70.51	-3.10	-4.10	40.56	11.88	328.32	24.30	324.82	272.80	6.79	39.62	236.06	25.09	82.37	273.37
44354	69.28	-3.10	-4.10	46.58	16.33	353.26	25.00	313.16	268.20	11.85	37.44	247.43	25.85	103.74	268.54
44355	68.06	-3.10	-4.10	54.10	21.81	377.30	24.82	299.22	263.04	23.78	34.09	277.91	25.86	123.74	263.11
44356	66.84	-3.10	-4.10	63.25	28.37	399.02	23.81	282.66	257.21	44.03	28.90	328.08	25.37	138.31	257.05
44357	65.62	-3.10	-4.10	74.07	35.98	416.61	22.13	263.02	250.57	70.41	21.83	390.86	24.94	143.01	250.37
44358	64.40	-3.10	-4.10	86.04	44.44	427.52	20.16	240.07	242.79	95.79	20.21	452.53	25.24	135.21	242.91
44359	63.17	-3.10	-4.10	97.63	53.50	428.37	18.56	214.62	233.10	108.54	38.61	496.46	26.01	118.47	234.16
44360	61.95	-3.10	-4.10	106.18	63.30	415.09	18.16	189.92	219.81	99.54	70.20	510.84	26.18	106.83	223.01
44361	60.73	-3.10	-4.10	108.66	75.16	382.42	19.59	171.57	199.27	72.48	107.31	489.58	26.55	128.77	206.41
44362	59.51	-3.10	-4.10	100.99	91.23	327.79	21.16	163.14	166.81	39.87	154.35	399.82	25.45	235.04	176.63
44363	77.84	-2.50	-5.50	32.24	9.93	237.75	6.12	375.83	310.66	151.05	65.26	285.05	6.23	89.35	311.03
44364	76.61	-2.50	-5.50	31.18	9.37	244.84	11.87	375.30	308.02	153.84	67.00	279.05	12.05	75.63	308.47
44365	75.38	-2.50	-5.50	30.98	8.54	258.15	17.21	373.39	305.39	157.15	68.36	271.74	17.45	62.68	305.92
44366	74.15	-2.50	-5.50	31.89	7.38	276.70	21.99	370.03	302.75	161.94	69.23	263.56	22.29	52.66	303.35
44367	72.93	-2.50	-5.50	34.16	5.83	299.34	26.04	365.13	300.03	169.47	69.43	255			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
44395	77.84	-2.50	-6.90	44.21	19.36	256.95	7.74	391.49	324.57	266.45	87.76	296.14	10.41	112.98	324.95
44396	76.61	-2.50	-6.90	43.97	19.29	264.16	14.74	391.34	322.50	278.16	91.51	290.86	17.13	98.28	322.97
44397	75.38	-2.50	-6.90	45.44	19.04	277.69	21.38	390.12	320.58	291.66	94.78	284.76	23.84	84.09	321.16
44398	74.15	-2.50	-6.90	48.55	18.52	296.66	27.42	387.77	318.80	307.94	97.40	278.32	30.11	71.46	319.47
44399	72.93	-2.50	-6.90	53.16	17.66	320.01	32.67	384.14	317.07	328.22	99.12	272.63	35.70	61.68	317.81
44400	71.70	-2.50	-6.90	59.24	16.36	346.65	36.94	379.04	315.30	353.96	99.54	269.79	40.37	55.87	316.07
44401	70.47	-2.50	-6.90	66.94	14.61	375.56	40.06	372.19	313.33	386.85	98.12	273.16	43.92	54.18	314.07
44402	69.24	-2.50	-6.90	76.63	12.51	405.68	41.86	363.24	310.95	428.59	94.01	286.81	46.11	55.54	311.59
44403	68.02	-2.50	-6.90	88.88	10.61	435.90	42.20	351.70	307.91	480.73	86.05	313.89	46.69	58.93	308.36
44404	66.79	-2.50	-6.90	104.24	10.44	464.83	40.98	336.99	303.88	544.26	72.65	354.43	45.39	64.81	304.10
44405	65.56	-2.50	-6.90	123.15	13.70	490.65	38.12	318.42	298.47	619.17	51.86	404.15	41.96	74.94	298.46
44406	64.33	-2.50	-6.90	145.68	20.29	510.73	33.51	295.37	291.19	704.14	22.67	454.46	36.21	90.24	291.11
44407	63.11	-2.50	-6.90	171.35	29.58	521.29	26.96	267.52	281.42	795.97	29.15	492.36	28.16	109.44	281.63
44408	61.88	-2.50	-6.90	198.88	41.36	517.14	18.23	235.47	268.39	887.94	87.50	498.67	18.24	131.27	269.60
44409	60.65	-2.50	-6.90	226.41	55.35	492.21	8.02	202.04	251.25	966.16	162.73	446.73	7.84	156.88	254.58
44410	59.42	-2.50	-6.90	252.03	70.48	441.02	9.86	175.87	228.89	1009.36	245.73	318.63	10.63	190.45	235.91
44411	77.84	-3.10	-6.90	43.85	19.23	262.10	7.75	390.37	322.84	263.82	86.79	300.76	11.41	113.68	323.41
44412	76.62	-3.10	-6.90	43.60	19.15	269.18	14.53	390.20	320.80	275.20	90.35	295.61	17.95	99.23	321.52
44413	75.39	-3.10	-6.90	45.03	18.87	282.47	21.03	388.99	318.92	288.31	93.42	289.71	24.60	85.24	319.78
44414	74.17	-3.10	-6.90	48.07	18.33	301.12	26.96	386.63	317.17	304.10	95.85	283.48	30.90	72.67	318.17
44415	72.95	-3.10	-6.90	52.58	17.46	324.11	32.13	382.99	315.48	323.80	97.39	277.98	36.58	62.76	316.59
44416	71.73	-3.10	-6.90	58.49	16.18	350.37	36.35	377.88	313.74	348.85	97.69	275.18	41.41	56.58	314.90
44417	70.51	-3.10	-6.90	65.98	14.46	378.87	39.46	371.03	311.80	380.92	96.24	278.23	45.19	54.42	312.93
44418	69.28	-3.10	-6.90	75.42	12.44	408.55	41.30	362.09	309.46	421.75	92.27	290.99	47.66	55.47	310.43
44419	68.06	-3.10	-6.90	87.39	10.68	438.27	41.75	350.58	306.45	472.95	84.70	316.54	48.54	58.81	307.14
44420	66.84	-3.10	-6.90	102.47	10.63	466.67	40.70	335.96	302.44	535.61	72.03	355.06	47.52	64.85	302.78
44421	65.62	-3.10	-6.90	121.13	13.87	491.90	38.09	317.55	297.03	609.89	52.38	402.57	44.28	75.16	297.03
44422	64.40	-3.10	-6.90	143.46	20.34	511.40	33.82	294.76	289.75	694.65	24.42	450.83	38.55	90.46	289.62
44423	63.17	-3.10	-6.90	169.00	29.43	521.45	27.73	267.28	280.01	786.86	25.36	487.20	30.34	109.44	280.30
44424	61.95	-3.10	-6.90	196.45	41.00	516.96	19.60	235.61	267.13	879.74	81.66	492.94	20.32	130.82	268.89
44425	60.73	-3.10	-6.90	223.87	54.81	492.03	10.18	202.41	250.36	958.95	156.12	442.17	10.78	155.65	255.31
44426	59.51	-3.10	-6.90	249.15	69.88	441.37	10.66	175.99	228.67	1002.63	240.09	318.21	17.35	187.88	239.57
44427	77.84	-2.50	-8.30	60.03	30.63	276.22	9.59	402.86	337.10	386.06	111.13	308.59	16.17	142.97	337.45
44428	76.61	-2.50	-8.30	61.55	30.99	283.25	18.13	403.05	335.57	405.99	117.13	304.32	24.03	128.48	336.03
44429	75.38	-2.50	-8.30	65.79	31.32	296.50	26.37	402.55	334.36	428.72	122.64	299.60	32.33	114.79	334.93
44430	74.15	-2.50	-8.30	72.22	31.55	315.22	33.98	401.26	333.44	455.09	122.48	294.79	40.40	102.78	334.12
44431	72.93	-2.50	-8.30	80.27	31.57	338.49	40.74	399.06	332.74	486.12	131.34	290.66	47.85	93.43	333.51
44432	71.70	-2.50	-8.30	89.50	31.28	365.36	46.43	395.76	332.16	523.01	133.81	288.67	54.38	87.78	332.99
44433	70.47	-2.50	-8.30	99.72	30.59	394.91	50.81	391.11	331.55	567.13	134.26	291.12	59.71	86.86	332.38
44434	69.24	-2.50	-8.30	111.00	29.44	426.25	53.67	384.78	330.67	620.01	131.79	301.04	63.50	91.80	331.43
44435	68.02	-2.50	-8.30	123.66	27.86	458.45	54.79	376.33	329.26	683.33	125.17	321.35	65.38	103.96	329.86
44436	66.79	-2.50	-8.30	138.31	26.12	490.45	54.01	365.15	326.96	758.89	112.75	353.61	64.95	124.46	327.34
44437	65.56	-2.50	-8.30	155.84	24.86	520.86	51.16	350.39	323.40	848.62	92.45	396.62	61.73	153.13	323.52
44438	64.33	-2.50	-8.30	177.50	25.35	547.67	46.04	330.79	318.16	954.30	62.39	445.48	55.18	187.43	318.11
44439	63.11	-2.50	-8.30	204.82	29.22	567.78	38.32	304.63	310.80	1076.85	30.43	490.28	44.87	221.84	310.86
44440	61.88	-2.50	-8.30	239.45	37.52	576.55	27.50	270.00	300.75	1214.38	66.97	513.82	30.82	247.56	301.62
44441	60.65	-2.50	-8.30	282.82	50.38	567.39	13.50	226.27	287.13	1360.15	151.23	490.17	14.13	252.86	290.28
44442	59.42	-2.50	-8.30	336.33	67.15	531.61	10.46	178.97	268.22	1502.67	254.84	392.95	10.30	227.98	276.64
44443	77.84	-3.10	-8.30	59.70	30.49	281.44	9.72	401.85	335.21	382.52	110.03	313.37	18.50	143.72	335.74
44444	76.62	-3.10	-8.30	61.20	30.82	288.35	18.00	402.04	333.72	401.92	115.81	309.20	26.25	129.50	334.41
44445	75.39	-3.10	-8.30	65.38	31.11	301.40	26.07	401.54	332.55	424.03	121.09	304.64	34.59	116.06	333.40
44446	74.17	-3.10	-8.30	71.73	31.28	319.84	33.57	400.26	331.68	449.70	125.71	300.02	42.81	104.25	332.69
44447	72.95	-3.10	-8.30	79.63	31.25	342.79	40.26	398.07	331.05	479.93	129.39	296.07	50.55	95.02	332.20
44448	71.73	-3.10	-8.30	88.66	30.93	369.31	45.91	394.77	330.54	515.92	131.74	294.17	57.48	89.39	331.79
44449	70.51	-3.10	-8.30	98.61	30.21	398.49	50.30	390.11	330.02	559.06	132.18	296.49	63.28	88.40	331.27
44450	69.28	-3.10	-8.30	109.58	29.06	429.41	53.20	383.75	329.25	610.91	129.89	305.85	67.61	93.20	330.39
44451	68.06	-3.10	-8.30	121.90	27.50	461.13	54.41	375.28	327.94	673.20	123.72	325.07	70.06	105.11	328.85
44452	66.84	-3.10	-8.30	136.20	25.77	492.54	53.78	364.12	325.73	747.86	112.12	355.65	70.16	125.25	326.30
44453	65.62	-3.10	-8.30	153.40	24.51	522.27	51.15	349.44	322.21	836.94	93.12	396.56	67.33	153.45	322.40
44454	64.40	-3.10	-8.30	174.79	24.93	548.33	46.37	330.03	316.97	942.48	64.72	443.19	60.91	187.27	316.90
44455	63.17	-3.10	-8.30	201.90	28.63	567.72	39.16	304.22	309.57	1065.57	31.83	486.03	50.36	221.31	309.67
44456	61.95	-3.10	-8.30	236.35	36.71	575.92	29.11	270.09	299.51	1204.32	60.09	508.48	35.82	246.83	300.78
44457	60.73	-3.10	-8.30	279.47	49.41	566.56	16.32	226.98	286.01	1351.49	142.42	485.46	19.50	252.05	290.68
44458	59.51	-3.10	-8.30	332.49	66.17	531.24	11.05	180.19	267.51	1494.36	247.18	391.72	15.40	226.94	280.42
44459	58.39	-2.50	-2.70	153.60	96.82	280.88	74.65	183.85	70.80	776.15	91.69	347.94	99.94	591.63	72.56
44460	57.54	-2.50	-2.70	180.00	95.23	273.13	53.13	191.66	41.00	821.05	229.82	247.67	98.23	658.31	45.73
44461	56.70	-2.50	-2.70	210.98	94.65	267.12	53.55	210.20	59.22	818.41	389.18	501.16	84.14	758.25	82.62
44462	55.85	-2.50	-2.70	261.16	97.81	263.06	69.93	243.82	71.67	849.06	580.78	894.80	69.62	985.81	153.08
44463	55.01	-2.50	-2.70	361.65	127.33	278.66	59.80	313.06	72.54	925.73	540.23	1377.20	67.87	1606.00	386.30
44464	58.47	-3.10	-2.70	152.84	102.25	297.47	71.34	188.92	77.74	773.23	96.91	361.91	69.76	572.64	96.70

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
44493	55.01	-2.50	-6.90	432.25	114.18	76.25	72.28	257.10	91.55	1158.09	412.44	1180.11	171.21	1362.53	314.17
44494	58.47	-3.10	-6.90	268.73	81.66	377.50	21.08	170.03	205.72	1002.20	304.36	241.25	42.89	227.77	224.41
44495	57.62	-3.10	-6.90	284.17	87.82	307.38	28.81	180.10	181.96	974.64	331.89	379.85	76.60	285.75	210.82
44496	56.77	-3.10	-6.90	304.93	89.28	225.78	33.26	197.09	153.36	958.36	322.67	642.24	116.17	402.88	199.78
44497	55.93	-3.10	-6.90	348.32	92.21	143.28	39.33	213.72	122.87	1030.35	312.55	909.81	144.11	657.54	226.31
44498	55.08	-3.10	-6.90	458.98	133.60	75.83	85.91	264.34	99.93	1311.71	468.13	1188.78	220.94	1330.28	417.28
44499	58.39	-2.50	-8.30	391.21	83.08	475.70	27.96	152.37	246.45	1614.47	343.09	293.00	28.00	190.38	262.68
44500	57.54	-2.50	-8.30	443.90	96.09	402.88	43.73	158.46	220.86	1689.47	395.98	378.16	43.69	177.33	244.54
44501	56.70	-2.50	-8.30	505.20	109.34	301.75	57.06	192.67	184.22	1748.58	412.92	713.69	59.05	211.83	207.97
44502	55.85	-2.50	-8.30	575.62	129.23	171.20	60.41	238.69	129.41	1798.80	399.28	1169.61	96.13	366.20	132.61
44503	55.01	-2.50	-8.30	675.58	154.84	50.47	64.25	289.76	56.89	1904.31	457.58	1628.28	196.27	995.25	268.51
44504	58.47	-3.10	-8.30	386.93	82.02	476.09	26.27	153.30	246.35	1605.28	338.06	295.25	37.90	188.28	273.07
44505	57.62	-3.10	-8.30	439.88	94.54	403.96	42.13	158.49	221.45	1680.92	392.03	376.30	74.92	174.26	267.41
44506	56.77	-3.10	-8.30	502.94	106.11	303.57	56.99	191.74	185.62	1747.66	402.66	702.54	133.25	207.72	258.75
44507	55.93	-3.10	-8.30	579.80	121.77	173.13	63.11	235.41	132.24	1831.17	365.59	1144.75	209.35	356.82	238.83
44508	55.08	-3.10	-8.30	701.11	169.96	48.05	88.59	292.56	79.99	2034.06	494.38	1608.72	371.43	995.72	328.14
44509	97.23	-3.96	-2.70	98.11	82.27	384.28	136.24	135.47	227.12	246.57	90.63	424.40	135.90	144.05	227.08
44510	96.02	-3.96	-2.70	68.79	65.37	412.43	93.03	127.67	259.98	182.23	73.37	346.31	92.78	90.27	259.53
44511	94.81	-3.96	-2.70	54.90	56.09	407.04	73.42	145.78	269.82	145.08	61.32	283.15	73.29	70.50	269.28
44512	93.60	-3.96	-2.70	46.31	49.08	402.05	61.50	168.35	277.21	118.56	54.01	254.15	61.53	58.21	276.67
44513	92.39	-3.96	-2.70	40.29	43.26	392.94	53.10	192.18	282.95	97.79	48.79	243.09	53.31	55.05	282.48
44514	91.18	-3.96	-2.70	35.74	38.22	380.04	46.58	215.40	287.27	80.65	44.84	242.66	46.97	58.90	286.90
44515	89.96	-3.96	-2.70	32.31	33.78	363.86	41.10	237.03	290.28	66.26	41.72	247.49	41.66	65.94	290.01
44516	88.75	-3.96	-2.70	29.86	29.83	345.17	36.18	256.57	292.11	54.32	39.16	254.30	36.92	73.35	291.94
44517	87.54	-3.96	-2.70	28.31	26.33	324.80	31.54	273.80	292.89	44.72	37.02	261.31	32.48	79.71	292.82
44518	86.33	-3.96	-2.70	27.50	23.22	303.62	27.01	288.68	292.76	37.43	35.17	267.61	28.19	84.38	292.78
44519	85.12	-3.95	-2.70	27.26	20.46	282.51	22.52	301.25	291.85	32.40	33.54	272.84	24.03	87.10	291.95
44520	83.90	-3.95	-2.70	27.41	18.02	262.39	18.04	311.58	290.28	29.60	32.07	276.84	20.05	87.81	290.46
44521	82.69	-3.95	-2.70	27.84	15.87	244.29	13.58	319.78	288.18	29.17	30.69	279.55	16.43	86.52	288.44
44522	81.48	-3.95	-2.70	28.50	14.02	229.26	9.24	325.94	285.63	31.46	29.36	280.94	13.53	83.28	285.97
44523	80.27	-3.95	-2.70	29.43	12.46	218.40	5.20	330.14	282.72	36.89	28.05	280.93	11.94	78.21	283.15
44524	79.06	-3.95	-2.70	30.70	11.27	212.64	2.71	332.45	279.53	45.68	26.74	279.39	12.13	71.46	280.04
44525	96.98	-5.08	-2.70	107.71	89.58	386.26	132.71	139.52	224.96	248.59	94.41	416.79	132.12	143.71	224.91
44526	95.78	-5.08	-2.70	76.79	69.36	414.15	91.26	133.28	256.28	184.31	75.05	344.75	90.81	94.48	255.57
44527	94.59	-5.08	-2.70	62.14	58.73	408.37	72.15	150.37	265.58	147.29	62.34	285.94	71.90	76.19	264.69
44528	93.39	-5.08	-2.70	53.16	51.11	403.26	60.36	171.59	272.46	121.05	54.65	259.79	60.38	64.50	271.59
44529	92.20	-5.07	-2.70	46.87	45.00	394.45	51.97	194.08	277.83	100.64	49.21	250.57	52.28	60.47	277.07
44530	91.00	-5.07	-2.70	42.07	39.80	382.15	45.42	216.14	281.89	83.90	45.14	251.15	46.02	62.58	281.28
44531	89.81	-5.07	-2.70	38.28	35.26	366.80	39.92	236.82	284.74	69.89	41.92	256.49	40.80	67.94	284.30
44532	88.61	-5.07	-2.70	35.33	31.24	349.10	35.01	255.60	286.51	58.26	39.28	263.56	36.19	74.11	286.23
44533	87.42	-5.07	-2.70	33.14	27.65	329.82	30.41	272.24	287.31	48.87	37.05	270.68	31.91	79.67	287.18
44534	86.22	-5.06	-2.70	31.61	24.44	309.81	25.98	286.67	287.25	41.62	35.11	277.06	27.86	83.87	287.26
44535	85.03	-5.06	-2.70	30.61	21.57	289.92	21.61	298.89	286.45	36.45	33.38	282.33	24.02	86.39	286.60
44536	83.83	-5.06	-2.70	30.04	19.00	271.05	17.30	308.96	285.03	33.33	31.78	286.37	20.49	87.09	285.30
44537	82.63	-5.06	-2.70	29.81	16.72	254.17	13.08	316.95	283.09	32.40	30.27	289.13	17.49	85.95	283.49
44538	81.44	-5.06	-2.70	29.89	14.73	240.25	9.03	322.96	280.71	34.02	28.80	290.60	15.38	82.99	281.24
44539	80.24	-5.05	-2.70	30.31	13.07	230.27	5.47	327.04	277.98	38.65	27.34	290.71	14.59	78.30	278.63
44540	79.05	-5.05	-2.70	31.12	11.80	225.03	3.62	329.27	274.95	46.59	25.88	289.35	15.34	72.01	275.74
44541	96.66	-6.18	-2.70	118.14	98.02	388.69	128.34	144.14	222.47	250.83	99.25	407.90	127.38	143.12	222.40
44542	95.49	-6.18	-2.70	85.48	74.31	416.33	89.07	139.61	251.80	186.77	77.44	343.19	88.32	99.01	250.78
44543	94.31	-6.18	-2.70	69.93	62.08	410.13	70.61	155.59	260.45	149.95	63.86	289.57	70.15	82.21	259.17
44544	93.14	-6.18	-2.70	60.43	53.71	404.85	58.99	175.31	266.74	124.04	55.64	266.69	58.93	71.07	265.47
44545	91.96	-6.17	-2.70	53.78	47.22	396.36	50.61	196.29	271.66	104.04	49.89	259.51	50.98	66.22	270.54
44546	90.79	-6.17	-2.70	48.65	41.81	384.75	44.03	217.01	275.40	87.73	45.61	261.21	44.83	66.66	274.49
44547	89.61	-6.17	-2.70	44.50	37.12	370.36	38.52	236.55	278.07	74.14	42.25	267.12	39.74	70.27	277.39
44548	88.44	-6.17	-2.70	41.09	32.98	353.82	33.63	254.41	279.75	62.84	39.49	274.48	35.29	75.06	279.31
44549	87.26	-6.17	-2.70	38.34	29.28	335.84	29.10	270.33	280.54	53.64	37.14	281.77	31.23	79.66	280.33
44550	86.09	-6.16	-2.70	36.17	25.95	317.22	24.78	284.19	280.56	46.44	35.08	288.25	27.47	83.28	280.55
44551	84.91	-6.16	-2.70	34.49	22.94	298.77	20.58	295.97	279.88	41.14	33.21	293.61	24.02	85.51	280.07
44552	83.74	-6.16	-2.70	33.24	20.22	281.37	16.49	305.69	278.62	37.72	31.47	297.74	21.00	86.17	278.99
44553	82.56	-6.16	-2.70	32.36	17.79	265.88	12.55	313.42	276.86	36.30	29.81	300.60	18.64	85.17	277.41
44554	81.39	-6.16	-2.70	31.83	15.66	253.23	8.91	319.22	274.68	37.23	28.18	302.19	17.27	82.52	275.40
44555	80.21	-6.15	-2.70	31.68	13.88	244.23	5.93	323.16	272.15	40.97	26.58	302.47	17.15	78.28	273.04
44556	79.04	-6.15	-2.70	31.95	12.54	239.57	4.70	325.28	269.32	47.87	24.98	301.35	18.36	72.53	270.38
44557	96.28	-7.26	-2.70	128.81	107.33	391.56	123.22	149.08	219.75	253.09	105.12	398.20	121.74	142.16	219.67
44558	95.13	-7.26	-2.70	94.55	80.15	419.05	86.50	146.37	246.59	189.57	80.61	341.99	85.34	103.56	245.25
44559	93.98	-7.26	-2.70	77.96	66.12	412.39	68.85	161.22	254.56	152.99	65.95	294.19	68.08	88.23	252.85
44560	92.83	-7.26	-2.70	67.86	56.87	406.88	57.43	179.37	260.18	127.46	57.04	274.82	57.18	77.56	258.47
44561	91.68	-7.26	-2.70	60.80	49.91	398.71	49.07	198.74	264.58	107.90	50.88	269.77	49.40	72.02	263.05
44562	90.53	-7.26	-2.70	55.33	44.23	387.85	42.50	217.98	267.94	92.06	46.32	272.63	43.41	70.94	266.69
44563	89.38	-7.26	-2.70	50.83	3										



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
44591	94.59	-5.08	-4.10	51.56	52.05	443.54	64.27	168.09	264.51	85.08	43.97	287.91	64.31	60.34	263.82
44592	93.39	-5.08	-4.10	45.30	44.48	442.23	56.54	190.21	277.47	71.33	43.48	272.91	56.80	65.52	276.76
44593	92.20	-5.07	-4.10	40.15	38.27	433.68	50.61	214.98	286.30	56.46	42.73	270.44	51.13	75.13	285.69
44594	91.00	-5.07	-4.10	36.30	33.03	419.81	45.71	238.43	292.42	43.10	42.05	274.30	46.45	85.53	291.96
44595	89.81	-5.07	-4.10	33.76	28.53	402.09	41.31	259.75	296.54	33.40	41.54	280.60	42.23	94.92	296.23
44596	88.61	-5.07	-4.10	32.34	24.65	381.73	37.10	278.63	299.07	29.40	41.22	287.21	38.14	102.47	298.91
44597	87.42	-5.07	-4.10	31.67	21.29	359.80	32.87	295.02	300.33	31.10	41.06	293.12	34.01	107.85	300.30
44598	86.22	-5.06	-4.10	31.37	18.36	337.30	28.51	309.00	300.56	35.77	41.04	297.89	29.76	110.93	300.66
44599	85.03	-5.06	-4.10	31.14	15.80	315.17	24.00	320.69	299.98	40.85	41.10	301.44	25.37	111.73	300.20
44600	83.83	-5.06	-4.10	30.78	13.55	294.41	19.33	330.24	298.74	44.99	41.21	303.76	20.91	110.32	299.09
44601	82.63	-5.06	-4.10	30.21	11.55	276.01	14.57	337.78	297.01	47.54	41.32	304.92	16.50	106.82	297.49
44602	81.44	-5.06	-4.10	29.46	9.76	261.00	9.78	343.46	294.88	48.23	41.37	304.92	12.39	101.36	295.51
44603	80.24	-5.05	-4.10	28.61	8.13	250.34	5.06	347.37	292.46	46.95	41.33	303.76	9.12	94.13	293.26
44604	79.05	-5.05	-4.10	27.81	6.67	244.87	1.20	349.62	289.82	43.75	41.14	301.34	7.81	85.32	290.79
44605	96.66	-6.18	-4.10	71.30	75.76	372.48	80.03	148.55	206.14	96.89	33.03	319.48	80.36	115.34	207.39
44606	95.49	-6.18	-4.10	67.76	64.05	429.93	71.91	153.03	238.52	98.92	41.84	317.53	71.96	73.44	238.07
44607	94.31	-6.18	-4.10	60.03	54.08	444.19	61.99	169.70	258.60	90.39	43.40	293.47	62.05	65.78	257.62
44608	93.14	-6.18	-4.10	53.36	46.39	443.33	54.47	192.31	271.00	76.74	43.06	281.67	54.87	69.75	269.98
44609	91.96	-6.17	-4.10	47.85	40.13	435.55	48.61	215.62	279.46	62.45	42.44	280.93	49.40	77.48	278.58
44610	90.79	-6.17	-4.10	43.50	34.87	422.73	43.74	237.85	285.37	49.74	41.86	285.70	44.86	86.22	284.69
44611	89.61	-6.17	-4.10	40.21	30.35	406.27	39.38	258.20	289.40	40.21	41.40	292.48	40.76	94.41	288.94
44612	88.44	-6.17	-4.10	37.83	26.41	387.28	35.22	276.35	291.96	35.15	41.07	299.37	36.80	101.20	291.70
44613	87.26	-6.17	-4.10	36.13	22.94	366.78	31.09	292.19	293.32	34.69	40.86	305.44	32.83	106.15	293.26
44614	86.09	-6.16	-4.10	34.86	19.88	345.74	26.88	305.76	293.72	37.27	40.73	310.33	28.79	109.07	293.84
44615	84.91	-6.16	-4.10	33.77	17.13	325.09	22.55	317.13	293.33	40.84	40.63	313.97	24.67	109.93	293.63
44616	83.74	-6.16	-4.10	32.71	14.66	305.78	18.13	326.43	292.32	43.98	40.54	316.37	20.55	108.76	292.81
44617	82.56	-6.16	-4.10	31.59	12.41	288.76	13.64	333.79	290.82	45.92	40.41	317.62	16.58	105.64	291.49
44618	81.39	-6.16	-4.10	30.39	10.35	274.96	9.17	339.32	288.92	46.27	40.20	317.74	13.05	100.71	289.79
44619	80.21	-6.15	-4.10	29.17	8.47	265.24	4.82	343.12	286.71	44.87	39.88	316.75	10.46	94.11	287.80
44620	79.04	-6.15	-4.10	28.05	6.78	260.29	1.54	345.27	284.26	41.69	39.39	314.57	9.58	86.01	285.59
44621	96.28	-7.26	-4.10	80.79	77.54	373.54	76.44	152.22	203.39	105.24	33.69	314.70	76.71	112.56	205.02
44622	95.13	-7.26	-4.10	76.88	66.56	430.27	68.57	157.67	233.10	105.72	41.44	318.11	68.58	77.00	232.56
44623	93.98	-7.26	-4.10	68.50	56.47	445.02	59.24	173.46	251.90	96.16	42.89	300.01	59.31	70.89	250.63
44624	92.83	-7.26	-4.10	61.33	48.63	444.71	51.96	194.50	263.63	82.58	42.64	291.64	52.51	73.88	262.26
44625	91.68	-7.26	-4.10	55.43	42.30	437.76	46.19	216.26	271.65	68.78	42.13	292.71	47.28	79.89	270.44
44626	90.53	-7.26	-4.10	50.59	37.00	426.10	41.38	237.15	277.30	56.56	41.62	298.43	42.94	86.98	276.35
44627	89.38	-7.26	-4.10	46.65	32.42	411.03	37.09	256.40	281.22	47.05	41.19	305.75	39.01	93.88	280.56
44628	88.23	-7.26	-4.10	43.49	28.39	393.58	33.02	273.68	283.79	41.11	40.85	312.97	35.24	99.78	283.41
44629	87.08	-7.26	-4.10	40.94	24.81	374.72	29.01	288.85	285.25	38.87	40.57	319.28	31.48	104.20	285.14
44630	85.93	-7.26	-4.10	38.83	21.58	355.35	24.98	301.90	285.81	39.45	40.30	324.36	27.69	106.90	285.95
44631	84.78	-7.26	-4.10	36.99	18.63	336.40	20.88	312.87	285.64	41.36	40.02	328.17	23.89	107.78	286.02
44632	83.63	-7.25	-4.10	35.27	15.92	318.75	16.73	321.86	284.87	43.34	39.71	330.74	20.18	106.82	285.49
44633	82.48	-7.25	-4.10	33.59	13.40	303.27	12.57	328.96	283.61	44.52	39.33	332.17	16.71	104.11	284.47
44634	81.33	-7.25	-4.10	31.92	11.07	290.82	8.46	334.30	281.95	44.43	38.84	332.50	13.77	99.73	283.06
44635	80.18	-7.25	-4.10	30.31	8.92	282.12	4.58	337.95	279.97	42.85	38.22	331.75	11.80	93.83	281.35
44636	79.03	-7.25	-4.10	28.84	7.03	277.75	2.03	339.99	277.72	39.70	37.44	329.89	11.28	86.55	279.39
44637	97.23	-3.96	-5.50	46.65	64.72	395.21	57.44	147.88	233.41	33.21	18.14	281.97	57.44	100.18	234.10
44638	96.02	-3.96	-5.50	48.69	53.85	452.94	59.82	171.03	259.77	35.52	24.89	288.37	59.78	63.62	259.97
44639	94.81	-3.96	-5.50	41.61	44.14	478.26	58.42	194.27	280.60	34.23	31.01	283.18	58.25	65.84	280.48
44640	93.60	-3.96	-5.50	33.55	36.25	481.05	55.72	220.03	295.45	33.10	34.98	280.14	55.59	86.53	295.25
44641	92.39	-3.96	-5.50	29.10	29.90	471.35	52.86	245.58	305.71	37.67	37.77	282.57	52.84	105.82	305.52
44642	91.18	-3.96	-5.50	29.11	24.79	454.22	49.88	268.99	312.63	48.38	40.02	287.86	49.96	121.01	312.50
44643	89.96	-3.96	-5.50	31.83	20.73	432.43	46.66	289.65	317.05	62.04	42.07	293.70	46.79	132.18	316.98
44644	88.75	-3.96	-5.50	35.14	17.58	407.86	43.04	307.47	319.54	76.24	44.12	298.91	43.19	139.69	319.53
44645	87.54	-3.96	-5.50	37.90	15.21	381.91	38.95	322.61	320.54	89.77	46.23	303.02	39.09	143.91	320.59
44646	86.33	-3.96	-5.50	39.65	13.52	355.73	34.37	335.30	320.41	102.06	48.43	305.93	34.47	145.14	320.52
44647	85.12	-3.95	-5.50	40.31	12.35	330.34	29.33	345.78	319.45	112.84	50.69	307.67	29.38	143.65	319.61
44648	83.90	-3.95	-5.50	39.98	11.57	306.75	23.91	354.26	317.89	121.99	52.98	308.35	23.88	139.66	318.12
44649	82.69	-3.95	-5.50	38.84	11.05	285.99	18.19	360.95	315.90	129.52	55.24	308.06	18.09	133.43	316.22
44650	81.48	-3.95	-5.50	37.12	10.67	269.13	12.31	366.00	313.65	135.50	57.43	306.82	12.11	125.18	314.07
44651	80.27	-3.95	-5.50	35.11	10.33	257.22	6.44	369.55	311.23	140.11	59.49	304.63	6.07	115.16	311.78
44652	79.06	-3.95	-5.50	33.09	9.97	251.16	1.85	371.69	308.74	143.58	61.35	301.40	0.92	103.65	309.43
44653	96.98	-5.08	-5.50	51.92	64.53	395.28	56.47	151.61	230.62	41.33	17.73	281.69	56.45	98.94	231.70
44654	95.78	-5.08	-5.50	54.52	54.53	452.04	58.21	174.16	255.65	44.42	23.92	291.27	58.15	66.82	255.98
44655	94.59	-5.08	-5.50	48.56	45.33	477.68	56.71	196.29	275.53	43.17	30.12	289.66	56.46	69.16	275.37
44656	93.39	-5.08	-5.50	41.41	37.71	481.40	54.02	220.67	289.85	41.26	34.39	289.06	53.85	87.69	289.53
44657	92.20	-5.07	-5.50	36.86	31.52	472.90	51.16	244.98	299.81	43.60	37.45	292.84	51.17	105.37	299.51
44658	91.00	-5.07	-5.50	35.50	26.47	457.09	48.19	267.48	306.60	51.54	39.89	298.84	48.35	119.54	306.37
44659	89.81	-5.07	-5.50	36.33	22.38	436.67	44.98	287.49	310.99	63.01	42.06	305.08	45.24	130.14	310.86
44660	88.61	-5.07	-5.50	38.00	19.13	413.44	41.40	304.90	313.54	75.69	44.14	310.50	41.69	137.41	313.51
44661	87.42	-5.07	-5.50	39.55	16.59	388.77	37.40	319.77	314.67	88.17	46.20	314.70	37.66	141.62	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
44689	91.68	-7.26	-5.50	51.61	35.88	476.70	46.36	243.10	284.77	55.80	36.72	317.72	46.58	103.81	284.19
44690	90.53	-7.26	-5.50	48.21	30.98	464.18	43.39	263.34	291.16	58.86	39.60	325.48	43.93	115.63	290.71
44691	89.38	-7.26	-5.50	46.19	26.85	447.14	40.23	281.71	295.49	65.61	42.02	332.75	40.98	124.81	295.22
44692	88.23	-7.26	-5.50	45.02	23.38	427.26	36.81	297.96	298.24	74.56	44.16	338.82	37.63	131.38	298.15
44693	87.08	-7.26	-5.50	44.20	20.43	405.87	33.06	312.02	299.75	84.27	46.08	343.45	33.85	135.43	299.84
44694	85.93	-7.26	-5.50	43.32	17.93	384.11	28.99	323.92	300.29	93.77	47.84	346.65	29.67	137.06	300.57
44695	84.78	-7.26	-5.50	42.12	15.78	363.01	24.64	333.80	300.08	102.44	49.45	348.58	25.15	136.42	300.55
44696	83.63	-7.25	-5.50	40.50	13.92	343.54	20.07	341.79	299.30	109.95	50.89	349.41	20.37	133.67	299.97
44697	82.48	-7.25	-5.50	38.45	12.30	326.63	15.37	348.07	298.08	116.14	52.17	349.28	15.40	129.02	298.99
44698	81.33	-7.25	-5.50	36.10	10.88	313.12	10.64	352.78	296.54	121.00	53.26	348.31	10.35	122.69	297.72
44699	80.18	-7.25	-5.50	33.61	9.62	303.74	6.14	356.05	294.76	124.61	54.11	346.54	5.29	114.89	296.25
44700	79.03	-7.25	-5.50	31.22	8.50	299.07	3.06	357.97	292.81	127.13	54.71	343.97	0.50	105.85	294.64
44701	97.23	-3.96	-6.90	42.85	54.46	441.94	47.03	162.47	263.49	36.51	25.05	266.54	47.15	74.53	264.04
44702	96.02	-3.96	-6.90	40.89	44.65	492.44	52.78	199.54	284.53	53.23	24.71	279.57	52.60	65.55	284.90
44703	94.81	-3.96	-6.90	36.00	36.22	516.45	56.04	231.40	301.66	68.83	27.32	289.81	55.62	90.24	301.81
44704	93.60	-3.96	-6.90	34.24	29.45	519.19	57.23	259.02	314.68	84.22	31.20	298.03	56.73	120.62	314.71
44705	92.39	-3.96	-6.90	38.57	24.47	507.74	56.98	283.08	323.93	100.87	35.31	305.21	56.51	144.63	323.92
44706	91.18	-3.96	-6.90	45.69	21.12	487.79	55.64	303.72	330.04	118.32	39.38	311.38	55.22	161.55	330.04
44707	89.96	-3.96	-6.90	52.33	19.12	462.97	53.32	321.22	333.65	135.70	43.43	316.28	52.94	172.63	333.67
44708	88.75	-3.96	-6.90	57.18	18.13	435.59	50.06	335.93	335.33	152.39	47.54	319.81	49.69	179.04	335.37
44709	87.54	-3.96	-6.90	59.98	17.77	407.21	45.90	348.22	335.55	168.06	51.74	322.03	45.50	181.61	335.62
44710	86.33	-3.96	-6.90	60.83	17.78	379.04	40.89	358.39	334.73	182.57	56.05	323.11	40.46	180.90	334.83
44711	85.12	-3.95	-6.90	60.02	17.95	352.13	35.17	366.70	333.19	195.89	60.44	323.21	34.70	177.35	333.34
44712	83.90	-3.95	-6.90	57.89	18.19	327.45	28.86	373.39	331.21	208.07	64.85	322.50	28.38	171.31	331.42
44713	82.69	-3.95	-6.90	54.83	18.44	305.99	22.13	378.66	328.97	219.24	69.21	321.09	21.73	163.11	329.26
44714	81.48	-3.95	-6.90	51.31	18.67	288.74	15.18	382.67	326.63	229.61	73.48	319.03	15.12	153.02	327.03
44715	80.27	-3.95	-6.90	47.83	18.85	276.68	8.34	385.56	324.30	239.44	77.58	316.32	9.57	141.39	324.83
44716	79.06	-3.95	-6.90	44.95	18.96	270.59	3.70	387.39	322.04	249.09	81.46	312.92	8.34	128.53	322.74
44717	96.98	-5.08	-6.90	46.43	54.67	441.32	46.72	166.75	259.94	42.21	26.22	270.14	46.94	76.00	260.80
44718	95.78	-5.08	-6.90	45.67	45.51	490.71	51.79	201.99	280.11	57.86	25.38	285.89	51.53	69.41	280.70
44719	94.59	-5.08	-6.90	42.21	37.57	515.08	54.72	232.18	296.58	72.31	27.65	298.47	54.07	91.90	296.83
44720	93.39	-5.08	-6.90	40.59	31.04	519.15	55.76	258.37	309.17	86.40	31.44	308.42	54.99	119.92	309.22
44721	92.20	-5.07	-6.90	43.28	26.06	509.41	55.43	281.34	318.18	101.62	35.59	316.73	54.70	142.51	318.17
44722	91.00	-5.07	-6.90	48.40	22.52	491.24	54.05	301.29	324.17	117.76	39.71	323.59	53.39	158.73	324.17
44723	89.81	-5.07	-6.90	53.50	20.23	468.08	51.71	318.40	327.76	134.07	43.78	328.89	51.11	169.57	327.79
44724	88.61	-5.07	-6.90	57.35	18.89	442.16	48.47	332.92	329.48	149.92	47.86	332.59	47.87	176.04	329.55
44725	87.42	-5.07	-6.90	59.54	18.23	415.08	44.38	345.12	329.81	164.95	51.96	334.84	43.73	178.82	329.92
44726	86.22	-5.06	-6.90	60.07	17.98	388.08	39.50	355.23	329.13	178.94	56.10	335.84	38.78	178.44	329.30
44727	85.03	-5.06	-6.90	59.09	17.98	362.24	33.98	363.49	327.77	191.79	60.24	335.83	33.18	175.28	328.01
44728	83.83	-5.06	-6.90	56.88	18.09	338.58	27.94	370.11	325.98	203.51	64.34	334.99	27.08	169.69	326.31
44729	82.63	-5.06	-6.90	53.80	18.24	318.06	21.55	375.31	323.94	214.21	68.35	333.48	20.76	162.00	324.39
44730	81.44	-5.06	-6.90	50.27	18.39	301.65	15.03	379.25	321.78	224.06	72.20	331.37	14.67	152.51	322.40
44731	80.24	-5.05	-6.90	46.78	18.50	290.21	8.81	382.06	319.61	233.31	75.85	328.68	10.05	141.54	320.43
44732	79.05	-5.05	-6.90	43.89	18.54	284.46	4.94	383.84	317.50	242.32	79.25	325.38	9.85	129.41	318.56
44733	96.66	-6.18	-6.90	50.49	54.92	440.54	46.37	171.43	255.85	48.30	27.42	274.61	46.72	77.63	257.03
44734	95.49	-6.18	-6.90	50.80	46.56	488.56	50.63	204.51	274.93	62.91	26.22	293.28	50.32	73.31	275.75
44735	94.31	-6.18	-6.90	48.49	39.24	513.35	53.15	232.77	290.53	76.15	28.18	308.40	52.28	93.42	290.90
44736	93.14	-6.18	-6.90	46.94	33.05	518.99	53.98	257.33	302.55	88.78	31.87	320.27	52.92	118.80	302.64
44737	91.96	-6.17	-6.90	48.20	28.14	511.30	53.51	279.07	311.22	102.39	36.04	329.86	52.50	139.79	311.21
44738	90.79	-6.17	-6.90	51.41	24.47	495.20	52.02	298.22	317.08	117.01	40.21	337.54	51.12	155.21	317.07
44739	89.61	-6.17	-6.90	54.92	21.88	473.97	49.64	314.87	320.67	132.06	44.31	343.32	48.80	165.78	320.70
44740	88.44	-6.17	-6.90	57.65	20.18	449.77	46.42	329.14	322.50	146.92	48.34	347.28	45.56	172.28	322.59
44741	87.26	-6.17	-6.90	59.15	19.14	424.22	42.42	341.19	323.02	161.16	52.31	349.62	41.48	175.29	323.18
44742	86.09	-6.16	-6.90	59.27	18.56	398.61	37.73	351.19	322.59	174.49	56.23	350.62	36.66	175.25	322.83
44743	84.91	-6.16	-6.90	58.07	18.26	374.07	32.47	359.33	321.50	186.76	60.05	350.55	31.25	172.51	321.84
44744	83.74	-6.16	-6.90	55.75	18.14	351.64	26.78	365.84	319.99	197.91	63.76	349.66	25.44	167.44	320.46
44745	82.56	-6.16	-6.90	52.61	18.10	332.25	20.84	370.92	318.21	208.01	67.32	348.11	19.50	160.34	318.85
44746	81.39	-6.16	-6.90	49.04	18.09	316.81	14.87	374.76	316.29	217.23	70.67	346.00	13.97	151.55	317.15
44747	80.21	-6.15	-6.90	45.54	18.07	306.10	9.38	377.49	314.33	225.79	73.78	343.37	10.28	141.37	315.46
44748	79.04	-6.15	-6.90	42.62	17.99	300.75	6.19	379.20	312.39	234.02	76.61	340.21	10.91	130.13	313.84
44749	96.28	-7.26	-6.90	54.84	55.21	439.63	45.95	176.13	251.42	54.53	28.58	279.90	46.48	79.27	252.92
44750	95.13	-7.26	-6.90	55.99	47.80	486.05	49.32	206.81	269.22	68.07	27.23	301.45	49.02	76.86	270.28
44751	93.98	-7.26	-6.90	54.57	41.24	511.27	51.33	232.98	283.80	80.04	28.98	319.12	50.29	94.54	284.29
44752	92.83	-7.26	-6.90	53.00	35.50	518.65	51.85	255.83	295.09	91.17	32.55	332.98	50.54	117.21	295.23
44753	91.68	-7.26	-6.90	53.07	30.74	513.21	51.16	276.30	303.35	103.06	36.71	343.96	49.90	136.53	303.35
44754	90.53	-7.26	-6.90	54.58	26.99	499.41	49.54	294.57	309.04	116.04	40.92	352.57	48.40	151.08	309.03
44755	89.38	-7.26	-6.90	56.54	24.16	480.33	47.11	310.67	312.67	129.68	45.02	358.97	46.02	161.31	312.72
44756	88.23	-7.26	-6.90	58.14	22.09	458.09	43.92	324.60	314.69	143.40	48.97	363.32	42.79	167.81	314.81
44757	87.08	-7.26	-6.90	58.87	20.63	434.31	40.05	336.41	315.49	156.72	52.77	365.90	38.79	171.01	315.70
44758	85.93	-7.26	-6.90	58.52	19.63	410.35	35.60	346.21	315.40	169.27	56.39	367.03	34.13	171.29	315.71
44759	84.78	-7.26	-6.90	57.05	18.94	387.38	30.67	3							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
44787	89.81	-5.07	-8.30	87.71	27.41	494.55	62.00	349.64	345.82	218.46	46.41	351.17	60.85	212.03	345.91
44788	88.61	-5.07	-8.30	90.71	27.74	466.36	58.66	360.23	345.94	235.94	52.00	352.81	57.50	216.96	346.03
44789	87.42	-5.07	-8.30	91.06	28.03	437.46	54.03	368.91	344.84	252.28	57.88	353.08	52.88	218.06	344.93
44790	86.22	-5.06	-8.30	89.13	28.26	409.10	48.29	375.95	342.96	267.64	63.98	352.33	47.17	215.94	343.08
44791	85.03	-5.06	-8.30	85.37	28.43	382.35	41.67	381.60	340.65	282.17	70.19	350.86	40.64	211.07	340.82
44792	83.83	-5.06	-8.30	80.24	28.60	358.15	34.38	386.07	338.17	296.03	76.40	348.89	33.63	203.88	338.41
44793	82.63	-5.06	-8.30	74.33	28.78	337.40	26.67	389.56	335.67	309.48	82.54	346.57	26.63	194.76	336.03
44794	81.44	-5.06	-8.30	68.32	28.98	320.95	18.85	392.25	333.29	322.82	88.51	343.96	20.62	184.09	333.80
44795	80.24	-5.05	-8.30	63.02	29.21	309.56	11.54	394.24	331.10	336.39	94.27	341.08	17.50	172.22	331.82
44796	79.05	-5.05	-8.30	59.32	29.45	303.87	7.33	395.61	329.17	350.60	99.75	337.93	19.28	159.55	330.13
44797	96.66	-6.18	-8.30	39.84	44.25	500.58	47.99	199.75	288.70	69.81	36.01	289.26	49.20	77.47	289.49
44798	95.49	-6.18	-8.30	43.67	37.49	539.01	54.51	240.64	304.33	100.48	32.31	312.77	54.47	102.01	305.10
44799	94.31	-6.18	-8.30	52.30	32.61	555.74	59.08	273.02	317.01	129.33	31.58	332.17	58.12	133.68	317.57
44800	93.14	-6.18	-8.30	63.11	29.51	555.95	61.75	297.86	326.62	154.70	33.57	346.51	60.30	161.65	326.97
44801	91.96	-6.17	-8.30	73.21	27.85	544.55	62.71	317.21	333.29	176.81	37.35	356.51	61.05	182.99	333.50
44802	90.79	-6.17	-8.30	81.09	27.20	525.49	62.13	332.79	337.31	196.55	42.07	363.07	60.41	197.96	337.45
44803	89.61	-6.17	-8.30	86.31	27.09	501.67	60.10	345.64	339.13	214.66	47.28	366.94	58.37	207.60	339.25
44804	88.44	-6.17	-8.30	88.94	27.21	475.18	56.74	356.29	339.30	231.55	52.81	368.70	54.99	212.84	339.41
44805	87.26	-6.17	-8.30	89.19	27.39	447.67	52.19	365.01	338.31	247.39	58.53	368.89	50.41	214.34	338.44
44806	86.09	-6.16	-8.30	87.33	27.58	420.50	46.64	372.03	336.61	262.24	64.35	367.95	44.84	212.64	336.78
44807	84.91	-6.16	-8.30	83.68	27.78	394.82	40.32	377.57	334.52	276.19	70.17	366.27	38.57	208.21	334.75
44808	83.74	-6.16	-8.30	78.67	27.98	371.64	33.45	381.91	332.26	289.36	75.91	364.10	31.96	201.50	332.60
44809	82.56	-6.16	-8.30	72.84	28.19	351.82	26.29	385.25	329.99	301.99	81.49	361.62	25.61	192.94	330.49
44810	81.39	-6.16	-8.30	66.89	28.41	336.18	19.19	387.80	327.81	314.36	86.85	358.92	20.62	182.92	328.52
44811	80.21	-6.15	-8.30	61.62	28.62	325.40	12.87	389.68	325.80	326.80	91.94	356.02	18.89	171.82	326.77
44812	79.04	-6.15	-8.30	57.92	28.82	320.02	9.50	390.98	324.00	339.72	96.71	352.93	21.70	160.00	325.31
44813	96.28	-7.26	-8.30	44.42	45.23	498.20	48.16	204.36	282.85	75.16	37.11	298.35	49.83	83.02	283.83
44814	95.13	-7.26	-8.30	48.87	38.87	535.35	53.85	241.56	297.71	103.67	33.44	323.78	53.91	104.76	298.68
44815	93.98	-7.26	-8.30	56.54	34.15	553.07	57.84	271.20	309.84	130.37	32.78	344.81	56.68	132.74	310.55
44816	92.83	-7.26	-8.30	65.53	30.90	555.63	60.10	294.34	319.07	153.86	34.80	360.63	58.22	158.10	319.52
44817	91.68	-7.26	-8.30	73.82	28.87	547.07	60.73	312.79	325.51	174.43	38.59	371.87	58.52	178.07	325.79
44818	90.53	-7.26	-8.30	80.33	27.78	530.72	59.89	328.01	329.46	192.98	43.34	379.32	57.55	192.57	329.65
44819	89.38	-7.26	-8.30	84.71	27.28	509.20	57.71	340.78	331.38	210.19	48.55	383.73	55.31	202.26	331.54
44820	88.23	-7.26	-8.30	86.95	27.11	484.61	54.33	351.43	331.77	226.39	53.97	385.75	51.85	207.79	331.93
44821	87.08	-7.26	-8.30	87.10	27.11	458.70	49.90	360.10	331.09	241.62	59.46	386.00	47.32	209.65	331.27
44822	85.93	-7.26	-8.30	85.27	27.20	432.95	44.62	366.99	329.75	255.84	64.90	385.03	41.93	208.34	329.98
44823	84.78	-7.26	-8.30	81.70	27.33	408.60	38.71	372.36	328.02	269.06	70.23	383.27	35.97	204.35	328.34
44824	83.63	-7.25	-8.30	76.77	27.48	386.65	32.39	376.49	326.11	281.40	75.37	381.04	29.84	198.15	326.57
44825	82.48	-7.25	-8.30	71.02	27.64	367.97	25.92	379.64	324.16	293.05	80.29	378.52	24.19	190.21	324.81
44826	81.33	-7.25	-8.30	65.13	27.80	353.29	19.66	382.02	322.25	304.31	84.92	375.82	20.26	180.93	323.16
44827	80.18	-7.25	-8.30	59.89	27.93	343.21	14.37	383.77	320.46	315.49	89.25	372.98	19.79	170.68	321.69
44828	79.03	-7.25	-8.30	56.18	28.03	338.21	11.68	384.97	318.83	326.96	93.22	370.00	23.45	159.83	320.46
44829	101.69	-3.96	-2.70	11.17	115.43	12.09	22.53	10.50	25.30	10.58	53.11	13.62	11.08	7.47	27.36
44830	100.83	-3.96	-2.70	28.79	115.23	17.74	36.19	13.24	33.05	46.07	42.66	28.42	30.20	26.13	33.11
44831	99.98	-3.96	-2.70	45.40	114.60	31.82	62.80	17.38	43.25	106.91	25.12	42.56	60.04	59.33	43.41
44832	99.12	-3.96	-2.70	67.73	111.46	61.75	107.13	56.43	64.78	203.99	21.11	76.78	105.74	118.81	66.54
44833	98.27	-3.96	-2.70	135.31	105.83	223.55	184.64	168.98	142.50	361.15	88.55	295.74	184.16	266.07	146.17
44834	101.47	-5.07	-2.70	13.89	115.02	12.00	28.33	11.45	25.41	11.61	51.19	13.55	13.00	9.26	28.59
44835	100.60	-5.07	-2.70	33.00	114.25	17.80	40.47	14.25	32.86	48.99	41.38	27.98	31.53	27.00	32.94
44836	99.74	-5.08	-2.70	51.71	113.51	32.03	64.57	18.62	42.97	110.58	24.68	41.87	60.16	58.47	43.22
44837	98.87	-5.08	-2.70	76.68	111.90	62.19	106.12	57.25	64.85	206.62	26.93	75.49	103.82	115.37	67.57
44838	98.01	-5.08	-2.70	145.94	115.62	224.89	179.37	169.31	143.91	360.74	97.70	288.94	178.55	257.21	149.40
44839	101.20	-6.17	-2.70	17.35	114.48	11.91	34.25	12.58	25.54	13.10	49.09	13.46	15.18	11.33	29.89
44840	100.32	-6.18	-2.70	37.96	113.02	17.90	45.11	15.40	32.61	52.66	39.82	27.45	33.14	28.02	32.70
44841	99.44	-6.18	-2.70	58.76	112.23	32.29	66.58	20.03	42.63	115.04	24.13	41.05	60.27	57.43	42.98
44842	98.57	-6.18	-2.70	86.30	112.53	62.77	104.95	58.20	65.03	209.70	32.81	74.02	101.52	111.24	68.74
44843	97.69	-6.18	-2.70	157.42	126.56	226.56	172.99	169.52	145.89	359.93	108.04	280.94	171.72	246.49	153.09
44844	100.87	-7.26	-2.70	21.37	113.70	11.78	40.29	13.77	25.66	15.29	47.00	13.40	17.65	13.51	31.20
44845	99.98	-7.26	-2.70	43.67	111.62	18.04	49.87	16.66	32.26	57.11	38.08	26.88	34.98	29.15	32.34
44846	99.09	-7.26	-2.70	66.50	110.79	32.63	68.72	21.56	42.25	120.24	23.45	40.17	60.33	56.18	42.71
44847	98.20	-7.26	-2.70	96.31	113.35	63.44	103.59	59.17	65.40	213.13	38.65	72.36	98.79	106.39	70.06
44848	97.31	-7.26	-2.70	168.96	138.16	228.48	165.67	169.59	148.49	358.57	119.11	271.98	163.79	234.23	157.08
44849	101.69	-3.96	-4.10	7.13	113.64	43.07	22.45	17.10	81.14	12.65	51.93	76.49	14.69	34.35	83.09
44850	100.83	-3.96	-4.10	17.53	107.19	65.07	35.13	26.94	94.96	47.77	37.27	106.44	30.61	80.57	94.99
44851	99.98	-3.96	-4.10	31.46	100.16	108.40	53.28	54.47	114.70	85.10	21.09	137.36	50.45	131.15	115.05
44852	99.12	-3.96	-4.10	43.62	90.94	184.31	72.75	103.54	144.02	108.47	7.79	206.97	70.98	182.32	145.71
44853	98.27	-3.96	-4.10	41.52	83.54	277.74	77.44	132.84	174.92	73.36	15.65	283.84	76.94	173.31	176.54
44854	101.47	-5.07	-4.10	9.39	113.03	42.70	27.95	20.92	81.06	12.64	51.20	75.34	17.44	37.75	84.12
44855	100.60	-5.07	-4.10	20.09	106.00	65.41	39.47	30.39	94.50	47.80	36.22	104.58	32.67	81.22	94.55
44856	99.74	-5.08	-4.10	34.60	98.53	109.11	56.18	57.05	114.10	85.12	19.55	135.05	51.70	128.94	114.65
44857	98.87	-5.08	-4.10	48.36	89.62	185.37	73.83	105.60	143.57	109.27	8.34				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{XZ}$ [kPa]	$\tau_{YZ}$ [kPa]	$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{XZ}$ [kPa]	$\tau_{YZ}$ [kPa]
44885	99.98	-7.26	-5.50	23.46	95.64	127.34	40.57	58.91	143.83	25.49	42.83	184.90	31.47	103.65	143.76
44886	99.09	-7.26	-5.50	32.94	86.43	189.26	45.97	82.52	161.29	38.30	31.82	202.35	40.11	128.34	161.63
44887	98.20	-7.26	-5.50	44.33	78.85	258.42	49.51	109.49	180.84	44.21	23.45	227.93	46.27	132.59	182.63
44888	97.31	-7.26	-5.50	54.90	71.44	327.54	53.13	135.59	201.53	52.07	17.12	256.31	51.90	120.98	204.03
44889	101.69	-3.96	-6.90	7.62	96.14	142.74	17.41	33.27	177.02	4.86	46.88	314.08	10.91	50.87	177.88
44890	100.83	-3.96	-6.90	17.15	88.00	181.58	20.86	49.50	191.74	12.16	42.29	277.25	17.82	93.19	191.60
44891	99.98	-3.96	-6.90	26.56	79.89	245.63	26.61	71.15	208.25	15.66	37.36	257.05	25.56	113.61	208.15
44892	99.12	-3.96	-6.90	34.28	71.65	314.81	33.52	97.92	225.78	18.22	32.41	251.34	33.41	114.26	226.02
44893	98.27	-3.96	-6.90	40.33	63.71	379.36	40.05	127.42	243.38	24.11	28.34	255.77	40.24	99.79	243.89
44894	101.47	-5.07	-6.90	9.55	95.78	142.75	22.13	41.11	175.63	5.57	50.41	307.86	14.22	57.08	177.01
44895	100.60	-5.07	-6.90	19.35	87.55	183.02	24.86	56.61	190.00	13.31	45.40	271.91	20.82	95.53	189.78
44896	99.74	-5.08	-6.90	28.97	79.38	247.28	29.40	77.68	206.07	18.24	40.02	253.35	27.92	113.64	205.89
44897	98.87	-5.08	-6.90	36.94	71.20	316.09	35.13	104.00	223.22	22.75	34.57	249.85	35.00	113.11	223.59
44898	98.01	-5.08	-6.90	43.26	63.46	380.03	40.68	132.99	240.48	29.95	30.03	256.70	41.00	98.76	241.28
44899	101.20	-6.17	-6.90	12.06	95.30	142.88	26.90	49.26	174.05	6.91	53.84	300.14	17.87	64.06	176.03
44900	100.32	-6.18	-6.90	22.07	86.92	184.90	29.01	64.14	187.92	15.08	48.37	265.42	24.17	98.16	187.61
44901	99.44	-6.18	-6.90	31.90	78.72	249.37	32.43	84.86	203.53	21.44	42.49	249.02	30.58	113.60	203.26
44902	98.57	-6.18	-6.90	40.12	70.62	317.66	36.92	110.78	220.29	27.68	36.53	248.32	36.81	111.74	220.79
44903	97.69	-6.18	-6.90	46.71	63.14	380.84	41.37	139.21	237.16	36.08	31.59	258.13	41.87	97.60	238.27
44904	100.87	-7.26	-6.90	15.03	94.61	143.21	31.70	57.17	172.31	9.03	56.86	291.09	21.80	71.13	174.91
44905	99.98	-7.26	-6.90	25.32	86.10	187.23	33.19	71.94	185.48	17.57	50.91	257.92	27.66	101.01	185.07
44906	99.09	-7.26	-6.90	35.35	77.91	251.87	35.53	92.40	200.77	25.24	44.49	244.29	33.39	113.50	200.39
44907	98.20	-7.26	-6.90	43.77	69.92	319.50	38.79	117.90	217.18	33.02	38.09	246.99	38.74	110.17	217.80
44908	97.31	-7.26	-6.90	50.58	62.76	381.78	42.09	145.67	233.64	42.41	32.88	260.20	42.81	96.35	235.04
44909	101.69	-3.96	-8.30	7.71	81.09	197.34	14.91	39.39	217.90	4.89	47.19	421.71	10.57	49.74	218.22
44910	100.83	-3.96	-8.30	19.39	73.25	237.92	18.04	52.44	233.96	11.15	45.73	329.67	17.09	79.58	233.57
44911	99.98	-3.96	-8.30	28.90	65.10	309.38	23.99	74.77	250.54	13.44	43.37	285.31	24.78	88.61	250.20
44912	99.12	-3.96	-8.30	33.83	57.17	383.75	31.54	107.04	266.69	18.82	40.40	261.67	32.77	80.79	266.65
44913	98.27	-3.96	-8.30	34.22	49.80	448.06	39.43	144.89	281.88	33.86	37.08	260.93	40.45	67.32	282.11
44914	101.47	-5.07	-8.30	9.32	81.51	197.87	19.09	49.34	215.61	5.59	52.29	412.83	14.19	58.26	216.14
44915	100.60	-5.07	-8.30	21.05	73.81	240.03	21.61	62.41	231.14	12.30	50.23	333.00	20.55	84.35	230.53
44916	99.74	-5.08	-8.30	30.54	65.77	311.35	26.48	83.92	247.16	16.29	47.12	282.05	27.73	91.41	246.62
44917	98.87	-5.08	-8.30	35.63	57.97	384.77	33.07	115.00	262.92	23.61	43.31	262.35	34.97	83.32	262.84
44918	98.01	-5.08	-8.30	36.63	50.70	447.98	40.20	151.55	277.87	38.96	39.18	265.07	41.81	71.28	278.22
44919	101.20	-6.17	-8.30	11.44	81.89	198.69	23.39	59.45	212.82	6.95	57.22	401.87	18.27	67.34	213.62
44920	100.32	-6.18	-8.30	23.14	74.25	242.76	25.37	72.56	227.58	14.10	54.49	324.94	24.44	89.55	226.71
44921	99.44	-6.18	-8.30	32.57	66.36	313.80	29.26	93.69	242.99	19.81	50.59	278.36	31.03	94.50	242.21
44922	98.57	-6.18	-8.30	37.85	58.73	386.00	34.84	123.79	258.35	28.94	45.96	263.49	37.46	86.17	258.23
44923	97.69	-6.18	-8.30	39.52	51.59	447.81	41.13	158.96	273.04	44.78	41.11	270.23	43.40	75.66	273.51
44924	100.87	-7.26	-8.30	14.01	81.98	199.96	27.74	69.05	209.55	9.13	61.33	389.00	22.68	76.18	210.65
44925	99.98	-7.26	-8.30	25.69	74.34	246.14	29.21	82.73	223.31	16.69	57.88	315.65	28.47	94.99	222.18
44926	99.09	-7.26	-8.30	35.04	66.65	316.73	32.16	103.72	238.30	24.03	53.16	274.44	34.47	97.72	237.26
44927	98.20	-7.26	-8.30	40.49	59.18	387.38	36.76	132.91	253.33	34.81	47.81	265.17	40.15	89.13	253.13
44928	97.31	-7.26	-8.30	42.83	52.21	447.52	42.21	166.60	267.73	51.15	42.43	276.32	45.20	80.11	268.31
44929	77.84	-3.95	-2.70	32.42	10.52	212.54	4.62	332.92	276.10	57.83	25.44	276.14	13.93	63.34	276.70
44930	76.63	-3.95	-2.70	34.70	10.37	218.15	7.91	331.58	272.47	73.19	24.19	270.94	16.69	54.52	273.15
44931	75.42	-3.95	-2.70	37.67	10.93	228.91	11.08	328.44	268.66	91.56	23.03	263.57	19.83	46.60	269.40
44932	74.21	-3.95	-2.70	41.41	12.29	243.91	13.87	323.51	264.65	112.57	22.07	254.01	22.98	43.15	265.42
44933	73.00	-3.95	-2.70	45.94	14.45	262.06	16.19	316.81	260.42	135.60	21.47	242.68	25.89	48.76	261.16
44934	71.79	-3.96	-2.70	51.21	17.45	282.28	17.94	308.37	255.93	159.69	21.40	231.17	28.35	64.41	256.56
44935	70.57	-3.96	-2.71	57.07	21.33	303.52	19.08	298.25	251.13	183.35	22.06	223.29	30.20	87.46	251.53
44936	69.36	-3.96	-2.71	63.18	25.22	324.79	19.59	286.56	245.97	204.46	23.64	226.28	31.41	114.93	246.04
44937	68.15	-3.96	-2.71	69.04	32.30	345.12	19.46	273.38	240.42	220.31	26.28	249.64	32.19	143.30	240.15
44938	66.94	-3.96	-2.71	73.97	39.77	363.40	18.78	258.62	234.53	228.17	29.91	299.29	33.27	167.01	234.16
44939	65.73	-3.96	-2.71	77.34	48.71	378.30	17.77	241.81	228.49	227.32	34.03	371.81	36.09	177.38	228.52
44940	64.52	-3.96	-2.71	78.97	58.74	387.85	17.10	221.82	222.58	223.28	37.85	452.99	42.53	164.13	223.60
44941	63.30	-3.96	-2.71	79.62	68.75	389.17	18.60	197.42	216.90	233.63	43.18	519.10	52.38	125.98	219.01
44942	62.09	-3.96	-2.71	80.69	77.45	378.16	25.20	169.96	210.73	287.18	56.92	546.70	59.42	105.39	214.23
44943	60.88	-3.97	-2.71	83.77	86.48	353.68	38.40	147.07	202.46	406.00	70.20	553.65	55.92	160.11	215.11
44944	59.67	-3.97	-2.71	85.93	108.92	292.12	61.61	131.23	184.09	600.14	87.67	567.84	65.74	284.20	234.59
44945	77.85	-5.05	-2.70	32.43	11.04	225.05	5.16	329.69	271.69	57.81	24.43	286.39	17.38	64.35	272.60
44946	76.66	-5.05	-2.70	34.34	10.91	230.32	8.02	328.34	268.21	72.18	23.01	281.65	20.27	55.82	269.24
44947	75.46	-5.06	-2.71	36.97	11.54	240.36	10.90	325.20	264.54	89.54	21.66	274.89	23.60	47.61	265.67
44948	74.27	-5.06	-2.71	40.39	12.94	254.38	13.48	320.31	260.68	109.57	20.48	266.10	27.09	42.52	261.85
44949	73.07	-5.06	-2.71	44.65	15.10	271.41	15.64	313.67	256.61	131.74	19.60	255.62	30.51	45.04	257.74
44950	71.88	-5.06	-2.71	49.71	17.99	290.45	17.32	305.33	252.28	155.25	19.20	244.73	33.66	57.52	253.26
44951	70.68	-5.07	-2.71	55.45	21.66	310.54	18.47	295.37	247.64	178.81	19.51	236.53	36.32	78.02	248.32
44952	69.49	-5.07	-2.72	61.57	26.24	330.72	19.10	283.91	242.63	200.52	20.77	237.00	38.35	103.54	242.83
44953	68.29	-5.07	-2.72	67.59	31.95	350.05	19.25	271.10	237.19	217.79	23.22	254.69	39.75	130.69	236.83
44954	67.10	-5.07	-2.72	72.79	39.16	367.51	19.04	256.92	231.29	227.62	27.15	296.36	40.95	154.25	230.60
44955	65.90	-5.08	-2.72	76.33	48.34	381.80	18.70	240.91	225.00	228.19	32.82	360.65	43.14	165.71	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
44983	70.97	-7.26	-2.71	50.62	23.80	327.62	18.12	288.80	238.16	165.85	18.23	269.31	50.42	55.05	239.30
44984	69.82	-7.26	-2.71	56.21	27.85	344.82	19.11	275.68	233.80	188.39	20.14	264.63	55.37	73.17	234.27
44985	68.67	-7.26	-2.71	62.18	32.66	361.41	19.88	263.43	229.14	209.42	23.29	269.78	59.75	94.76	228.68
44986	67.52	-7.26	-2.71	68.07	38.50	376.55	20.52	250.33	224.07	227.03	27.75	291.54	63.08	116.06	222.63
44987	66.37	-7.26	-2.71	73.26	45.84	389.27	21.19	236.49	218.42	239.63	33.66	333.75	64.89	131.37	216.72
44988	65.22	-7.26	-2.71	77.08	55.46	398.27	22.32	221.54	211.84	247.94	41.46	391.72	65.11	132.69	212.65
44989	64.07	-7.26	-2.71	79.18	68.68	401.49	25.14	204.20	203.57	259.48	52.60	448.85	65.32	115.20	213.89
44990	62.92	-7.27	-2.71	80.39	87.15	395.01	32.33	182.55	191.97	295.84	70.76	476.98	71.78	104.46	223.21
44991	61.77	-7.27	-2.71	83.81	110.91	375.05	45.43	156.49	175.41	397.12	108.28	466.26	96.40	153.36	227.29
44992	60.62	-7.27	-2.71	88.45	135.98	310.45	70.44	128.73	150.42	586.96	197.76	444.66	144.09	234.57	186.10
44993	77.84	-3.95	-4.10	27.50	5.48	231.91	4.60	353.71	291.45	40.56	42.56	286.27	7.68	73.93	292.21
44994	76.63	-3.95	-4.10	27.50	4.58	238.18	9.00	352.75	288.36	33.92	42.29	280.57	11.07	62.68	289.26
44995	75.42	-3.95	-4.10	28.09	4.21	250.03	13.04	350.18	285.16	26.17	41.79	273.17	14.72	52.31	286.18
44996	74.21	-3.95	-4.10	29.46	4.77	266.54	16.58	345.95	281.81	18.01	41.02	264.29	18.11	45.90	282.94
44997	73.00	-3.95	-4.10	31.78	6.38	286.63	19.55	340.02	278.29	10.49	39.95	254.79	21.02	47.75	279.45
44998	71.79	-3.96	-4.10	35.20	8.91	309.17	21.83	332.32	274.51	5.45	38.53	246.79	23.31	59.10	275.62
44999	70.57	-3.96	-4.10	39.82	12.30	333.08	23.38	322.77	270.39	5.43	36.68	244.38	24.88	76.89	271.31
45000	69.36	-3.96	-4.11	45.75	16.59	357.27	24.16	311.23	265.81	9.54	34.23	253.66	25.74	97.34	266.40
45001	68.15	-3.96	-4.11	53.12	21.91	380.58	24.15	297.51	260.65	20.01	30.95	280.49	25.97	116.89	260.80
45002	66.94	-3.96	-4.11	62.07	28.38	401.64	23.44	281.27	254.77	38.99	26.48	326.13	25.90	131.45	254.51
45003	65.73	-3.96	-4.11	72.66	36.10	418.64	22.16	262.05	248.01	64.70	21.26	384.37	26.17	136.51	247.64
45004	64.52	-3.96	-4.11	84.57	45.02	429.11	20.57	239.44	240.12	90.33	21.45	441.89	27.61	129.24	240.22
45005	63.30	-3.96	-4.11	96.55	54.94	429.62	19.09	213.86	230.57	103.88	38.52	481.92	29.88	113.10	231.98
45006	62.09	-3.96	-4.11	106.20	65.73	416.02	18.29	188.06	218.24	94.66	70.38	493.90	30.12	110.67	222.65
45007	60.88	-3.96	-4.11	110.75	78.01	381.13	18.54	167.06	200.59	68.60	113.49	476.87	26.74	116.07	211.49
45008	59.67	-3.97	-4.11	103.93	91.31	318.38	16.62	156.26	175.99	44.34	171.98	399.17	18.40	207.20	193.68
45009	77.85	-5.05	-4.10	27.22	5.42	245.08	4.36	350.23	287.01	38.79	40.78	297.58	9.10	75.25	288.17
45010	76.66	-5.05	-4.10	27.03	4.57	251.00	8.44	349.25	284.04	32.36	40.20	292.34	11.93	64.45	285.41
45011	75.46	-5.06	-4.10	27.44	4.49	262.11	12.20	346.66	280.95	24.82	39.36	285.56	15.17	54.02	282.50
45012	74.27	-5.06	-4.11	28.66	5.43	277.64	15.50	342.44	277.70	16.79	38.21	277.41	18.29	46.30	279.40
45013	73.07	-5.06	-4.11	30.84	7.27	296.60	18.25	336.53	274.27	9.25	36.69	268.60	21.04	45.20	276.04
45014	71.88	-5.06	-4.11	34.11	9.85	317.95	20.39	328.88	270.58	4.21	34.78	260.87	23.27	53.24	272.30
45015	70.68	-5.07	-4.11	38.59	13.14	340.66	21.87	319.42	266.55	4.71	32.40	257.56	24.88	68.47	268.02
45016	69.49	-5.07	-4.11	44.34	17.21	363.67	22.67	308.06	262.06	7.20	29.52	263.84	25.84	87.21	263.05
45017	68.29	-5.07	-4.11	51.46	22.21	385.85	22.84	294.66	256.96	14.50	26.13	285.21	26.27	105.86	257.27
45018	67.10	-5.07	-4.12	60.06	28.38	405.89	22.50	278.97	251.07	30.63	22.41	323.90	26.50	120.42	250.70
45019	65.90	-5.08	-4.12	70.22	35.97	422.06	21.83	260.52	244.21	54.38	19.58	375.28	27.18	126.40	243.55
45020	64.71	-5.08	-4.12	81.82	45.25	431.99	21.03	238.77	236.09	79.83	22.50	427.15	29.29	120.60	236.11
45021	63.51	-5.08	-4.12	94.13	56.37	432.26	20.27	213.56	226.32	95.20	38.41	462.46	33.18	105.88	228.51
45022	62.32	-5.08	-4.12	105.35	69.22	418.48	19.51	186.64	214.24	87.76	70.31	470.39	36.69	95.15	220.71
45023	61.12	-5.08	-4.12	113.07	83.54	381.88	18.57	162.63	197.95	66.49	120.99	454.39	37.47	102.28	211.23
45024	59.93	-5.09	-4.13	109.53	98.34	309.43	13.47	147.14	177.52	60.02	194.36	388.97	29.78	171.38	194.19
45025	77.86	-6.15	-4.10	27.18	5.42	260.56	4.17	345.82	281.61	36.88	38.72	311.17	10.67	76.68	283.19
45026	76.69	-6.15	-4.10	26.73	4.69	266.04	7.86	344.80	278.79	30.67	37.81	306.43	13.05	66.52	280.63
45027	75.51	-6.16	-4.10	26.90	4.99	276.31	11.28	342.18	275.82	23.39	36.62	300.28	15.91	60.30	277.90
45028	74.34	-6.16	-4.11	27.87	6.34	290.68	14.28	337.94	272.68	15.61	35.10	292.87	18.79	47.64	274.95
45029	73.16	-6.16	-4.11	29.81	8.46	308.30	16.78	332.03	269.35	8.38	33.18	284.74	21.44	43.62	271.72
45030	71.99	-6.16	-4.11	32.84	11.16	328.20	18.72	324.41	265.77	4.66	30.81	277.25	23.69	47.49	268.08
45031	70.82	-6.17	-4.11	37.07	14.42	349.44	20.06	315.03	261.87	6.64	27.96	272.97	25.43	59.10	263.89
45032	69.64	-6.17	-4.11	42.53	18.30	370.98	20.82	303.84	257.53	8.09	24.64	276.05	26.58	75.25	258.96
45033	68.47	-6.17	-4.11	49.30	22.95	391.78	21.07	290.76	252.59	9.80	21.04	291.39	27.18	92.42	253.14
45034	67.29	-6.17	-4.12	57.41	28.61	410.56	20.97	275.66	246.87	19.77	17.82	322.02	27.45	106.85	246.42
45035	66.12	-6.18	-4.12	66.91	35.61	425.78	20.82	258.23	240.09	38.80	17.10	365.48	27.99	114.36	239.03
45036	64.94	-6.18	-4.12	77.76	44.39	435.25	21.02	238.00	231.86	61.60	22.70	411.93	29.88	111.62	231.55
45037	63.77	-6.18	-4.12	89.53	55.46	435.82	21.96	214.59	221.54	77.98	38.14	445.29	34.64	100.53	224.51
45038	62.59	-6.18	-4.12	101.11	69.11	423.23	23.64	188.85	208.23	75.11	67.98	452.31	43.14	93.02	217.32
45039	61.42	-6.19	-4.12	110.88	85.05	388.76	25.65	164.37	190.21	61.15	118.37	431.93	54.65	101.22	205.55
45040	60.24	-6.19	-4.12	112.10	101.49	318.35	25.04	147.09	167.23	67.53	193.16	364.27	60.55	158.89	180.22
45041	77.87	-7.25	-4.10	27.65	5.62	278.06	4.14	340.46	275.26	35.09	36.45	326.87	12.27	78.10	277.22
45042	76.72	-7.25	-4.10	28.88	5.11	283.03	7.37	339.37	272.60	29.18	35.24	322.63	14.32	68.77	274.85
45043	75.57	-7.25	-4.10	26.72	5.84	292.33	10.41	336.71	269.76	22.31	33.73	317.09	16.89	59.09	272.29
45044	74.42	-7.25	-4.10	27.35	7.59	305.39	13.09	332.45	266.75	15.13	31.90	310.38	19.60	50.10	269.48
45045	73.27	-7.25	-4.10	28.92	9.99	321.46	15.31	326.55	263.54	9.08	29.67	302.88	22.22	43.83	266.38
45046	72.12	-7.26	-4.10	31.58	12.86	339.69	17.02	318.96	260.10	7.72	27.01	295.57	24.61	43.33	262.87
45047	70.97	-7.26	-4.10	35.39	16.17	359.18	18.21	309.64	256.36	10.70	23.87	290.34	26.63	50.16	258.81
45048	69.82	-7.26	-4.11	40.41	19.97	378.99	18.90	298.57	252.23	12.93	20.34	290.30	28.17	62.56	254.03
45049	68.67	-7.26	-4.11	46.65	24.35	398.12	19.17	285.77	247.60	12.63	16.78	299.48	29.15	77.24	248.36
45050	67.52	-7.26	-4.11	54.13	29.50	415.42	19.20	271.19	242.26	12.89	14.44	321.25	29.59	90.83	241.75
45051	66.37	-7.26	-4.11	62.82	35.68	429.51	19.32	254.75	235.92	21.97	16.12	355.39	28.84	99.73	234.40
45052	65.22	-7.26	-4.11	72.65	43.28	438.52	20.06	236.27	228.10	38.03	23.89	395.54	30.92	101.01	227.01
45053	64.07	-7.26	-4.11	83.28	52.81	439.80	22.11	215.62	217.91	52.30	38.82	428.83	35.17	95.66	220.

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
45081	68.29	-5.07	-5.51	57.65	12.51	419.33	29.41	319.41	277.98	230.19	46.68	310.08	31.79	68.93	279.07
45082	67.10	-5.07	-5.51	70.56	17.53	442.28	28.95	303.66	272.73	269.54	37.57	344.51	31.45	75.53	273.00
45083	65.90	-5.07	-5.51	86.41	23.90	461.30	27.77	284.71	266.17	317.41	24.23	387.60	29.92	78.99	265.77
45084	64.71	-5.08	-5.51	104.74	31.74	473.84	25.95	263.35	257.86	370.29	6.48	429.94	27.15	80.59	257.43
45085	63.51	-5.08	-5.51	124.24	41.16	476.34	23.44	232.02	247.26	422.09	26.63	459.09	23.54	83.93	248.10
45086	62.32	-5.08	-5.52	142.44	52.19	463.59	19.91	210.54	233.73	466.65	69.35	461.61	20.10	93.27	237.83
45087	61.12	-5.08	-5.52	154.43	64.57	428.85	14.67	186.12	217.00	496.60	129.85	418.87	16.43	118.61	226.42
45088	59.93	-5.09	-5.52	154.19	77.13	369.51	11.07	165.72	197.90	492.23	208.05	308.28	9.35	180.54	213.94
45089	77.86	-6.15	-5.50	29.78	8.32	281.19	5.30	364.26	296.61	135.63	58.00	323.75	5.07	94.27	298.40
45090	76.69	-6.15	-5.50	28.48	7.63	287.11	9.68	363.62	294.29	137.36	58.42	319.07	9.98	82.61	296.43
45091	75.51	-6.16	-5.50	28.01	7.00	298.19	13.92	361.63	291.91	139.24	58.40	313.49	14.53	70.85	294.40
45092	74.34	-6.16	-5.50	28.54	6.55	313.75	17.73	358.21	289.45	142.01	57.86	307.25	18.63	59.91	292.27
45093	73.16	-6.16	-5.51	30.24	6.48	332.94	20.99	353.28	286.88	146.63	56.66	301.05	22.18	51.25	289.93
45094	71.99	-6.16	-5.51	33.32	7.09	354.80	23.59	346.68	284.11	154.29	54.65	296.27	25.14	46.86	287.23
45095	70.81	-6.17	-5.51	38.06	8.61	378.32	25.46	338.26	281.03	166.48	51.62	295.24	27.47	48.01	283.98
45096	69.64	-6.17	-5.51	44.83	11.11	402.43	26.58	327.80	277.50	184.82	47.28	301.19	29.17	53.61	279.94
45097	68.47	-6.17	-5.51	54.00	14.63	425.91	26.98	315.08	273.29	210.92	41.23	317.31	30.27	60.96	274.87
45098	67.29	-6.17	-5.51	65.86	19.22	447.37	26.76	299.81	268.15	245.85	32.85	344.80	30.74	67.54	268.61
45099	66.12	-6.18	-5.51	80.50	25.01	465.04	26.11	281.69	261.71	289.40	21.18	380.81	30.47	72.11	261.17
45100	64.94	-6.18	-5.51	97.62	32.18	476.53	25.25	260.49	253.50	339.14	5.59	417.53	29.14	75.53	252.73
45101	63.77	-6.18	-5.51	116.24	40.90	478.58	24.30	236.47	242.92	390.13	21.18	443.51	26.56	80.87	243.57
45102	62.59	-6.18	-5.52	134.43	51.30	466.39	23.11	210.94	229.22	436.98	57.24	445.51	23.42	91.77	233.63
45103	61.42	-6.18	-5.52	148.10	63.26	433.61	21.01	186.43	212.06	473.74	109.36	406.32	21.28	116.35	222.33
45104	60.24	-6.19	-5.52	151.71	76.26	377.29	17.79	164.95	192.32	483.86	179.39	307.18	17.38	172.35	210.31
45105	77.87	-7.25	-5.50	29.18	7.57	299.45	4.97	358.58	290.72	128.85	54.99	340.57	4.48	95.84	292.94
45106	76.72	-7.25	-5.50	27.73	6.86	304.87	8.78	357.88	288.53	130.11	54.92	336.33	8.98	85.18	291.15
45107	75.57	-7.25	-5.50	27.09	6.50	315.00	12.54	355.84	286.24	131.40	54.41	331.27	13.12	74.29	289.27
45108	74.42	-7.25	-5.50	27.41	6.66	329.28	15.92	352.40	283.84	133.34	53.38	325.59	16.83	63.80	287.24
45109	73.27	-7.25	-5.50	28.83	7.45	346.96	18.79	347.45	281.30	136.75	51.71	319.81	20.03	54.68	284.97
45110	72.12	-7.26	-5.50	31.53	8.93	367.17	21.07	340.86	278.56	142.67	49.27	314.95	22.70	48.37	282.31
45111	70.97	-7.26	-5.50	35.76	11.07	388.96	22.68	332.48	275.52	152.33	45.88	312.74	24.84	46.27	279.08
45112	69.82	-7.26	-5.50	41.81	13.87	411.28	23.62	322.13	272.06	167.15	41.31	315.64	26.51	48.61	275.05
45113	68.67	-7.26	-5.50	50.02	17.38	432.98	23.94	309.66	267.99	188.56	35.26	326.33	27.85	53.86	269.98
45114	67.52	-7.26	-5.50	60.63	21.69	452.70	23.78	294.87	263.07	217.71	27.26	346.37	29.04	59.88	263.72
45115	66.37	-7.26	-5.51	73.72	26.94	468.80	23.40	277.59	256.96	254.90	16.63	374.41	30.15	65.36	256.28
45116	65.22	-7.26	-5.51	89.07	33.31	479.10	23.17	257.70	249.19	298.97	2.85	404.82	30.91	70.75	247.98
45117	64.07	-7.26	-5.51	105.92	41.01	480.69	23.47	235.33	239.09	346.69	18.19	427.83	30.58	78.58	239.23
45118	62.92	-7.26	-5.51	122.81	50.23	469.42	24.48	211.27	225.75	393.93	46.70	430.56	28.90	92.40	229.95
45119	61.77	-7.27	-5.51	136.94	60.97	440.25	25.92	187.25	208.38	436.72	85.59	397.24	26.98	118.56	219.27
45120	60.62	-7.27	-5.51	145.26	73.32	390.36	26.59	165.33	187.05	466.38	136.05	314.05	24.86	169.93	208.57
45121	77.84	-3.95	-6.90	43.18	18.97	270.98	7.81	388.21	319.91	259.04	85.05	308.78	12.77	114.86	320.80
45122	76.63	-3.95	-6.90	42.91	18.85	277.84	14.18	388.04	317.93	269.85	88.26	303.87	19.10	100.90	319.04
45123	75.42	-3.95	-6.90	44.28	18.53	290.72	20.41	386.81	316.10	282.26	90.98	298.29	25.67	87.29	317.44
45124	74.21	-3.95	-6.90	47.20	17.97	308.83	26.13	384.45	314.39	297.21	93.07	292.44	32.00	74.92	315.95
45125	73.00	-3.95	-6.90	51.52	17.10	331.19	31.14	380.81	312.74	315.87	94.30	287.25	37.81	64.86	314.47
45126	71.78	-3.95	-6.90	57.15	15.86	356.78	35.26	375.69	311.04	339.65	94.37	284.50	42.91	58.14	312.86
45127	70.57	-3.96	-6.90	64.26	14.26	384.57	38.34	368.85	309.16	370.21	92.83	287.00	47.07	55.21	310.93
45128	69.36	-3.96	-6.90	73.24	12.45	413.48	40.23	359.92	306.87	409.30	89.04	298.22	50.05	55.67	308.41
45129	68.15	-3.96	-6.90	84.66	10.99	442.36	40.83	348.49	303.91	458.60	82.05	321.09	51.57	58.88	305.03
45130	66.94	-3.96	-6.90	99.17	11.19	469.82	40.06	334.04	299.94	519.39	70.58	356.03	51.27	65.17	300.50
45131	65.73	-3.96	-6.90	117.27	14.36	494.04	37.88	315.95	294.56	592.13	52.89	399.57	48.72	75.79	294.58
45132	64.51	-3.96	-6.90	139.13	20.49	512.54	34.23	293.64	287.31	676.05	27.34	444.12	43.52	91.16	287.09
45133	63.30	-3.96	-6.90	164.38	29.12	521.70	28.96	266.80	277.65	768.60	19.14	477.76	35.48	109.83	277.99
45134	62.09	-3.96	-6.90	191.68	40.12	516.61	21.83	235.82	265.05	863.23	70.89	482.71	25.31	130.45	267.51
45135	60.88	-3.96	-6.90	218.81	53.52	491.64	13.50	202.91	248.96	944.41	144.02	434.34	16.37	153.83	256.16
45136	59.67	-3.96	-6.90	242.44	68.98	441.70	12.62	175.65	228.72	984.89	233.79	317.72	24.35	183.02	244.93
45137	77.85	-5.05	-6.90	42.10	18.49	284.86	8.01	384.63	315.48	251.51	82.33	321.46	14.28	116.53	316.84
45138	76.66	-5.05	-6.90	41.78	18.30	291.40	13.69	384.43	313.58	261.44	85.01	316.91	20.42	103.33	315.26
45139	75.46	-5.06	-6.90	43.06	17.94	303.67	19.45	383.19	311.81	272.78	87.19	311.80	26.89	90.40	313.83
45140	74.27	-5.06	-6.90	45.80	17.37	320.94	24.80	380.82	310.15	286.42	88.75	306.48	33.24	78.45	312.50
45141	73.07	-5.06	-6.90	49.83	16.54	342.35	29.52	372.18	308.53	303.45	89.49	301.74	39.23	68.39	311.15
45142	71.88	-5.06	-6.90	55.04	15.44	366.90	33.44	377.07	306.87	325.22	89.17	299.05	44.67	61.11	309.63
45143	70.68	-5.06	-6.90	61.57	14.11	393.58	36.41	365.23	305.02	353.30	87.43	300.76	49.39	57.26	307.73
45144	69.49	-5.07	-6.91	69.81	12.75	421.30	38.32	356.35	302.78	389.43	83.78	309.79	53.20	56.87	305.17
45145	68.29	-5.07	-6.91	80.34	11.91	448.88	39.10	345.04	299.89	435.37	77.50	328.76	55.87	59.76	301.65
45146	67.09	-5.07	-6.91	93.85	12.58	474.90	38.71	330.85	295.99	492.62	67.59	358.35	57.06	66.26	296.91
45147	65.90	-5.07	-6.91	110.90	15.64	497.58	37.17	313.26	290.67	562.06	52.65	395.88	56.32	77.24	290.74
45148	64.70	-5.08	-6.91	131.76	21.19	514.53	34.49	291.73	283.48	643.59	31.02	434.76	53.06	92.80	283.11
45149	63.51	-5.08	-6.91	156.24	28.99	522.38	30.58	265.92	273.93	735.61	12.54	464.23	46.69	111.35	274.22
45150	62.31	-5.08	-6.91	183.22	38.99	516.51	25.22	236.00	261.59	832.82	53.46	468.07	37.23	131.33	264.66
45151	61.12	-5.08	-6.91	210.35	51.46	491.74	18.56	20							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
45179	66.37	-7.26	-6.90	93.54	21.38	505.32	33.21	304.91	281.05	473.53	45.96	389.85	72.37	82.32	281.24
45180	65.22	-7.26	-6.90	110.46	25.95	518.41	32.43	285.31	274.39	541.91	32.29	415.17	76.90	98.00	273.64
45181	64.07	-7.26	-6.90	130.83	31.89	523.04	31.64	262.12	265.52	623.15	16.75	434.66	80.51	117.68	265.34
45182	62.92	-7.26	-6.90	154.38	39.21	515.77	31.10	235.09	253.95	716.56	22.96	436.48	82.87	139.60	257.17
45183	61.77	-7.26	-6.90	180.70	48.02	492.90	30.83	204.68	239.30	817.76	56.88	405.01	83.03	162.37	250.97
45184	60.62	-7.27	-6.90	208.84	59.13	451.21	30.13	174.79	221.44	912.95	108.34	331.65	76.68	186.91	250.82
45185	77.84	-3.95	-8.30	59.06	30.20	290.36	10.05	399.84	332.10	376.07	108.03	321.59	21.61	144.92	332.94
45186	76.63	-3.95	-8.30	60.52	30.47	297.09	17.79	400.03	330.67	394.52	113.40	317.61	29.35	131.20	331.74
45187	75.42	-3.95	-8.30	64.61	30.69	309.78	25.56	399.54	329.57	415.51	118.27	313.31	37.80	118.23	330.89
45188	74.21	-3.95	-8.30	70.79	30.78	327.75	32.83	398.28	328.76	439.89	122.49	309.00	46.32	106.82	330.33
45189	73.00	-3.95	-8.30	78.44	30.67	350.16	39.36	396.11	328.20	468.64	125.81	305.35	54.50	97.85	330.00
45190	71.78	-3.95	-8.30	87.10	30.28	376.11	44.92	392.81	327.80	502.95	127.90	303.60	62.06	92.31	329.74
45191	70.57	-3.96	-8.30	96.59	29.53	404.65	49.29	388.14	327.39	544.21	128.27	305.69	68.65	91.23	329.36
45192	69.36	-3.96	-8.30	106.98	28.39	434.86	52.25	381.77	326.77	594.01	126.19	314.13	73.92	95.76	328.58
45193	68.15	-3.96	-8.30	118.65	26.88	465.74	53.61	373.27	325.62	654.17	120.69	331.46	77.45	107.22	327.07
45194	66.94	-3.96	-8.30	132.25	25.22	496.14	53.23	362.13	323.56	726.74	110.41	359.12	78.71	126.67	324.47
45195	65.73	-3.96	-8.30	148.76	23.98	524.66	51.01	347.60	320.14	814.05	93.59	396.29	77.04	154.03	320.45
45196	64.51	-3.96	-8.30	169.50	24.29	549.37	46.83	328.54	314.92	918.55	68.21	438.86	71.64	187.06	314.81
45197	63.30	-3.96	-8.30	196.04	27.63	567.41	40.53	303.37	307.49	1041.85	35.77	478.09	61.66	220.63	307.60
45198	62.09	-3.96	-8.30	229.98	35.16	574.56	31.80	270.19	297.43	1182.42	48.14	498.50	46.96	246.19	299.27
45199	60.88	-3.96	-8.30	272.41	47.49	564.86	20.77	228.20	284.16	1331.94	125.62	476.72	30.13	251.78	291.03
45200	59.67	-3.96	-8.30	323.62	64.78	530.37	13.84	182.23	266.56	1472.03	235.08	389.32	24.41	226.02	285.61
45201	77.85	-5.05	-8.30	57.98	29.68	304.24	10.78	396.40	327.51	365.92	104.89	334.50	25.14	146.50	328.78
45202	76.66	-5.05	-8.30	59.37	29.87	310.69	17.60	396.58	326.16	382.88	109.62	330.79	33.02	133.57	327.77
45203	75.46	-5.06	-8.30	63.32	29.97	322.86	24.78	396.10	325.12	402.14	113.84	326.87	41.70	121.37	327.11
45204	74.27	-5.06	-8.30	69.25	29.94	340.13	31.64	394.88	324.37	424.50	117.41	323.00	50.62	110.61	326.75
45205	73.07	-5.06	-8.30	76.53	29.72	361.73	37.86	392.75	323.89	450.92	120.14	319.79	59.42	102.11	326.60
45206	71.88	-5.06	-8.30	84.66	29.25	386.78	43.22	389.49	323.56	482.53	121.77	318.25	67.83	96.78	326.50
45207	70.68	-5.06	-8.30	93.43	28.48	414.38	47.50	384.84	323.27	520.72	121.90	320.02	75.56	95.62	326.26
45208	69.48	-5.07	-8.30	102.91	27.37	443.52	50.51	378.44	322.80	567.06	119.99	327.18	82.28	99.76	325.57
45209	68.29	-5.07	-8.30	113.51	25.98	473.13	52.07	369.93	321.83	623.41	115.27	341.83	87.61	110.46	324.06
45210	67.09	-5.07	-8.30	125.93	24.49	501.99	52.07	358.83	319.95	691.96	106.70	365.24	91.08	128.78	321.37
45211	65.90	-5.07	-8.30	141.17	23.40	528.65	50.46	344.50	316.68	775.37	92.91	396.82	92.08	154.81	317.18
45212	64.70	-5.07	-8.30	160.58	23.64	551.23	47.24	325.99	311.54	876.62	72.14	433.12	89.74	186.70	311.38
45213	63.51	-5.08	-8.30	185.84	26.45	567.12	42.37	301.83	304.11	998.38	43.58	466.63	82.90	219.87	304.22
45214	62.31	-5.08	-8.30	218.64	32.94	572.57	35.72	270.16	294.05	1140.62	32.87	483.76	70.34	246.34	296.59
45215	61.12	-5.08	-8.30	260.12	44.13	562.29	27.23	230.00	281.03	1296.01	95.03	463.88	52.09	254.23	290.47
45216	59.92	-5.08	-8.30	309.72	61.46	529.15	19.31	185.18	264.49	1442.24	203.05	386.31	34.53	230.63	289.69
45217	77.86	-6.15	-8.30	56.54	28.97	320.38	11.88	391.72	322.45	353.54	101.11	349.66	27.95	147.87	324.16
45218	76.69	-6.15	-8.30	57.84	29.06	326.50	17.56	391.89	321.17	368.75	105.07	346.21	35.99	135.90	323.34
45219	75.51	-6.16	-8.30	61.63	29.05	338.04	23.96	391.45	320.18	385.97	108.49	342.66	44.87	124.63	322.84
45220	74.34	-6.16	-8.30	67.28	28.90	354.48	30.23	390.28	319.46	405.94	111.28	339.22	54.12	114.70	322.62
45221	73.16	-6.16	-8.30	74.14	28.58	375.10	36.00	388.21	318.98	429.54	113.27	336.38	63.44	106.83	322.58
45222	71.99	-6.16	-8.30	81.68	28.06	399.10	41.03	385.03	318.66	457.87	114.25	334.99	72.62	101.85	322.56
45223	70.81	-6.16	-8.30	89.63	27.31	425.55	45.13	380.43	318.38	492.19	113.95	336.35	81.42	100.68	322.36
45224	69.64	-6.17	-8.30	98.06	26.33	453.43	48.11	374.06	317.94	534.05	111.95	342.10	89.62	104.38	321.65
45225	68.46	-6.17	-8.30	107.36	25.19	481.59	49.82	365.54	317.05	585.22	107.72	353.91	96.95	114.12	320.07
45226	67.29	-6.17	-8.30	118.23	24.07	508.68	50.21	354.49	315.29	647.89	100.55	372.76	103.12	130.98	317.23
45227	66.11	-6.17	-8.30	131.68	23.39	533.16	49.27	340.40	312.18	724.83	89.50	398.17	107.78	155.30	312.86
45228	64.94	-6.18	-8.30	149.06	23.83	553.23	47.12	322.48	307.20	819.45	73.39	427.35	110.33	185.83	306.96
45229	63.76	-6.18	-8.30	172.08	26.23	566.53	43.93	299.49	299.88	935.48	51.10	454.09	109.76	218.85	299.96
45230	62.59	-6.18	-8.30	202.67	31.39	569.88	39.78	269.68	289.91	1075.47	28.85	467.23	104.36	247.39	293.04
45231	61.41	-6.18	-8.30	242.57	40.28	558.87	34.60	231.84	277.06	1237.18	57.98	449.64	90.99	260.69	288.63
45232	60.24	-6.18	-8.30	292.18	54.90	527.51	28.34	188.44	261.08	1405.74	142.69	384.05	65.85	245.83	290.85
45233	77.87	-7.25	-8.30	54.75	28.08	338.55	13.23	385.66	317.40	339.10	96.78	366.89	30.02	148.75	319.51
45234	76.72	-7.25	-8.30	55.94	28.06	344.25	17.71	385.83	316.20	352.39	99.87	363.68	38.16	137.86	318.84
45235	75.57	-7.25	-8.30	59.53	27.95	355.05	23.17	385.41	315.23	367.36	102.41	360.43	47.13	127.66	318.45
45236	74.42	-7.25	-8.30	64.88	27.72	370.49	28.71	384.30	314.49	384.67	104.30	357.32	56.55	118.69	318.28
45237	73.27	-7.25	-8.30	71.30	27.35	389.93	33.88	382.33	313.94	405.13	105.43	354.74	66.20	111.61	318.24
45238	72.12	-7.26	-8.30	78.21	26.86	412.62	38.46	379.26	313.52	429.71	105.62	353.34	75.92	107.12	318.18
45239	70.97	-7.26	-8.30	85.32	26.23	437.67	42.25	374.76	313.12	459.57	104.67	354.12	85.57	106.04	317.87
45240	69.82	-7.26	-8.30	92.62	25.52	464.05	45.09	368.48	312.57	496.07	102.31	358.33	95.03	109.29	317.02
45241	68.67	-7.26	-8.30	100.47	24.83	490.51	46.88	360.03	311.61	540.83	98.20	367.19	104.20	117.93	315.25
45242	67.52	-7.26	-8.30	109.53	24.34	515.59	47.59	349.06	309.86	595.82	91.86	381.39	113.02	133.02	312.21
45243	66.37	-7.26	-8.30	120.75	24.37	537.66	47.28	335.22	306.86	663.56	82.77	400.46	121.57	155.19	307.69
45244	65.22	-7.26	-8.30	135.38	25.34	554.91	46.20	317.93	302.11	747.55	70.43	422.14	129.83	183.88	301.80
45245	64.07	-7.26	-8.30	155.02	27.68	565.26	44.69	296.17	295.12	851.91	54.19	441.56	137.40	216.54	295.15
45246	62.92	-7.26	-8.30	181.67	31.78	566.12	43.22	268.45	285.50	981.04	35.43	450.08	143.61	247.73	289.14
45247	61.77	-7.26	-8.30	217.72	38.08	554.09	42.15	233.44	273.03	1138.60	33.52	434.65	145.83	268.64	286.54
45248	60.62	-7.27	-8.30	265.58	47.92	524.54	41.05	192.16	257.51	1323.9					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
45277	58.34	-6.18	-4.12	73.58	117.78	165.77	24.59	113.81	137.62	159.88	311.74	113.98	16.77	402.14	137.20
45278	59.22	-6.19	-4.12	92.53	109.72	234.57	21.31	132.12	148.86	63.01	261.69	235.79	39.12	278.23	154.78
45279	55.43	-5.07	-4.10	10.57	106.77	114.47	37.24	36.50	141.10	21.93	556.36	650.55	144.56	238.04	503.26
45280	56.30	-5.08	-4.11	48.02	113.99	113.57	65.19	67.76	151.03	50.35	449.53	407.96	124.04	402.07	289.89
45281	57.16	-5.08	-4.11	54.29	113.12	127.73	54.59	92.31	147.71	118.91	369.44	231.28	92.78	435.78	181.90
45282	58.03	-5.08	-4.12	63.10	109.87	165.78	32.69	114.50	153.14	145.49	309.75	119.29	47.42	416.13	167.93
45283	58.90	-5.09	-4.12	84.89	106.06	227.91	16.93	133.00	162.49	49.70	264.44	254.76	6.92	301.70	177.33
45284	55.21	-3.96	-4.10	128.67	154.05	170.82	90.23	137.53	170.25	108.78	435.82	919.57	126.96	856.67	1124.68
45285	56.07	-3.96	-4.10	93.08	114.14	167.10	50.50	138.98	133.57	87.83	358.03	593.23	86.50	686.19	427.94
45286	56.92	-3.96	-4.11	74.53	111.39	177.62	36.05	134.34	127.96	110.52	321.11	338.88	66.71	561.02	222.70
45287	57.78	-3.96	-4.11	70.93	105.71	206.07	24.22	139.36	137.61	118.18	269.79	162.91	36.81	478.98	171.14
45288	58.63	-3.97	-4.11	83.74	99.94	252.88	14.63	147.88	153.82	39.35	229.93	253.73	10.93	352.47	175.41
45289	56.03	-7.26	-5.50	128.21	138.70	137.03	90.57	97.68	177.29	203.17	364.61	850.15	90.88	686.17	695.36
45290	56.92	-7.26	-5.50	116.65	133.16	162.73	40.30	128.90	127.53	276.86	408.12	689.65	43.47	681.61	127.09
45291	57.81	-7.26	-5.50	129.71	119.99	210.64	17.68	144.08	130.67	363.54	338.13	478.77	18.33	499.00	182.18
45292	58.70	-7.26	-5.51	142.25	101.12	271.37	20.47	147.82	146.55	434.93	257.37	290.53	12.29	346.98	199.77
45293	59.60	-7.27	-5.51	147.09	86.86	331.29	25.08	152.32	165.52	462.21	193.76	235.89	20.11	244.39	201.36
45294	55.70	-6.17	-5.50	17.54	95.59	144.17	32.74	30.81	122.77	42.28	384.40	718.40	113.81	185.54	131.72
45295	56.58	-6.18	-5.51	43.37	118.56	150.41	54.44	71.54	141.52	113.81	456.85	597.84	97.80	483.83	144.45
45296	57.46	-6.18	-5.51	90.68	115.89	188.43	41.02	119.63	148.82	245.49	418.80	427.75	57.78	461.54	159.12
45297	58.34	-6.18	-5.51	125.62	103.08	249.22	24.78	140.50	159.96	372.05	338.52	257.07	23.82	350.52	185.37
45298	59.22	-6.19	-5.52	144.62	89.86	312.42	17.05	151.06	174.17	441.99	257.22	209.55	12.26	252.73	198.55
45299	55.43	-5.07	-5.50	13.18	103.71	146.61	34.85	31.50	125.48	41.76	456.45	726.64	138.04	266.47	436.41
45300	56.30	-5.08	-5.51	51.59	111.92	151.02	64.60	74.59	144.10	152.27	465.31	589.97	192.19	455.38	266.42
45301	57.16	-5.08	-5.51	88.49	106.32	183.98	52.27	118.56	153.80	248.94	415.38	412.49	136.21	446.95	192.84
45302	58.03	-5.08	-5.51	121.25	97.92	241.36	34.17	140.89	165.98	359.63	356.26	214.70	72.74	357.28	192.21
45303	58.89	-5.09	-5.52	142.82	88.37	303.22	18.99	152.40	180.23	434.12	285.67	197.00	28.94	265.55	201.56
45304	55.21	-3.96	-5.50	155.46	163.89	131.62	109.81	131.42	166.39	341.02	581.91	905.11	299.84	799.01	997.75
45305	56.07	-3.96	-5.50	130.80	104.57	155.15	68.97	135.23	135.56	331.19	388.23	675.90	206.80	646.09	362.25
45306	56.92	-3.96	-5.50	127.49	100.56	191.56	45.16	146.85	142.30	346.52	355.84	455.43	142.51	510.39	215.26
45307	57.78	-3.96	-5.51	137.19	96.28	245.78	29.26	154.05	158.49	403.13	323.65	257.34	84.83	388.81	189.24
45308	58.63	-3.96	-5.51	148.87	89.17	304.56	17.35	159.01	176.86	455.51	277.05	196.08	40.68	287.73	195.33
45309	56.03	-7.26	-6.90	136.54	129.00	142.30	88.81	95.41	180.59	425.60	439.66	899.11	169.82	647.84	540.42
45310	56.92	-7.26	-6.90	213.42	145.90	168.58	41.80	127.09	147.90	689.92	540.42	847.63	111.41	551.53	169.19
45311	57.81	-7.26	-6.90	247.89	117.53	255.83	16.97	171.11	164.98	886.35	401.79	605.57	44.55	364.57	266.71
45312	58.70	-7.26	-6.90	249.08	90.46	334.05	20.71	158.32	184.99	973.02	267.86	369.88	22.91	264.21	272.99
45313	59.60	-7.27	-6.90	233.54	72.58	397.40	27.18	157.69	203.18	974.46	176.80	278.74	57.41	215.75	259.42
45314	55.70	-6.17	-6.90	36.40	86.76	158.37	39.78	29.24	124.18	35.80	351.10	666.97	130.47	194.70	157.79
45315	56.58	-6.18	-6.90	111.57	132.13	148.88	54.43	139.03	152.78	308.31	553.25	761.05	108.08	372.12	157.39
45316	57.46	-6.18	-6.91	200.53	125.06	236.25	40.62	167.60	171.31	650.13	509.42	599.01	55.81	319.70	220.26
45317	58.34	-6.18	-6.91	235.78	101.47	319.52	25.02	163.14	189.36	864.19	381.91	372.49	28.16	252.09	248.43
45318	59.21	-6.19	-6.91	239.28	80.85	388.10	18.66	161.22	206.34	956.13	265.99	263.92	24.62	209.23	251.01
45319	55.43	-5.07	-6.90	34.08	102.79	152.26	36.73	24.64	127.60	40.03	431.10	670.24	150.72	251.50	393.29
45320	56.30	-5.08	-6.90	125.83	124.66	139.47	87.15	140.45	146.33	350.53	524.34	748.06	304.52	343.91	272.39
45321	57.16	-5.08	-6.91	203.26	114.54	226.16	64.08	169.81	169.67	630.10	486.60	591.71	200.58	302.39	236.71
45322	58.03	-5.08	-6.91	236.86	100.09	310.47	39.79	167.15	190.77	829.73	409.32	368.07	100.74	248.40	241.53
45323	58.89	-5.08	-6.91	244.09	83.93	381.25	23.11	164.02	208.91	940.49	314.64	251.09	45.33	209.26	245.43
45324	55.21	-3.96	-6.90	204.62	193.82	108.63	162.97	124.96	176.10	648.58	710.54	956.99	520.73	711.45	870.52
45325	56.07	-3.96	-6.90	247.78	104.49	140.50	103.62	179.18	139.32	729.15	401.11	828.23	369.73	506.84	333.54
45326	56.92	-3.96	-6.90	259.69	98.02	224.96	64.04	184.55	161.35	811.98	388.57	615.31	231.84	351.22	242.04
45327	57.78	-3.96	-6.90	262.32	91.91	307.81	40.66	174.34	186.54	904.11	364.85	372.30	127.49	265.73	231.26
45328	58.63	-3.96	-6.90	257.22	82.50	378.35	24.75	167.50	207.83	969.54	313.34	244.13	61.23	218.14	236.04
45329	56.03	-7.26	-8.30	443.15	165.13	69.55	68.21	252.40	153.04	1144.59	655.75	1138.76	127.38	399.09	381.06
45330	56.92	-7.26	-8.30	463.69	164.66	216.39	40.51	225.05	175.24	1552.14	699.42	1020.42	127.72	275.99	237.63
45331	57.81	-7.26	-8.30	427.38	120.07	334.86	27.13	168.61	202.57	1692.72	463.19	627.20	52.85	204.05	330.11
45332	58.70	-7.26	-8.30	373.48	83.47	420.57	32.97	145.25	223.98	1640.08	270.99	365.34	53.13	209.41	325.84
45333	59.59	-7.26	-8.30	319.18	61.97	480.26	38.53	157.83	241.14	1502.74	154.68	323.20	106.88	243.00	306.51
45334	55.70	-6.17	-8.30	368.76	133.81	78.37	81.01	263.40	116.14	568.20	461.33	826.82	267.37	289.02	116.33
45335	56.58	-6.18	-8.30	410.62	149.75	191.73	71.42	243.92	173.89	1071.69	713.70	951.11	126.83	256.92	227.56
45336	57.46	-6.18	-8.30	411.28	132.63	320.09	45.79	187.62	205.46	1434.61	610.48	641.29	45.82	186.55	304.88
45337	58.33	-6.18	-8.30	382.54	100.89	413.94	27.46	154.19	227.22	1558.93	419.02	371.47	27.08	166.58	312.56
45338	59.21	-6.18	-8.30	341.68	74.87	479.25	23.71	157.07	244.48	1529.56	263.14	313.92	34.96	204.43	301.06
45339	55.43	-5.07	-8.30	373.43	149.35	92.27	78.53	276.24	116.82	546.72	486.91	870.70	300.08	282.95	228.16
45340	56.30	-5.07	-8.30	429.28	145.42	175.25	95.61	249.95	159.69	1071.71	654.11	949.97	360.59	271.04	335.20
45341	57.16	-5.08	-8.30	423.99	125.84	309.62	67.33	195.09	201.28	1390.51	594.41	644.82	194.80	201.04	327.27
45342	58.03	-5.08	-8.30	394.65	103.96	408.38	40.29	159.10	227.73	1522.75	468.39	369.65	81.66	157.03	310.85
45343	58.89	-5.08	-8.30	356.82	82.09	477.58	23.12	156.49	246.89	1528.93	332.76	305.19	37.29	184.02	297.23
45344	55.21	-3.96	-8.30	517.57	221.00	70.47	165.18	280.05	144.79	1188.38	716.81	1255.13	688.17	483.30	603.77
45345	56.07	-3.96	-8.30	512.33	132.82	171.78	105.37	243.84	145.88	1474.10	498.17	1050.40	456.11	261.61	369.66
45															



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
45375	84.56	-8.70	-2.70	45.31	26.99	324.12	18.37	287.21	260.32	54.20	32.92	325.61	23.94	82.97	260.51
45376	83.45	-8.70	-2.70	42.83	23.91	310.70	15.03	295.80	259.40	50.25	30.80	330.14	22.17	83.23	259.92
45377	82.34	-8.70	-2.70	40.71	21.13	298.96	12.09	302.65	258.07	47.89	28.79	333.46	21.20	82.41	258.89
45378	81.23	-8.70	-2.70	38.91	18.71	289.56	9.76	307.77	256.35	47.36	26.85	335.57	21.16	80.44	257.46
45379	80.12	-8.70	-2.70	37.48	16.73	283.04	8.37	311.21	254.31	48.97	25.00	336.47	22.14	77.32	255.67
45380	79.01	-8.70	-2.70	36.43	15.31	279.80	8.22	312.98	251.99	53.08	23.25	336.12	24.08	73.08	253.57
45381	95.95	-8.10	-4.10	88.14	79.16	374.43	73.33	155.16	201.10	111.92	34.35	311.11	73.45	110.15	203.06
45382	94.82	-8.10	-4.10	83.97	68.81	430.64	65.63	161.39	228.53	111.25	41.31	319.06	65.58	79.56	227.95
45383	93.69	-8.10	-4.10	75.10	58.61	445.89	56.79	176.47	246.20	100.95	42.59	305.85	56.86	74.60	244.70
45384	92.56	-8.10	-4.10	67.53	50.61	446.05	49.68	196.29	257.32	87.39	42.36	300.22	50.35	77.01	255.67
45385	91.43	-8.10	-4.10	61.30	44.22	439.78	44.03	216.81	264.96	73.93	41.91	302.71	45.38	81.83	263.47
45386	90.30	-8.10	-4.10	56.08	38.85	429.07	39.31	236.58	270.37	61.98	41.42	309.18	41.25	87.67	269.19
45387	89.18	-8.10	-4.10	51.71	34.18	415.16	35.10	254.91	274.19	52.46	41.00	316.92	37.50	93.54	273.35
45388	88.05	-8.10	-4.10	48.04	30.06	399.00	31.12	271.43	276.75	45.95	40.63	324.42	33.90	98.68	276.25
45389	86.92	-8.10	-4.10	44.93	26.36	381.51	27.24	285.99	278.29	42.56	40.26	330.95	30.34	102.62	278.11
45390	85.79	-8.10	-4.10	42.27	22.98	363.58	23.36	298.57	278.98	41.72	39.87	336.23	26.78	105.08	279.10
45391	84.66	-8.10	-4.10	39.91	19.86	346.06	19.46	309.16	278.97	42.35	39.44	340.22	23.27	105.92	279.39
45392	83.53	-8.10	-4.10	37.73	16.95	329.80	15.55	317.85	278.38	43.32	38.95	342.97	19.90	105.11	279.09
45393	82.40	-8.10	-4.10	35.65	14.23	315.61	11.67	324.72	277.31	43.82	38.36	344.59	16.84	102.69	278.30
45394	81.27	-8.10	-4.10	33.64	11.69	304.25	7.91	329.88	275.84	43.33	37.66	345.12	14.35	98.75	277.12
45395	80.14	-8.10	-4.10	31.73	9.36	296.37	4.47	333.39	274.04	41.57	36.82	344.60	12.80	93.42	275.62
45396	79.01	-8.10	-4.10	29.99	7.35	292.46	2.58	335.33	271.96	38.47	35.81	343.02	12.49	86.82	273.85
45397	95.68	-8.70	-4.10	93.20	80.21	375.04	70.87	157.29	199.65	116.61	34.83	308.57	70.83	108.39	201.83
45398	94.56	-8.70	-4.10	88.91	70.45	430.94	63.21	164.02	225.21	115.18	41.18	320.08	63.08	81.14	224.59
45399	93.45	-8.70	-4.10	79.78	60.15	446.59	54.76	178.55	241.90	104.50	42.29	310.44	54.81	76.97	240.24
45400	92.34	-8.70	-4.10	71.92	52.07	447.08	47.78	197.61	252.53	90.94	42.08	306.80	48.54	79.09	250.67
45401	91.23	-8.70	-4.10	65.43	45.66	441.30	42.32	217.20	259.86	77.65	41.67	310.31	43.85	83.11	258.17
45402	90.12	-8.70	-4.10	59.98	40.20	431.28	37.68	236.16	265.08	65.89	41.18	317.30	39.88	88.12	263.71
45403	89.01	-8.70	-4.10	55.36	35.45	418.23	33.56	253.77	268.83	56.38	40.76	325.34	36.29	93.28	267.83
45404	87.90	-8.70	-4.10	51.33	31.27	403.04	29.68	269.68	271.37	49.49	40.36	333.04	32.86	97.82	270.77
45405	86.79	-8.70	-4.10	47.89	27.46	386.60	25.89	283.77	272.94	45.40	39.93	339.74	29.46	101.39	272.70
45406	85.67	-8.70	-4.10	44.90	23.96	369.76	22.13	295.96	273.71	43.67	39.46	345.18	26.08	103.64	273.82
45407	84.56	-8.70	-4.10	42.22	20.71	353.34	18.39	306.24	273.82	43.40	38.92	349.33	22.79	104.43	274.26
45408	83.45	-8.70	-4.10	39.75	17.67	338.13	14.68	314.69	273.35	43.65	38.31	352.24	19.68	103.70	274.11
45409	82.34	-8.70	-4.10	37.41	14.81	324.92	11.02	321.37	272.42	43.62	37.59	354.02	16.91	101.48	273.49
45410	81.23	-8.70	-4.10	35.18	12.14	314.37	7.54	326.37	271.08	42.81	36.74	354.72	14.73	97.85	272.47
45411	80.12	-8.70	-4.10	33.08	9.71	307.09	4.50	329.77	269.41	40.92	35.76	354.39	13.44	92.93	271.11
45412	79.01	-8.70	-4.10	31.17	7.65	303.51	3.11	331.63	267.45	37.85	34.61	353.03	13.26	86.84	269.47
45413	95.95	-8.10	-5.50	68.45	64.33	395.53	52.62	163.22	221.30	63.22	17.08	282.95	52.46	94.25	223.55
45414	94.82	-8.10	-5.50	72.12	57.58	448.46	51.83	183.47	241.33	67.51	21.53	302.92	51.73	75.09	242.16
45415	93.69	-8.10	-5.50	68.34	50.34	475.38	49.74	202.02	257.39	66.11	27.56	312.95	49.41	77.56	257.15
45416	92.56	-8.10	-5.50	62.37	43.68	482.64	46.87	221.95	269.38	62.53	32.60	320.35	46.81	90.23	268.71
45417	91.43	-8.10	-5.50	57.11	37.97	478.43	43.94	242.19	278.03	60.54	36.43	328.57	44.35	103.08	277.34
45418	90.30	-8.10	-5.50	53.10	33.11	467.33	41.00	261.44	284.21	61.97	39.45	337.08	41.81	113.90	283.65
45419	89.18	-8.10	-5.50	50.26	28.94	451.78	37.90	279.07	288.51	66.93	41.97	344.83	38.96	122.45	288.16
45420	88.05	-8.10	-5.50	48.20	25.36	433.42	34.57	294.74	291.35	74.28	44.11	351.26	35.73	128.66	291.22
45421	86.92	-8.10	-5.50	46.56	22.24	413.53	30.97	308.35	293.02	82.72	45.96	356.15	32.10	132.56	293.12
45422	85.79	-8.10	-5.50	45.00	19.49	393.26	27.09	319.92	293.78	91.22	47.56	359.58	28.10	134.24	294.10
45423	84.66	-8.10	-5.50	43.28	17.04	373.61	22.99	329.53	293.82	99.12	48.95	361.71	23.79	133.79	294.36
45424	83.53	-8.10	-5.50	41.26	14.85	355.52	18.71	337.31	293.28	106.02	50.13	362.73	19.26	131.38	294.08
45425	82.40	-8.10	-5.50	38.93	12.87	339.87	14.33	343.41	292.31	111.73	51.11	362.79	14.59	127.19	293.37
45426	81.27	-8.10	-5.50	36.37	11.09	327.41	9.97	347.98	290.99	116.19	51.86	362.02	9.85	121.44	292.36
45427	80.14	-8.10	-5.50	33.73	9.49	318.82	5.86	351.14	289.41	119.46	52.36	360.46	5.13	114.33	291.11
45428	79.01	-8.10	-5.50	31.21	8.11	314.57	3.08	352.97	287.62	121.69	52.59	358.14	0.81	106.08	289.71
45429	95.68	-8.70	-5.50	71.81	64.29	395.57	51.62	165.46	219.39	67.36	17.11	283.82	51.40	93.11	221.85
45430	94.56	-8.70	-5.50	75.58	58.37	447.55	50.15	185.17	238.25	71.70	21.21	305.94	50.07	76.34	239.20
45431	93.45	-8.70	-5.50	72.17	51.60	474.81	47.85	202.96	253.32	70.31	27.11	318.40	47.57	78.78	253.08
45432	92.34	-8.70	-5.50	66.34	45.14	482.88	44.87	222.13	264.70	66.50	32.25	327.50	44.92	90.60	263.97
45433	91.23	-8.70	-5.50	60.89	39.53	479.63	42.00	241.45	272.98	63.83	36.16	336.69	42.60	102.42	272.21
45434	90.12	-8.70	-5.50	56.54	34.71	469.59	39.06	259.99	278.97	64.23	39.26	345.76	40.11	112.55	278.34
45435	89.01	-8.70	-5.50	53.22	30.49	455.17	36.03	277.03	283.26	67.98	41.84	353.89	37.37	120.65	282.84
45436	87.90	-8.70	-5.50	50.59	26.84	437.96	32.82	292.22	286.15	74.15	44.00	360.59	34.27	126.53	285.98
45437	86.79	-8.70	-5.50	48.42	23.58	419.25	29.33	305.47	287.93	81.62	45.77	365.72	30.75	130.30	288.02
45438	85.67	-8.70	-5.50	46.42	20.64	400.14	25.60	316.75	288.84	89.35	47.26	369.36	26.90	131.99	289.18
45439	84.56	-8.70	-5.50	44.34	17.98	381.63	21.69	326.13	289.05	96.64	48.49	371.68	22.77	131.67	289.64
45440	83.45	-8.70	-5.50	42.05	15.56	364.62	17.63	333.73	288.69	103.06	49.49	372.87	18.44	129.49	289.56
45441	82.34	-8.70	-5.50	39.52	13.34	349.93	13.50	339.69	287.89	108.37	50.26	373.11	13.98	125.63	289.05
45442	81.23	-8.70	-5.50	36.82	11.30	338.29	9.40	344.15	286.73	112.52	50.78	372.51	9.48	120.29	288.22
45443	80.12	-8.70	-5.50	34.07	9.48	330.27	5.55	347.22	285.30	115.54	51.05	371.13	5.03	113.69	287.13
45444	79.01	-8.70	-5.50	31.49	7.91	326.34	2.97	348.98	283.64	117.54	51.03	369.01	1.09	106.05	285.87
45445	95.95	-8.10	-6.90	58.43	55.58	438.93	45.54	179.70	247.82	59.42	29.52	284.67	46.27	80.52</	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
45473	82.34	-8.70	-6.90	49.77	18.52	372.63	18.65	356.47	303.43	189.31	64.28	389.88	15.59	153.83	304.50
45474	81.23	-8.70	-6.90	46.09	17.78	360.06	14.21	359.95	302.22	196.71	66.27	388.17	11.53	146.93	303.61
45475	80.12	-8.70	-6.90	42.50	17.17	351.45	10.46	362.39	300.85	203.36	67.93	386.01	9.93	138.94	302.60
45476	79.01	-8.70	-6.90	39.48	16.66	347.21	8.44	363.89	299.39	209.50	69.24	383.42	12.09	130.16	301.57
45477	95.95	-8.10	-8.30	48.12	45.97	496.17	48.36	207.68	278.12	79.58	37.82	306.01	50.44	86.99	279.24
45478	94.82	-8.10	-8.30	52.84	40.04	532.27	53.36	241.80	292.28	106.23	34.41	332.72	53.58	106.44	293.39
45479	93.69	-8.10	-8.30	59.71	35.58	550.78	56.83	269.23	303.87	131.06	33.95	354.89	55.57	131.50	304.69
45480	92.56	-8.10	-8.30	67.31	32.36	555.23	58.66	291.08	312.75	152.98	36.07	371.82	56.48	154.88	313.27
45481	91.43	-8.10	-8.30	74.21	30.15	548.93	58.95	308.87	318.99	172.29	39.88	384.03	56.33	173.80	319.33
45482	90.30	-8.10	-8.30	79.65	28.77	534.74	57.86	323.79	322.94	189.83	44.65	392.24	55.02	187.88	323.18
45483	89.18	-8.10	-8.30	83.38	27.96	515.12	55.53	336.47	325.04	206.30	49.83	397.18	52.55	197.58	325.24
45484	88.05	-8.10	-8.30	85.31	27.53	492.16	52.15	347.05	325.73	221.91	55.12	399.53	49.02	203.27	325.93
45485	86.92	-8.10	-8.30	85.33	27.32	467.67	47.86	355.61	325.42	236.59	60.35	399.97	44.54	205.36	325.65
45486	85.79	-8.10	-8.30	83.49	27.23	443.23	42.86	362.34	324.46	250.22	65.43	399.12	39.32	204.32	324.75
45487	84.66	-8.10	-8.30	79.96	27.22	420.10	37.33	367.52	323.11	262.79	70.30	397.45	33.64	200.66	323.51
45488	83.53	-8.10	-8.30	75.08	27.25	399.30	31.51	371.46	321.54	274.38	74.92	395.29	27.92	194.88	322.10
45489	82.40	-8.10	-8.30	69.40	27.30	381.64	25.62	374.43	319.88	285.21	79.26	392.84	22.87	187.44	320.65
45490	81.27	-8.10	-8.30	63.56	27.35	367.81	20.06	376.67	318.22	295.54	83.28	390.22	19.78	178.78	319.27
45491	80.14	-8.10	-8.30	58.36	27.38	358.34	15.51	378.31	316.63	305.68	86.96	387.46	20.23	169.25	318.03
45492	79.01	-8.10	-8.30	54.65	27.38	353.66	13.24	379.44	315.15	315.97	90.26	384.61	24.45	159.21	316.98
45493	95.68	-8.70	-8.30	50.73	46.36	494.58	48.50	209.61	274.81	82.84	38.19	311.81	50.89	89.32	275.99
45494	94.56	-8.70	-8.30	55.47	40.87	529.88	52.96	241.47	288.43	107.97	35.11	339.23	53.32	107.09	289.61
45495	93.45	-8.70	-8.30	61.71	36.71	548.92	55.98	267.30	299.61	131.33	34.89	362.08	54.68	130.09	300.48
45496	92.34	-8.70	-8.30	68.43	33.60	554.67	57.44	288.49	308.25	152.24	37.14	379.74	55.08	152.39	308.81
45497	91.23	-8.70	-8.30	74.32	31.32	549.93	57.50	305.74	314.34	170.56	40.98	392.65	54.60	170.42	314.72
45498	90.12	-8.70	-8.30	79.04	29.80	537.30	56.19	320.44	318.31	187.32	45.73	401.45	52.99	184.19	318.58
45499	89.01	-8.70	-8.30	82.37	28.79	519.11	53.78	333.02	320.61	203.25	50.85	406.86	50.38	193.87	320.84
45500	87.90	-8.70	-8.30	84.05	28.15	497.43	50.44	343.46	321.55	218.40	56.01	409.57	46.82	199.56	321.79
45501	86.79	-8.70	-8.30	83.97	27.74	474.13	46.27	351.88	321.54	232.62	61.00	410.29	42.38	201.77	321.82
45502	85.67	-8.70	-8.30	82.09	27.48	450.81	41.49	358.45	320.90	245.76	65.78	409.65	37.30	200.90	321.24
45503	84.56	-8.70	-8.30	78.56	27.31	428.74	36.27	363.47	319.84	257.80	70.30	408.16	31.85	197.47	320.30
45504	83.45	-8.70	-8.30	73.72	27.21	408.91	30.81	367.26	318.54	268.83	74.52	406.15	26.45	192.00	319.16
45505	82.34	-8.70	-8.30	68.09	27.14	392.11	25.35	370.12	317.11	279.04	78.44	403.83	21.87	184.97	317.96
45506	81.23	-8.70	-8.30	62.31	27.08	378.98	20.26	372.25	315.64	288.69	82.02	401.32	19.42	176.77	316.78
45507	80.12	-8.70	-8.30	57.16	27.03	370.00	16.18	373.82	314.19	298.08	85.23	398.67	20.50	167.79	315.69
45508	79.01	-8.70	-8.30	53.47	26.95	365.56	14.15	374.89	312.83	307.51	88.05	395.92	25.05	158.36	314.77
45509	100.59	-8.10	-2.70	25.10	113.23	11.76	44.71	14.80	25.42	17.41	45.55	13.35	19.58	15.37	31.86
45510	99.68	-8.10	-2.70	48.78	110.64	18.23	53.43	17.75	31.86	61.13	36.34	26.46	36.43	30.15	31.92
45511	98.78	-8.10	-2.70	73.01	109.72	33.01	70.34	22.82	41.86	124.85	22.52	39.55	60.23	55.14	42.37
45512	97.87	-8.10	-2.70	104.34	114.24	64.11	102.25	59.96	65.61	216.11	43.02	71.13	96.20	102.27	70.87
45513	96.97	-8.10	-2.70	177.92	147.57	230.25	159.15	169.42	150.55	357.14	128.16	264.75	156.64	223.69	159.92
45514	100.36	-8.70	-2.70	28.79	112.96	11.80	47.84	15.80	25.28	19.36	44.63	13.19	21.18	17.12	32.32
45515	99.44	-8.70	-2.70	52.88	109.49	18.34	56.20	18.54	31.68	64.48	34.91	26.06	37.76	30.84	31.71
45516	98.52	-8.70	-2.70	77.88	108.67	33.25	71.68	23.74	41.61	128.52	21.95	38.99	60.29	54.31	42.16
45517	97.61	-8.70	-2.70	110.17	114.77	64.88	101.41	60.64	65.96	218.34	46.25	70.45	94.37	99.16	71.59
45518	96.69	-8.70	-2.70	183.90	154.40	231.56	154.06	168.75	152.60	355.22	134.79	259.14	150.99	214.92	162.31
45519	100.59	-8.10	-4.10	19.24	110.35	41.56	43.59	32.33	80.23	15.37	49.87	70.88	25.58	49.55	86.78
45520	99.68	-8.10	-4.10	31.05	101.38	67.17	52.77	41.37	92.56	49.67	33.29	97.70	39.19	83.50	92.60
45521	98.78	-8.10	-4.10	46.84	92.40	112.29	65.63	65.90	112.19	86.52	13.96	127.05	55.62	120.38	113.32
45522	97.87	-8.10	-4.10	64.42	85.00	189.85	77.33	112.42	142.78	112.99	12.04	191.46	70.44	157.62	147.93
45523	96.97	-8.10	-4.10	73.78	82.40	284.43	73.00	142.41	172.31	98.29	19.84	263.11	70.41	147.53	177.20
45524	100.36	-8.70	-4.10	22.56	109.81	41.28	46.60	35.16	79.91	16.72	50.11	69.62	27.17	52.67	87.11
45525	99.44	-8.70	-4.10	34.16	99.99	67.63	55.60	43.74	92.37	50.60	32.60	96.03	40.68	83.98	92.37
45526	98.52	-8.70	-4.10	49.99	90.75	113.21	67.76	67.86	111.95	87.21	12.66	125.28	56.53	118.20	113.21
45527	97.61	-8.70	-4.10	68.05	83.87	191.03	78.13	113.73	142.92	114.01	13.24	188.79	70.26	152.59	148.53
45528	96.69	-8.70	-4.10	78.67	82.15	285.64	72.12	143.81	172.24	102.64	20.75	259.59	68.99	142.41	177.54
45529	100.59	-8.10	-5.50	18.10	104.30	86.58	40.09	48.96	129.36	11.71	55.23	172.94	25.32	69.03	134.05
45530	99.68	-8.10	-5.50	27.02	94.60	128.61	44.06	63.54	142.70	27.05	43.68	180.52	33.75	104.65	142.60
45531	98.78	-8.10	-5.50	36.99	85.06	190.96	48.60	86.66	160.13	40.56	32.24	198.71	41.81	126.33	160.49
45532	97.87	-8.10	-5.50	48.90	77.64	260.07	50.87	113.39	179.44	48.25	23.71	225.38	47.06	128.92	181.51
45533	96.97	-8.10	-5.50	59.79	70.65	328.92	53.12	139.37	199.79	57.32	17.25	255.16	51.63	117.12	202.68
45534	100.36	-8.70	-5.50	21.14	103.69	86.44	42.95	53.15	128.45	13.52	56.07	169.35	27.23	72.94	133.62
45535	99.44	-8.70	-5.50	29.98	93.54	129.67	46.65	66.91	142.17	28.61	43.96	177.24	35.56	105.29	142.02
45536	98.52	-8.70	-5.50	40.17	83.84	192.34	50.57	89.65	159.36	42.56	32.36	196.05	43.15	124.63	159.75
45537	97.61	-8.70	-5.50	52.34	76.59	261.39	51.88	116.20	178.54	51.41	23.79	223.64	47.66	126.00	180.81
45538	96.69	-8.70	-5.50	63.39	69.97	329.98	53.04	142.08	198.63	61.16	17.31	254.55	51.37	114.06	201.78
45539	100.59	-8.10	-6.90	17.73	93.84	143.67	35.33	63.47	169.97	11.08	58.92	283.10	24.78	76.93	173.07
45540	99.68	-8.10	-6.90	28.29	85.55	189.34	36.37	78.24	183.41	19.99	52.55	251.58	30.35	103.45	182.91
45541	98.78	-8.10	-6.90	38.43	77.31	254.08	37.92	98.39	198.58	28.67	45.72	240.57	35.62	113.40	198.10
45542	97.87	-8.10	-6.90	46.96	69.42	321.12	40.25	123.52	214.67	37.45	39.07	246.30	40.29	108.89	215.37
45543	96.97	-8.10	-6.90	53.88	62.55	382.62	42.62	150.72	230.80	47.47	33.7				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
45571	64.34	-8.10	-2.70	79.51	64.20	405.36	27.85	205.37	203.95	277.57	57.11	426.69	81.32	111.34	211.40
45572	63.21	-8.10	-2.70	85.07	78.19	403.04	33.10	190.91	193.62	320.32	74.43	468.83	87.32	106.87	224.46
45573	62.08	-8.10	-2.70	94.93	99.09	391.96	44.22	177.62	175.22	411.58	104.33	476.97	111.94	147.96	242.42
45574	60.95	-8.10	-2.70	112.95	123.52	358.44	64.20	165.46	130.16	571.44	171.68	429.64	158.45	238.76	197.06
45575	77.89	-8.70	-2.70	35.82	14.61	280.07	9.18	313.10	249.42	59.90	21.62	334.45	26.90	67.73	251.19
45576	76.78	-8.70	-2.70	35.79	14.76	283.82	10.78	311.58	246.61	69.49	20.18	331.35	30.48	61.50	248.52
45577	75.67	-8.70	-2.70	36.40	15.76	290.82	12.61	308.42	243.62	81.73	19.03	326.75	34.74	54.62	245.60
45578	74.56	-8.70	-2.70	37.75	17.53	300.64	14.46	303.63	240.45	96.42	18.29	320.59	39.64	47.65	242.41
45579	73.45	-8.70	-2.70	39.87	19.97	312.71	16.21	297.21	237.13	113.30	18.13	312.94	45.16	41.80	238.95
45580	72.34	-8.70	-2.70	42.80	22.97	326.39	17.85	289.19	233.66	132.03	18.71	304.18	51.26	39.30	235.19
45581	71.23	-8.70	-2.70	46.50	26.50	340.99	19.38	279.65	230.07	152.16	20.21	295.25	57.89	42.73	231.09
45582	70.11	-8.70	-2.70	50.87	30.55	355.80	20.87	268.72	226.37	173.10	22.78	288.08	64.91	52.51	226.64
45583	69.00	-8.70	-2.70	55.73	35.22	370.13	22.42	256.65	222.57	194.08	26.55	286.08	72.07	66.66	221.83
45584	67.89	-8.70	-2.70	60.83	40.63	383.28	24.15	243.75	218.67	214.32	31.77	294.15	79.02	82.31	216.73
45585	66.78	-8.70	-2.70	65.94	47.08	394.51	26.14	230.34	214.61	233.50	38.79	317.13	85.29	95.69	211.74
45586	65.67	-8.70	-2.70	70.82	54.82	402.98	28.54	216.72	210.23	253.16	48.16	356.14	90.67	102.58	208.12
45587	64.56	-8.70	-2.70	75.65	64.10	407.58	31.62	203.09	205.06	279.21	60.90	404.83	96.26	101.31	209.48
45588	63.45	-8.70	-2.70	82.24	76.19	407.00	36.07	190.12	197.94	326.34	79.26	449.96	106.68	103.06	222.19
45589	62.34	-8.70	-2.70	93.47	94.34	399.97	44.45	180.90	185.71	414.92	111.33	473.50	135.88	140.18	248.79
45590	61.22	-8.70	-2.70	114.51	122.01	382.34	58.92	176.76	155.24	579.21	165.93	437.23	188.39	228.93	237.81
45591	77.89	-8.10	-4.10	28.53	5.97	292.79	4.34	335.72	269.65	34.05	34.60	340.33	13.44	79.10	271.85
45592	76.76	-8.10	-4.10	27.49	5.70	297.35	7.16	334.58	267.13	28.49	33.17	336.47	15.31	70.53	269.63
45593	75.63	-8.10	-4.10	27.04	6.76	305.86	9.89	331.90	264.42	22.16	31.47	331.40	17.70	61.50	267.18
45594	74.50	-8.10	-4.10	27.34	8.78	317.84	12.30	327.64	261.52	15.81	29.46	325.20	20.31	52.71	264.48
45595	73.37	-8.10	-4.10	28.55	11.40	332.61	14.31	321.75	258.43	11.17	27.10	318.17	22.94	45.52	261.47
45596	72.24	-8.10	-4.10	30.79	14.43	349.42	15.87	314.20	255.11	11.02	24.33	311.02	25.48	42.21	258.06
45597	71.11	-8.10	-4.10	34.16	17.83	367.42	16.97	304.95	251.53	14.31	21.17	305.17	27.81	44.98	254.12
45598	69.98	-8.10	-4.10	38.68	21.63	385.75	17.64	293.99	247.62	17.38	17.74	302.97	29.78	53.55	249.52
45599	68.85	-8.10	-4.10	44.36	25.90	403.44	17.98	281.37	243.28	18.32	14.64	307.66	31.25	65.42	244.10
45600	67.72	-8.10	-4.10	51.21	30.77	419.45	18.14	267.12	238.37	17.00	13.61	322.45	32.14	77.52	237.79
45601	66.60	-8.10	-4.10	59.18	36.45	432.52	18.44	251.29	232.63	16.91	17.30	348.38	32.55	86.77	230.75
45602	65.47	-8.10	-4.10	68.19	43.15	441.06	19.30	233.93	225.64	23.31	26.38	381.94	33.11	90.81	223.69
45603	64.34	-8.10	-4.10	77.96	51.24	442.86	21.20	215.18	216.55	32.63	41.04	413.87	36.09	90.11	217.97
45604	63.21	-8.10	-4.10	87.66	61.33	434.69	24.73	195.75	203.84	37.14	64.30	430.60	45.43	92.98	213.95
45605	62.08	-8.10	-4.10	95.94	73.64	411.43	30.71	176.85	184.27	38.11	101.22	416.11	64.21	115.43	204.93
45606	60.95	-8.10	-4.10	100.30	88.48	367.77	39.04	159.91	155.02	52.61	149.35	352.00	82.87	173.48	179.33
45607	77.89	-8.70	-4.10	29.52	6.33	303.86	4.65	331.97	265.26	33.62	33.28	350.58	14.19	79.69	267.59
45608	76.78	-8.70	-4.10	28.30	6.25	308.12	7.17	330.80	262.84	28.42	31.73	347.01	15.96	71.73	265.46
45609	75.67	-8.70	-4.10	27.64	7.52	316.06	9.66	328.11	260.23	22.65	29.93	342.29	18.23	63.29	263.10
45610	74.56	-8.70	-4.10	27.68	9.72	327.23	11.89	323.86	257.43	17.10	27.86	336.47	20.76	54.89	260.47
45611	73.45	-8.70	-4.10	28.59	12.48	341.03	13.76	318.01	254.43	13.44	25.47	329.77	23.39	47.52	257.52
45612	72.34	-8.70	-4.10	30.47	15.63	356.76	15.23	310.51	251.22	13.64	22.74	322.77	26.01	42.87	254.18
45613	71.23	-8.70	-4.10	33.43	19.13	373.64	16.30	301.33	247.76	16.80	19.70	316.57	28.53	42.95	250.33
45614	70.11	-8.70	-4.10	37.50	22.99	390.83	17.00	290.47	244.03	20.21	16.55	313.02	30.80	48.41	245.87
45615	69.00	-8.70	-4.10	42.67	27.27	407.42	17.45	277.97	239.93	22.12	14.00	314.76	32.68	57.61	240.68
45616	67.89	-8.70	-4.10	48.94	32.08	422.44	17.80	263.90	235.37	22.00	13.98	324.64	33.99	67.94	234.67
45617	66.78	-8.70	-4.10	56.31	37.62	434.70	18.32	248.34	230.11	20.86	18.62	344.19	34.79	76.64	227.98
45618	65.67	-8.70	-4.10	64.67	44.04	442.77	19.35	231.39	223.86	21.98	28.26	371.54	35.45	81.70	221.31
45619	64.56	-8.70	-4.10	73.80	51.57	444.68	21.16	213.34	215.96	26.64	42.71	400.01	37.71	83.74	216.15
45620	63.45	-8.70	-4.10	83.24	60.83	437.26	23.94	194.69	205.23	31.64	65.24	418.13	45.29	89.10	213.51
45621	62.34	-8.70	-4.10	91.15	72.01	415.04	28.19	177.04	189.60	37.79	99.03	409.27	60.15	112.65	209.25
45622	61.22	-8.70	-4.10	94.45	83.78	373.37	35.47	160.75	165.46	50.89	144.37	353.40	73.58	169.08	192.43
45623	77.89	-8.10	-5.50	29.04	7.03	314.95	4.65	353.52	285.68	123.10	52.51	355.03	4.03	96.91	288.17
45624	76.76	-8.10	-5.50	27.47	6.41	319.94	8.04	352.77	283.59	124.01	52.06	351.13	8.15	87.12	286.51
45625	75.63	-8.10	-5.50	26.67	6.44	329.29	11.42	350.70	281.38	124.83	51.17	346.46	11.95	77.05	284.71
45626	74.50	-8.10	-5.50	26.80	7.21	342.49	14.45	347.25	279.03	126.14	49.78	341.18	15.33	67.18	282.73
45627	73.37	-8.10	-5.50	27.98	8.68	358.88	17.00	342.30	276.53	128.62	47.78	335.69	18.22	58.22	280.49
45628	72.24	-8.10	-5.50	30.35	10.73	377.66	18.99	335.73	273.81	133.17	45.04	330.75	20.62	51.18	277.85
45629	71.11	-8.10	-5.50	34.13	13.29	397.93	20.37	327.40	270.81	140.82	41.40	327.68	22.54	47.25	274.63
45630	69.98	-8.10	-5.50	39.58	16.34	418.70	21.13	317.16	267.43	152.77	36.65	328.37	24.09	47.13	270.64
45631	68.85	-8.10	-5.50	46.98	19.93	438.84	21.32	304.88	263.50	170.23	30.56	335.02	25.48	50.31	265.66
45632	67.72	-8.10	-5.50	56.53	24.13	457.05	21.09	290.47	258.83	194.31	22.74	349.21	27.00	55.36	259.54
45633	66.60	-8.10	-5.50	68.27	29.10	471.78	20.72	273.82	253.12	225.51	12.61	370.52	28.94	61.11	252.32
45634	65.47	-8.10	-5.50	82.03	34.96	481.03	20.64	254.92	245.99	263.43	2.73	395.14	31.38	67.69	244.39
45635	64.34	-8.10	-5.50	97.17	41.94	482.07	21.35	233.85	236.81	306.41	18.47	415.18	33.42	77.19	236.36
45636	63.21	-8.10	-5.50	112.33	50.23	471.21	23.29	211.10	224.71	351.30	42.11	418.75	34.55	93.31	228.37
45637	62.08	-8.10	-5.50	125.51	59.76	444.33	26.74	187.63	208.75	395.34	71.61	391.20	36.32	120.87	219.86
45638	60.95	-8.10	-5.50	135.42	70.25	399.33	31.24	165.33	188.46	435.05	104.99	322.19	41.04	168.35	212.98
45639	77.89	-8.70	-5.50	29.24	6.77	326.71	4.37	349.48	281.80	118.77	50.70	366.13	3.73	97.51	284.44
45640	76.78	-8.70	-5.50	27.58	6.30	331.39	7.50	348.70	279.80	119.45	50.02	362.48	7.58	88.39	282.86
45641	75.67	-8.70	-5.50	26.68	6.69	340.15	10.61	346.61	277.65	119.99	48.90	358.09			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
45669	62.08	-8.10	-6.90	162.72	48.45	492.11	34.22	205.04	238.21	744.72	42.44	398.08	113.93	168.47	250.26
45670	60.95	-8.10	-6.90	190.05	56.99	453.28	38.31	174.82	221.30	848.96	73.48	338.07	124.88	194.89	253.08
45671	77.89	-8.70	-6.90	37.46	16.25	347.57	9.20	364.47	297.86	215.47	70.17	380.43	16.65	120.80	300.53
45672	76.78	-8.70	-6.90	36.78	15.94	352.53	11.99	364.13	296.30	221.55	70.65	377.03	22.12	111.22	299.48
45673	75.67	-8.70	-6.90	37.48	15.76	361.87	15.43	362.81	294.70	228.25	70.60	373.29	27.93	101.78	298.41
45674	74.56	-8.70	-6.90	39.39	15.74	375.17	18.86	360.43	293.07	236.13	69.96	369.36	33.82	92.84	297.27
45675	73.45	-8.70	-6.90	42.22	15.94	391.84	21.97	356.84	291.37	245.90	68.63	365.54	39.67	84.85	295.96
45676	72.34	-8.70	-6.90	45.75	16.47	411.14	24.58	351.83	289.53	258.39	66.48	362.39	45.47	78.29	294.33
45677	71.23	-8.70	-6.90	49.98	17.41	432.19	26.59	345.17	287.49	274.57	63.36	360.75	51.26	73.71	292.20
45678	70.11	-8.70	-6.90	55.12	18.87	453.96	27.95	336.61	285.11	295.54	59.09	361.74	57.17	71.71	289.33
45679	69.00	-8.70	-6.90	61.59	20.95	475.22	28.66	325.90	282.25	322.45	53.46	366.51	63.42	72.87	285.48
45680	67.89	-8.70	-6.90	69.92	23.70	494.53	28.81	312.89	278.66	356.55	46.45	375.77	70.41	77.77	280.45
45681	66.78	-8.70	-6.90	80.54	27.29	510.16	28.64	297.39	274.07	399.34	37.54	389.05	78.29	87.32	274.20
45682	65.67	-8.70	-6.90	93.69	31.67	520.13	28.54	279.23	268.21	451.96	27.34	403.96	87.85	102.00	267.17
45683	64.56	-8.70	-6.90	109.32	36.85	521.97	29.04	258.15	260.62	515.40	19.07	415.44	99.52	121.28	260.01
45684	63.45	-8.70	-6.90	127.38	42.87	512.80	30.90	233.29	250.75	591.41	22.54	414.89	113.07	146.12	253.67
45685	62.34	-8.70	-6.90	147.64	49.52	490.25	35.13	205.12	238.20	677.88	40.18	392.07	131.55	172.37	250.22
45686	61.22	-8.70	-6.90	171.25	56.96	452.84	42.22	174.90	222.49	773.94	64.71	340.81	155.33	200.61	254.90
45687	77.89	-8.10	-8.30	53.17	27.34	353.98	14.31	380.09	313.83	326.77	93.13	381.64	31.19	148.98	316.16
45688	76.76	-8.10	-8.30	54.25	27.24	359.31	17.93	380.24	312.68	338.49	95.51	378.60	39.33	138.98	315.58
45689	75.63	-8.10	-8.30	57.67	27.07	369.46	22.62	379.84	311.72	351.62	97.31	375.54	48.27	129.66	315.23
45690	74.50	-8.10	-8.30	62.76	26.83	384.00	27.51	378.78	310.94	366.75	98.47	372.62	57.70	121.51	315.04
45691	73.37	-8.10	-8.30	68.82	26.50	402.36	32.15	376.88	310.30	384.61	98.86	370.14	67.44	115.10	314.93
45692	72.24	-8.10	-8.30	75.25	26.11	423.85	36.30	373.91	309.74	406.07	98.36	368.63	77.38	111.06	314.74
45693	71.11	-8.10	-8.30	81.70	25.70	447.61	39.77	369.53	309.17	432.15	96.80	368.85	87.44	110.10	314.26
45694	69.98	-8.10	-8.30	88.12	25.33	472.60	42.44	363.36	308.45	464.04	93.97	371.77	97.58	113.02	313.20
45695	68.85	-8.10	-8.30	94.81	25.13	497.55	44.20	355.02	307.33	503.13	89.67	378.32	107.88	120.73	311.23
45696	67.72	-8.10	-8.30	102.36	25.25	520.91	45.07	344.18	305.49	551.16	83.63	388.94	118.42	134.23	308.01
45697	66.60	-8.10	-8.30	111.65	25.98	540.97	45.18	330.56	302.52	610.24	75.37	403.15	129.52	154.41	303.38
45698	65.47	-8.10	-8.30	123.75	27.48	555.92	44.81	313.80	297.97	683.39	65.04	419.04	141.94	181.18	297.59
45699	64.34	-8.10	-8.30	140.10	29.98	563.81	44.42	293.02	291.36	774.82	52.48	432.68	155.67	213.04	291.36
45700	63.21	-8.10	-8.30	162.46	33.70	562.49	44.77	266.96	282.25	888.82	38.34	437.28	171.27	246.07	286.24
45701	62.08	-8.10	-8.30	193.29	38.69	549.34	46.87	234.45	270.39	1031.19	31.09	422.96	189.25	273.00	285.27
45702	60.95	-8.10	-8.30	235.99	45.40	520.88	51.20	195.62	255.56	1209.47	47.65	379.85	206.58	285.52	293.61
45703	77.89	-8.70	-8.30	51.96	26.85	365.86	14.97	375.51	311.58	317.37	90.44	393.08	31.87	148.78	314.03
45704	76.78	-8.70	-8.30	52.95	26.71	370.91	18.05	375.65	310.48	327.96	92.32	390.16	39.94	139.43	313.49
45705	75.67	-8.70	-8.30	56.21	26.52	380.53	22.21	375.25	309.52	339.75	93.60	387.22	48.79	130.76	313.13
45706	74.56	-8.70	-8.30	61.11	26.29	394.33	26.64	374.21	308.70	353.30	94.23	384.39	58.14	123.22	312.90
45707	73.45	-8.70	-8.30	66.90	26.04	411.80	30.89	372.36	307.98	369.27	94.11	381.92	67.83	117.33	312.70
45708	72.34	-8.70	-8.30	72.99	25.78	432.27	34.72	369.46	307.31	388.43	93.10	380.24	77.78	113.64	312.38
45709	71.23	-8.70	-8.30	78.99	25.59	454.92	37.94	366.17	306.60	411.70	91.08	379.96	87.96	112.82	311.74
45710	70.11	-8.70	-8.30	84.82	25.53	478.73	40.44	359.12	305.72	440.15	87.87	381.87	98.38	115.55	310.51
45711	69.00	-8.70	-8.30	90.70	25.73	502.41	42.16	350.90	304.45	474.92	83.28	386.68	109.15	122.65	309.30
45712	67.89	-8.70	-8.30	97.18	26.29	524.42	43.09	340.22	302.51	517.41	77.31	394.73	120.62	134.89	305.05
45713	66.78	-8.70	-8.30	105.03	27.50	542.94	43.41	326.80	299.50	569.64	69.33	405.48	132.99	153.44	300.34
45714	65.67	-8.70	-8.30	115.21	29.40	556.19	43.44	310.42	295.11	633.91	59.59	417.27	147.47	178.64	294.66
45715	64.56	-8.70	-8.30	128.82	31.98	562.29	43.69	290.44	288.82	713.27	49.08	426.87	165.04	208.90	288.79
45716	63.45	-8.70	-8.30	147.62	35.63	559.29	44.95	265.33	280.15	813.26	37.44	428.47	185.55	243.13	284.28
45717	62.34	-8.70	-8.30	173.30	40.27	545.11	48.62	234.73	268.90	936.42	32.46	414.42	212.38	273.26	284.33
45718	61.22	-8.70	-8.30	208.85	46.18	517.00	56.02	198.06	254.83	1090.38	45.01	376.99	246.66	293.74	294.55
45719	59.93	-8.10	-2.70	148.78	127.22	305.67	78.53	162.83	59.81	787.48	245.05	300.76	189.95	367.36	71.98
45720	59.03	-8.10	-2.70	174.60	108.96	264.17	60.76	171.40	46.27	850.05	288.03	246.88	145.93	438.44	46.48
45721	58.12	-8.10	-2.70	199.42	114.59	238.31	54.94	191.85	70.82	860.27	382.88	468.76	84.76	546.10	72.41
45722	57.22	-8.10	-2.70	233.90	134.04	220.94	63.16	223.38	83.02	856.13	465.63	822.22	85.64	769.88	88.52
45723	56.31	-8.10	-2.70	313.33	111.71	220.01	45.58	280.46	81.90	914.74	388.31	1282.69	119.33	1300.54	256.88
45724	60.21	-8.70	-2.70	150.09	136.42	362.05	67.33	177.58	96.99	757.68	263.86	342.10	190.66	319.16	133.59
45725	59.29	-8.70	-2.70	181.43	123.57	342.92	59.52	178.54	43.93	765.09	313.05	352.72	102.69	365.67	72.98
45726	58.38	-8.70	-2.70	219.56	118.03	321.94	60.95	200.38	29.09	774.11	381.04	535.62	45.60	483.98	134.00
45727	57.46	-8.70	-2.70	273.87	138.22	305.42	67.07	238.87	38.64	802.80	502.35	844.01	73.28	710.92	274.36
45728	56.54	-8.70	-2.70	386.36	204.53	321.79	93.61	320.45	40.40	838.40	386.61	1238.12	105.63	1267.18	445.86
45729	59.93	-8.10	-4.10	98.34	104.52	313.55	44.88	147.26	122.09	68.66	193.57	258.29	71.63	263.22	146.90
45730	59.03	-8.10	-4.10	98.34	120.65	262.49	44.61	143.48	90.71	96.80	233.71	253.59	46.02	380.05	134.23
45731	58.12	-8.10	-4.10	104.03	136.77	219.80	39.47	153.02	65.96	106.94	261.46	440.92	28.63	540.00	153.54
45732	57.22	-8.10	-4.10	116.43	168.71	187.56	46.29	175.78	58.05	117.74	283.42	725.43	54.56	813.71	150.40
45733	56.31	-8.10	-4.10	165.80	156.46	156.17	61.50	227.13	84.51	212.91	200.51	1009.82	79.50	1373.45	205.66
45734	60.21	-8.70	-4.10	93.78	95.12	323.45	43.77	147.15	135.80	64.27	173.25	271.42	66.89	249.98	171.18
45735	59.29	-8.70	-4.10	98.31	104.70	279.11	50.02	143.04	104.25	84.24	194.66	271.38	44.85	350.78	176.52
45736	58.38	-8.70	-4.10	111.71	114.56	242.48	50.60	154.53	74.27	77.64	213.96	441.93	22.95	494.53	244.95
45737	57.46	-8.70	-4.10	136.28	130.27	215.67	57.50	184.08	49.05	67.88	220.17	724.79	39.63	756.78	385.62
45738	56.54	-8.70	-4.10	199.54	166.77	199.93	86.42	243.54	38.53	102.63	205.91	1054.1			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
45767	57.46	-8.70	-8.30	500.65	123.32	252.67	103.70	163.82	178.02	2083.01	361.50	926.42	338.88	425.14	540.70
45768	56.54	-8.70	-8.30	694.38	242.98	119.35	164.86	224.59	123.17	2721.63	891.71	1490.81	551.63	993.83	690.20
45769	99.88	-9.79	-2.70	34.59	111.20	11.40	54.63	17.26	25.91	23.55	43.78	12.88	25.30	19.73	33.75
45770	98.96	-9.75	-2.70	59.73	106.95	18.40	61.25	19.87	31.43	70.71	33.61	25.16	40.43	31.86	31.29
45771	98.05	-9.70	-2.70	85.79	106.41	33.58	73.96	25.20	41.40	134.64	21.83	37.79	60.28	52.61	42.11
45772	97.13	-9.66	-2.70	118.92	115.41	65.68	99.77	61.34	67.01	221.44	50.96	68.55	90.85	93.45	73.08
45773	96.21	-9.62	-2.70	192.04	163.40	232.79	146.02	167.62	155.99	351.51	143.14	249.32	141.83	201.11	165.47
45774	99.10	-11.34	-2.70	44.73	108.45	11.11	63.32	19.41	25.73	31.23	43.67	12.58	31.37	23.53	34.37
45775	98.20	-11.21	-2.70	71.08	103.44	18.65	67.80	21.89	30.78	80.73	31.22	24.08	43.95	33.31	30.35
45776	97.30	-11.08	-2.70	97.78	103.39	34.05	76.69	27.13	40.88	143.74	20.37	36.33	59.54	49.80	41.62
45777	96.40	-10.95	-2.70	130.71	116.13	66.33	97.21	61.74	67.94	225.49	55.93	65.75	85.10	84.73	74.09
45778	95.51	-10.82	-2.70	201.76	174.79	234.88	135.65	165.85	160.50	345.78	154.12	237.26	129.21	182.24	169.03
45779	98.21	-12.83	-2.70	57.34	104.79	10.89	71.72	21.75	25.32	41.57	45.21	12.23	38.67	27.50	34.27
45780	97.34	-12.62	-2.70	83.85	99.15	18.89	73.76	23.91	29.89	92.64	29.56	22.96	47.76	34.65	29.01
45781	96.46	-12.41	-2.70	110.23	99.70	34.51	79.29	29.04	40.19	153.93	18.69	35.01	58.76	46.96	40.89
45782	95.59	-12.19	-2.70	141.93	116.19	67.07	95.24	62.16	69.12	229.91	60.05	63.45	79.36	76.09	75.01
45783	94.72	-11.98	-2.70	209.58	185.24	237.67	126.39	163.70	166.29	338.99	164.51	227.45	116.60	163.43	173.25
45784	97.21	-14.25	-2.70	71.82	99.91	10.64	79.34	24.03	24.62	54.87	47.69	11.85	46.99	31.21	33.30
45785	96.37	-13.96	-2.70	97.94	93.90	19.15	78.97	25.89	28.81	106.59	28.65	21.96	51.77	35.75	27.30
45786	95.53	-13.67	-2.70	123.17	95.18	35.06	81.57	30.94	39.45	165.24	17.15	34.04	57.87	44.09	40.08
45787	94.69	-13.37	-2.70	152.69	115.49	68.02	93.72	62.57	70.63	234.66	63.53	61.93	73.49	67.65	75.92
45788	93.85	-13.08	-2.70	215.61	193.92	241.85	118.93	161.75	172.70	331.55	173.54	221.15	104.37	145.51	177.55
45789	96.11	-15.59	-2.70	88.11	93.65	10.38	85.77	26.19	23.65	71.31	49.99	11.48	55.80	34.46	31.45
45790	95.31	-15.22	-2.70	113.15	87.64	19.46	83.03	27.79	27.54	122.51	28.24	21.16	55.61	36.48	25.23
45791	94.51	-14.85	-2.70	136.50	89.84	35.70	83.19	32.84	38.67	177.52	15.99	33.50	56.69	41.18	39.18
45792	93.71	-14.48	-2.70	162.90	113.94	69.21	92.52	63.00	72.47	239.56	66.31	61.35	67.51	59.53	76.92
45793	92.91	-14.11	-2.70	219.52	201.33	247.55	113.63	159.70	180.40	323.04	181.59	219.06	92.66	128.60	182.97
45794	94.92	-16.85	-2.70	105.90	85.99	10.14	90.54	28.19	22.42	90.82	51.13	11.12	64.31	37.04	28.75
45795	94.16	-16.41	-2.70	129.19	80.43	19.83	85.62	29.62	26.07	140.15	27.90	20.59	58.87	36.72	22.82
45796	93.40	-15.97	-2.70	149.98	83.71	36.42	83.94	34.74	37.83	190.45	15.34	33.41	55.05	38.19	38.18
45797	92.65	-15.53	-2.70	172.42	111.54	70.59	91.69	63.39	74.54	244.27	68.44	61.74	61.52	51.75	77.98
45798	91.89	-15.08	-2.70	221.12	206.47	253.63	111.42	157.30	188.31	313.00	187.72	220.56	82.21	112.45	188.72
45799	93.63	-18.02	-2.70	124.77	77.08	9.93	93.26	29.97	20.94	113.09	50.49	10.78	71.68	38.75	25.31
45800	92.93	-17.51	-2.70	145.71	72.40	20.22	86.48	31.35	24.37	159.11	27.26	20.27	61.08	36.38	20.12
45801	92.22	-17.00	-2.70	163.34	76.87	37.19	83.70	36.61	36.90	203.63	15.24	33.77	52.84	35.11	37.05
45802	91.52	-16.49	-2.70	181.10	108.18	72.07	91.29	63.77	76.74	248.46	69.95	63.04	55.74	44.48	79.09
45803	90.82	-15.98	-2.70	220.58	209.73	260.33	112.72	154.89	196.65	301.61	192.42	226.01	73.59	97.86	195.22
45804	92.26	-19.09	-2.70	144.23	67.15	9.74	93.59	31.46	19.26	137.52	47.80	10.48	77.03	39.46	21.31
45805	91.62	-18.52	-2.70	162.30	63.71	20.63	85.42	32.92	22.44	178.89	26.02	20.20	61.83	35.37	17.21
45806	90.97	-17.94	-2.70	176.34	69.41	37.98	82.36	38.40	35.89	216.72	15.73	34.53	49.99	31.95	35.81
45807	90.33	-17.37	-2.70	188.90	104.02	73.63	91.27	64.03	79.08	252.01	71.17	65.14	50.34	37.84	80.40
45808	89.68	-16.80	-2.70	217.61	211.37	267.10	117.27	151.92	205.35	288.75	196.13	234.77	67.02	84.50	202.73
45809	90.82	-20.05	-2.70	163.64	56.56	9.59	91.24	32.63	17.41	163.31	43.12	10.22	79.62	39.10	17.00
45810	90.24	-19.42	-2.70	178.48	54.63	21.04	82.28	34.31	20.29	198.91	24.11	20.35	60.73	33.67	14.19
45811	89.65	-18.79	-2.70	188.68	61.54	38.75	79.86	40.06	34.81	229.38	16.72	35.61	46.39	28.71	34.49
45812	89.07	-18.17	-2.70	195.73	99.20	75.15	91.47	64.14	81.39	254.81	72.17	67.84	45.44	31.90	81.87
45813	88.49	-17.54	-2.70	212.50	210.95	273.34	124.15	148.55	213.46	274.80	198.40	245.75	62.56	72.51	210.53
45814	89.31	-20.91	-2.70	182.31	45.75	9.47	86.08	33.47	15.49	189.43	36.84	9.99	78.86	37.66	12.64
45815	88.80	-20.23	-2.70	193.74	45.52	21.43	77.05	35.47	17.92	218.49	21.66	20.67	57.51	31.29	11.19
45816	88.28	-19.55	-2.70	200.01	53.51	39.48	76.27	41.53	33.68	241.23	18.01	36.90	42.04	25.43	33.14
45817	87.77	-18.87	-2.70	201.47	93.86	76.57	91.85	64.13	83.54	256.80	72.99	70.89	41.28	26.76	83.50
45818	87.25	-18.19	-2.70	205.55	208.95	279.14	132.44	144.97	221.05	260.19	199.80	258.31	59.92	61.95	218.80
45819	87.74	-21.65	-2.70	199.55	35.26	9.38	78.15	33.98	13.58	214.81	29.55	9.81	74.41	35.22	8.61
45820	87.30	-20.93	-2.70	207.55	36.74	21.78	69.87	36.40	15.39	236.94	18.96	21.10	52.09	28.26	8.35
45821	86.86	-20.20	-2.70	209.98	45.55	40.15	71.84	42.78	32.54	251.93	19.40	38.29	37.15	22.10	31.88
45822	86.41	-19.48	-2.70	206.01	88.27	77.88	92.39	63.99	85.52	257.98	73.76	74.12	38.11	22.45	85.36
45823	85.97	-18.76	-2.70	197.12	205.72	284.37	141.23	141.32	227.91	245.43	200.61	271.58	58.48	52.64	227.34
45824	86.12	-22.28	-2.70	214.71	25.61	9.31	67.64	34.22	11.80	238.39	22.03	9.65	66.26	31.90	5.48
45825	85.75	-21.52	-2.70	219.43	28.60	22.09	61.07	37.09	12.72	253.62	16.37	21.60	44.59	24.66	5.80
45826	85.39	-20.76	-2.70	218.28	37.88	40.74	66.98	43.80	31.47	261.20	20.75	39.70	32.15	18.74	30.83
45827	85.02	-19.99	-2.70	209.24	82.69	79.03	93.10	63.77	87.27	258.37	74.52	77.32	36.13	18.84	87.46
45828	84.65	-19.23	-2.70	187.66	201.65	288.93	149.71	137.77	233.86	231.04	201.17	284.77	57.59	44.29	235.90
45829	84.46	-22.78	-2.70	227.19	17.30	9.26	54.90	34.23	10.26	259.22	15.08	9.52	54.64	27.83	4.41
45830	84.17	-21.99	-2.70	228.97	21.38	22.36	51.17	37.57	9.98	267.99	14.24	22.12	35.47	20.58	3.71
45831	83.88	-21.20	-2.70	224.64	30.70	41.23	62.24	44.58	30.51	268.82	21.94	41.05	27.87	15.34	30.09
45832	83.59	-20.41	-2.70	211.11	77.40	80.01	93.95	63.50	88.72	258.09	75.30	80.33	35.48	15.76	89.73
45833	83.31	-19.62	-2.70	177.74	197.19	292.72	157.23	134.57	238.73	217.59	201.73	297.16	56.71	36.61	244.16
45834	82.77	-23.17	-2.70	236.50	10.72	9.23	40.43	34.09	9.06	276.49	9.50	9.40	40.04	23.18	5.51
45835	82.56	-22.35	-2.70	235.82	15.27	22.58	41.10	37.84	7.21	279.60	12.74	22.63	25.75	16.09	2.27
45836	82.35	-21.54	-2.70	228.83	24.22	41.63	58.30	45.12	29.73	274.65	22.94	42.26	25.64	11.88	29.73
45837	82.14	-20.72	-2.70	211.55	72.69	80.77	94.92	63.23	89.81	257.23	76.12	82.99	36.14	13.00	92.05
45838	81.94	-19.90	-2.70	167.98											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
45865	96.37	-13.96	-4.10	71.92	82.18	72.23	79.41	64.46	86.39	74.65	32.50	80.20	55.65	85.90	85.23
45866	95.53	-13.67	-4.10	84.01	72.61	120.01	83.76	83.40	108.41	104.46	10.30	111.36	62.82	95.40	109.78
45867	94.69	-13.37	-4.10	99.32	72.73	199.94	83.40	122.82	145.45	129.30	22.99	172.68	66.24	108.76	151.14
45868	93.85	-13.08	-4.10	112.02	77.71	298.07	64.80	153.06	174.77	133.09	24.63	246.11	54.81	102.02	179.64
45869	96.11	-15.59	-4.10	76.90	88.80	37.77	82.59	64.84	72.85	60.57	55.04	52.16	57.09	82.96	80.36
45870	95.31	-15.22	-4.10	85.60	75.18	73.82	83.90	69.85	83.71	86.59	32.86	77.36	59.99	85.49	81.87
45871	94.51	-14.85	-4.10	95.66	66.19	122.33	86.47	87.55	107.13	113.33	11.55	110.40	64.10	88.99	108.29
45872	93.71	-14.48	-4.10	108.49	68.92	203.44	83.92	124.99	146.70	135.61	25.39	173.34	64.40	97.26	151.66
45873	92.91	-14.11	-4.10	120.00	74.99	302.61	62.67	154.60	175.97	140.40	24.01	249.35	50.11	91.42	180.04
45874	94.92	-16.85	-4.10	93.39	80.95	37.50	87.23	70.66	69.24	77.24	54.92	48.80	64.47	86.81	74.64
45875	94.16	-16.41	-4.10	100.49	67.20	75.56	86.98	75.14	80.51	100.78	32.22	75.55	64.08	84.26	77.88
45876	93.40	-15.97	-4.10	108.20	59.30	124.85	87.95	91.74	105.64	123.95	12.36	110.96	64.97	82.47	106.48
45877	92.65	-15.53	-4.10	117.97	64.95	207.25	83.67	127.15	148.01	142.86	27.62	176.39	62.12	86.22	152.01
45878	91.89	-15.08	-4.10	127.53	71.53	307.47	60.64	156.08	177.15	147.48	22.78	255.76	45.19	81.53	180.27
45879	93.63	-18.02	-4.10	111.06	71.92	37.43	89.98	76.05	64.89	96.49	53.00	45.88	71.02	88.85	67.59
45880	92.93	-17.51	-4.10	116.26	58.39	77.40	88.33	80.24	76.75	116.92	30.19	74.84	67.42	82.00	73.28
45881	92.22	-17.00	-4.10	121.37	52.20	127.47	88.00	95.93	103.88	136.03	12.88	112.99	65.18	75.86	104.33
45882	91.52	-16.49	-4.10	127.62	60.98	211.30	82.59	129.31	149.29	150.79	29.86	181.70	59.35	75.95	152.20
45883	90.82	-15.98	-4.10	134.53	67.24	312.72	58.79	157.53	178.26	154.10	20.90	265.20	40.15	72.87	180.34
45884	92.26	-19.09	-4.10	129.43	61.90	37.56	90.46	80.87	59.80	117.90	49.04	43.52	75.90	88.80	59.48
45885	91.62	-18.52	-4.10	132.52	48.96	79.27	87.66	85.03	72.42	134.58	26.63	75.21	69.42	78.56	68.18
45886	90.97	-17.94	-4.10	134.88	45.31	130.13	86.39	99.99	101.88	149.18	13.75	116.31	64.36	69.16	101.86
45887	90.33	-17.37	-4.10	137.32	57.26	215.44	80.55	131.37	150.53	159.18	32.43	188.87	55.95	66.62	152.33
45888	89.68	-16.80	-4.10	141.04	62.17	318.11	57.14	158.82	179.33	160.23	18.88	277.02	35.12	65.40	180.48
45889	90.82	-20.05	-4.10	147.90	51.23	37.83	88.38	84.98	54.02	140.73	43.14	41.75	78.30	86.51	50.70
45890	90.24	-19.42	-4.10	148.73	39.32	81.08	84.74	89.36	67.58	153.15	21.72	76.48	69.46	73.86	62.75
45891	89.65	-18.79	-4.10	148.29	39.30	132.70	82.95	103.77	99.64	162.93	15.81	120.58	62.10	62.38	99.17
45892	89.07	-18.17	-4.10	146.80	54.15	219.42	77.43	133.23	151.61	167.71	35.44	197.32	51.67	58.35	152.45
45893	88.49	-17.54	-4.10	146.92	56.47	323.28	55.60	159.99	180.22	165.72	16.92	290.32	30.08	59.15	180.64
45894	89.31	-20.91	-4.10	165.79	40.35	38.19	83.56	88.32	47.68	164.02	35.68	40.55	77.59	81.99	41.73
45895	88.80	-20.23	-4.10	164.30	30.06	82.77	79.45	93.12	62.34	171.86	16.06	78.41	67.06	67.91	57.24
45896	88.28	-19.55	-4.10	161.08	34.96	135.09	77.67	107.14	97.26	176.65	19.40	125.41	58.07	55.53	96.44
45897	87.77	-18.87	-4.10	155.67	51.87	223.15	73.31	134.86	152.51	175.99	38.86	206.44	46.42	51.19	152.70
45898	87.25	-18.19	-4.10	152.02	50.25	328.16	54.25	161.01	180.94	170.44	15.21	304.36	25.21	54.00	180.98
45899	87.74	-21.65	-4.10	182.37	29.79	38.59	76.01	90.87	40.91	186.70	27.30	39.82	73.40	75.40	33.03
45900	87.30	-20.93	-4.10	178.62	22.02	84.30	71.88	96.24	56.89	189.88	10.97	80.73	61.97	60.78	51.97
45901	86.86	-20.20	-4.10	172.74	32.85	137.27	70.70	110.03	94.86	189.72	24.15	130.46	52.13	48.61	93.92
45902	86.41	-19.48	-4.10	163.60	50.49	226.55	68.42	136.21	153.27	183.63	42.54	215.73	40.20	45.04	153.28
45903	85.97	-18.76	-4.10	156.21	43.65	332.66	53.15	161.83	181.54	174.27	13.93	318.43	20.73	49.68	181.63
45904	86.12	-22.28	-4.10	197.00	20.11	38.99	65.88	92.69	33.88	207.73	18.75	39.47	65.67	66.95	25.07
45905	85.75	-21.52	-4.10	191.12	16.42	85.65	62.26	98.70	51.49	206.41	9.29	83.23	54.14	52.58	47.24
45906	85.39	-20.76	-4.10	182.80	32.88	139.19	62.41	112.39	92.61	201.54	29.38	135.44	44.30	41.59	91.88
45907	85.02	-19.99	-4.10	170.25	49.87	229.55	63.15	137.25	153.90	190.28	46.24	224.71	33.13	39.67	154.32
45908	84.65	-19.23	-4.10	159.37	36.82	336.66	52.40	162.43	182.02	177.13	13.21	331.87	16.99	45.84	182.70
45909	84.46	-22.78	-4.10	209.11	11.85	39.36	53.52	93.85	26.76	226.14	10.89	39.41	54.63	56.91	18.24
45910	84.17	-21.99	-4.10	201.33	14.46	86.80	51.00	100.54	46.41	220.70	12.24	85.74	43.80	43.44	43.34
45911	83.88	-21.20	-4.10	190.86	34.28	140.82	53.37	114.20	90.61	211.58	34.48	140.09	34.83	34.43	90.52
45912	83.59	-20.41	-4.10	175.34	49.75	232.10	58.05	138.01	154.39	195.65	49.71	232.97	25.59	34.76	155.86
45913	83.31	-19.62	-4.10	161.40	29.95	340.06	52.06	162.84	182.37	178.98	13.09	344.12	14.56	42.14	184.18
45914	82.77	-23.17	-4.10	218.18	5.69	39.69	39.37	94.47	19.71	241.10	4.83	39.59	40.71	45.61	12.88
45915	82.56	-22.35	-4.10	208.82	15.47	87.73	38.83	101.78	42.01	232.12	16.58	88.09	31.37	33.49	40.49
45916	82.35	-21.54	-4.10	196.58	36.06	142.12	44.58	115.49	88.98	219.38	38.94	144.21	24.26	27.13	89.96
45917	82.14	-20.72	-4.10	178.63	49.81	234.11	53.78	138.50	154.71	199.49	52.74	240.15	18.45	30.04	157.84
45918	81.94	-19.90	-4.10	162.22	23.33	342.74	52.15	163.07	182.57	179.84	13.53	354.68	13.96	38.36	186.00
45919	81.05	-23.42	-4.10	223.83	3.05	39.93	24.10	94.67	13.03	251.94	3.46	39.95	24.55	33.48	9.29
45920	80.92	-22.59	-4.10	213.27	17.20	88.39	27.11	102.47	38.68	240.18	20.25	90.13	17.62	22.89	38.82
45921	80.80	-21.76	-4.10	199.68	37.45	143.04	37.57	116.25	87.76	224.59	42.39	147.59	14.16	19.76	90.20
45922	80.67	-20.93	-4.10	179.95	49.75	235.50	51.09	138.75	154.84	201.64	55.16	245.94	14.05	25.37	160.11
45923	80.55	-20.10	-4.10	161.79	17.59	344.62	52.64	163.13	182.59	179.74	14.44	363.11	15.20	34.39	188.03
45924	79.32	-23.55	-4.10	225.77	3.63	40.05	9.21	94.53	7.78	258.20	5.12	40.41	7.10	21.44	7.54
45925	79.28	-22.71	-4.10	214.43	18.18	88.72	19.48	102.63	36.78	244.53	22.51	91.73	6.73	11.94	38.40
45926	79.23	-21.87	-4.10	199.99	37.95	143.50	34.46	116.49	87.01	227.02	44.60	150.04	11.45	12.77	91.18
45927	79.19	-21.03	-4.10	179.16	49.40	236.22	50.49	138.75	154.72	202.02	56.88	250.05	15.88	20.84	162.47
45928	79.15	-20.20	-4.10	160.07	14.13	345.63	53.46	163.02	182.39	178.74	15.72	369.06	17.68	30.37	190.09
45929	99.88	-9.79	-5.50	26.15	102.06	86.18	48.85	59.67	128.62	17.34	56.87	162.58	31.60	78.92	134.41
45930	98.96	-9.75	-5.50	35.10	91.28	131.54	51.29	72.48	141.07	32.20	44.46	171.12	38.91	106.13	140.78
45931	98.05	-9.70	-5.50	45.42	81.56	194.50	53.78	94.43	158.14	46.48	32.59	191.50	45.34	121.65	158.56
45932	97.13	-9.66	-5.50	57.66	74.77	263.38	53.36	120.49	177.23	56.62	23.92	221.09	48.51	121.30	179.74
45933	96.21	-9.62	-5.50	68.65	68.98	331.72	52.70	146.00	197.03	66.91	17.47	254.20	50.73	109.46	200.42
45934	99.10	-11.34	-5.50	34.64	98.97	86.07	56.35	68.75	126.21	24.03	58.17	152.05	37.43	87.29	132.60
45935	98.20	-11.21	-5.50	43.58	88.09	134.24	57.45	80.43	138.74	38.56	45.49	162.53	43.37	10	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
45963	90.82	-15.98	-5.50	112.05	55.65	354.76	46.20	172.39	184.05	111.90	24.78	297.57	39.65	76.47	185.89
45964	92.26	-19.09	-5.50	118.99	59.81	95.33	83.20	119.47	93.76	105.90	50.67	103.50	71.77	114.50	89.35
45965	91.62	-18.52	-5.50	118.77	52.02	155.66	76.46	124.77	111.10	111.14	40.51	143.98	65.25	100.68	105.93
45966	90.97	-17.94	-5.50	118.62	46.94	221.56	68.52	138.06	135.10	115.32	31.28	195.43	57.87	87.32	133.42
45967	90.33	-17.37	-5.50	119.77	49.01	291.06	56.50	156.40	159.53	118.58	27.82	253.10	47.48	77.24	160.05
45968	89.68	-16.80	-5.50	119.23	51.79	359.42	44.18	176.60	181.00	119.50	25.55	311.99	36.87	72.93	182.09
45969	90.82	-20.05	-5.50	136.16	50.06	97.94	81.47	125.69	85.02	125.97	44.52	101.20	73.45	110.75	77.68
45970	90.24	-19.42	-5.50	133.75	43.41	159.34	74.20	131.03	103.88	128.04	35.46	147.63	65.49	94.89	97.99
45971	89.65	-18.79	-5.50	131.15	39.72	225.67	65.85	143.73	129.83	129.01	27.68	203.50	56.69	80.86	127.68
45972	89.07	-18.17	-5.50	129.53	43.49	295.45	53.74	161.13	155.65	129.14	26.39	264.93	45.11	71.89	155.48
45973	88.49	-17.54	-5.50	126.18	47.62	363.90	41.62	180.56	177.69	126.90	26.02	327.04	33.62	69.80	178.05
45974	89.31	-20.91	-5.50	152.81	40.04	100.47	77.16	130.83	75.53	146.33	37.08	100.62	72.31	104.07	65.84
45975	88.80	-20.23	-5.50	148.20	34.66	162.74	69.73	136.47	96.16	145.04	29.34	152.37	63.46	87.36	89.94
45976	88.28	-19.55	-5.50	143.17	32.49	229.46	61.40	148.78	124.30	142.60	23.28	212.16	53.78	73.76	121.84
45977	87.77	-18.87	-5.50	138.78	37.88	299.53	49.77	165.38	151.64	139.39	24.42	276.99	41.62	66.62	150.89
45978	87.25	-18.19	-5.50	132.62	43.29	368.12	38.53	184.12	174.29	133.82	26.22	342.01	29.83	66.88	174.03
45979	87.74	-21.65	-5.50	168.24	30.24	102.80	70.27	134.85	65.53	165.97	28.92	101.33	68.04	94.64	54.49
45980	87.30	-20.93	-5.50	161.53	26.23	165.77	63.06	141.00	88.24	161.30	22.68	157.67	58.88	78.18	82.24
45981	86.86	-20.20	-5.50	154.19	25.62	232.87	55.21	153.09	118.80	155.46	18.56	220.86	48.96	66.02	116.31
45982	86.41	-19.48	-5.50	147.15	32.42	303.23	44.68	169.04	147.71	148.86	22.17	288.70	36.91	61.32	146.64
45983	85.97	-18.76	-5.50	138.29	38.99	371.99	35.01	187.17	170.98	139.98	26.25	356.31	25.49	63.91	170.36
45984	86.12	-22.28	-5.50	181.83	21.20	104.87	60.95	137.83	55.31	183.92	20.74	102.95	60.63	82.77	44.22
45985	85.75	-21.52	-5.50	173.21	18.61	168.42	54.35	144.61	80.52	176.06	16.12	163.11	51.77	67.53	75.36
45986	85.39	-20.76	-5.50	163.76	19.50	235.86	47.46	156.61	113.63	166.97	14.09	229.18	42.27	57.69	111.51
45987	85.02	-19.99	-5.50	154.30	27.36	306.51	38.67	172.05	144.09	157.15	19.92	299.62	31.05	55.90	143.10
45988	84.65	-19.23	-5.50	142.99	34.95	375.42	31.29	189.69	167.96	145.14	26.19	369.46	20.65	60.75	167.34
45989	84.46	-22.78	-5.50	193.09	13.40	106.68	49.51	139.89	45.18	199.34	13.24	105.15	50.32	68.75	35.53
45990	84.17	-21.99	-5.50	182.81	12.32	170.69	43.90	147.32	73.40	188.62	10.47	168.38	42.33	55.57	69.71
45991	83.88	-21.20	-5.50	171.52	14.53	238.42	38.51	159.34	109.08	176.61	10.59	236.79	33.87	48.86	107.79
45992	83.59	-20.41	-5.50	159.96	22.93	309.31	32.12	174.41	140.97	163.89	17.97	309.37	24.17	50.36	140.53
45993	83.31	-19.62	-5.50	146.53	31.39	378.36	27.73	191.65	165.36	149.08	26.16	381.02	15.47	57.30	165.18
45994	82.77	-23.17	-5.50	201.57	7.28	108.17	36.38	141.14	35.57	211.49	7.11	107.69	37.54	52.90	28.85
45995	82.56	-22.35	-5.50	189.93	7.90	172.56	32.16	149.21	67.35	198.39	6.87	173.24	30.93	42.51	65.59
45996	82.35	-21.54	-5.50	177.15	10.99	240.50	28.88	161.31	105.39	183.92	8.85	243.42	24.09	39.77	105.38
45997	82.14	-20.72	-5.50	163.90	19.40	311.56	25.67	176.13	138.48	168.77	16.56	317.62	16.56	44.80	139.09
45998	81.94	-19.90	-5.50	148.76	28.60	380.71	24.83	193.09	163.28	151.65	26.23	390.66	10.22	53.61	163.97
45999	81.05	-23.42	-5.50	206.91	3.26	109.28	22.06	141.74	27.25	219.76	3.20	110.30	22.92	35.55	24.42
46000	80.92	-22.59	-5.50	194.28	5.80	173.92	19.82	150.32	62.85	204.84	6.30	177.40	18.12	28.72	63.17
46001	80.80	-21.76	-5.50	180.40	9.01	242.00	19.67	162.54	102.74	188.51	8.94	248.76	13.41	31.00	104.36
46002	80.67	-20.93	-5.50	165.93	17.05	313.16	20.47	177.21	136.69	171.53	15.89	324.06	8.72	39.56	138.78
46003	80.55	-20.10	-5.50	149.57	26.86	382.38	23.15	193.99	161.77	152.70	26.47	398.03	5.75	49.85	163.68
46004	79.32	-23.55	-5.50	208.80	1.75	109.85	7.28	141.78	21.84	223.65	2.46	112.69	7.18	17.27	22.34
46005	79.28	-22.71	-5.50	195.58	5.40	174.63	9.06	150.70	60.34	207.57	7.34	180.57	4.75	15.44	62.51
46006	79.23	-21.87	-5.50	181.06	8.36	242.79	13.86	163.01	101.26	190.08	10.01	252.52	3.56	24.06	104.69
46007	79.19	-21.03	-5.50	165.91	16.19	314.02	18.32	177.63	135.64	171.98	16.03	328.41	3.99	35.30	139.50
46008	79.15	-20.20	-5.50	148.88	26.40	383.29	23.07	194.33	160.82	152.12	26.90	402.86	5.36	46.39	164.24
46009	99.88	-9.79	-6.90	24.84	92.24	145.19	43.16	77.14	167.64	17.04	61.65	264.87	31.63	89.41	171.37
46010	98.96	-9.75	-6.90	35.06	83.43	194.21	42.70	90.12	180.09	26.48	54.33	238.25	36.19	107.75	179.23
46011	98.05	-9.70	-6.90	44.93	75.37	258.79	42.52	109.37	194.59	36.26	47.08	233.86	40.06	112.74	193.88
46012	97.13	-9.66	-6.90	53.27	67.98	324.43	42.86	133.38	210.26	46.07	40.24	246.35	43.07	106.10	211.05
46013	96.21	-9.62	-6.90	60.03	61.97	384.39	43.30	159.17	225.90	56.51	35.06	268.23	44.59	93.29	227.77
46014	99.10	-11.34	-6.90	32.32	89.74	147.36	49.81	88.45	163.42	23.67	62.83	246.97	37.66	99.57	167.23
46015	98.20	-11.21	-6.90	42.16	81.46	198.93	48.07	100.38	176.16	33.52	55.40	226.83	41.02	111.34	174.83
46016	97.30	-11.08	-6.90	51.35	73.90	263.02	46.19	118.37	190.71	43.63	48.11	229.66	43.45	111.99	189.70
46017	96.40	-10.95	-6.90	59.08	67.17	327.47	44.70	140.94	206.41	53.58	41.43	248.41	44.92	103.71	207.15
46018	95.51	-10.82	-6.90	65.27	61.98	386.43	43.47	165.16	222.08	63.68	36.60	275.02	44.99	91.63	224.01
46019	98.21	-12.83	-6.90	41.45	86.49	150.31	56.11	99.92	158.30	31.80	63.00	229.66	43.49	109.44	161.50
46020	97.34	-12.62	-6.90	50.16	79.01	204.03	52.85	110.06	171.47	41.50	55.96	217.37	45.30	114.47	169.43
46021	96.46	-12.41	-6.90	58.31	72.28	267.64	49.32	126.54	186.39	51.39	49.13	227.93	46.16	111.04	184.99
46022	95.59	-12.19	-6.90	65.14	66.40	331.08	46.10	147.60	202.45	60.96	42.96	252.83	46.09	101.32	203.05
46023	94.72	-11.98	-6.90	70.53	62.11	389.22	43.22	170.36	218.40	70.38	38.70	283.84	44.75	90.00	220.28
46024	97.21	-14.25	-6.90	51.87	82.36	153.98	61.79	110.77	152.00	41.19	62.29	214.06	48.95	117.94	153.83
46025	96.37	-13.96	-6.90	59.14	75.96	209.39	57.05	119.21	165.85	50.30	56.15	210.48	49.00	116.96	162.85
46026	95.53	-13.67	-6.90	65.92	70.34	272.63	51.94	134.18	181.44	59.44	50.21	228.87	48.17	109.93	179.56
46027	94.69	-13.37	-6.90	71.57	65.49	335.31	47.07	153.79	198.16	68.17	44.86	259.63	46.53	99.03	198.53
46028	93.85	-13.08	-6.90	75.96	62.15	392.77	42.56	175.30	214.65	76.57	41.36	294.77	43.80	88.59	216.38
46029	96.11	-15.59	-6.90	63.69	77.31	158.29	66.69	121.19	144.65	52.00	60.75	200.59	54.05	124.85	144.38
46030	95.31	-15.22	-6.90	69.21	72.20	214.99	60.62	128.15	159.33	59.97	55.86	206.35	52.25	118.65	155.13
46031	94.51	-14.85	-6.90	74.33	67.88	277.95	54.08	141.75	175.78	67.89	51.13	232.45	49.69	108.61	173.31
46032	93.71	-14.48	-6.90	78.51	64.24	340.06	47.67	160.06	193.33	75.36	46.83	268.78	46.47	96.92	193.37
46033	92.91	-14.11	-6.90	81.62	62.03										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
46061	86.86	-20.20	-6.90	137.47	39.04	308.47	46.18	184.70	125.60	133.56	38.00	292.19	44.68	82.57	120.18
46062	86.41	-19.48	-6.90	129.11	44.78	368.84	37.00	197.92	150.54	127.02	43.57	350.92	35.84	79.39	147.71
46063	85.97	-18.76	-6.90	120.39	51.47	423.47	27.99	212.70	173.49	121.03	50.46	405.38	27.32	82.45	171.97
46064	86.12	-22.28	-6.90	164.78	22.10	192.01	55.20	171.50	66.92	161.73	21.88	186.70	54.35	93.26	50.06
46065	85.75	-21.52	-6.90	155.81	26.86	250.50	47.72	178.65	90.35	152.65	26.72	242.18	46.94	80.53	81.55
46066	85.39	-20.76	-6.90	146.27	33.64	312.07	39.58	189.12	116.68	143.58	33.52	302.72	38.80	74.10	111.90
46067	85.02	-19.99	-6.90	136.01	40.86	372.32	31.37	202.02	143.30	134.57	40.93	363.21	30.58	74.30	140.64
46068	84.65	-19.23	-6.90	125.41	48.97	426.77	23.36	216.27	167.41	126.31	49.67	418.88	22.70	79.82	165.85
46069	84.46	-22.78	-6.90	175.04	14.96	195.29	44.90	173.99	53.98	174.31	15.00	191.90	44.89	76.81	39.32
46070	84.17	-21.99	-6.90	164.60	20.89	253.72	38.54	181.91	80.13	163.15	21.06	249.92	38.45	67.41	73.36
46071	83.88	-21.20	-6.90	153.47	28.97	315.17	31.66	192.55	108.76	151.91	29.38	312.17	31.40	64.98	105.15
46072	83.59	-20.41	-6.90	141.56	37.46	375.30	24.80	205.25	137.04	140.74	38.40	373.91	24.33	68.84	134.99
46073	83.31	-19.62	-6.90	129.33	46.80	429.57	18.20	219.11	162.22	130.50	48.77	430.43	17.58	76.68	160.96
46074	82.77	-23.17	-6.90	182.84	9.30	198.09	33.04	175.56	41.60	184.00	9.39	197.37	33.42	58.38	31.05
46075	82.56	-22.35	-6.90	171.21	16.21	256.45	28.06	184.20	71.32	171.17	16.43	257.00	28.33	53.42	67.27
46076	82.35	-21.54	-6.90	158.80	25.31	317.77	22.74	195.06	102.29	158.16	25.95	320.30	22.84	55.83	100.32
46077	82.14	-20.72	-6.90	145.55	34.82	377.75	17.57	207.66	132.06	145.25	36.24	382.78	17.38	63.42	131.03
46078	81.94	-19.90	-6.90	132.01	45.13	431.83	12.80	221.25	158.13	133.42	47.92	439.75	12.29	73.30	157.52
46079	81.05	-23.42	-6.90	187.85	5.44	200.24	20.08	176.38	30.65	190.28	5.46	202.66	20.48	38.62	25.60
46080	80.92	-22.59	-6.90	175.37	13.06	258.55	16.71	185.61	64.68	176.26	13.21	263.05	17.09	39.80	63.54
46081	80.80	-21.76	-6.90	162.02	22.90	319.73	13.21	196.70	97.67	161.99	23.52	326.77	13.54	47.75	97.58
46082	80.67	-20.93	-6.90	147.80	33.12	379.55	10.10	209.26	128.58	147.84	34.66	389.52	10.22	58.66	128.88
46083	80.55	-20.10	-6.90	133.31	44.13	433.46	7.70	222.68	155.27	134.92	47.23	446.61	7.55	70.04	155.59
46084	79.32	-23.55	-6.90	189.71	3.54	201.41	6.53	176.59	23.24	192.67	3.54	207.19	6.72	20.11	23.12
46085	79.28	-22.71	-6.90	176.75	11.59	259.70	4.94	186.21	60.99	178.00	11.64	267.55	5.34	29.96	62.25
46086	79.23	-21.87	-6.90	162.88	21.85	320.81	3.66	197.44	95.18	163.05	22.30	331.17	4.42	42.65	96.93
46087	79.19	-21.03	-6.90	148.12	32.48	380.54	3.87	210.01	126.70	148.27	33.82	393.80	4.58	55.43	128.47
46088	79.15	-20.20	-6.90	133.13	43.87	434.36	4.97	223.36	153.70	134.84	46.80	450.73	5.80	67.37	155.10
46089	99.88	-9.79	-8.30	22.54	80.88	205.61	38.22	92.79	201.41	17.35	66.36	351.37	33.32	98.08	202.95
46090	98.96	-9.75	-8.30	33.52	73.25	256.64	37.91	105.57	214.16	26.07	61.00	291.50	38.08	107.27	212.23
46091	98.05	-9.70	-8.30	42.17	65.89	324.91	38.74	125.40	228.26	36.18	55.03	267.09	42.58	104.42	226.50
46092	97.13	-9.66	-8.30	47.65	59.01	390.88	41.16	151.88	242.60	49.36	48.99	272.54	46.31	95.05	242.14
46093	96.21	-9.62	-8.30	51.06	52.77	446.67	44.67	181.49	256.45	66.30	43.44	293.55	49.19	88.40	257.13
46094	99.10	-11.34	-8.30	29.07	79.07	210.99	44.14	105.85	195.25	23.99	66.52	326.55	39.41	109.59	196.29
46095	98.20	-11.21	-8.30	39.23	72.23	263.85	42.67	117.81	208.37	33.37	61.01	278.74	43.21	113.38	205.63
46096	97.30	-11.08	-8.30	46.95	65.52	329.96	42.01	136.09	222.57	44.25	55.05	266.17	46.46	107.34	220.27
46097	96.40	-10.95	-8.30	52.02	59.26	393.19	43.02	160.23	237.08	57.85	49.27	279.73	48.88	97.31	236.37
46098	95.51	-10.82	-8.30	55.46	53.59	447.06	45.34	187.08	251.22	74.29	44.15	305.12	50.49	91.14	251.82
46099	98.21	-12.83	-8.30	36.84	76.45	217.31	49.54	118.66	187.75	31.81	65.25	304.29	44.75	120.16	187.45
46100	97.34	-12.62	-8.30	45.44	70.94	271.26	46.55	128.70	201.40	41.27	60.43	269.75	47.19	118.35	197.54
46101	96.46	-12.41	-8.30	51.95	65.38	335.41	44.41	145.05	216.18	52.33	55.26	268.66	49.05	109.47	213.23
46102	95.59	-12.19	-8.30	56.37	60.04	396.46	44.00	166.84	231.35	65.78	50.28	289.36	50.12	98.79	230.34
46103	94.72	-11.98	-8.30	59.50	55.05	448.84	45.10	191.25	246.20	81.46	45.94	318.46	50.50	92.95	246.66
46104	97.21	-14.25	-8.30	45.45	72.87	224.10	54.11	130.33	178.57	40.21	62.81	286.00	49.00	128.86	176.24
46105	96.37	-13.96	-8.30	52.18	69.21	278.62	49.64	138.53	193.04	49.24	59.54	264.65	49.85	122.41	187.77
46106	95.53	-13.67	-8.30	57.22	65.25	341.36	46.01	152.99	208.81	59.89	55.89	274.09	50.18	111.22	205.10
46107	94.69	-13.37	-8.30	60.70	61.14	400.88	44.17	172.69	225.09	72.69	52.24	301.14	49.89	100.07	223.70
46108	93.85	-13.08	-8.30	63.19	56.94	452.14	44.02	195.16	241.07	87.33	48.97	333.64	49.11	94.67	241.31
46109	96.11	-15.59	-8.30	55.15	68.55	231.21	58.03	141.45	168.39	49.25	59.63	271.34	52.40	135.98	163.39
46110	95.31	-15.22	-8.30	59.75	66.95	286.02	52.24	148.15	183.69	57.22	58.48	262.89	51.55	125.82	176.73
46111	94.51	-14.85	-8.30	63.10	64.84	347.81	47.22	161.01	200.56	66.91	56.84	282.07	50.31	112.91	195.95
46112	93.71	-14.48	-8.30	65.34	62.15	406.29	43.98	178.96	218.08	78.67	54.81	315.00	48.73	101.64	216.22
46113	92.91	-14.11	-8.30	66.87	58.89	456.65	42.63	199.77	235.24	92.09	52.62	350.76	46.97	96.86	235.20
46114	94.92	-16.85	-8.30	66.37	63.70	238.63	61.47	152.43	157.59	59.53	56.17	260.27	55.49	141.29	149.29
46115	94.16	-16.41	-8.30	68.67	64.02	293.51	54.61	158.13	173.52	65.79	57.18	264.39	52.97	128.36	164.59
46116	93.40	-15.97	-8.30	70.11	63.75	354.59	48.35	169.75	191.35	73.98	57.59	292.58	50.16	114.42	185.68
46117	92.65	-15.53	-8.30	70.83	62.56	412.30	43.79	186.21	210.05	84.34	57.19	330.92	47.31	103.49	207.60
46118	91.89	-15.08	-8.30	71.15	60.28	461.86	41.23	205.58	228.46	96.48	56.06	369.69	44.61	99.68	228.06
46119	93.63	-18.02	-8.30	79.25	58.20	246.28	64.24	163.08	145.97	71.64	52.32	253.35	58.39	144.01	133.81
46120	92.93	-17.51	-8.30	79.17	60.17	300.97	56.56	168.33	162.27	75.63	55.19	269.25	54.36	129.32	151.22
46121	92.22	-17.00	-8.30	78.50	61.65	361.43	49.27	179.07	180.88	81.82	57.49	305.42	50.04	115.16	174.10
46122	91.52	-16.49	-8.30	77.44	61.98	418.48	43.53	194.25	200.68	90.39	58.70	348.48	45.88	105.17	197.58
46123	90.82	-15.98	-8.30	76.22	60.87	467.32	39.76	212.14	220.34	101.00	58.77	389.87	42.16	102.62	219.49
46124	92.26	-19.09	-8.30	93.43	51.78	253.86	65.70	172.83	133.21	85.57	47.61	250.86	60.56	143.26	117.01
46125	91.62	-18.52	-8.30	90.96	55.19	308.13	57.51	178.13	149.74	86.98	52.01	277.07	55.29	127.92	136.69
46126	90.97	-17.94	-8.30	88.09	58.32	367.99	49.49	188.33	169.09	90.76	56.05	319.87	49.64	114.45	161.26
46127	90.33	-17.37	-8.30	85.03	60.21	424.46	42.82	202.42	190.00	97.18	58.88	366.83	44.26	106.02	186.25
46128	89.68	-16.80	-8.30	82.00	60.34	472.68	38.03	218.89	210.97	105.99	60.23	410.34	39.53	104.95	209.62
46129	90.82	-20.05	-8.30	108.07	44.43	260.98	65.21	181.18	119.30	100.62	41.78	252.27	61.15	138.57	99.42
46130	90.24	-19.42	-8.30	103.34	49.19	314.73	56.84	186.95	136.08	99.40	47.52	286.88	55.02	123.72	121.44
46131	89.65	-18.79	-8.30	98.27	53.93										



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
46159	81.05	-23.42	-8.30	167.56	5.80	289.17	18.20	202.56	29.77	167.43	5.92	292.48	18.21	51.60	21.53
46160	80.92	-22.59	-8.30	154.36	16.49	340.27	15.55	213.05	57.42	156.13	17.31	345.14	15.58	60.49	54.33
46161	80.80	-21.76	-8.30	140.17	28.37	396.88	12.76	224.35	89.59	146.08	30.31	403.62	13.51	72.21	88.15
46162	80.67	-20.93	-8.30	125.70	39.03	450.48	10.03	235.99	122.66	138.70	42.58	459.30	13.06	84.58	121.95
46163	80.55	-20.10	-8.30	111.43	46.90	495.93	7.57	247.62	154.45	135.10	52.56	506.95	14.41	96.32	154.08
46164	79.32	-23.55	-8.30	169.50	4.05	291.14	6.18	202.98	19.56	170.02	4.12	298.94	6.09	40.20	18.45
46165	79.28	-22.71	-8.30	155.88	15.07	342.04	5.83	213.90	52.07	158.50	15.61	350.85	6.24	54.70	52.27
46166	79.23	-21.87	-8.30	141.19	27.27	398.35	5.19	225.40	86.04	148.11	28.72	408.57	8.61	69.15	86.59
46167	79.19	-21.03	-8.30	126.19	38.27	451.64	4.14	237.06	120.01	140.36	41.17	463.54	12.41	82.58	120.59
46168	79.15	-20.20	-8.30	111.42	46.47	496.85	2.94	248.59	152.33	136.41	51.35	510.62	16.63	94.52	152.76
46169	60.69	-9.62	-2.70	113.75	193.48	272.61	97.20	129.90	184.64	791.77	397.73	263.35	275.20	251.76	237.90
46170	59.77	-9.66	-2.70	152.50	188.27	208.66	113.53	107.49	160.42	686.22	439.85	218.62	224.61	198.15	220.49
46171	58.85	-9.70	-2.70	185.68	181.40	198.15	136.16	114.42	149.39	641.32	486.16	304.82	204.09	249.33	293.16
46172	57.94	-9.75	-2.70	223.79	199.41	192.05	171.71	131.44	149.79	589.15	547.55	447.21	202.69	362.40	471.84
46173	57.02	-9.79	-2.70	281.43	327.90	226.65	255.40	163.38	190.98	416.05	530.55	707.61	222.25	653.12	930.77
46174	61.39	-10.82	-2.70	86.84	176.01	192.00	93.36	117.26	141.15	769.15	377.58	199.02	283.89	204.18	178.56
46175	60.50	-10.95	-2.70	112.49	143.09	51.41	89.34	44.22	69.25	634.98	285.21	45.98	281.57	86.95	98.16
46176	59.60	-11.08	-2.70	121.00	140.22	29.09	99.84	32.85	54.43	544.53	229.25	24.87	292.38	76.80	110.05
46177	58.70	-11.21	-2.70	108.47	148.23	18.06	112.29	32.23	46.51	416.12	148.74	27.05	277.40	97.50	158.60
46178	57.80	-11.34	-2.70	55.56	157.79	10.89	95.48	24.88	35.75	163.80	75.44	62.07	141.32	143.28	291.72
46179	62.18	-11.98	-2.70	90.22	173.88	212.35	98.04	129.20	146.00	672.98	346.84	189.41	242.16	170.84	173.51
46180	61.31	-12.19	-2.70	99.25	129.49	61.24	87.53	46.97	62.80	547.05	216.61	52.02	257.86	66.57	79.58
46181	60.44	-12.41	-2.70	102.96	122.23	32.59	87.63	25.51	38.71	449.97	121.69	27.70	265.04	54.38	70.38
46182	59.56	-12.62	-2.70	88.13	121.47	19.36	88.71	25.17	29.19	331.92	33.98	25.69	243.12	69.38	95.15
46183	58.69	-12.83	-2.70	65.24	122.18	12.74	83.42	23.57	24.53	171.74	101.93	36.59	163.22	119.30	167.00
46184	63.05	-13.08	-2.70	101.11	175.62	223.62	101.64	137.05	153.95	585.58	321.05	182.76	194.06	142.75	176.94
46185	62.21	-13.37	-2.70	99.59	121.08	62.64	87.37	51.30	63.60	481.96	182.74	51.03	217.13	55.56	77.87
46186	61.37	-13.67	-2.70	102.27	109.11	32.15	83.04	26.12	35.79	400.09	82.74	26.86	228.04	45.90	58.89
46187	60.53	-13.96	-2.70	91.17	105.88	17.48	83.37	24.61	25.69	308.00	19.12	17.78	218.01	57.46	70.34
46188	59.69	-14.25	-2.70	70.53	105.12	10.32	81.72	22.73	21.72	183.09	127.13	19.29	174.77	86.97	112.84
46189	63.99	-14.11	-2.70	112.01	178.43	235.30	105.25	144.11	173.25	508.63	300.22	188.96	153.46	117.16	185.28
46190	63.19	-14.48	-2.70	105.14	114.22	65.72	88.45	54.79	65.82	431.73	159.52	53.38	179.75	46.59	79.22
46191	62.39	-14.85	-2.70	107.87	98.73	33.84	81.71	28.49	34.87	368.16	63.04	28.83	194.93	40.15	53.21
46192	61.59	-15.22	-2.70	99.07	94.17	18.37	81.76	25.53	24.42	295.02	27.36	18.58	195.40	49.93	55.25
46193	60.79	-15.59	-2.70	81.63	92.94	10.29	82.47	24.00	20.64	197.84	125.99	15.83	174.95	72.69	80.41
46194	65.01	-15.08	-2.70	121.08	180.83	245.27	109.57	144.11	173.25	441.24	282.02	203.84	122.15	94.90	195.32
46195	64.25	-15.53	-2.70	113.55	108.14	68.15	90.16	57.23	68.54	390.47	141.33	57.18	149.33	38.12	81.65
46196	63.50	-15.97	-2.70	117.00	89.53	35.07	81.68	30.92	34.31	344.14	50.71	30.87	166.81	35.11	49.03
46197	62.74	-16.41	-2.70	110.29	84.22	18.98	81.56	27.08	23.34	288.04	30.77	19.28	174.53	44.60	44.02
46198	61.98	-16.85	-2.70	95.16	82.73	10.07	84.03	25.63	19.78	211.98	114.33	13.68	169.46	61.94	58.44
46199	66.08	-15.98	-2.70	128.07	182.86	254.69	115.03	145.10	183.31	382.61	266.94	224.12	99.05	77.51	207.01
46200	65.38	-16.49	-2.70	123.33	102.33	70.39	92.20	59.00	71.44	355.60	126.55	62.08	125.33	30.79	84.58
46201	64.68	-17.00	-2.70	128.27	80.89	36.24	81.97	33.21	33.79	324.81	42.64	33.25	143.57	40.47	65.49
46202	63.97	-17.51	-2.70	123.66	75.07	19.61	81.56	28.74	22.12	283.39	31.53	20.23	155.78	39.96	34.88
46203	63.27	-18.02	-2.70	110.78	73.22	9.89	85.26	27.30	18.77	225.01	99.07	12.51	160.38	53.50	42.03
46204	67.22	-16.80	-2.70	132.96	184.54	263.35	121.67	144.66	193.65	331.80	254.87	246.04	81.85	64.58	219.26
46205	66.57	-17.37	-2.70	133.86	96.63	72.47	94.30	60.28	74.46	326.32	114.83	67.32	106.70	24.90	87.78
46206	65.93	-17.94	-2.70	140.88	72.43	37.30	81.97	35.38	33.22	309.13	37.45	35.65	124.48	26.28	42.98
46207	65.28	-18.52	-2.70	138.49	66.19	20.18	80.94	30.36	20.66	280.46	30.79	21.12	138.97	35.68	27.26
46208	64.64	-19.09	-2.70	127.97	63.79	9.73	85.41	28.82	17.57	237.19	83.08	11.62	149.26	46.13	29.32
46209	68.41	-17.54	-2.70	136.05	185.20	270.93	129.09	143.23	203.34	288.99	244.64	266.87	69.41	55.11	230.88
46210	67.83	-18.17	-2.70	144.65	90.94	74.35	96.17	61.17	77.41	302.47	105.69	72.36	92.20	20.32	90.89
46211	67.25	-18.79	-2.70	154.22	63.99	38.27	81.23	37.39	32.55	296.98	34.18	37.89	108.72	22.53	40.74
46212	66.66	-19.42	-2.70	154.16	57.37	20.71	79.13	31.89	18.95	279.29	28.94	21.91	123.77	31.56	20.90
46213	66.08	-20.05	-2.70	146.12	54.20	9.60	83.86	30.10	16.21	248.93	67.59	10.92	136.75	39.47	19.36
46214	69.65	-18.19	-2.70	137.66	185.15	277.67	136.96	141.15	212.45	254.15	236.16	285.42	60.48	47.90	241.58
46215	69.13	-18.87	-2.70	155.35	85.27	76.04	97.65	61.79	80.18	283.91	98.54	76.86	80.85	16.71	93.69
46216	68.62	-19.55	-2.70	167.72	55.54	39.14	79.52	39.22	31.80	288.30	31.97	39.86	95.44	19.11	38.84
46217	68.10	-20.23	-2.70	170.03	48.60	21.19	75.77	33.27	16.98	279.91	26.24	22.57	109.70	27.51	15.60
46218	67.59	-20.91	-2.70	164.55	44.52	9.49	80.15	31.12	14.74	260.41	53.13	10.36	123.07	33.34	11.60
46219	70.93	-18.76	-2.70	138.23	184.54	283.53	144.87	138.66	220.77	227.01	229.09	300.94	54.25	41.62	250.84
46220	70.49	-19.48	-2.70	165.67	79.83	77.53	98.69	62.19	82.74	270.33	93.00	80.67	71.81	13.63	96.03
46221	70.04	-20.20	-2.70	180.87	47.18	39.91	76.77	40.85	31.01	282.86	30.26	41.51	83.96	15.88	37.17
46222	69.60	-20.93	-2.70	185.50	40.02	21.61	70.69	34.47	14.79	282.15	22.99	23.08	96.27	23.40	11.22
46223	69.16	-21.65	-2.70	182.54	35.01	9.40	74.04	31.89	13.24	271.53	40.01	9.93	108.23	27.58	5.79
46224	72.25	-19.23	-2.70	138.26	183.65	288.49	152.36	135.99	228.12	207.03	223.16	313.11	50.24	35.41	258.30
46225	71.88	-19.99	-2.70	175.35	74.86	78.82	99.27	62.42	85.04	261.19	88.72	83.70	64.45	10.76	97.78
46226	71.51	-20.76	-2.70	193.22	39.08	40.57	73.10	42.24	30.26	280.16	28.81	42.81	73.65	12.69	35.68
46227	71.15	-21.52	-2.70	199.99	31.87	21.97	63.91	35.48	12.42	285.58	19.53	23.47	83.06	19.15	7.69
46228	70.78	-22.28	-2.70	199.36	26.07	9.34	65.47	32.44	11.80	281.93	28.47	9.62	92.17	22.10	2.85
46229	73.59	-19.62	-2.70	138.39	182.80	292.52	158.99	133.42	234.						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
46257	58.70	-11.21	-4.10	65.81	118.13	110.88	84.59	74.21	128.45	29.63	180.17	229.48	47.03	306.96	449.64
46258	57.80	-11.34	-4.10	39.06	130.33	87.72	75.15	61.46	115.38	35.47	193.93	360.21	89.63	381.39	700.94
46259	62.18	-11.98	-4.10	67.79	92.57	275.45	56.93	129.22	165.77	137.72	120.88	225.69	62.52	129.32	191.22
46260	61.31	-12.19	-4.10	53.31	94.66	183.94	72.98	96.98	141.82	156.44	132.01	147.78	60.60	149.88	189.54
46261	60.44	-12.41	-4.10	54.68	97.25	113.40	75.78	65.97	112.44	124.11	112.70	94.78	48.22	167.94	210.55
46262	59.56	-12.62	-4.10	52.74	101.37	71.96	73.01	55.94	92.33	73.30	84.51	92.53	26.50	211.18	283.50
46263	58.69	-12.83	-4.10	47.59	103.51	42.52	67.71	54.16	80.22	13.81	54.83	131.75	15.01	286.85	419.08
46264	63.05	-13.08	-4.10	69.18	87.27	284.50	57.94	135.63	163.98	156.71	98.36	225.58	67.02	111.76	184.62
46265	62.21	-13.37	-4.10	55.37	86.23	189.71	75.44	104.64	137.48	170.31	100.40	151.04	74.74	124.51	172.66
46266	61.37	-13.67	-4.10	56.49	86.01	114.41	76.74	70.73	103.29	143.24	68.21	94.28	72.85	136.82	170.14
46267	60.53	-13.96	-4.10	57.13	88.78	69.60	73.03	57.91	81.64	99.26	26.42	73.68	61.71	168.46	206.63
46268	59.69	-14.25	-4.10	53.46	91.10	38.21	68.96	55.17	70.41	47.42	20.00	84.95	39.85	218.56	283.84
46269	63.99	-14.11	-4.10	74.48	81.60	292.72	58.32	140.91	164.54	166.05	79.99	232.96	65.93	96.33	183.46
46270	63.19	-14.48	-4.10	62.93	78.12	195.63	77.36	111.29	137.45	175.87	79.46	157.43	80.27	104.33	166.42
46271	62.39	-14.85	-4.10	64.60	75.73	117.42	78.94	77.14	100.12	155.05	42.99	98.57	85.23	114.60	148.56
46272	61.59	-15.22	-4.10	66.35	78.48	70.56	75.44	62.77	77.13	120.44	7.94	70.62	82.06	140.07	161.25
46273	60.79	-15.59	-4.10	64.89	82.27	36.66	72.55	59.21	65.86	78.03	52.63	65.19	70.94	179.71	204.13
46274	65.01	-15.08	-4.10	81.67	75.87	300.57	58.72	145.11	166.12	169.21	65.43	247.78	62.10	81.45	184.20
46275	64.25	-15.53	-4.10	72.90	70.80	201.67	78.82	116.51	138.95	176.76	66.49	168.28	81.06	86.44	164.43
46276	63.50	-15.97	-4.10	75.80	66.35	121.13	80.95	83.10	98.61	162.64	30.47	105.44	90.38	96.51	135.15
46277	62.74	-16.41	-4.10	78.73	69.02	72.87	78.07	68.25	74.07	137.10	18.95	73.16	92.46	118.99	131.07
46278	61.98	-16.85	-4.10	78.74	74.21	36.41	76.34	64.31	62.57	104.37	64.00	57.76	88.65	151.40	151.92
46279	66.08	-15.98	-4.10	89.88	70.07	307.98	59.20	148.54	168.07	169.21	53.86	266.96	57.26	68.20	186.14
46280	65.38	-16.49	-4.10	84.20	64.21	207.36	79.73	120.78	140.98	175.83	59.07	181.67	79.42	70.91	164.41
46281	64.68	-17.00	-4.10	88.89	57.65	124.73	82.26	88.55	97.44	168.28	26.04	113.31	91.38	81.19	125.89
46282	63.97	-17.51	-4.10	93.13	59.85	75.29	80.00	73.72	71.01	151.32	23.34	76.81	96.60	101.82	109.14
46283	63.27	-18.02	-4.10	94.55	66.00	36.47	79.23	69.57	59.08	127.73	64.11	53.84	97.63	129.08	114.54
46284	67.22	-16.80	-4.10	98.74	64.14	314.94	59.65	121.36	170.20	167.98	45.13	287.67	52.21	56.85	188.34
46285	66.57	-17.37	-4.10	96.38	58.39	212.70	79.86	154.38	143.15	174.95	55.48	195.87	76.40	57.96	165.36
46286	65.93	-17.94	-4.10	103.22	49.56	128.14	82.45	93.59	96.22	173.69	26.12	121.34	89.79	68.28	119.11
46287	65.28	-18.52	-4.10	108.90	50.69	77.68	80.64	78.97	67.53	164.45	23.02	80.61	96.71	87.32	92.47
46288	64.64	-19.09	-4.10	111.77	57.30	36.77	80.60	74.57	54.97	149.22	58.36	51.23	100.68	110.24	86.57
46289	68.41	-17.54	-4.10	107.80	58.02	321.28	59.88	153.80	172.24	166.69	38.42	307.71	47.33	47.21	190.48
46290	67.83	-18.17	-4.10	108.98	53.48	217.56	78.95	127.48	145.22	175.18	54.26	209.49	72.36	47.32	166.61
46291	67.25	-18.79	-4.10	118.22	42.35	131.29	81.14	98.24	94.81	179.83	28.23	128.86	86.23	57.39	113.87
46292	66.66	-19.42	-4.10	125.45	41.52	79.90	79.53	83.85	63.53	177.39	20.22	84.08	93.85	74.75	79.44
46293	66.08	-20.05	-4.10	129.84	48.10	37.21	79.96	79.08	50.17	169.53	49.67	49.11	99.40	93.78	65.13
46294	69.65	-18.19	-4.10	116.77	51.68	327.00	59.83	155.93	174.14	166.05	33.21	325.84	42.85	39.17	192.34
46295	69.13	-18.87	-4.10	121.58	49.71	221.93	76.92	130.16	147.10	176.92	54.34	221.70	67.45	38.55	167.80
46296	68.62	-19.55	-4.10	133.32	36.54	134.11	78.14	102.44	93.22	187.00	31.18	135.49	80.96	48.04	109.60
46297	68.10	-20.23	-4.10	142.16	32.63	81.92	76.36	88.25	59.07	190.41	16.70	87.03	88.50	63.51	69.04
46298	67.59	-20.91	-4.10	148.11	38.59	37.72	76.95	82.97	44.72	188.89	39.68	47.29	94.58	79.01	48.46
46299	70.93	-18.76	-4.10	125.42	45.13	332.09	59.46	157.74	175.89	166.36	29.13	341.38	38.75	32.52	193.75
46300	70.49	-19.48	-4.10	133.76	47.24	225.78	73.80	132.45	148.80	180.10	55.10	232.08	61.68	31.12	168.68
46301	70.04	-20.20	-4.10	147.96	32.76	136.60	73.38	106.14	91.57	194.99	34.49	141.04	74.06	39.65	105.97
46302	69.60	-20.93	-4.10	158.38	24.56	83.69	71.00	92.09	54.32	203.31	14.26	89.40	80.88	53.03	60.62
46303	69.16	-21.65	-4.10	165.85	29.16	38.24	71.37	86.20	38.74	207.07	29.47	45.71	86.62	65.32	35.43
46304	72.25	-19.23	-4.10	133.52	38.42	336.49	58.80	159.25	177.49	167.63	25.87	353.93	34.94	27.28	194.60
46305	71.88	-19.99	-4.10	145.14	46.08	229.11	69.72	134.34	150.32	184.35	56.11	240.41	55.06	24.68	169.07
46306	71.51	-20.76	-4.10	161.61	31.38	138.74	67.00	109.30	90.00	203.32	37.85	145.44	65.59	31.79	102.75
46307	71.15	-21.52	-4.10	173.50	18.23	85.22	63.48	95.33	49.51	215.59	14.35	91.19	71.12	42.84	53.82
46308	70.78	-22.28	-4.10	182.37	20.26	38.74	63.21	88.81	32.39	223.59	19.82	44.36	75.83	52.24	25.28
46309	73.59	-19.62	-4.10	140.88	31.65	340.12	57.90	160.48	178.93	169.65	23.19	363.32	31.30	23.79	194.84
46310	73.31	-20.41	-4.10	155.37	46.03	231.87	64.99	135.87	151.66	189.12	57.09	246.60	47.61	19.29	168.87
46311	73.02	-21.20	-4.10	173.79	32.07	140.54	59.30	111.89	88.64	211.32	40.94	148.68	55.65	24.17	99.84
46312	72.73	-21.99	-4.10	186.93	14.89	86.51	54.03	90.96	44.96	226.61	16.67	92.42	59.40	32.58	48.39
46313	72.44	-22.78	-4.10	197.01	12.44	39.19	52.62	97.83	25.80	237.81	11.48	43.23	62.47	39.46	17.60
46314	74.96	-19.90	-4.10	147.35	25.03	342.93	56.83	161.46	180.18	172.12	20.93	369.50	27.76	22.55	194.45
46315	74.76	-20.72	-4.10	164.13	46.71	234.01	60.06	137.05	152.81	193.79	57.83	250.64	39.49	15.63	168.05
46316	74.55	-21.54	-4.10	184.06	33.92	141.96	50.88	113.90	87.60	218.29	43.44	150.76	44.48	16.79	97.19
46317	74.34	-22.35	-4.10	198.16	14.87	87.54	43.11	99.98	41.02	235.64	19.65	93.10	45.99	22.07	44.18
46318	74.13	-23.17	-4.10	209.14	6.35	39.57	39.93	92.34	19.15	249.01	5.53	42.31	46.94	27.00	12.18
46319	76.35	-20.10	-4.10	152.79	19.02	344.82	55.68	162.20	181.21	174.68	18.97	372.48	24.26	23.67	193.50
46320	76.23	-20.93	-4.10	171.16	47.73	235.48	55.52	137.92	153.72	197.82	58.14	252.52	30.96	14.79	166.64
46321	76.10	-21.76	-4.10	192.05	35.94	142.95	42.73	115.33	86.96	223.58	45.03	151.67	32.48	10.35	94.81
46322	75.98	-22.59	-4.10	206.72	16.48	88.28	31.62	101.41	38.09	241.99	22.02	93.23	31.38	11.31	41.12
46323	75.85	-23.42	-4.10	218.25	3.26	39.86	25.64	93.40	12.74	256.50	4.21	41.57	29.79	16.00	8.88
46324	77.75	-20.20	-4.10	157.07	14.76	345.72	54.51	162.71	181.96	177.01	17.25	372.28	20.84	26.58	192.00
46325	77.71	-21.03	-4.10	176.22	48.70	236.22	52.10	138.48	154.36	200.68	57.86	252.29	22.61	16.94	164.72
46326	77.67	-21.87	-4.10	197.43	37.42	143.48	36.53	116.19	86.75	226.62	45.47	151.43	20.48	8.17	92.76
46327	77.62	-22.71	-4.10	212.23	17.88	88.69	21.85	102.29	36.59	245.09	23.08				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
46355	64.25	-15.53	-5.50	73.21	62.31	277.23	50.85	136.86	159.11	57.36	42.12	230.25	28.12	126.59	189.28
46356	63.50	-15.97	-5.50	70.02	60.96	208.57	59.43	116.41	137.46	53.14	35.23	181.76	34.62	148.71	186.72
46357	62.74	-16.41	-5.50	69.00	63.37	144.08	63.48	102.08	116.43	49.47	29.56	145.13	37.87	177.26	193.51
46358	61.98	-16.85	-5.50	69.75	66.56	87.33	66.42	96.37	100.75	44.95	34.69	130.52	40.13	212.46	214.94
46359	60.08	-15.98	-5.50	82.06	60.07	351.38	41.35	164.98	176.41	73.35	37.78	300.57	24.14	95.87	191.67
46360	65.38	-16.49	-5.50	82.44	57.61	282.93	51.47	143.49	156.36	73.68	34.82	245.83	34.20	108.05	180.25
46361	64.68	-17.00	-5.50	81.56	54.96	213.78	60.93	123.96	133.62	72.75	29.75	193.86	44.23	126.21	169.02
46362	63.97	-17.51	-5.50	83.28	57.02	148.51	66.01	110.03	111.28	71.58	30.38	151.31	50.52	150.77	161.94
46363	63.27	-18.02	-5.50	84.87	60.47	89.85	70.04	104.31	94.73	69.09	41.33	125.76	55.02	181.34	165.26
46364	67.22	-16.80	-5.50	89.97	56.42	357.09	41.44	170.27	174.09	85.73	34.11	319.97	26.78	83.51	187.71
46365	66.57	-17.37	-5.50	92.87	52.72	288.49	51.66	149.68	153.47	89.33	31.86	262.16	38.84	92.61	173.18
46366	65.93	-17.94	-5.50	94.36	48.72	218.94	61.60	131.08	129.51	91.11	28.23	206.27	50.78	107.62	155.64
46367	65.28	-18.52	-5.50	97.98	50.19	153.06	67.36	117.61	105.61	92.64	31.27	158.22	58.77	128.86	138.36
46368	64.64	-19.09	-5.50	101.36	53.51	92.88	72.15	111.82	87.96	92.88	42.58	123.68	64.70	155.34	128.42
46369	68.41	-17.54	-5.50	98.53	52.58	362.41	41.11	175.17	171.61	97.20	32.60	338.88	28.25	72.97	184.16
46370	67.83	-18.17	-5.50	103.95	47.60	293.68	51.00	155.42	150.37	103.75	30.49	277.86	41.15	79.67	167.27
46371	67.25	-18.79	-5.50	107.85	42.20	223.77	60.95	137.69	125.03	108.29	27.05	217.95	53.97	92.07	145.02
46372	66.66	-19.42	-5.50	113.42	42.85	157.38	67.04	124.62	99.28	112.72	29.87	164.75	62.84	110.33	120.14
46373	66.08	-20.05	-5.50	118.62	45.71	96.01	72.21	118.61	80.30	115.94	39.66	122.49	69.62	132.95	100.38
46374	69.65	-18.19	-5.50	107.28	48.52	367.26	40.16	179.61	169.07	107.70	31.98	356.21	28.45	64.02	180.84
46375	69.13	-18.87	-5.50	115.18	42.31	298.38	49.25	160.60	147.15	117.12	29.20	292.05	41.31	68.61	162.12
46376	68.62	-19.55	-5.50	121.48	35.52	228.14	58.71	143.65	120.29	124.51	25.13	228.30	54.17	78.66	136.24
46377	68.10	-20.23	-5.50	128.99	35.19	161.31	64.69	130.89	92.40	131.88	26.54	170.44	63.26	94.06	105.63
46378	67.59	-20.91	-5.50	135.97	37.37	99.00	69.89	124.48	71.81	138.13	34.11	121.55	70.36	112.97	78.56
46379	70.93	-18.76	-5.50	115.87	44.33	371.58	38.53	183.50	166.62	117.34	31.52	371.29	27.47	56.47	177.70
46380	70.49	-19.48	-5.50	126.12	36.98	302.54	46.29	165.15	144.00	129.51	27.49	304.24	39.56	58.91	157.51
46381	70.04	-20.20	-5.50	134.69	28.95	231.98	54.72	148.87	115.53	139.71	22.52	237.03	51.72	66.57	128.80
46382	69.60	-20.93	-5.50	144.05	27.55	164.75	60.18	136.31	85.26	149.93	22.07	175.10	60.41	79.10	93.86
46383	69.16	-21.65	-5.50	152.74	28.89	101.72	65.03	129.40	62.71	159.02	27.16	120.63	67.29	94.40	61.36
46384	72.25	-19.23	-5.50	123.98	40.14	375.32	36.23	186.82	164.43	126.11	30.93	383.76	25.40	50.31	174.73
46385	71.88	-19.99	-5.50	136.36	31.78	306.14	42.15	169.02	141.12	140.81	25.36	314.21	36.09	50.31	153.34
46386	71.51	-20.76	-5.50	147.01	22.80	235.29	49.01	153.29	111.04	153.64	19.61	244.03	46.87	55.27	122.45
46387	71.15	-21.52	-5.50	158.05	20.36	167.72	53.51	140.86	78.21	166.42	17.34	178.69	54.60	64.73	84.28
46388	70.78	-22.28	-5.50	168.27	20.78	104.09	57.65	133.38	53.24	178.06	19.81	119.66	60.74	76.45	47.82
46389	73.59	-19.62	-5.50	131.33	36.11	378.44	33.38	189.54	162.65	133.92	30.15	393.43	22.37	45.72	171.96
46390	73.31	-20.41	-5.50	145.55	26.93	309.14	36.99	172.18	138.70	150.80	22.99	321.84	31.11	42.87	149.58
46391	73.02	-21.20	-5.50	157.99	17.42	238.07	41.76	156.89	107.13	165.89	16.84	249.28	39.92	44.49	117.04
46392	72.73	-21.99	-5.50	170.47	14.10	170.22	44.84	144.51	71.69	180.83	13.21	181.23	46.16	50.45	76.61
46393	72.44	-22.78	-5.50	181.97	13.53	106.13	47.92	136.48	43.72	194.59	12.93	118.61	51.09	58.55	37.43
46394	74.96	-19.90	-5.50	137.70	32.44	380.88	30.23	191.67	161.37	140.60	29.26	400.21	18.54	43.03	169.44
46395	74.76	-20.72	-5.50	153.36	22.65	311.51	31.14	174.64	136.88	159.19	20.64	327.12	24.87	37.03	146.24
46396	74.55	-21.54	-5.50	167.22	13.16	240.30	33.30	159.67	104.03	176.04	14.55	252.80	31.20	34.45	112.53
46397	74.34	-22.35	-5.50	180.82	9.31	172.25	34.49	147.30	66.17	192.63	10.38	182.75	35.52	36.06	70.65
46398	74.13	-23.17	-5.50	193.33	7.63	107.81	36.16	138.78	34.59	207.96	7.31	117.49	38.83	40.36	29.89
46399	76.35	-20.10	-5.50	142.86	29.40	382.55	27.13	193.17	160.63	145.99	28.35	404.06	14.11	42.40	167.26
46400	76.23	-20.93	-5.50	159.52	19.22	313.17	25.21	176.36	135.75	165.69	18.55	330.00	17.68	33.53	143.39
46401	76.10	-21.76	-5.50	174.34	10.27	241.90	24.28	161.61	101.94	183.69	12.78	254.56	21.14	26.11	108.91
46402	75.98	-22.59	-5.50	188.69	6.52	173.75	22.96	149.23	62.15	201.30	8.99	183.22	23.19	21.85	66.32
46403	75.85	-23.42	-5.50	201.84	3.57	109.06	22.80	140.37	26.66	217.58	3.82	116.23	24.55	21.80	25.00
46404	77.75	-20.20	-5.50	146.64	27.29	383.37	24.54	194.06	160.45	149.89	27.53	404.93	9.37	43.70	165.49
46405	77.71	-21.03	-5.50	163.76	16.96	314.03	20.32	177.36	135.33	170.02	16.95	330.42	9.98	33.00	141.09
46406	77.67	-21.87	-5.50	179.02	8.75	242.76	16.32	162.71	100.99	188.45	11.34	254.49	10.35	21.87	106.26
46407	77.62	-22.71	-5.50	193.70	5.56	174.57	11.59	150.35	60.11	206.38	8.26	182.52	9.84	10.75	63.59
46408	77.58	-23.55	-5.50	207.09	1.84	109.78	8.45	141.34	21.63	222.92	2.80	114.67	8.97	4.65	22.53
46409	60.69	-9.62	-6.90	158.82	64.39	403.85	55.70	148.68	209.80	710.77	86.29	295.33	221.20	236.73	278.37
46410	59.77	-9.66	-6.90	176.61	72.38	351.59	70.23	128.95	194.79	767.34	118.26	298.85	270.02	278.19	327.24
46411	58.85	-9.70	-6.90	197.81	84.24	290.40	89.15	121.37	179.09	818.30	169.07	420.23	334.04	345.89	425.99
46412	57.94	-9.75	-6.90	223.02	108.28	220.27	117.64	125.47	165.04	867.00	280.63	649.02	432.94	479.29	624.44
46413	57.02	-9.79	-6.90	247.29	204.30	137.84	176.16	130.64	160.89	909.51	686.13	939.06	645.16	765.20	1064.87
46414	61.39	-10.82	-6.90	112.49	65.08	397.91	50.51	151.69	213.09	501.74	94.39	295.82	213.12	237.91	274.96
46415	60.50	-10.95	-6.90	112.97	72.28	345.34	63.44	126.45	199.55	502.71	130.69	270.07	257.42	278.69	319.89
46416	59.60	-11.08	-6.90	107.74	83.36	287.01	76.69	106.36	185.22	470.84	185.15	303.80	301.61	330.00	404.12
46417	58.70	-11.21	-6.90	87.39	100.49	225.60	85.29	92.19	170.16	367.75	268.75	417.93	322.31	391.99	546.89
46418	57.80	-11.34	-6.90	31.15	109.88	170.01	62.66	79.02	151.96	104.28	317.17	560.24	208.68	437.43	768.94
46419	62.18	-11.98	-6.90	83.19	64.54	392.85	41.03	158.21	212.09	340.24	92.60	295.23	168.11	222.98	261.03
46420	61.31	-12.19	-6.90	76.76	68.90	338.04	49.15	133.51	198.13	314.96	120.59	259.61	189.32	259.82	293.90
46421	60.44	-12.41	-6.90	66.14	74.33	278.37	54.73	112.89	183.07	265.91	152.62	248.02	199.55	303.64	353.88
46422	59.56	-12.62	-6.90	50.33	78.63	217.75	54.53	99.33	167.35	186.30	177.85	285.96	180.53	354.48	449.08
46423	58.69	-12.83	-6.90	39.40	78.88	161.27	50.21	93.36	151.48	118.66	178.45	380.57	130.57	409.23	585.28
46424	63.05	-13.08	-6.90	69.80	63.49	391.93	33.94	165.44	208.65	233.74	78.97	298.68	121.61	198.78	244.31

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
46453	66.08	-20.05	-6.90	105.84	43.02	176.26	63.38	150.23	100.88	88.71	35.87	213.67	53.06	165.99	121.27
46454	69.65	-18.19	-6.90	95.13	57.61	419.11	28.76	205.00	176.34	100.10	48.82	398.64	32.09	94.18	183.41
46455	69.13	-18.87	-6.90	102.24	51.40	363.90	37.43	188.93	155.00	99.44	44.53	350.54	35.47	100.69	165.13
46456	68.62	-19.55	-6.90	109.33	45.67	303.04	45.94	174.65	131.88	100.92	40.26	299.99	41.33	111.01	143.65
46457	68.10	-20.23	-6.90	115.90	40.06	240.83	54.28	163.65	109.46	103.90	35.42	252.46	48.35	125.01	120.30
46458	67.59	-20.91	-6.90	122.12	35.96	181.81	61.90	157.13	89.49	108.34	31.72	214.49	55.05	143.17	94.74
46459	70.93	-18.76	-6.90	103.10	55.19	423.21	27.15	209.99	170.28	105.89	48.73	414.21	29.28	85.18	176.57
46460	70.49	-19.48	-6.90	112.20	47.64	368.27	35.17	194.70	147.73	109.04	42.63	363.99	33.48	88.97	156.15
46461	70.04	-20.20	-6.90	121.24	40.59	307.60	43.08	180.96	123.03	114.16	36.96	310.42	39.89	96.38	131.64
46462	69.60	-20.93	-6.90	129.72	33.71	245.60	50.84	170.01	98.87	120.41	30.95	258.77	47.16	107.17	104.29
46463	69.16	-21.65	-6.90	137.75	28.54	186.72	57.92	162.83	77.47	127.66	26.27	215.02	53.88	121.66	73.49
46464	72.25	-19.23	-6.90	110.66	52.59	426.74	24.58	214.21	164.79	112.54	48.39	427.29	26.16	77.69	170.50
46465	71.88	-19.99	-6.90	121.54	43.80	372.03	31.56	199.56	141.03	118.88	40.44	375.14	30.34	78.50	148.34
46466	71.51	-20.76	-6.90	132.34	35.54	311.52	38.48	186.24	114.65	127.03	33.27	318.91	36.47	82.66	121.49
46467	71.15	-21.52	-6.90	142.50	27.48	249.70	45.30	175.26	88.43	136.03	25.99	263.72	43.28	89.96	91.19
46468	70.78	-22.28	-6.90	152.13	21.31	190.94	51.50	167.40	65.11	145.67	20.23	215.09	49.51	100.60	56.53
46469	73.59	-19.62	-6.90	117.50	50.01	429.67	21.12	217.66	160.17	119.11	47.87	437.68	22.46	71.83	165.31
46470	73.31	-20.41	-6.90	129.93	40.16	375.18	26.70	203.52	135.29	128.05	38.19	383.91	25.94	69.36	141.73
46471	73.02	-21.20	-6.90	142.23	30.86	314.84	32.27	190.51	107.22	138.69	29.56	325.46	31.12	69.73	113.09
46472	72.73	-21.99	-6.90	153.82	21.81	253.18	37.81	179.46	78.71	149.96	21.10	267.35	36.90	73.05	80.69
46473	72.44	-22.78	-6.90	164.78	14.79	194.56	42.84	170.95	52.73	161.58	14.34	214.72	42.18	79.49	43.31
46474	74.96	-19.90	-6.90	123.37	47.66	431.98	16.93	220.33	156.65	124.99	47.32	445.32	18.18	67.82	161.09
46475	74.76	-20.72	-6.90	137.05	36.97	377.72	20.78	206.57	130.81	135.97	36.16	390.27	20.39	61.93	136.37
46476	74.55	-21.54	-6.90	150.56	26.90	317.57	24.69	193.77	101.21	148.56	26.27	330.10	24.08	57.97	106.41
46477	74.34	-22.35	-6.90	163.29	17.11	256.10	28.65	182.62	70.34	161.62	16.83	269.72	28.35	56.51	72.62
46478	74.13	-23.17	-6.90	175.28	9.42	197.60	32.28	173.54	40.79	174.79	9.29	213.94	32.30	58.11	33.55
46479	76.35	-20.10	-6.90	128.07	45.74	433.60	12.26	222.19	154.37	129.76	46.88	450.11	13.49	65.81	157.93
46480	76.23	-20.93	-6.90	142.63	34.51	379.56	14.08	208.68	127.83	142.21	34.63	394.14	14.02	56.83	132.32
46481	76.10	-21.76	-6.90	156.99	23.94	319.63	16.05	196.02	97.03	156.18	23.78	332.74	15.77	48.37	101.45
46482	75.98	-22.59	-6.90	170.53	13.70	258.35	18.21	184.78	64.10	170.49	13.62	270.74	18.14	41.25	66.86
46483	75.85	-23.42	-6.90	183.22	5.61	199.95	20.22	175.28	30.15	184.72	5.61	212.66	20.42	36.75	27.05
46484	77.75	-20.20	-6.90	131.37	44.42	434.42	7.60	223.20	153.39	133.11	46.67	451.93	8.84	65.78	155.91
46485	77.71	-21.03	-6.90	146.39	32.96	380.55	7.13	209.83	126.45	146.39	33.81	395.36	7.47	54.63	129.66
46486	77.67	-21.87	-6.90	161.19	22.21	320.77	6.77	197.24	94.97	161.11	22.40	333.18	6.82	42.71	98.26
46487	77.62	-22.71	-6.90	175.12	11.82	259.63	6.88	185.95	60.79	176.07	11.81	270.12	6.86	30.38	63.38
46488	77.58	-23.55	-6.90	188.15	3.62	201.31	7.11	176.25	23.06	190.81	3.65	210.52	7.18	18.39	23.61
46489	60.69	-9.62	-8.30	196.55	53.95	471.26	71.71	167.48	240.03	1012.32	74.12	332.66	334.07	324.55	320.84
46490	59.77	-9.66	-8.30	229.08	62.89	421.31	90.81	137.08	225.10	1128.46	115.70	322.29	406.90	317.44	368.21
46491	58.85	-9.70	-8.30	269.41	78.29	356.27	118.88	116.69	208.51	1253.67	188.43	423.93	508.85	345.56	453.96
46492	57.94	-9.75	-8.30	316.70	115.67	271.15	162.85	115.06	191.30	1374.38	358.39	697.24	667.89	415.75	625.60
46493	57.02	-9.79	-8.30	351.91	262.67	156.47	246.74	125.35	180.67	1421.63	975.82	1121.55	978.08	686.53	1040.92
46494	61.39	-10.82	-8.30	131.00	57.49	462.78	62.71	175.31	240.35	702.74	95.07	332.41	312.86	315.14	314.97
46495	60.50	-10.95	-8.30	135.87	66.22	413.43	76.68	146.16	226.37	708.45	145.29	309.55	370.23	343.48	361.48
46496	59.60	-11.08	-8.30	132.67	80.20	353.08	92.57	121.54	211.17	666.50	224.30	337.66	428.13	373.61	438.89
46497	58.70	-11.21	-8.30	108.05	103.11	283.64	102.39	104.82	195.02	519.72	344.06	454.01	450.33	407.24	562.48
46498	57.80	-11.34	-8.30	27.71	111.68	217.17	64.52	93.48	178.19	122.71	396.65	618.03	259.84	433.20	757.14
46499	62.18	-11.98	-8.30	89.54	58.09	456.76	48.74	182.05	238.79	484.87	99.33	334.17	249.81	290.91	297.97
46500	61.31	-12.19	-8.30	83.78	63.37	406.90	54.59	155.79	224.59	446.37	138.32	306.56	272.43	320.75	334.28
46501	60.44	-12.41	-8.30	71.49	69.31	347.94	58.27	133.61	209.29	369.82	184.65	302.15	278.13	352.36	393.29
46502	59.56	-12.62	-8.30	51.31	73.05	283.80	54.36	118.70	193.30	248.59	219.99	345.91	240.78	385.13	478.75
46503	58.69	-12.83	-8.30	37.51	69.93	222.48	44.64	110.89	177.50	150.24	216.07	447.72	159.60	418.04	592.55
46504	63.05	-13.08	-8.30	68.39	57.84	454.91	38.00	188.05	235.36	349.38	88.21	341.01	189.80	256.51	277.17
46505	62.21	-13.37	-8.30	62.21	60.02	404.53	40.14	164.05	220.06	308.43	112.21	311.42	193.50	283.39	299.78
46506	61.37	-13.67	-8.30	53.98	60.91	345.73	41.27	143.89	203.82	250.91	133.25	293.70	184.69	311.77	338.80
46507	60.53	-13.96	-8.30	44.88	59.97	282.57	41.22	130.25	187.25	183.71	144.84	305.92	159.89	340.77	395.25
46508	59.69	-14.25	-8.30	33.89	56.61	225.24	40.35	123.48	171.24	102.65	139.26	356.79	116.56	368.13	467.27
46509	63.99	-14.11	-8.30	59.66	58.62	456.72	31.97	194.15	230.32	266.94	75.62	353.55	146.00	222.76	258.38
46510	63.19	-14.48	-8.30	55.44	59.14	406.30	33.47	172.00	213.72	232.05	89.15	322.76	142.02	245.23	267.78
46511	62.39	-14.85	-8.30	50.77	58.09	347.66	35.53	153.42	196.19	189.49	98.87	298.60	131.61	269.91	288.42
46512	61.59	-15.22	-8.30	45.54	55.53	285.18	38.25	140.79	178.64	140.18	101.61	293.95	113.56	296.61	321.07
46513	60.79	-15.59	-8.30	40.11	51.75	228.43	41.51	134.86	162.06	89.63	94.70	319.29	87.27	325.33	364.24
46514	65.01	-15.08	-8.30	57.88	59.99	460.85	29.23	201.01	224.03	215.66	66.29	370.73	115.27	193.83	242.08
46515	64.25	-15.53	-8.30	55.85	59.64	410.86	31.42	180.44	206.06	186.40	73.81	338.71	108.70	212.21	241.31
46516	63.50	-15.97	-8.30	53.92	57.49	352.63	34.99	163.23	187.32	153.22	77.66	310.26	98.92	233.33	247.51
46517	62.74	-16.41	-8.30	51.93	53.88	290.67	39.86	151.40	168.89	117.46	76.27	295.80	86.01	257.41	261.64
46518	61.98	-16.85	-8.30	49.49	49.51	234.26	45.43	145.88	151.89	80.37	68.91	305.54	70.36	284.60	282.81
46519	66.08	-15.98	-8.30	60.08	61.12	466.12	28.38	208.31	216.36	182.97	60.53	390.81	93.56	170.83	227.94
46520	65.38	-16.49	-8.30	60.33	60.01	416.74	31.66	189.35	197.08	158.62	64.65	357.27	86.75	185.60	219.57
46521	64.68	-17.00	-8.30	60.91	56.89	359.08	36.63	173.36	177.26	132.71	65.34	325.09	78.77	203.46	215.18
46522	63.97	-17.51	-8.30	61.54	52.29	297.77	42.99	162.15	158.17	105.85					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
46551	73.02	-21.20	-8.30	122.29	35.45	391.11	28.00	218.13	104.58	135.58	34.71	399.49	34.04	98.01	106.31
46552	72.73	-21.99	-8.30	134.55	24.34	333.35	33.20	207.09	77.97	140.09	24.15	348.65	35.65	99.13	75.33
46553	72.44	-22.78	-8.30	146.12	14.17	281.29	38.19	197.57	57.63	146.36	14.25	306.73	38.56	102.21	43.91
46554	74.96	-19.90	-8.30	102.95	49.93	494.48	14.64	245.51	157.34	135.79	50.61	502.62	32.02	96.87	159.29
46555	74.76	-20.72	-8.30	116.30	42.29	448.48	17.74	233.50	126.79	136.63	42.15	457.46	28.31	91.04	129.32
46556	74.55	-21.54	-8.30	129.88	31.81	394.25	21.33	221.67	95.53	140.97	31.48	405.31	26.51	85.98	97.54
46557	74.34	-22.35	-8.30	143.26	20.02	336.99	25.13	210.44	66.22	147.94	19.87	351.88	27.09	82.22	64.95
46558	74.13	-23.17	-8.30	155.82	9.32	285.40	28.78	200.27	43.07	156.42	9.37	306.26	29.18	80.18	31.96
46559	76.35	-20.10	-8.30	107.09	48.09	496.08	9.80	247.53	153.72	136.53	50.38	508.38	26.20	94.38	155.36
46560	76.23	-20.93	-8.30	121.35	40.01	450.51	11.70	235.84	122.07	139.07	40.94	462.45	21.81	85.59	124.30
46561	76.10	-21.76	-8.30	135.83	29.08	396.78	13.83	224.11	89.13	145.27	29.29	409.10	18.65	76.41	91.33
46562	75.98	-22.59	-8.30	150.06	16.90	340.06	15.98	212.70	57.08	154.08	16.88	353.77	17.59	67.42	57.65
46563	75.85	-23.42	-8.30	163.32	5.89	288.87	18.01	202.01	29.53	164.18	5.90	305.32	18.33	59.38	23.74
46564	77.75	-20.20	-8.30	109.97	46.87	496.91	4.88	248.57	152.07	136.84	50.60	511.10	20.92	93.72	153.20
46565	77.71	-21.03	-8.30	124.74	38.61	451.65	5.65	237.04	119.81	140.45	40.59	464.59	16.04	82.77	121.40
46566	77.67	-21.87	-8.30	139.73	27.52	398.31	6.30	225.36	85.89	147.82	28.35	410.37	11.47	70.48	87.68
46567	77.62	-22.71	-8.30	154.43	15.22	341.96	6.54	213.84	51.97	157.80	15.44	353.70	8.03	57.16	53.40
46568	77.58	-23.55	-8.30	168.07	4.10	291.03	6.40	202.85	19.47	168.92	4.11	303.19	6.55	43.36	19.20
46569	90.14	9.49	-8.30	77.39	31.84	543.47	54.44	312.35	311.67	180.40	46.33	411.16	50.88	175.95	312.01
46570	91.17	9.44	-8.30	73.55	33.35	551.93	55.80	298.65	307.86	165.52	41.88	400.70	52.67	162.94	308.32
46571	92.21	9.39	-8.30	68.92	35.39	553.43	55.99	283.08	302.47	149.46	38.23	386.70	53.52	146.92	303.11
46572	90.36	10.47	-8.30	74.56	35.77	550.56	52.07	297.99	302.47	167.39	46.11	419.88	48.45	161.73	302.95
46573	91.26	10.33	-8.30	71.86	36.85	553.01	53.33	286.48	299.16	155.67	42.39	407.06	50.34	150.60	299.77
46574	92.15	10.18	-8.30	68.58	38.19	550.56	53.84	274.03	294.83	143.29	39.26	391.99	51.66	138.03	295.64
46575	90.56	11.46	-8.30	72.24	40.57	552.10	49.28	282.32	292.53	154.06	46.50	425.37	46.15	146.33	293.21
46576	91.33	11.21	-8.30	70.55	40.97	550.29	50.57	273.63	290.33	145.60	43.50	411.18	48.06	138.09	291.12
46577	92.08	10.96	-8.30	68.35	41.31	545.70	51.36	263.95	287.18	136.24	40.75	396.00	49.78	128.75	288.13
46578	79.02	9.89	-8.30	51.29	26.41	392.55	14.94	364.30	308.27	288.83	83.24	421.76	26.14	155.42	310.27
46579	80.15	9.88	-8.30	55.28	26.64	396.46	16.82	363.53	309.49	280.97	81.41	423.90	20.78	164.35	311.08
46580	81.29	9.86	-8.30	60.66	26.91	404.64	20.50	362.26	310.74	272.97	79.00	425.75	18.74	172.75	311.97
46581	82.41	9.83	-8.30	66.55	27.22	416.72	25.17	360.39	311.99	264.58	76.15	427.27	20.42	180.34	312.93
46582	83.53	9.80	-8.30	72.17	27.59	432.15	30.24	357.79	313.17	255.52	72.89	428.37	24.59	186.76	313.88
46583	84.65	9.76	-8.30	76.89	28.01	450.28	35.36	354.22	314.20	245.55	69.24	428.90	29.78	191.61	314.74
46584	85.76	9.71	-8.30	80.22	28.51	470.27	40.28	349.39	314.96	234.50	65.21	428.64	35.11	194.40	315.38
46585	86.87	9.66	-8.30	81.89	29.11	491.05	44.82	342.96	315.30	222.30	60.81	427.22	40.12	194.61	315.64
46586	87.97	9.60	-8.30	81.85	29.82	511.30	48.83	334.65	315.01	209.06	56.08	424.15	44.55	191.75	315.32
46587	89.07	9.54	-8.30	80.27	30.67	529.41	52.13	324.36	313.88	194.98	51.14	418.86	48.21	185.52	314.19
46588	79.05	11.68	-8.30	48.22	26.52	439.09	14.37	346.87	300.50	258.08	76.40	466.41	27.50	150.41	302.35
46589	80.25	11.64	-8.30	52.49	26.98	441.99	16.26	346.32	301.68	252.21	75.53	467.25	21.28	158.23	303.16
46590	81.44	11.58	-8.30	58.10	27.61	448.53	19.82	345.31	302.88	246.09	74.11	467.21	17.94	165.64	304.07
46591	82.61	11.50	-8.30	64.10	28.41	458.33	24.28	343.70	304.06	239.44	72.16	466.22	18.54	172.25	305.00
46592	83.77	11.40	-8.30	69.65	29.35	470.85	29.09	341.34	305.13	232.01	69.70	464.22	22.21	177.69	305.88
46593	84.92	11.28	-8.30	74.13	30.39	485.41	33.93	338.00	306.00	223.58	66.75	461.07	27.22	181.50	306.60
46594	86.05	11.15	-8.30	77.13	31.49	501.13	38.58	333.33	306.54	214.00	63.31	456.56	32.49	183.18	307.03
46595	87.17	10.99	-8.30	78.48	32.58	516.91	42.89	327.02	306.61	203.31	59.39	450.39	37.47	182.21	307.03
46596	88.28	10.82	-8.30	78.28	33.64	531.43	46.71	318.86	306.04	191.71	55.05	442.20	41.93	178.22	306.44
46597	89.37	10.63	-8.30	76.85	34.65	543.19	49.90	308.88	304.68	179.49	50.42	431.64	45.72	171.13	305.11
46598	79.08	13.48	-8.30	47.75	30.35	490.40	11.12	327.96	287.92	224.94	70.72	515.67	29.22	143.95	289.21
46599	80.33	13.42	-8.30	51.76	30.75	492.04	13.24	327.51	289.18	220.83	70.71	515.02	22.17	150.32	290.30
46600	81.56	13.32	-8.30	56.97	31.56	496.20	16.96	326.56	290.57	216.47	70.06	512.53	17.49	156.41	291.52
46601	82.78	13.19	-8.30	62.48	32.69	502.55	21.49	325.00	292.02	211.57	68.82	508.19	16.65	161.73	292.82
46602	83.98	13.03	-8.30	67.53	34.05	510.63	26.33	322.70	293.42	205.90	67.01	502.00	19.57	165.90	294.10
46603	85.15	12.83	-8.30	71.53	35.50	519.85	31.18	319.41	294.64	199.24	64.65	493.88	24.38	168.46	295.22
46604	86.31	12.61	-8.30	74.15	36.91	529.49	35.82	314.85	295.51	191.51	61.75	483.78	29.64	168.94	296.03
46605	87.44	12.35	-8.30	75.27	38.17	538.60	40.08	308.72	295.85	182.76	58.32	471.60	34.69	166.88	296.34
46606	88.56	12.06	-8.30	75.08	39.18	546.08	43.86	300.88	295.47	173.23	54.42	457.28	39.25	162.04	295.98
46607	89.64	11.74	-8.30	73.86	39.92	550.76	47.09	291.47	294.27	163.19	50.20	440.87	43.26	154.51	294.86
46608	79.10	15.28	-8.30	53.21	39.01	536.00	6.73	308.31	268.39	190.98	67.83	559.01	29.81	135.72	268.94
46609	80.40	15.20	-8.30	56.35	39.18	536.42	8.99	307.82	269.75	188.42	68.31	556.95	22.61	140.71	270.31
46610	81.67	15.07	-8.30	60.30	39.87	537.95	12.94	306.74	271.46	185.63	68.15	551.98	17.14	145.31	271.99
46611	82.92	14.90	-8.30	64.46	40.93	540.33	17.61	304.99	273.45	182.38	67.37	544.14	15.09	149.13	273.94
46612	84.16	14.67	-8.30	68.25	42.21	543.25	22.57	302.49	275.58	178.46	66.00	533.52	17.22	151.82	276.03
46613	85.36	14.40	-8.30	71.20	43.51	546.34	27.54	299.06	277.69	173.70	64.06	520.21	21.82	152.99	278.13
46614	86.54	14.08	-8.30	73.02	44.67	549.10	32.30	294.48	279.57	168.01	61.56	504.36	27.12	152.28	280.04
46615	87.69	13.72	-8.30	73.65	45.54	550.97	36.65	288.53	280.98	161.44	58.54	486.16	32.27	149.37	281.50
46616	88.81	13.31	-8.30	73.24	46.02	551.27	40.47	281.13	281.65	154.14	55.03	465.95	36.96	144.18	282.27
46617	89.90	12.86	-8.30	72.06	46.09	549.33	43.73	272.47	281.34	146.33	51.10	444.21	41.13	136.95	282.09
46618	79.12	17.07	-8.30	67.50	48.50	558.78	3.20	287.79	239.53	160.27	66.47	578.97	27.88	124.90	239.57
46619	80.44	16.99	-8.30	69.41	48.50	558.33	5.73	287.17	240.96	158.77	67.16	575.95	21.39	128.48	241.00
46620	81.75	16.84	-8.30	71.48	48.98	557.71	9.94	285.84	243.05	157.11	67.33	569.26	16.37	131.66	243.08
46621	83.0														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
46649	90.81	12.43	-8.30	70.62	45.73	545.84	46.11	264.33	280.49	139.31	47.60	424.83	44.32	129.59	281.39
46650	92.31	13.54	-8.30	67.47	54.62	495.55	43.22	220.16	251.56	106.04	49.64	378.78	46.04	100.23	252.38
46651	91.93	12.78	-8.30	68.09	50.01	523.24	45.24	239.44	266.92	119.64	46.74	396.72	46.03	109.97	268.00
46652	91.55	12.03	-8.30	69.24	45.26	541.27	47.73	257.74	279.61	133.36	44.78	408.32	46.59	123.76	280.60
46653	93.19	12.66	-8.30	64.83	52.59	490.23	45.12	215.91	255.08	101.66	45.94	360.07	48.55	97.46	256.04
46654	92.73	12.13	-8.30	65.97	48.64	516.66	47.05	234.06	267.58	114.31	43.52	378.17	48.45	105.75	268.74
46655	92.26	11.61	-8.30	67.37	44.95	535.35	49.13	250.98	278.59	126.92	42.24	391.90	48.59	117.71	279.67
46656	90.14	9.49	-6.90	61.39	34.70	510.57	43.53	281.57	289.82	111.12	42.29	383.10	42.08	138.06	289.82
46657	91.17	9.44	-6.90	62.44	38.10	517.21	45.37	266.11	284.87	102.45	38.40	371.69	43.87	125.80	284.94
46658	92.21	9.39	-6.90	64.01	41.98	516.53	46.48	249.53	278.29	94.69	34.72	357.64	45.01	111.02	278.57
46659	90.36	10.47	-6.90	65.60	40.51	516.68	41.01	268.37	278.85	105.37	41.46	391.26	39.66	126.52	278.92
46660	91.26	10.33	-6.90	66.86	42.97	517.57	42.80	255.80	275.01	99.50	38.13	377.89	41.45	116.27	275.23
46661	92.15	10.18	-6.90	68.03	45.59	513.08	44.12	242.74	270.08	94.03	34.98	362.77	42.89	104.87	270.58
46662	90.56	11.46	-6.90	70.81	46.71	516.99	38.16	254.56	267.26	101.02	41.08	396.05	37.21	114.45	267.53
46663	91.33	11.21	-6.90	71.57	48.05	513.70	40.02	245.27	265.01	97.24	38.41	381.54	39.05	106.99	265.48
46664	92.08	10.96	-6.90	71.87	49.13	507.22	41.63	235.33	261.85	93.15	35.67	366.29	40.90	98.82	262.62
46665	79.02	9.89	-6.90	38.96	16.75	373.97	8.40	354.03	292.27	195.34	65.40	408.83	12.34	128.57	294.57
46666	80.15	9.88	-6.90	42.18	17.48	377.64	10.25	352.75	293.64	190.16	64.80	410.69	9.51	136.69	295.52
46667	81.29	9.86	-6.90	45.91	18.46	385.37	13.66	350.48	294.88	184.37	63.76	411.95	10.43	143.95	296.38
46668	82.41	9.83	-6.90	49.69	19.67	396.74	17.75	347.12	295.93	177.78	62.35	412.55	14.16	150.12	297.11
46669	83.53	9.80	-6.90	53.14	21.09	411.16	22.08	342.55	296.75	170.26	60.56	412.39	18.89	154.90	297.64
46670	84.65	9.76	-6.90	55.99	22.73	427.92	26.40	336.59	297.23	161.74	58.41	411.31	23.76	157.99	297.89
46671	85.76	9.71	-6.90	58.07	24.58	446.14	30.57	329.07	297.27	152.29	55.89	409.10	28.44	159.06	297.72
46672	86.87	9.66	-6.90	59.42	26.67	464.81	34.47	319.80	296.73	142.10	52.98	405.45	32.73	157.81	297.01
46673	87.97	9.60	-6.90	60.21	29.02	482.73	38.01	308.70	295.43	131.50	49.68	400.03	36.52	153.98	295.58
46674	89.07	9.54	-6.90	60.77	31.65	498.55	41.11	295.81	293.19	120.97	46.04	392.52	39.70	147.38	293.25
46675	79.05	11.68	-6.90	40.21	19.02	418.54	7.27	337.55	279.56	172.27	60.26	451.31	12.39	125.48	281.74
46676	80.25	11.64	-6.90	43.59	19.95	421.17	9.01	336.42	280.91	168.35	60.45	451.76	8.82	132.36	282.72
46677	81.44	11.58	-6.90	47.46	21.36	427.26	12.21	334.25	282.17	163.78	60.16	451.03	8.88	138.50	283.64
46678	82.61	11.50	-6.90	51.36	23.19	436.35	16.03	330.95	283.28	158.41	59.40	449.08	12.32	143.58	284.43
46679	83.77	11.40	-6.90	54.92	25.33	447.85	20.08	326.40	284.17	152.15	58.18	445.81	16.94	147.30	285.03
46680	84.92	11.28	-6.90	57.92	27.67	461.04	24.16	320.46	284.74	145.01	56.49	441.09	21.71	149.33	285.36
46681	86.05	11.15	-6.90	60.24	30.14	475.04	28.13	312.97	284.90	137.14	54.31	434.76	26.26	149.38	285.30
46682	87.17	10.99	-6.90	61.97	32.68	488.84	31.92	303.84	284.53	128.81	51.64	426.61	30.43	147.17	284.74
46683	88.28	10.82	-6.90	63.29	35.25	501.25	35.44	293.09	283.48	120.41	48.48	416.46	34.13	142.52	283.58
46684	89.37	10.63	-6.90	64.47	37.84	510.99	38.61	280.90	281.61	112.39	44.92	404.18	37.31	135.41	281.66
46685	79.08	13.48	-6.90	46.76	26.89	466.14	4.09	318.59	261.99	148.33	57.72	496.88	12.57	120.17	263.58
46686	80.33	13.42	-6.90	49.82	27.48	467.60	5.87	317.59	263.46	145.64	58.34	495.75	8.18	125.66	264.85
46687	81.56	13.32	-6.90	53.33	28.81	471.41	9.07	315.50	265.00	142.41	58.42	492.53	7.05	130.58	266.16
46688	82.78	13.19	-6.90	56.92	30.72	477.21	12.81	312.25	266.53	138.50	57.97	487.26	10.06	134.54	267.44
46689	83.98	13.03	-6.90	60.26	33.01	484.51	16.76	307.77	267.96	133.88	56.99	479.93	14.58	137.21	268.62
46690	85.15	12.83	-6.90	63.14	35.51	492.69	20.76	301.96	269.17	128.61	55.47	470.52	19.25	138.28	269.61
46691	86.31	12.61	-6.90	65.48	38.06	500.99	24.72	294.72	270.03	122.86	53.40	458.99	23.68	137.45	270.28
46692	87.44	12.35	-6.90	67.32	40.52	508.51	28.55	286.04	270.38	116.90	50.79	445.36	27.74	134.50	270.50
46693	88.56	12.06	-6.90	68.78	42.79	514.25	32.18	276.02	270.06	111.04	47.67	429.68	31.39	129.36	270.14
46694	89.64	11.74	-6.90	69.94	44.86	517.19	35.59	264.88	268.96	105.54	44.17	412.18	34.71	122.08	269.11
46695	79.10	15.28	-6.90	60.44	40.20	507.65	1.26	297.04	239.88	126.55	60.39	536.25	12.22	111.96	240.57
46696	80.40	15.20	-6.90	62.92	40.32	507.93	1.73	296.16	241.47	125.22	60.81	533.49	7.46	116.32	242.14
46697	81.67	15.07	-6.90	65.66	41.14	509.15	5.09	294.15	243.44	123.48	60.64	527.63	5.24	120.13	244.01
46698	82.92	14.90	-6.90	68.42	42.50	511.07	8.78	291.02	245.70	121.27	59.89	518.76	7.83	123.06	246.12
46699	84.16	14.67	-6.90	70.96	44.21	513.37	12.71	286.74	248.08	118.57	58.56	507.03	12.24	124.79	248.36
46700	85.36	14.40	-6.90	73.11	46.08	515.62	16.78	281.27	250.43	115.43	56.67	492.57	16.80	125.05	250.58
46701	86.54	14.08	-6.90	74.77	47.92	517.32	20.88	274.59	252.52	111.96	54.25	475.59	21.14	123.58	252.60
46702	87.69	13.72	-6.90	75.92	49.56	517.88	24.90	266.71	254.12	108.29	51.35	456.39	25.16	120.25	254.21
46703	88.81	13.31	-6.90	76.62	50.90	516.64	28.77	257.78	255.02	104.58	48.03	435.39	28.91	115.10	255.23
46704	89.90	12.86	-6.90	76.87	51.91	512.98	32.44	248.02	255.03	100.85	44.39	413.15	32.45	108.39	255.45
46705	79.12	17.07	-6.90	81.96	52.73	524.13	4.77	272.36	215.57	113.99	64.88	549.72	10.83	100.09	215.58
46706	80.44	16.99	-6.90	83.71	52.52	523.51	3.50	271.61	217.11	113.92	64.85	545.77	6.57	103.53	217.08
46707	81.75	16.84	-6.90	85.31	52.80	522.49	4.33	269.81	219.33	113.49	64.19	537.95	4.65	106.51	219.23
46708	83.04	16.62	-6.90	86.63	53.46	520.99	7.15	267.00	222.13	112.63	62.93	526.49	7.24	108.71	221.95
46709	84.30	16.34	-6.90	87.52	54.34	518.90	10.81	263.21	225.34	111.30	61.11	511.67	11.47	109.84	225.13
46710	85.54	15.99	-6.90	87.90	55.29	516.08	14.82	258.42	228.76	109.49	58.79	493.83	15.89	109.71	228.58
46711	86.74	15.58	-6.90	87.71	56.17	512.34	18.95	252.63	232.12	107.20	56.02	473.41	20.18	108.16	232.07
46712	87.91	15.11	-6.90	86.94	56.86	507.48	23.05	245.91	235.14	104.48	52.89	450.96	24.27	105.21	235.31
46713	89.05	14.58	-6.90	85.65	57.26	501.30	27.02	238.37	237.54	101.40	49.48	427.15	28.15	101.04	238.02
46714	90.14	14.00	-6.90	83.89	57.33	493.60	30.81	230.20	239.13	97.97	45.88	402.82	31.85	96.07	239.96
46715	79.13	18.88	-6.90	110.00	53.06	491.24	6.12	244.68	185.83	119.24	59.37	512.04	8.20	83.12	186.33
46716	80.47	18.79	-6.90	110.93	52.91	490.36	5.98	244.05	187.22	119.70	59.36	507.87	6.07	85.95	187.21
46717	81.81	18.61	-6.90	110.98	53.27	488.62	8.18	242.59	189.53	119.31	59.05	500.22	7.40	88.63	189.10
46718	83.13	18.35	-6.90	110.15	54.05	486.07	11.62	240.32	192.72	118.06	58.44	489.33	11.07	90.86	192.00
46719	84.4														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
46747	91.26	10.33	-5.50	74.01	47.09	483.85	37.74	228.35	254.35	74.67	32.90	352.45	38.53	94.06	253.47
46748	92.15	10.18	-5.50	77.75	51.03	480.82	40.59	215.11	249.17	77.35	29.36	341.05	40.80	86.54	248.57
46749	90.56	11.46	-5.50	79.80	49.50	484.82	32.36	229.57	245.25	80.34	32.70	370.50	33.85	94.14	244.31
46750	91.33	11.21	-5.50	82.17	52.12	482.40	35.27	219.95	243.22	82.11	30.17	358.20	36.07	89.14	242.50
46751	92.08	10.96	-5.50	84.16	54.60	476.75	38.31	210.23	240.27	83.55	27.08	345.94	38.63	83.94	239.97
46752	79.02	9.89	-5.50	33.53	8.16	351.84	2.08	339.70	274.42	108.74	47.84	392.95	1.62	105.09	276.79
46753	80.15	9.88	-5.50	36.26	10.06	355.18	4.62	338.10	276.03	107.18	48.34	394.27	5.04	112.00	278.01
46754	81.29	9.86	-5.50	39.16	12.37	362.26	8.28	335.14	277.39	104.63	48.53	394.67	9.17	117.85	278.99
46755	82.41	9.83	-5.50	42.06	14.91	372.65	12.15	330.74	278.47	101.01	48.42	394.12	13.42	122.48	279.72
46756	83.53	9.80	-5.50	44.82	17.62	385.77	16.06	324.81	279.22	96.35	48.01	392.53	17.65	125.69	280.13
46757	84.65	9.76	-5.50	47.42	20.48	400.89	19.93	317.25	279.55	90.78	47.29	389.79	21.78	127.30	280.13
46758	85.76	9.71	-5.50	49.89	23.50	417.21	23.71	307.95	279.35	84.62	46.26	385.74	25.72	127.17	279.63
46759	86.87	9.66	-5.50	52.36	26.69	433.84	27.35	296.83	278.53	78.37	44.89	380.23	29.41	125.19	278.50
46760	87.97	9.60	-5.50	55.05	30.12	449.79	30.84	283.90	276.91	72.77	43.12	373.13	32.79	121.32	276.60
46761	89.07	9.54	-5.50	58.18	33.82	463.99	34.16	269.27	274.33	68.76	40.95	364.47	35.84	115.59	273.76
46762	79.05	11.68	-5.50	39.53	10.65	393.38	0.98	324.06	257.75	95.27	43.28	432.21	5.20	102.86	260.04
46763	80.25	11.64	-5.50	42.41	12.52	395.71	3.08	322.59	259.40	94.45	44.37	432.04	2.48	108.55	261.33
46764	81.44	11.58	-5.50	45.50	15.21	401.18	6.46	319.67	260.90	92.73	45.08	430.43	9.03	113.33	262.45
46765	82.61	11.50	-5.50	48.64	18.33	409.36	10.03	315.24	262.19	90.11	45.43	427.36	12.95	117.00	263.35
46766	83.77	11.40	-5.50	51.72	21.68	419.68	13.69	309.26	263.22	86.71	45.40	422.78	16.88	119.37	263.98
46767	84.92	11.28	-5.50	54.69	25.15	431.45	17.36	301.65	263.90	82.79	44.97	416.63	20.71	120.27	264.27
46768	86.05	11.15	-5.50	57.58	28.68	443.91	21.03	292.39	264.14	78.77	44.10	408.85	24.36	119.57	264.13
46769	87.17	10.99	-5.50	60.50	32.26	456.18	24.66	281.49	263.85	75.21	42.76	399.39	27.78	117.22	263.49
46770	88.28	10.82	-5.50	63.56	35.90	467.34	28.26	269.06	262.88	72.71	40.92	388.31	30.96	113.23	262.22
46771	89.37	10.63	-5.50	66.90	39.66	476.38	31.81	255.33	261.07	71.81	38.58	375.83	33.90	107.67	260.21
46772	79.08	13.48	-5.50	50.64	17.16	437.04	5.12	305.57	235.89	84.17	40.41	473.88	3.03	98.10	237.62
46773	80.33	13.42	-5.50	53.39	18.38	438.28	4.42	304.28	237.71	84.25	41.64	472.06	5.35	102.58	239.21
46774	81.56	13.32	-5.50	56.40	20.77	441.70	5.42	301.48	239.60	83.72	42.47	468.04	8.61	106.43	240.77
46775	82.78	13.19	-5.50	59.50	23.93	446.97	7.76	297.15	241.48	82.62	42.89	461.89	12.12	109.37	242.27
46776	83.98	13.03	-5.50	62.60	27.51	453.60	10.76	291.28	243.28	81.13	42.87	453.65	15.63	111.19	243.64
46777	85.15	12.83	-5.50	65.62	31.28	461.05	14.08	283.88	244.89	79.54	42.37	443.37	19.06	111.72	244.81
46778	86.31	12.61	-5.50	68.58	35.11	468.63	17.61	274.98	246.17	78.23	41.38	431.15	22.32	110.84	245.70
46779	87.44	12.35	-5.50	71.51	38.90	475.60	21.28	264.68	246.98	77.56	39.86	417.13	25.42	108.48	246.19
46780	88.56	12.06	-5.50	74.42	42.60	481.13	25.07	253.18	247.18	77.77	37.80	401.59	28.38	104.66	246.19
46781	89.64	11.74	-5.50	77.30	46.23	484.34	29.01	240.78	246.60	78.85	35.22	385.00	31.34	99.44	245.57
46782	79.10	15.28	-5.50	67.40	27.66	477.41	11.82	283.61	210.12	80.86	41.96	512.48	4.05	90.02	210.91
46783	80.40	15.20	-5.50	69.97	28.22	477.60	10.55	282.54	212.12	82.11	42.60	508.90	5.67	93.68	212.81
46784	81.67	15.07	-5.50	72.71	30.00	478.73	9.44	279.97	214.61	83.03	42.77	502.24	8.21	96.96	215.06
46785	82.92	14.90	-5.50	75.50	32.71	480.58	9.00	275.93	217.47	83.72	42.48	492.66	11.04	99.56	217.57
46786	84.16	14.67	-5.50	78.25	36.01	482.84	9.70	270.47	220.54	84.31	41.71	480.35	13.92	101.24	220.26
46787	85.36	14.40	-5.50	80.88	39.61	485.12	11.62	263.65	223.63	84.95	40.46	465.52	16.74	101.78	222.98
46788	86.54	14.08	-5.50	83.35	43.30	486.91	14.50	255.57	226.51	85.80	38.74	448.46	19.51	101.03	225.60
46789	87.69	13.72	-5.50	85.62	46.90	487.67	18.02	246.40	228.97	86.90	36.58	429.56	22.28	98.92	227.92
46790	88.81	13.31	-5.50	87.64	50.28	486.74	22.01	236.39	230.77	88.18	34.00	409.36	25.19	95.50	229.77
46791	89.90	12.86	-5.50	89.33	53.38	483.48	26.34	225.87	231.70	89.42	31.04	388.53	28.40	90.98	230.93
46792	79.12	17.07	-5.50	91.39	40.68	497.13	19.91	255.94	189.60	93.13	48.81	529.58	5.67	78.13	189.58
46793	80.44	16.99	-5.50	93.65	40.73	496.43	18.56	255.17	191.46	95.19	48.31	524.45	6.59	81.41	191.33
46794	81.75	16.84	-5.50	95.83	41.80	495.31	16.95	253.11	194.16	97.02	47.16	515.45	8.11	84.50	193.84
46795	83.04	16.62	-5.50	97.83	43.69	493.70	15.38	249.82	197.54	98.62	45.40	502.89	9.95	87.05	196.98
46796	84.30	16.34	-5.50	99.55	46.17	491.50	14.29	245.38	201.37	99.99	43.11	487.11	11.96	88.79	200.62
46797	85.54	15.99	-5.50	100.90	48.96	488.53	14.24	239.88	205.39	101.10	40.38	468.53	14.17	89.52	204.54
46798	86.74	15.58	-5.50	101.82	51.84	484.59	15.61	233.42	209.31	101.87	37.33	447.68	16.66	89.10	208.50
46799	87.91	15.11	-5.50	102.22	54.60	479.42	18.32	226.20	212.82	102.20	34.10	425.20	19.58	87.58	212.20
46800	89.05	14.58	-5.50	102.03	57.08	472.75	22.06	218.43	215.67	101.95	30.83	401.85	23.02	85.19	215.40
46801	90.14	14.00	-5.50	101.14	59.12	464.29	26.49	210.37	217.63	100.90	27.67	378.52	27.03	82.39	217.84
46802	79.13	18.88	-5.50	122.99	41.14	457.22	24.28	221.83	179.13	123.16	44.76	483.61	6.29	61.49	180.56
46803	80.47	18.79	-5.50	124.55	41.13	456.25	23.24	221.43	180.35	124.85	43.85	478.26	5.88	64.77	181.01
46804	81.81	18.61	-5.50	125.33	42.04	454.32	22.40	220.21	182.23	125.73	42.43	469.41	6.95	67.95	182.25
46805	83.13	18.35	-5.50	125.31	43.75	451.49	22.03	218.22	184.69	125.78	40.59	457.42	9.22	70.72	184.26
46806	84.42	18.01	-5.50	124.48	46.06	447.83	22.35	215.49	187.62	124.99	38.41	442.67	12.20	72.90	186.97
46807	85.68	17.59	-5.50	122.84	48.72	443.36	23.46	212.06	190.84	123.35	35.98	425.62	15.60	74.40	190.23
46808	86.92	17.09	-5.50	120.42	51.52	438.13	25.33	207.98	194.14	120.87	33.42	406.81	19.28	75.25	193.81
46809	88.11	16.51	-5.50	117.26	54.28	432.14	27.82	203.33	197.30	117.57	30.80	386.89	23.14	75.63	197.43
46810	89.26	15.87	-5.50	113.45	56.84	425.42	30.73	198.24	200.12	113.53	28.23	366.58	27.10	75.87	200.83
46811	90.36	15.15	-5.50	109.03	59.04	417.99	33.93	192.89	202.43	108.82	25.80	346.73	31.10	76.42	203.75
46812	95.25	9.56	-5.50	76.09	64.20	394.98	49.96	167.99	216.42	72.71	16.95	285.51	49.65	91.86	219.05
46813	94.64	10.65	-5.50	82.05	64.19	394.50	47.89	171.27	212.82	79.58	17.70	288.63	47.34	89.43	215.64
46814	93.97	11.69	-5.50	87.68	63.96	394.29	45.82	174.04	209.52	85.86	18.80	293.23	44.91	86.73	212.44
46815	94.24	9.48	-5.50	79.76	59.50	444.74	47.82	186.38	233.58	76.69	20.53	309.57	47.78	77.90	234.68
46816	93.82	10.42	-5.50	84.88	60.95	440.25	44.99	187.36	227.75	82.49	20.27	313.59	45.00	79.15	229.16
46817	93.36	11.34	-5.50	89.61	62.01	435.26	42.24	18							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
46845	85.76	9.71	-4.10	50.43	26.64	385.06	20.89	287.99	263.53	48.25	38.72	359.67	25.63	100.19	263.46
46846	86.87	9.66	-4.10	53.70	30.34	399.65	24.61	276.07	263.01	51.45	39.37	352.61	28.82	98.11	262.52
46847	87.97	9.60	-4.10	57.37	34.31	413.70	28.45	262.42	261.79	56.67	39.95	344.32	32.11	95.01	260.87
46848	89.07	9.54	-4.10	61.54	38.60	426.43	32.48	247.19	259.72	64.13	40.51	335.15	35.50	91.23	258.38
46849	79.05	11.68	-4.10	43.34	10.29	364.93	8.67	308.69	238.10	42.45	28.19	410.21	15.63	84.07	240.14
46850	80.25	11.64	-4.10	45.86	12.64	366.92	8.31	307.14	240.15	45.39	30.07	409.21	15.54	88.41	241.88
46851	81.44	11.58	-4.10	48.57	15.84	371.70	9.09	303.90	242.05	47.91	31.82	406.56	16.30	91.88	243.41
46852	82.61	11.50	-4.10	51.41	19.46	378.87	10.93	298.95	243.77	50.17	33.42	402.28	17.81	94.36	244.68
46853	83.77	11.40	-4.10	54.37	23.28	387.92	13.52	292.30	245.24	52.46	34.87	396.40	19.90	95.79	245.66
46854	84.92	11.28	-4.10	57.45	27.22	398.24	16.60	283.96	246.40	55.19	36.15	388.94	22.41	96.16	246.31
46855	86.05	11.15	-4.10	60.68	31.25	409.18	20.01	273.95	247.18	58.81	37.27	379.96	25.19	95.50	246.57
46856	87.17	10.99	-4.10	64.12	35.40	420.04	23.69	262.36	247.48	63.68	38.25	369.60	28.19	93.94	246.36
46857	88.28	10.82	-4.10	67.81	39.70	430.16	27.64	249.31	247.20	70.02	39.11	358.20	31.37	91.69	245.60
46858	89.37	10.63	-4.10	71.85	44.26	438.86	31.90	235.02	246.18	77.87	39.91	346.33	34.78	89.02	244.18
46859	79.08	13.48	-4.10	55.47	12.69	404.18	15.04	291.72	214.23	53.38	24.26	447.54	16.05	79.50	215.73
46860	80.33	13.42	-4.10	58.16	14.99	405.18	14.19	290.43	216.48	56.18	26.27	444.87	15.95	82.99	217.75
46861	81.56	13.32	-4.10	61.03	18.57	408.15	13.88	287.38	218.86	59.06	28.23	439.94	16.54	86.03	219.74
46862	82.78	13.19	-4.10	64.01	22.77	412.79	14.29	282.61	221.30	62.08	30.11	432.86	17.76	88.44	221.66
46863	83.98	13.03	-4.10	67.08	27.27	418.69	15.53	276.19	223.70	65.44	31.88	423.76	19.51	90.14	223.47
46864	85.15	12.83	-4.10	70.23	31.89	425.40	17.55	268.16	225.97	69.37	33.53	412.81	21.66	91.06	225.12
46865	86.31	12.61	-4.10	73.47	36.58	432.38	20.24	258.62	228.00	74.09	35.03	400.22	24.14	91.21	226.54
46866	87.44	12.35	-4.10	76.82	41.30	439.08	23.50	247.70	229.64	79.75	36.40	386.36	26.90	90.68	227.64
46867	88.56	12.06	-4.10	80.30	46.07	444.96	27.27	235.60	230.74	86.38	37.64	371.79	29.96	89.55	228.33
46868	89.64	11.74	-4.10	83.91	50.98	449.44	31.55	222.55	231.13	93.84	38.80	357.33	33.42	87.93	228.48
46869	79.10	15.28	-4.10	71.55	15.38	442.35	24.79	271.86	185.76	71.20	20.82	484.28	16.21	71.59	186.40
46870	80.40	15.20	-4.10	74.39	17.72	442.46	23.70	270.88	188.25	74.01	22.42	479.83	16.14	74.81	188.70
46871	81.67	15.07	-4.10	77.32	21.78	443.60	22.72	268.17	191.32	77.16	24.17	472.51	16.53	78.12	191.35
46872	82.92	14.90	-4.10	80.32	26.70	445.57	22.01	263.82	194.86	80.70	26.01	462.52	17.36	81.26	194.29
46873	84.16	14.67	-4.10	83.35	32.04	448.13	21.76	257.90	198.68	84.69	27.89	450.10	18.61	83.98	197.45
46874	85.36	14.40	-4.10	86.41	37.55	450.96	22.12	250.51	202.61	89.23	29.77	435.60	20.23	86.10	200.71
46875	86.54	14.08	-4.10	89.48	43.10	453.70	23.25	241.79	206.42	94.37	31.64	419.41	22.21	87.51	203.96
46876	87.69	13.72	-4.10	92.58	48.60	455.93	25.21	231.90	209.91	100.11	33.46	402.10	24.60	88.14	207.05
46877	88.81	13.31	-4.10	95.68	54.03	457.17	28.04	221.10	212.83	106.35	35.21	384.44	27.49	87.96	209.81
46878	89.90	12.86	-4.10	98.74	59.38	456.93	31.73	209.68	214.94	112.84	36.81	367.43	31.00	87.02	212.03
46879	79.12	17.07	-4.10	92.92	16.87	475.81	40.41	245.62	160.87	96.93	18.22	516.35	17.33	59.76	160.84
46880	80.44	16.99	-4.10	95.96	19.78	475.15	39.13	245.01	163.35	99.93	18.50	509.97	17.38	63.40	163.06
46881	81.75	16.84	-4.10	99.05	25.05	474.34	37.54	242.86	166.93	103.44	19.07	500.01	17.45	67.62	166.19
46882	83.04	16.62	-4.10	102.13	31.41	473.29	35.73	239.25	171.41	107.40	20.00	486.79	17.54	71.90	170.12
46883	84.30	16.34	-4.10	105.15	38.19	471.90	33.84	234.28	176.51	111.76	21.34	470.72	17.70	75.81	174.67
46884	85.54	15.99	-4.10	108.07	45.06	470.03	32.10	228.08	181.91	116.45	23.12	452.30	18.07	79.00	179.65
46885	86.74	15.58	-4.10	110.82	51.81	467.45	30.78	220.80	187.28	121.37	25.32	432.15	18.89	81.26	184.79
46886	87.91	15.11	-4.10	113.35	58.27	463.89	30.27	212.68	192.29	126.34	27.85	411.05	20.50	82.50	189.81
46887	89.05	14.58	-4.10	115.55	64.29	459.02	31.00	204.01	196.65	131.10	30.56	389.91	23.21	82.78	194.43
46888	90.14	14.00	-4.10	117.29	69.71	452.47	33.29	195.17	200.09	135.28	33.20	369.81	27.30	82.42	198.35
46889	79.13	18.88	-4.10	126.79	16.80	445.34	58.22	201.87	170.62	138.31	15.92	479.39	20.02	44.12	173.68
46890	80.47	18.79	-4.10	129.75	20.64	444.30	56.84	201.72	171.92	141.12	14.03	472.35	19.79	47.97	173.95
46891	81.81	18.61	-4.10	132.39	27.46	442.28	54.82	200.75	173.86	144.14	12.14	461.80	19.20	52.01	174.99
46892	83.13	18.35	-4.10	134.65	35.37	439.35	52.26	199.00	176.31	147.21	10.83	448.18	18.25	55.89	176.72
46893	84.42	18.01	-4.10	136.45	43.50	435.57	49.32	196.56	179.12	150.17	10.95	431.99	17.11	59.40	179.02
46894	85.68	17.59	-4.10	137.71	51.43	430.95	46.26	193.51	182.09	152.82	12.89	413.83	16.18	62.44	181.71
46895	86.92	17.09	-4.10	138.34	58.88	425.51	43.42	189.96	185.00	154.95	16.16	394.40	16.19	65.06	184.60
46896	88.11	16.51	-4.10	138.24	65.63	419.24	41.25	186.04	187.62	156.32	20.08	374.50	17.91	67.47	187.42
46897	89.26	15.87	-4.10	137.32	71.52	412.08	40.26	181.96	189.75	156.71	24.09	355.04	21.63	70.01	189.94
46898	90.36	15.15	-4.10	135.44	76.32	403.96	40.93	177.92	191.24	155.85	27.74	336.96	27.04	73.16	191.96
46899	95.25	9.56	-4.10	99.79	81.50	375.21	66.93	159.96	197.35	122.80	35.05	305.38	66.54	106.31	199.69
46900	94.64	10.65	-4.10	108.38	83.02	375.55	61.97	163.10	194.69	130.65	35.33	302.11	60.76	101.99	197.29
46901	93.97	11.69	-4.10	116.07	83.88	375.82	57.06	165.46	192.59	137.83	34.97	300.39	54.59	96.81	195.34
46902	94.24	9.48	-4.10	95.45	72.67	430.06	59.95	166.70	220.00	120.61	40.48	321.85	59.68	83.15	219.44
46903	93.82	10.42	-4.10	103.58	75.80	428.01	55.98	169.57	213.42	127.41	40.01	323.99	55.35	84.74	213.10
46904	93.36	11.34	-4.10	111.34	78.36	424.96	51.82	171.95	207.34	134.24	39.09	325.73	50.54	85.24	207.34
46905	93.23	9.40	-4.10	85.87	62.66	446.84	52.55	179.59	235.65	109.74	41.69	316.57	52.52	79.36	233.91
46906	93.00	10.21	-4.10	93.52	66.37	446.55	50.22	179.96	227.74	116.62	41.30	323.78	49.94	81.50	226.02
46907	92.75	11.00	-4.10	100.89	70.03	445.23	47.39	180.35	219.83	123.21	40.60	330.23	46.65	82.64	218.27
46908	91.38	14.37	-4.10	132.46	79.74	395.97	43.54	174.32	192.16	153.54	31.03	322.16	33.70	77.50	193.53
46909	91.10	13.39	-4.10	118.14	73.89	445.31	36.98	187.48	202.58	138.05	35.66	353.52	32.46	82.13	201.40
46910	90.81	12.43	-4.10	101.27	63.86	455.30	35.78	199.67	216.18	118.36	38.20	354.21	34.81	85.81	213.55
46911	92.31	13.54	-4.10	128.11	82.16	388.26	47.24	171.07	192.43	149.52	33.11	311.06	40.55	82.86	194.42
46912	91.93	12.78	-4.10	117.45	76.76	437.59	41.32	181.27	204.08	138.68	37.28	340.96	38.01	82.39	203.44
46913	91.55	12.03	-4.10	102.96	67.22	452.24	39.68	191.80	216.66	122.32	39.20	344.45	38.60	84.67	214.43
46914	93.19	12.66	-4.10	122.85	83.54	380.10	51.87	168.03	192.19	144.38	34.31	303.05	47.52	89.34	194.76
46915	92.73	12.13	-4.10	115											



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
46943	87.17	10.99	-2.70	68.13	44.28	383.26	28.50	247.82	237.01	88.31	42.42	339.21	29.51	80.58	235.30
46944	88.28	10.82	-2.70	71.84	49.02	392.41	32.97	235.55	238.15	97.01	46.29	327.87	33.12	81.67	235.92
46945	89.37	10.63	-2.70	76.01	54.24	400.71	38.09	222.38	238.92	107.36	50.73	317.02	37.47	83.64	236.26
46946	79.08	13.48	-2.70	59.87	28.17	370.70	24.30	278.69	199.53	77.69	28.37	420.72	26.64	65.73	200.39
46947	80.33	13.42	-2.70	62.49	29.79	371.52	23.54	277.62	202.25	77.71	29.63	417.13	24.30	68.53	202.93
46948	81.56	13.32	-2.70	65.21	32.39	374.03	23.31	274.76	205.24	79.20	31.57	411.17	22.86	71.33	205.54
46949	82.78	13.19	-2.70	68.02	35.75	378.02	23.71	270.19	208.41	81.98	34.10	403.11	22.36	74.04	208.17
46950	83.98	13.03	-2.70	70.92	39.66	383.18	24.85	264.02	211.68	85.90	37.10	393.15	22.83	76.63	210.81
46951	85.15	12.83	-2.70	73.94	43.97	389.13	26.77	256.35	214.98	90.94	40.52	381.55	24.25	79.15	213.44
46952	86.31	12.61	-2.70	77.09	48.61	395.45	29.48	247.34	218.21	97.12	44.31	368.68	26.56	81.70	216.01
46953	87.44	12.35	-2.70	80.45	53.54	401.76	32.96	237.16	221.29	104.53	48.50	355.09	29.72	84.42	218.50
46954	88.56	12.06	-2.70	84.08	58.81	407.72	37.20	226.02	224.12	113.32	53.15	341.58	33.70	87.49	220.88
46955	89.64	11.74	-2.70	88.11	64.50	413.06	42.22	214.18	226.66	123.70	58.40	329.35	38.55	91.05	223.11
46956	79.10	15.28	-2.70	73.65	39.62	405.33	36.64	262.92	174.53	93.31	39.48	454.24	25.50	58.27	174.66
46957	80.40	15.20	-2.70	76.63	41.29	405.40	35.75	262.27	177.47	94.42	40.11	448.91	23.40	61.87	177.37
46958	81.67	15.07	-2.70	79.62	44.07	406.39	35.13	259.94	181.12	96.74	41.64	440.75	22.10	66.27	180.54
46959	82.92	14.90	-2.70	82.64	47.73	408.23	35.03	256.03	185.37	100.14	44.00	430.14	21.71	71.11	184.12
46960	84.16	14.67	-2.70	85.69	52.06	410.77	35.44	250.64	190.05	104.57	47.09	417.43	22.31	76.15	188.05
46961	85.36	14.40	-2.70	88.82	56.89	413.79	36.49	243.92	195.01	110.03	50.82	403.06	23.92	81.21	192.25
46962	86.54	14.08	-2.70	92.10	62.12	417.07	38.28	236.00	200.07	116.60	55.11	387.61	26.51	86.19	196.65
46963	87.69	13.72	-2.70	95.59	67.68	420.39	40.87	227.08	205.07	124.40	59.92	371.85	30.06	91.06	201.16
46964	88.81	13.31	-2.70	99.43	73.56	423.55	44.33	217.35	209.87	133.61	65.26	356.84	34.53	95.80	205.67
46965	89.90	12.86	-2.70	103.74	79.90	426.39	48.72	207.03	214.31	144.46	71.24	344.01	39.96	100.44	210.09
46966	79.12	17.07	-2.70	89.29	60.82	447.61	56.93	247.64	149.28	111.90	62.91	496.27	24.93	47.97	149.50
46967	80.44	16.99	-2.70	92.83	62.66	447.13	55.85	247.50	152.35	114.13	62.90	488.97	23.21	54.29	152.04
46968	81.75	16.84	-2.70	96.42	65.67	446.85	54.85	245.86	156.74	117.53	63.90	478.47	22.12	62.08	155.65
46969	83.04	16.62	-2.70	100.07	69.67	446.81	53.98	242.79	162.22	122.00	65.88	465.26	21.81	70.43	160.21
46970	84.30	16.34	-2.70	103.82	74.47	446.95	53.35	238.37	168.52	127.53	68.76	449.81	22.43	78.74	165.60
46971	85.54	15.99	-2.70	107.73	79.90	447.20	53.04	232.71	175.36	134.15	72.49	432.74	24.06	86.60	171.67
46972	86.74	15.58	-2.70	111.86	85.79	447.44	53.19	225.93	182.45	141.95	76.96	414.80	26.77	93.76	178.22
46973	87.91	15.11	-2.70	116.32	92.04	447.54	53.98	218.18	189.51	151.05	82.08	396.97	30.57	100.05	185.05
46974	89.05	14.58	-2.70	121.17	98.56	447.30	55.65	209.66	196.30	161.60	87.78	380.49	35.50	105.40	191.94
46975	90.14	14.00	-2.70	126.48	105.27	446.58	58.48	200.59	202.60	173.74	94.00	366.93	41.66	109.90	198.65
46976	79.13	18.88	-2.70	111.46	111.20	470.12	106.27	211.69	158.31	139.34	120.08	515.02	31.50	33.99	163.93
46977	80.47	18.79	-2.70	116.77	113.77	469.04	104.80	211.99	160.46	143.72	119.58	505.58	31.18	42.89	164.75
46978	81.81	18.61	-2.70	122.69	117.61	467.12	102.58	211.27	163.74	149.77	120.07	492.61	30.94	52.37	166.80
46979	83.13	18.35	-2.70	129.09	122.46	464.46	99.66	209.57	167.95	157.28	121.50	476.68	30.80	61.72	169.92
46980	84.42	18.01	-2.70	135.84	128.06	461.11	96.13	206.96	172.89	166.11	123.78	458.48	30.89	70.55	173.93
46981	85.68	17.59	-2.70	142.78	134.12	457.10	92.16	203.52	178.29	176.13	126.80	438.78	31.49	78.66	178.64
46982	86.92	17.09	-2.70	149.77	140.33	452.45	88.03	199.40	183.91	187.21	130.39	418.57	32.99	86.02	183.80
46983	88.11	16.51	-2.70	156.64	146.40	447.13	84.14	194.74	189.48	199.19	134.33	399.00	35.84	92.68	189.11
46984	89.26	15.87	-2.70	163.22	151.99	441.13	81.08	189.80	194.71	211.92	138.33	381.41	40.47	98.86	194.27
46985	90.36	15.15	-2.70	169.36	156.86	434.28	79.67	184.95	199.45	225.24	142.17	367.15	47.22	104.90	199.06
46986	95.25	9.56	-2.70	152.62	129.45	398.36	110.96	161.39	213.10	259.42	120.65	376.76	107.51	140.78	213.05
46987	94.64	10.65	-2.70	163.82	141.11	401.96	104.93	166.99	210.15	262.38	129.94	367.57	99.62	138.51	210.17
46988	93.97	11.69	-2.70	173.76	152.19	405.60	98.50	171.57	207.99	264.30	139.08	360.16	90.34	134.59	208.06
46989	94.24	9.48	-2.70	114.56	95.05	426.78	80.64	160.61	233.75	197.90	89.97	343.88	77.87	112.86	231.81
46990	93.82	10.42	-2.70	124.86	104.49	431.00	78.91	166.16	227.26	204.28	97.20	348.17	74.74	116.45	225.25
46991	93.36	11.34	-2.70	135.53	114.67	435.13	77.31	171.42	220.70	211.28	105.29	352.87	71.15	118.98	218.75
46992	93.23	9.40	-2.70	95.54	77.16	418.97	65.50	172.06	240.36	162.51	72.76	308.61	63.35	100.40	237.78
46993	93.00	10.21	-2.70	104.36	84.62	423.26	65.62	174.81	234.01	170.15	78.61	318.05	62.36	105.53	231.18
46994	92.75	11.00	-2.70	113.09	93.14	428.21	65.57	177.65	227.51	177.79	85.48	328.25	60.72	109.57	224.55
46995	91.38	14.37	-2.70	174.47	160.36	427.12	80.81	180.93	203.42	238.31	145.37	357.86	56.14	111.49	203.13
46996	91.10	13.39	-2.70	131.16	111.10	445.19	62.30	192.12	208.05	185.62	99.77	358.14	48.56	113.35	204.61
46997	90.81	12.43	-2.70	107.92	85.72	428.45	53.48	197.86	217.94	155.34	76.96	335.90	45.63	104.41	213.89
46998	92.31	13.54	-2.70	176.86	161.22	419.71	84.15	177.26	206.13	249.13	146.24	353.85	66.13	118.44	206.00
46999	91.93	12.78	-2.70	134.85	114.95	442.73	66.85	184.70	212.37	196.42	103.81	353.69	55.86	115.76	209.51
47000	91.55	12.03	-2.70	111.79	90.36	429.66	58.10	190.40	220.75	165.34	81.67	332.00	51.14	107.35	217.02
47001	93.19	12.66	-2.70	177.56	160.37	411.63	90.35	174.18	207.79	259.07	145.90	354.95	77.70	126.18	207.84
47002	92.73	12.13	-2.70	138.55	118.96	439.24	72.69	177.54	215.94	208.17	108.16	353.76	64.10	118.16	213.72
47003	92.26	11.61	-2.70	115.99	94.41	430.49	63.42	182.86	223.04	176.53	85.95	331.89	57.40	110.27	219.77
47004	66.76	9.50	-2.70	61.00	51.37	400.07	30.30	222.43	211.01	226.41	42.65	317.60	94.46	76.64	207.48
47005	65.73	9.45	-2.70	65.00	59.09	406.68	33.42	209.50	208.18	247.71	52.35	345.40	102.10	83.18	205.40
47006	64.70	9.40	-2.70	68.98	68.33	410.23	37.20	196.66	205.03	275.40	65.35	383.11	110.77	87.19	207.61
47007	66.55	10.50	-2.70	53.91	61.15	408.27	36.67	208.63	204.75	219.19	51.30	322.66	102.60	65.95	200.77
47008	65.64	10.35	-2.70	56.42	68.74	411.82	39.90	197.40	203.89	241.22	60.66	338.83	111.08	73.29	201.77
47009	64.75	10.20	-2.70	59.16	77.82	413.20	43.53	186.27	202.94	268.46	73.38	363.27	120.88	83.26	206.40
47010	66.34	11.50	-2.70	48.03	73.52	416.16	43.15	194.65	197.11	214.55	63.65	328.09	103.06	79.76	195.07
47011	65.58	11.25	-2.70	49.17	80.26	417.07	45.53	185.55	197.76	236.99	72.01	334.28	111.83	87.22	199.18
47012	64.83	10.99	-2.70	50.75	88.89	416.65	48.36	176.30	198.54	265.2					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
47041	68.36	12.12	-2.70	46.36	59.17	410.14	38.21	217.55	195.19	170.58	49.22	338.89	83.17	67.37	190.77
47042	67.27	11.79	-2.70	47.00	66.48	413.86	40.66	205.38	196.24	192.34	56.14	329.17	93.46	73.01	192.28
47043	77.81	15.29	-2.70	70.68	39.17	406.15	37.71	261.88	172.48	93.77	39.71	456.63	28.30	55.96	172.52
47044	76.52	15.25	-2.70	67.72	39.98	407.67	38.80	259.28	171.51	95.73	40.69	455.38	31.78	55.34	171.18
47045	75.26	15.14	-2.70	64.72	42.04	409.85	39.90	255.10	171.46	99.55	42.40	450.76	35.92	56.48	170.50
47046	74.01	14.98	-2.70	61.88	45.19	412.45	41.01	249.42	172.22	105.50	44.76	442.67	40.75	59.26	170.50
47047	72.77	14.76	-2.70	59.08	49.30	415.29	42.14	242.33	173.65	113.80	47.71	431.19	46.31	63.39	171.16
47048	71.57	14.49	-2.70	56.43	54.22	418.17	43.31	233.96	175.60	124.63	51.29	416.53	52.67	68.59	172.48
47049	70.38	14.16	-2.70	53.99	59.89	420.86	44.56	224.47	177.90	138.19	55.58	399.18	59.87	74.59	174.53
47050	69.23	13.79	-2.70	51.82	66.30	423.15	45.92	214.04	180.42	154.73	60.80	380.11	67.95	81.33	177.43
47051	68.11	13.38	-2.70	50.03	73.49	424.77	47.44	202.90	183.06	174.69	67.28	361.06	77.00	88.98	181.46
47052	67.01	12.91	-2.70	48.73	81.72	425.39	49.16	191.27	185.72	198.79	75.58	344.94	87.19	98.05	187.20
47053	77.79	17.09	-2.70	85.79	60.16	448.46	57.90	246.29	147.64	111.12	63.74	500.39	27.17	44.40	148.08
47054	76.47	17.02	-2.70	82.29	60.67	449.46	58.66	243.58	147.59	111.81	65.25	500.64	29.97	44.60	147.96
47055	75.17	16.88	-2.70	78.86	62.51	450.34	59.29	239.42	148.88	114.40	67.56	496.85	33.29	48.56	148.99
47056	73.89	16.67	-2.70	75.55	65.56	450.98	59.75	233.89	151.31	119.30	70.61	488.87	37.16	55.42	151.17
47057	72.62	16.39	-2.70	72.39	69.70	451.28	60.08	227.10	154.63	126.95	74.39	476.71	41.70	64.15	154.47
47058	71.39	16.05	-2.70	69.44	74.78	451.17	60.28	219.14	158.54	137.77	78.94	460.48	47.01	74.00	158.88
47059	70.18	15.64	-2.70	66.73	80.70	450.51	60.40	210.17	162.78	152.23	84.38	440.51	53.26	84.56	164.43
47060	69.01	15.16	-2.70	64.31	87.38	449.15	60.49	200.35	167.09	170.88	90.95	417.52	60.66	95.68	171.25
47061	67.87	14.63	-2.70	62.20	94.80	446.81	60.61	189.91	171.29	194.42	99.04	392.88	69.55	107.40	179.59
47062	66.77	14.04	-2.70	60.40	102.98	443.15	60.84	179.05	175.26	223.88	109.20	369.09	80.37	120.12	189.96
47063	77.78	18.88	-2.70	106.90	110.08	469.98	106.87	210.31	157.24	136.98	121.64	520.15	31.97	27.12	164.21
47064	76.43	18.80	-2.70	103.13	110.32	468.68	106.57	207.91	157.21	136.87	124.06	520.62	32.74	24.66	165.57
47065	75.10	18.63	-2.70	100.13	111.87	466.66	105.49	204.60	158.18	139.41	127.33	516.75	33.98	28.03	168.00
47066	73.79	18.37	-2.70	97.86	114.56	463.87	103.68	200.43	159.99	145.18	131.40	508.33	35.85	35.66	171.45
47067	72.49	18.03	-2.70	96.21	118.21	460.26	101.23	195.48	162.44	154.79	136.31	495.20	38.58	45.56	175.80
47068	71.23	17.61	-2.70	95.03	122.61	455.78	98.24	189.85	165.31	168.91	142.12	477.28	42.42	56.78	180.97
47069	69.99	17.11	-2.70	94.13	127.55	450.34	94.86	183.67	168.33	188.15	148.97	454.68	47.68	69.08	186.88
47070	68.80	16.53	-2.70	93.25	132.82	443.81	91.25	177.10	171.30	213.10	157.05	427.89	54.81	82.57	193.45
47071	67.65	15.88	-2.70	92.11	138.22	436.00	87.63	170.33	174.00	244.34	166.64	397.99	64.42	97.51	200.71
47072	66.55	15.16	-2.70	90.42	143.67	426.49	84.29	163.66	176.33	282.60	178.24	367.07	77.41	114.01	208.99
47073	61.65	9.56	-2.70	82.34	143.72	365.06	71.35	148.97	193.75	550.52	199.06	404.89	223.39	219.10	282.85
47074	62.26	10.65	-2.70	61.96	154.20	356.24	71.29	133.24	184.08	512.05	220.17	357.05	207.14	210.74	266.82
47075	62.93	11.70	-2.70	68.15	155.67	371.79	74.42	138.61	179.27	480.09	223.65	327.50	179.46	198.40	249.99
47076	62.66	9.48	-2.70	76.11	101.25	403.92	52.76	167.78	197.31	397.21	116.83	441.39	160.90	139.62	249.75
47077	63.08	10.43	-2.70	57.45	116.92	407.11	57.64	152.62	197.50	375.14	131.87	392.82	159.83	152.23	246.77
47078	63.54	11.36	-2.70	52.83	124.87	412.72	59.71	147.83	190.05	359.89	144.01	358.22	145.30	163.24	239.89
47079	63.67	9.41	-2.70	72.06	81.47	409.75	43.01	182.34	201.31	320.06	85.47	419.15	126.48	98.03	220.37
47080	63.90	10.22	-2.70	59.43	92.33	412.29	49.33	171.73	201.17	311.00	93.68	384.74	135.67	106.36	219.24
47081	64.15	11.02	-2.70	50.79	102.54	415.84	52.93	164.00	196.44	298.90	104.10	358.15	130.72	122.05	218.64
47082	65.52	14.38	-2.70	87.68	148.60	415.62	81.50	157.62	178.22	326.95	191.31	339.89	94.73	132.83	216.85
47083	65.81	13.43	-2.70	58.63	110.69	438.17	60.98	169.07	178.93	256.08	120.03	351.33	92.92	133.05	200.70
47084	66.10	12.47	-2.70	48.09	89.49	424.86	50.75	181.07	188.20	223.99	84.42	336.48	97.45	107.73	193.84
47085	64.59	13.55	-2.70	82.76	152.40	402.98	79.04	151.49	179.12	374.53	204.58	321.18	116.02	153.45	226.03
47086	64.97	12.80	-2.70	56.65	117.17	431.35	60.99	160.54	181.99	290.03	130.44	341.89	107.70	144.77	212.77
47087	65.36	12.06	-2.70	47.93	96.06	423.13	52.00	173.00	190.31	249.73	93.13	335.57	108.10	115.81	201.51
47088	63.71	12.67	-2.70	76.40	155.82	387.29	77.20	145.24	179.48	428.11	219.63	314.96	143.68	174.72	237.01
47089	64.18	12.15	-2.70	55.15	124.43	421.91	61.27	152.35	184.99	330.90	143.75	342.67	126.12	157.15	227.17
47090	64.64	11.63	-2.70	48.57	102.41	420.00	53.32	165.08	192.16	280.23	102.63	342.48	121.43	126.08	212.02
47091	66.76	9.52	-4.10	54.77	41.14	439.86	19.26	239.46	224.90	29.46	21.97	345.23	37.98	66.20	222.09
47092	65.72	9.47	-4.10	62.17	47.24	445.50	20.69	223.93	219.94	29.87	32.08	363.99	39.04	71.78	216.87
47093	64.69	9.41	-4.10	70.33	54.29	445.93	22.62	207.65	213.76	32.45	46.29	385.27	40.97	76.61	213.07
47094	66.53	10.55	-4.10	54.40	48.68	447.05	22.23	223.89	215.93	44.72	29.70	349.77	40.26	63.18	212.13
47095	65.63	10.39	-4.10	60.43	54.06	448.58	23.78	211.07	212.92	46.70	39.75	358.85	41.82	68.42	209.76
47096	64.75	10.23	-4.10	67.37	60.15	446.28	25.48	198.01	209.08	49.75	53.58	370.90	43.81	74.45	208.53
47097	66.33	11.56	-4.10	56.01	57.21	451.70	26.16	208.12	205.63	64.99	39.07	353.42	40.47	71.77	202.09
47098	65.57	11.30	-4.10	60.46	61.62	449.92	27.23	198.43	204.52	68.33	48.09	354.41	42.76	74.94	202.56
47099	64.82	11.02	-4.10	65.70	66.57	445.45	28.52	188.47	203.01	72.17	61.26	358.52	45.70	79.90	203.76
47100	77.87	9.92	-4.10	33.06	7.28	328.15	6.16	323.00	254.57	34.23	30.44	373.47	15.47	79.62	257.00
47101	76.73	9.95	-4.10	31.78	7.68	332.81	8.24	321.41	252.01	29.80	28.64	370.93	17.16	72.88	254.66
47102	75.59	9.95	-4.10	30.84	9.49	340.17	10.29	318.40	249.57	25.20	26.71	366.48	19.35	65.71	252.38
47103	74.46	9.92	-4.10	30.46	12.15	350.08	12.14	313.90	247.11	21.33	24.60	360.45	21.84	58.42	249.96
47104	73.34	9.89	-4.10	30.84	15.29	362.09	13.71	307.84	244.55	19.42	22.30	353.13	24.53	51.66	247.31
47105	72.23	9.84	-4.10	32.14	18.76	375.62	14.99	300.20	241.87	20.23	19.83	345.06	27.31	46.47	244.34
47106	71.12	9.79	-4.10	34.49	22.51	390.00	16.00	290.95	239.03	23.00	17.27	337.16	30.10	44.23	240.96
47107	70.02	9.72	-4.10	37.96	26.55	404.48	16.79	280.13	236.00	26.22	15.00	330.97	32.74	46.00	237.08
47108	68.92	9.66	-4.10	42.54	30.95	418.25	17.49	267.81	232.72	28.61	14.04	328.72	35.07	51.45	232.62
47109	67.82	9.58	-4.10	48.23	35.80	430.41	18.26	254.13	229.09	29.58	16.13	323.99	36.87	58.95	227.59
47110	77.84	11.75	-4.10	41.25	9.64	366.76	10.01	308.16	235.52	39.32	26.16	410.16	16.56	79.13	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
47139	67.00	12.99	-4.10	59.04	61.63	456.14	30.11	201.78	193.14	89.20	42.28	367.87	36.49	80.66	190.83
47140	77.79	17.10	-4.10	90.19	17.60	476.51	41.42	244.43	159.53	94.81	18.18	519.06	17.32	57.16	159.53
47141	76.48	17.07	-4.10	87.62	21.52	476.98	42.07	241.61	159.40	93.53	18.38	517.80	17.45	56.01	159.22
47142	75.18	16.95	-4.10	85.01	27.18	476.83	42.19	237.64	160.55	92.99	18.91	512.21	17.76	56.62	160.06
47143	73.90	16.76	-4.10	82.42	33.57	476.02	41.85	232.52	162.74	93.49	19.92	502.31	18.34	58.80	161.91
47144	72.63	16.48	-4.10	79.90	40.19	474.45	41.12	226.33	165.71	95.31	21.70	488.14	19.34	62.14	164.66
47145	71.39	16.14	-4.10	77.52	46.80	471.98	40.13	219.16	169.16	98.64	24.61	469.89	20.91	66.16	168.14
47146	70.18	15.72	-4.10	75.36	53.30	468.41	39.00	211.17	172.78	103.53	29.05	447.95	23.21	70.45	172.19
47147	69.01	15.24	-4.10	73.55	59.62	463.49	37.84	202.56	176.30	109.76	35.37	423.07	26.36	74.74	176.63
47148	67.87	14.69	-4.10	72.27	65.71	456.87	36.83	193.57	179.48	116.87	43.86	396.53	30.48	78.89	181.32
47149	66.77	14.09	-4.10	71.75	71.55	448.09	36.08	184.50	182.17	124.02	54.80	370.43	35.70	83.17	186.16
47150	77.78	18.89	-4.10	123.77	18.00	445.14	58.89	201.02	170.01	136.16	17.47	482.35	20.00	40.92	174.15
47151	76.44	18.81	-4.10	120.51	23.37	443.76	58.90	199.29	170.00	134.59	18.79	481.11	19.92	38.75	175.27
47152	75.11	18.65	-4.10	116.94	30.53	441.49	58.23	196.94	170.53	133.73	20.08	475.95	19.91	38.09	176.88
47153	73.79	18.40	-4.10	113.12	38.20	438.33	56.96	194.01	171.49	133.85	21.69	466.78	20.18	39.12	178.87
47154	72.50	18.06	-4.10	109.08	45.82	434.25	55.21	190.54	172.76	135.22	24.14	453.58	20.95	41.73	181.07
47155	71.23	17.64	-4.10	104.84	53.14	429.22	53.13	186.59	174.18	138.01	27.96	436.42	22.48	45.68	183.34
47156	70.00	17.14	-4.10	100.47	60.01	423.20	50.86	182.24	175.58	142.23	33.55	415.55	25.02	50.75	185.51
47157	68.80	16.56	-4.10	96.02	66.37	416.10	48.58	177.60	176.79	147.63	41.13	391.50	28.80	56.83	187.43
47158	67.65	15.91	-4.10	91.63	72.18	407.80	46.48	172.77	177.66	153.61	50.83	365.25	33.93	63.88	189.01
47159	66.54	15.18	-4.10	87.42	77.38	398.07	44.80	167.89	178.13	159.13	62.60	338.51	40.35	71.77	190.37
47160	61.65	9.56	-4.10	89.06	84.69	366.18	34.77	154.19	181.59	72.76	139.53	339.35	63.37	150.09	208.03
47161	62.26	10.66	-4.10	83.60	89.98	356.90	40.72	148.80	185.73	110.16	136.29	313.69	65.55	125.58	206.81
47162	62.93	11.71	-4.10	79.60	91.26	356.91	42.91	148.96	180.72	138.42	124.14	293.84	65.70	112.87	197.29
47163	62.66	9.49	-4.10	85.98	74.67	414.33	28.92	171.37	194.56	54.32	99.87	389.35	57.17	106.09	212.24
47164	63.08	10.45	-4.10	80.71	79.77	411.51	32.67	165.05	194.54	85.09	102.88	360.84	57.91	100.98	208.99
47165	63.54	11.38	-4.10	77.05	83.79	409.16	35.22	161.86	190.24	113.40	101.63	337.04	57.70	99.83	203.18
47166	63.67	9.42	-4.10	78.53	63.46	438.13	25.32	189.43	205.37	40.02	67.92	398.93	46.77	84.85	212.13
47167	63.90	10.24	-4.10	74.08	68.68	437.07	28.25	182.05	202.98	61.68	73.65	376.16	48.79	84.79	208.60
47168	64.15	11.05	-4.10	71.31	73.83	434.97	31.00	176.28	198.25	85.01	78.07	356.76	49.14	86.74	204.26
47169	65.52	14.40	-4.10	83.61	81.71	387.91	43.84	163.14	178.42	162.61	76.56	315.11	47.81	81.03	190.75
47170	65.80	13.47	-4.10	72.08	76.41	438.40	35.72	176.63	184.42	129.17	67.18	349.68	41.58	87.42	190.15
47171	66.09	12.53	-4.10	61.63	66.71	452.04	30.65	192.01	194.36	93.57	52.29	356.00	40.28	83.66	193.72
47172	64.59	13.57	-4.10	80.51	85.69	377.33	43.38	158.39	178.48	161.63	91.57	298.02	54.88	90.95	191.61
47173	64.97	12.84	-4.10	72.82	80.28	427.86	35.72	170.22	186.05	130.22	79.41	335.98	47.29	91.41	194.00
47174	65.35	12.11	-4.10	64.47	70.63	446.42	31.11	184.43	195.11	96.08	62.11	349.96	43.99	85.56	196.66
47175	63.71	12.68	-4.10	79.07	89.08	365.44	43.44	153.45	178.81	155.12	108.19	289.15	61.12	100.04	193.20
47176	64.17	12.17	-4.10	74.71	83.76	415.10	36.10	164.32	187.39	127.68	93.58	328.95	52.98	95.43	198.00
47177	64.64	11.67	-4.10	68.31	74.17	438.39	31.65	177.13	195.24	96.96	72.44	348.25	48.20	88.50	200.10
47178	66.74	9.53	-5.50	63.18	35.21	478.79	16.12	261.25	244.60	182.88	6.90	370.91	26.12	61.14	243.07
47179	65.71	9.47	-5.50	74.16	40.33	483.80	16.44	244.77	239.14	209.90	10.43	383.25	30.19	68.41	236.93
47180	64.68	9.42	-5.50	86.05	46.17	481.97	17.63	226.97	232.41	241.29	23.82	394.32	35.44	78.33	231.23
47181	66.49	10.58	-5.50	64.21	42.96	484.50	13.86	244.68	235.21	156.37	11.51	375.39	25.59	69.85	234.68
47182	65.61	10.41	-5.50	72.88	46.84	484.17	14.87	231.53	231.66	178.04	20.22	379.09	30.06	76.14	229.25
47183	64.72	10.24	-5.50	82.20	51.16	478.78	16.66	217.85	227.24	203.49	32.37	382.77	35.81	84.50	226.24
47184	66.29	11.60	-5.50	66.35	50.98	484.62	13.81	228.35	225.38	126.78	22.10	376.53	25.06	81.10	222.75
47185	65.53	11.33	-5.50	72.46	53.52	480.40	15.16	218.87	223.79	144.18	29.27	373.42	29.47	85.42	222.04
47186	64.79	11.04	-5.50	79.04	56.14	472.90	17.10	208.75	221.65	165.89	39.91	371.28	34.16	92.62	221.46
47187	77.86	9.94	-5.50	31.06	6.97	353.38	3.69	339.57	272.22	109.12	46.79	391.49	3.44	97.10	274.99
47188	76.70	10.00	-5.50	29.52	7.26	359.18	6.68	338.11	269.87	109.01	45.49	389.33	6.90	89.25	273.00
47189	75.56	10.00	-5.50	28.55	8.64	367.65	9.43	335.60	267.78	109.08	43.92	385.25	10.02	81.27	271.23
47190	74.42	9.97	-5.50	28.36	10.76	378.79	11.77	331.86	265.72	109.63	41.94	379.83	12.70	73.38	269.41
47191	73.30	9.93	-5.50	29.12	13.33	392.24	13.65	326.73	263.58	111.17	39.44	373.55	14.94	65.98	267.37
47192	72.19	9.88	-5.50	31.00	16.23	407.42	15.04	320.07	261.30	114.34	36.32	367.04	16.76	59.64	264.98
47193	71.09	9.82	-5.50	34.18	19.40	423.60	15.94	311.78	258.80	119.94	32.42	361.20	18.25	55.01	262.07
47194	69.99	9.75	-5.50	38.87	22.84	439.92	16.37	301.75	256.00	128.82	27.55	357.32	19.56	52.77	258.51
47195	68.89	9.68	-5.50	45.25	26.58	455.38	16.42	289.93	252.81	141.88	21.48	356.92	21.01	53.22	254.17
47196	67.80	9.60	-5.50	53.44	30.67	468.82	16.24	276.33	249.08	159.92	14.09	361.40	23.05	56.18	249.02
47197	77.82	11.78	-5.50	37.36	10.57	396.18	3.63	323.34	255.20	94.87	41.72	432.44	3.39	96.53	257.73
47198	76.58	11.88	-5.50	36.00	12.29	403.01	6.26	320.73	252.16	93.61	39.57	431.73	6.11	89.67	254.84
47199	75.37	11.89	-5.50	35.01	14.89	410.87	8.40	317.32	249.97	92.66	37.17	427.66	8.64	83.11	252.70
47200	74.18	11.82	-5.50	34.60	17.98	420.03	10.09	312.87	248.27	92.34	34.50	421.08	10.78	77.04	250.91
47201	73.02	11.72	-5.50	34.94	21.29	430.36	11.35	307.19	246.81	93.08	31.47	412.62	12.53	71.66	249.20
47202	71.87	11.57	-5.50	36.26	24.71	441.50	12.22	300.15	245.42	95.46	27.94	402.96	13.98	67.22	247.36
47203	70.75	11.41	-5.50	38.80	28.18	452.88	12.74	291.67	243.99	100.15	23.79	392.98	15.30	64.06	245.24
47204	69.64	11.21	-5.50	42.80	31.71	463.79	12.99	281.73	242.38	107.95	18.91	383.86	16.74	62.55	242.72
47205	68.55	11.00	-5.50	48.46	35.32	473.38	13.12	270.35	240.48	119.71	13.39	377.06	18.68	63.00	239.74
47206	67.48	10.78	-5.50	55.84	39.08	480.67	13.34	257.69	238.15	136.28	9.05	374.02	21.61	65.50	236.32
47207	77.81	13.57	-5.50	48.65	17.91	439.58	6.84	304.59	233.39	83.14	38.85	474.81	3.51	92.89	235.17
47208	76.53	13.65	-5.50	47.51	20.27	445.06	8.62	301.62	230.62	81.42	36.85	474.07	5.62	87.76	232.26
47209	75.28	13.63	-5.50	46.52	23.37	450.91									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
47237	77.78	18.89	-5.50	120.91	41.98	456.88	25.30	221.20	178.51	120.93	44.94	484.89	7.62	58.44	180.78
47238	76.43	18.83	-5.50	118.18	43.63	455.34	26.23	219.61	178.51	118.05	44.52	482.13	9.43	56.02	181.63
47239	75.10	18.67	-5.50	114.66	45.91	452.98	27.05	217.37	179.18	114.31	43.58	475.78	11.22	54.85	183.08
47240	73.78	18.42	-5.50	110.44	48.56	449.80	27.74	214.51	180.44	109.81	42.12	465.87	12.81	55.25	185.03
47241	72.48	18.09	-5.50	105.66	51.37	445.82	28.27	211.05	182.20	104.62	40.21	452.46	14.06	57.31	187.35
47242	71.21	17.66	-5.50	100.46	54.16	441.01	28.67	207.00	184.29	98.77	38.00	435.73	14.92	60.98	189.92
47243	69.98	17.16	-5.50	95.00	56.79	435.37	28.95	202.38	186.54	92.24	35.83	416.02	15.35	66.13	192.61
47244	68.79	16.58	-5.50	89.51	59.22	428.88	29.15	197.23	188.76	84.99	34.32	393.90	15.38	72.69	195.33
47245	67.63	15.92	-5.50	84.24	61.42	421.53	29.38	191.62	190.79	77.12	34.48	370.35	15.19	80.67	198.06
47246	66.53	15.19	-5.50	79.48	63.36	413.31	29.81	185.65	192.52	69.37	37.41	346.87	15.45	90.05	200.97
47247	61.65	9.56	-5.50	109.05	68.42	398.48	33.55	160.81	199.14	329.33	85.84	323.57	69.92	162.44	225.77
47248	62.25	10.66	-5.50	90.70	68.38	391.77	33.81	160.22	202.85	236.34	82.71	314.69	69.42	153.02	225.78
47249	62.92	11.71	-5.50	79.13	68.78	387.49	33.76	162.18	200.84	155.24	77.42	304.50	54.26	141.99	219.07
47250	62.66	9.49	-5.50	105.21	61.08	441.46	25.02	184.75	212.53	302.36	64.71	372.48	51.45	122.56	223.23
47251	63.07	10.45	-5.50	92.97	63.25	434.52	25.12	181.93	212.40	231.69	65.89	354.29	52.48	122.72	222.12
47252	63.53	11.39	-5.50	83.66	65.30	427.75	25.84	180.09	209.58	167.05	65.42	338.29	46.01	121.02	218.71
47253	63.67	9.42	-5.50	97.41	53.40	469.22	20.10	206.40	223.49	273.75	42.84	394.34	41.51	96.09	226.44
47254	63.88	10.25	-5.50	89.92	56.92	463.81	19.62	200.84	220.71	223.83	48.27	377.22	42.20	100.70	223.42
47255	64.13	11.06	-5.50	83.58	60.29	456.88	20.32	196.37	216.93	175.04	51.77	361.92	40.33	102.78	220.05
47256	65.51	14.41	-5.50	75.70	64.88	405.26	30.62	179.55	194.20	64.90	44.34	326.53	17.66	101.24	203.47
47257	65.78	13.49	-5.50	74.41	64.18	449.30	21.46	196.09	205.83	76.70	41.72	355.88	19.58	96.39	208.87
47258	66.05	12.57	-5.50	70.36	58.68	475.05	16.21	211.93	215.53	97.98	33.62	371.83	22.72	90.68	214.52
47259	64.58	13.57	-5.50	73.58	66.61	397.63	31.59	173.57	195.87	71.73	54.02	311.50	24.26	113.73	207.15
47260	64.95	12.86	-5.50	75.56	65.10	439.90	23.09	189.68	206.77	92.14	49.63	342.52	26.14	104.33	211.47
47261	65.32	12.14	-5.50	74.08	60.06	467.58	17.70	204.82	215.59	115.24	40.63	363.10	27.63	95.28	215.88
47262	63.70	12.68	-5.50	74.09	68.04	390.11	32.99	167.51	197.78	99.43	65.94	302.87	37.06	126.45	212.10
47263	64.16	12.19	-5.50	78.13	65.82	429.76	25.17	183.24	207.43	119.76	58.97	334.32	35.90	113.07	214.54
47264	64.61	11.69	-5.50	78.50	61.29	458.23	19.67	197.55	215.05	138.96	47.29	357.27	34.30	101.81	217.48
47265	66.73	9.54	-6.90	76.63	32.25	515.09	25.61	287.26	268.66	367.42	31.26	392.96	81.44	95.47	268.17
47266	65.70	9.48	-6.90	87.93	36.16	520.88	25.99	270.92	263.59	412.53	23.60	401.07	92.00	109.15	262.27
47267	64.68	9.42	-6.90	101.02	40.59	519.66	27.17	252.41	257.24	466.41	19.97	406.85	105.28	126.55	256.62
47268	66.46	10.60	-6.90	73.93	40.52	520.01	21.92	269.67	259.85	327.77	23.78	397.90	86.36	107.64	258.35
47269	65.58	10.43	-6.90	82.92	43.05	519.62	23.06	256.64	256.25	366.08	22.13	398.08	97.06	119.50	254.78
47270	64.70	10.25	-6.90	93.03	45.88	514.44	25.13	242.45	251.75	411.15	25.06	397.37	110.32	134.05	251.56
47271	66.24	11.63	-6.90	71.44	48.56	517.36	19.16	252.38	250.80	282.40	26.54	397.91	87.93	118.42	249.15
47272	65.50	11.35	-6.90	77.98	49.58	513.18	20.96	242.94	248.83	315.34	28.14	392.56	98.51	127.98	248.00
47273	64.77	11.06	-6.90	85.53	50.73	506.39	23.28	232.29	246.14	355.25	33.13	387.61	109.82	141.00	246.89
47274	77.85	9.96	-6.90	36.54	16.25	376.03	8.98	353.74	290.34	199.41	65.25	407.63	17.14	119.53	293.11
47275	76.68	10.04	-6.90	35.80	16.31	382.96	11.34	352.48	288.39	203.66	64.74	406.25	22.96	111.15	291.63
47276	75.52	10.05	-6.90	36.38	16.64	392.40	14.28	350.70	286.80	209.19	63.95	402.86	28.80	103.20	290.49
47277	74.39	10.02	-6.90	38.12	17.29	404.56	17.15	348.09	285.32	216.19	62.65	398.31	34.59	95.83	289.40
47278	73.26	9.98	-6.90	40.74	18.29	419.21	19.69	339.41	283.82	225.17	60.76	393.19	40.31	89.36	288.17
47279	72.15	9.92	-6.90	44.03	19.65	435.82	21.79	334.41	282.22	236.83	58.17	388.14	46.04	84.18	286.62
47280	71.05	9.85	-6.90	48.00	21.38	453.63	23.40	332.82	280.42	252.02	54.75	383.96	51.88	80.75	284.56
47281	69.96	9.78	-6.90	52.88	23.49	471.73	24.51	324.43	278.31	271.70	50.37	381.59	58.02	79.60	281.81
47282	68.87	9.70	-6.90	59.06	25.99	488.94	25.15	314.06	275.76	296.93	44.89	382.03	64.73	81.32	278.20
47283	67.78	9.61	-6.90	66.95	28.89	503.94	25.45	301.61	272.62	328.83	38.26	385.92	72.41	86.50	273.65
47284	77.80	11.82	-6.90	38.02	19.25	422.44	7.57	336.56	277.24	174.66	59.38	452.21	17.80	118.11	279.72
47285	76.53	11.97	-6.90	37.38	20.51	431.29	9.39	333.87	274.36	176.23	57.61	452.85	23.87	110.36	277.06
47286	75.30	11.99	-6.90	37.87	22.11	440.53	11.73	331.08	272.46	179.42	55.43	449.50	29.76	103.49	275.33
47287	74.10	11.93	-6.90	39.31	24.04	450.74	13.98	327.77	271.13	184.50	52.90	443.45	35.47	97.74	274.07
47288	72.93	11.82	-6.90	41.46	26.19	462.01	15.92	323.62	270.08	191.95	49.98	435.56	41.12	93.20	272.93
47289	71.79	11.66	-6.90	44.23	28.47	474.06	17.51	318.32	269.09	202.38	46.58	426.63	46.88	90.04	271.67
47290	70.67	11.48	-6.90	47.70	30.81	486.35	18.74	311.64	268.01	216.57	42.63	417.51	52.96	88.56	270.08
47291	69.57	11.28	-6.90	52.16	33.18	498.11	19.66	303.39	266.68	235.43	38.10	409.20	59.62	89.13	267.98
47292	68.49	11.05	-6.90	57.95	35.57	508.38	20.39	293.51	264.98	260.02	33.01	402.71	67.21	92.27	265.29
47293	67.43	10.81	-6.90	65.40	38.01	516.08	21.10	282.02	262.73	291.55	27.70	398.83	76.24	98.51	261.99
47294	77.79	13.60	-6.90	44.95	27.88	469.57	4.77	317.39	259.64	149.48	56.63	498.11	18.10	113.83	261.30
47295	76.49	13.73	-6.90	44.60	30.11	476.68	6.80	314.37	256.80	149.71	54.92	498.23	23.79	107.69	258.39
47296	75.22	13.74	-6.90	44.84	32.54	483.57	8.86	311.03	255.14	151.20	52.60	493.92	29.34	102.40	256.55
47297	73.97	13.65	-6.90	45.63	35.05	490.45	10.67	307.17	254.32	154.34	49.70	485.90	34.73	98.27	255.44
47298	72.76	13.49	-6.90	46.87	37.54	497.33	12.21	302.54	254.06	159.67	46.29	474.88	40.09	95.45	254.79
47299	71.57	13.27	-6.90	48.58	39.91	504.03	13.49	296.94	254.09	167.87	42.43	461.61	45.65	94.11	254.33
47300	70.42	13.00	-6.90	50.93	42.09	510.19	14.55	290.18	254.15	179.78	38.20	446.97	51.69	94.41	253.81
47301	69.30	12.69	-6.90	54.20	44.03	515.24	15.46	282.16	254.01	196.39	33.80	432.02	58.58	96.64	253.06
47302	68.21	12.34	-6.90	58.72	45.73	518.50	16.40	272.88	253.48	218.94	29.68	417.97	66.76	101.27	251.95
47303	67.14	11.96	-6.90	64.76	47.22	519.21	17.63	262.38	252.39	248.86	26.85	405.95	76.81	109.08	250.51
47304	77.79	15.37	-6.90	59.04	41.44	509.58	3.86	295.87	237.88	126.89	59.62	536.88	17.50	106.93	238.45
47305	76.47	15.44	-6.90	58.72	43.67	513.04	5.97	292.52	235.78	126.56	58.33	534.78	22.63	102.01	236.08
47306	75.17	15.41	-6.90	58.43	45.99	515.91	7.58	289.46	234.93	126.95	56.30	528.22	27.57	98.03	234.88
47307	73.89														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
47335	62.25	10.66	-6.90	110.41	59.67	442.31	40.19	178.86	225.35	489.76	69.56	335.34	175.87	207.83	255.30
47336	62.92	11.71	-6.90	87.13	60.93	436.61	34.24	180.29	223.71	356.58	72.18	330.30	148.83	197.40	248.15
47337	62.65	9.49	-6.90	128.86	51.63	485.06	35.13	203.29	237.56	587.09	41.51	381.41	146.77	178.08	250.22
47338	63.06	10.46	-6.90	106.94	54.73	476.47	32.92	201.21	235.83	473.23	49.41	367.71	148.65	180.17	248.54
47339	63.51	11.40	-6.90	89.45	57.33	468.16	29.65	199.73	232.84	369.75	55.59	356.86	136.13	176.08	245.13
47340	63.66	9.43	-6.90	115.12	45.92	508.41	29.80	229.33	248.48	526.66	26.34	402.73	122.51	151.29	251.82
47341	63.86	10.26	-6.90	101.87	49.91	500.81	28.04	223.34	244.93	451.18	34.55	388.79	126.53	156.12	248.71
47342	64.11	11.08	-6.90	89.76	53.40	492.22	26.17	218.46	240.92	375.51	41.74	377.13	123.62	155.69	245.47
47343	65.50	14.42	-6.90	68.44	62.22	446.02	23.27	199.00	215.13	155.17	51.28	356.19	69.96	139.31	223.87
47344	65.75	13.52	-6.90	68.75	59.95	480.94	19.28	216.76	229.24	193.85	45.04	377.50	78.90	133.55	232.25
47345	66.01	12.60	-6.90	69.82	55.37	504.87	17.86	234.52	240.83	236.10	36.19	391.56	84.51	127.06	240.42
47346	64.57	13.58	-6.90	69.18	61.83	440.60	25.32	192.51	218.16	196.58	57.60	341.35	89.83	157.49	230.82
47347	64.92	12.88	-6.90	72.01	59.30	474.14	21.99	210.05	230.21	234.50	48.87	364.63	94.99	147.60	235.74
47348	65.29	12.16	-6.90	74.63	55.19	498.70	20.24	227.30	240.31	271.59	38.83	382.14	96.66	137.42	241.36
47349	63.69	12.69	-6.90	74.32	61.42	436.24	28.97	186.17	220.86	259.54	66.03	331.84	116.95	176.87	239.08
47350	64.14	12.20	-6.90	78.09	58.65	467.50	25.75	203.21	230.75	289.31	54.11	355.93	115.72	162.79	240.02
47351	64.58	11.71	-6.90	80.94	54.98	491.56	23.48	219.59	239.32	315.79	41.06	375.09	111.77	149.94	242.93
47352	66.71	9.55	-8.30	98.07	30.70	548.87	40.72	316.09	294.62	528.37	59.10	411.48	139.13	159.38	294.82
47353	65.69	9.49	-8.30	106.55	32.76	557.38	41.30	301.15	290.55	583.78	50.87	417.15	154.48	182.14	289.88
47354	64.67	9.43	-8.30	117.63	35.23	559.84	42.35	283.49	285.07	650.85	42.68	421.08	173.42	209.08	285.24
47355	66.42	10.63	-8.30	89.82	36.82	555.30	37.41	297.44	286.81	476.29	43.44	418.37	147.57	168.68	286.02
47356	65.55	10.45	-8.30	96.81	38.22	557.10	38.65	285.36	283.49	524.07	38.85	416.94	162.60	188.08	282.82
47357	64.68	10.27	-8.30	105.67	39.89	555.05	40.54	271.81	279.24	580.35	35.19	414.84	180.86	210.62	280.19
47358	66.20	11.67	-8.30	80.88	43.51	553.90	34.46	278.59	278.56	417.20	35.73	420.37	149.99	175.02	277.70
47359	65.46	11.38	-8.30	86.62	43.76	551.74	36.22	269.83	276.41	458.85	34.86	414.24	164.69	190.92	276.56
47360	64.74	11.08	-8.30	94.11	44.39	547.70	38.21	259.66	273.47	509.18	35.41	408.41	180.09	210.71	275.66
47361	77.84	9.98	-8.30	49.14	26.07	395.14	15.60	363.75	306.69	295.46	84.15	421.08	33.63	145.80	309.20
47362	76.65	10.08	-8.30	50.00	25.95	403.07	18.31	362.64	305.33	302.85	84.53	420.72	42.59	137.41	308.36
47363	75.49	10.10	-8.30	53.35	25.87	413.22	21.92	361.85	304.39	312.69	84.67	418.19	51.89	130.33	307.96
47364	74.35	10.07	-8.30	58.25	25.87	426.10	25.70	360.83	303.66	324.81	84.30	414.59	61.45	124.57	307.73
47365	73.23	10.02	-8.30	63.84	25.97	441.63	29.29	359.19	303.04	339.57	83.30	410.58	71.22	120.45	307.49
47366	72.12	9.96	-8.30	69.51	26.19	459.37	32.50	356.57	302.41	357.61	81.57	406.77	81.23	118.41	307.05
47367	71.02	9.88	-8.30	74.94	26.59	478.68	35.21	352.58	301.68	379.75	79.02	403.80	91.52	118.94	306.22
47368	69.93	9.80	-8.30	80.12	27.18	498.63	37.38	346.81	300.72	406.91	75.53	402.38	102.20	122.64	304.77
47369	68.84	9.72	-8.30	85.34	28.04	517.98	38.97	338.91	299.37	440.14	70.98	403.13	113.45	130.18	302.47
47370	67.76	9.63	-8.30	91.17	29.20	535.30	40.04	328.65	297.42	480.65	65.30	406.30	125.60	142.33	299.17
47371	77.79	11.85	-8.30	46.04	26.52	444.20	14.50	345.48	298.61	262.00	76.15	468.31	36.13	142.41	300.77
47372	76.48	12.05	-8.30	46.80	26.99	455.15	16.50	342.75	296.30	264.78	74.65	470.70	46.07	134.16	298.72
47373	75.23	12.09	-8.30	50.19	27.68	465.62	19.55	341.02	294.97	270.63	72.64	468.38	55.90	127.91	297.64
47374	74.02	12.04	-8.30	54.90	28.58	476.73	22.83	339.51	294.24	279.59	70.30	463.06	65.64	123.69	297.09
47375	72.85	11.92	-8.30	59.96	29.63	488.79	25.95	337.67	293.82	291.98	67.57	455.82	75.43	121.55	296.73
47376	71.71	11.76	-8.30	64.83	30.78	501.72	28.73	335.02	293.48	308.35	64.43	447.55	85.47	121.65	296.28
47377	70.60	11.56	-8.30	69.34	31.98	515.11	31.11	331.10	293.03	329.44	60.86	439.11	95.95	124.25	295.48
47378	69.51	11.34	-8.30	73.63	33.19	528.22	33.09	325.50	292.29	356.11	56.84	431.37	107.11	129.76	294.11
47379	68.44	11.10	-8.30	78.16	34.40	540.05	34.73	317.94	291.10	389.35	52.39	425.07	119.28	138.78	292.04
47380	67.38	10.85	-8.30	83.57	35.60	549.50	36.16	308.42	289.30	430.44	47.61	420.65	132.97	151.95	289.24
47381	77.78	13.63	-8.30	45.82	30.98	494.91	11.10	326.56	285.82	226.89	69.70	517.60	37.91	136.97	287.19
47382	76.45	13.80	-8.30	46.52	32.51	503.94	13.05	323.67	283.21	227.42	67.59	519.14	47.13	130.36	284.58
47383	75.15	13.84	-8.30	49.21	34.22	512.01	15.93	321.40	281.82	230.65	64.88	515.63	56.30	125.49	283.12
47384	73.89	13.76	-8.30	52.88	36.01	519.65	19.01	319.24	281.31	236.81	61.67	508.04	65.42	122.49	282.48
47385	72.67	13.60	-8.30	56.77	37.75	527.09	21.98	316.80	281.39	246.37	58.02	497.28	74.65	121.59	282.33
47386	71.49	13.37	-8.30	60.45	39.34	534.34	24.69	313.67	281.75	259.99	54.03	484.23	84.25	122.98	282.35
47387	70.34	13.09	-8.30	63.81	40.71	541.19	27.07	309.44	282.09	278.51	49.79	469.84	94.56	126.91	282.25
47388	69.22	12.77	-8.30	67.07	41.78	547.18	29.10	307.76	282.12	302.88	45.48	455.17	105.96	133.72	281.77
47389	68.14	12.40	-8.30	70.73	42.56	551.65	30.89	296.45	281.58	334.24	41.33	441.29	118.91	143.97	280.72
47390	67.09	12.01	-8.30	75.40	43.10	553.99	32.69	287.59	280.33	374.01	37.72	429.09	134.09	158.50	279.16
47391	77.78	15.39	-8.30	51.82	40.02	538.57	7.20	307.14	266.29	192.01	66.61	559.69	37.90	130.24	266.77
47392	76.44	15.50	-8.30	52.32	41.93	543.22	9.64	304.52	263.79	191.94	64.56	558.12	45.98	124.92	264.08
47393	75.12	15.50	-8.30	53.74	43.94	546.90	12.62	302.03	262.66	193.88	61.88	551.85	53.98	121.14	262.71
47394	73.83	15.38	-8.30	55.60	45.91	549.78	15.64	299.38	262.65	198.19	58.69	541.38	61.96	119.14	262.41
47395	72.57	15.17	-8.30	57.52	47.69	551.91	18.57	296.35	263.49	205.40	55.12	527.24	70.14	119.24	262.92
47396	71.35	14.88	-8.30	59.27	49.13	553.30	21.29	292.66	264.90	216.21	51.30	510.11	78.84	121.68	263.98
47397	70.17	14.52	-8.30	60.85	50.14	553.86	23.72	288.04	266.53	231.50	47.44	490.81	88.49	126.72	265.29
47398	69.02	14.11	-8.30	62.51	50.65	553.38	25.82	282.22	267.99	252.37	43.83	470.41	99.61	134.64	266.55
47399	67.92	13.64	-8.30	64.70	50.66	551.59	27.72	275.11	268.89	280.20	40.91	450.19	112.81	145.98	267.53
47400	66.85	13.12	-8.30	68.03	50.30	548.27	29.67	266.80	268.93	316.71	39.42	431.42	128.73	161.47	268.16
47401	77.77	17.15	-8.30	66.45	49.32	559.15	4.78	286.97	237.74	161.03	65.22	578.19	34.87	120.86	237.72
47402	76.43	17.18	-8.30	66.18	50.73	559.27	7.93	284.81	235.86	161.37	63.36	573.52	41.60	116.94	235.73
47403	75.10	17.11	-8.30	65.84	52.36	558.64	11.15	282.34	235.46	162.92	61.12	564.87	48.32	114.38	235.17
47404	73.78	16.94	-8.30	65.31	54.00	557.26	14.25	279.44	236.38	166.05					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
47433	64.56	13.59	-8.30	64.46	56.68	494.77	31.73	215.00	244.60	306.12	63.44	378.63	151.25	209.02	258.76
47434	64.90	12.90	-8.30	71.04	53.46	521.06	32.66	233.54	257.14	355.02	51.79	394.99	158.74	202.61	264.05
47435	65.25	12.19	-8.30	78.06	49.14	540.22	33.94	252.29	267.69	402.78	40.88	407.38	161.66	195.73	269.91
47436	63.69	12.69	-8.30	73.94	55.32	491.95	36.82	209.71	247.67	385.53	69.65	366.89	186.29	237.47	269.74
47437	64.12	12.21	-8.30	80.10	52.21	516.80	36.87	227.75	257.69	424.14	54.84	384.96	186.04	226.11	269.70
47438	64.56	11.73	-8.30	85.80	48.31	535.69	37.09	245.37	266.59	458.52	41.14	399.55	182.04	215.38	272.07
47439	66.76	-9.49	-2.70	60.97	51.42	399.76	30.23	222.43	210.99	226.60	42.87	317.43	94.84	76.81	207.47
47440	65.73	-9.44	-2.70	64.97	59.13	406.39	33.32	209.49	208.14	247.92	52.59	345.41	102.46	83.30	205.38
47441	64.69	-9.39	-2.70	68.94	68.34	409.96	37.06	196.63	204.98	275.68	65.59	383.18	111.09	87.26	207.61
47442	66.54	-10.47	-2.70	54.08	61.00	407.79	36.46	208.87	204.86	219.63	51.32	322.37	102.94	66.03	200.89
47443	65.64	-10.33	-2.70	56.59	68.59	411.40	39.68	197.59	203.94	241.68	60.70	338.90	111.38	73.32	201.82
47444	64.75	-10.18	-2.70	59.31	77.68	412.84	43.31	186.41	202.94	268.96	73.45	363.52	121.15	83.21	206.40
47445	66.34	-11.46	-2.70	48.16	73.24	415.58	42.87	194.93	197.34	215.02	63.47	327.57	103.46	79.11	195.22
47446	65.57	-11.21	-2.70	49.32	80.00	416.55	45.27	185.77	197.92	237.48	71.86	334.15	112.19	86.63	199.23
47447	64.82	-10.96	-2.70	50.90	88.67	416.22	48.10	176.50	198.64	265.83	83.96	347.81	121.62	98.13	206.18
47448	77.88	-9.89	-2.70	39.35	16.74	301.59	11.84	305.42	238.80	62.69	21.44	354.30	28.74	67.89	240.60
47449	76.75	-9.88	-2.70	38.60	17.02	304.90	13.25	303.78	236.29	70.70	20.26	351.34	32.55	62.61	238.16
47450	75.61	-9.86	-2.70	38.44	18.25	311.08	14.87	300.48	233.64	81.32	19.54	346.71	37.10	56.72	235.50
47451	74.49	-9.83	-2.70	38.95	20.29	319.72	16.55	295.52	230.90	94.38	19.37	340.36	42.38	50.60	232.62
47452	73.37	-9.80	-2.70	40.21	23.00	330.30	18.24	288.92	228.07	109.65	19.86	332.36	48.38	44.97	229.52
47453	72.25	-9.76	-2.70	42.24	26.28	342.22	19.90	280.76	225.20	126.81	21.10	323.03	55.10	41.16	226.19
47454	71.14	-9.71	-2.70	45.03	30.08	354.86	21.60	271.12	222.30	145.50	23.15	313.14	62.49	41.06	222.65
47455	70.03	-9.66	-2.70	48.50	34.40	367.56	23.38	260.16	219.41	165.27	26.14	304.28	70.43	45.96	218.90
47456	68.93	-9.60	-2.70	52.49	39.34	379.70	25.35	248.14	216.56	185.66	30.25	299.27	78.71	55.17	214.99
47457	67.83	-9.54	-2.70	56.79	45.01	390.67	27.60	235.38	213.78	206.28	35.77	302.33	86.99	66.54	211.05
47458	67.85	-11.68	-2.70	46.76	21.03	335.69	17.22	292.66	220.07	69.23	22.82	386.54	30.14	66.78	221.56
47459	76.65	-11.64	-2.70	44.99	21.58	338.29	18.46	290.78	218.07	74.97	22.24	383.65	34.20	62.97	219.49
47460	75.46	-11.58	-2.70	43.66	23.21	343.15	19.88	287.14	216.13	83.24	22.32	378.58	39.04	58.88	217.31
47461	74.29	-11.50	-2.70	42.86	25.74	349.93	21.42	281.79	214.26	93.98	23.08	371.35	44.69	54.77	215.03
47462	73.13	-11.40	-2.70	42.66	29.00	358.16	23.03	274.81	212.49	106.99	24.52	362.03	51.16	51.00	212.69
47463	71.98	-11.28	-2.70	43.11	32.87	367.29	24.73	266.29	210.84	122.04	26.63	350.93	58.45	48.17	210.30
47464	70.85	-11.15	-2.70	44.25	37.28	376.79	26.57	256.38	209.32	138.85	29.45	338.71	66.52	47.07	207.90
47465	69.73	-10.99	-2.70	46.05	42.25	386.11	28.60	245.31	207.96	157.18	33.10	326.79	75.27	48.46	205.57
47466	68.62	-10.82	-2.70	48.43	47.86	394.73	30.90	233.33	206.80	176.86	37.80	317.63	84.53	52.60	203.42
47467	67.53	-10.63	-2.70	51.27	54.23	402.15	33.53	220.83	205.83	198.07	43.93	315.05	94.06	58.98	201.69
47468	77.82	-13.48	-2.70	57.19	27.68	371.16	25.28	278.17	197.48	79.39	27.80	421.30	29.78	63.17	198.28
47469	76.57	-13.42	-2.70	54.59	28.40	372.99	26.35	276.02	196.13	82.90	27.96	418.76	33.73	61.11	196.65
47470	75.34	-13.32	-2.70	52.24	30.33	376.33	27.58	272.11	195.16	88.68	28.86	413.43	38.44	59.52	195.17
47471	74.12	-13.19	-2.70	50.21	33.28	380.93	28.92	266.51	194.54	96.82	30.45	405.37	43.94	58.51	193.85
47472	72.92	-13.03	-2.70	48.53	37.06	386.44	30.37	259.31	194.24	107.28	32.68	394.66	50.26	58.20	192.70
47473	71.75	-12.83	-2.70	47.25	41.53	392.43	31.95	250.66	194.24	119.98	35.53	381.57	57.41	58.71	191.77
47474	70.59	-12.61	-2.70	46.42	46.64	398.51	33.69	240.73	194.49	134.83	39.08	366.69	65.39	60.16	191.13
47475	69.46	-12.35	-2.70	46.09	52.40	404.25	35.64	229.75	194.97	151.78	43.46	351.21	74.14	62.72	190.88
47476	68.35	-12.06	-2.70	46.28	58.88	409.27	37.85	217.98	195.68	170.95	48.96	337.25	83.61	66.62	191.24
47477	67.26	-11.74	-2.70	47.04	66.19	413.17	40.34	205.74	196.59	192.77	55.93	328.14	93.89	72.28	192.58
47478	77.80	-15.28	-2.70	70.48	39.08	405.81	37.58	262.07	172.75	93.58	39.61	456.14	28.34	55.98	172.79
47479	76.50	-15.20	-2.70	67.26	39.76	406.86	38.45	259.68	172.11	95.32	40.42	454.34	31.87	55.56	171.77
47480	75.23	-15.07	-2.70	64.16	41.74	408.65	39.41	255.63	172.28	99.06	42.00	449.14	36.06	56.77	171.31
47481	73.98	-14.90	-2.70	61.19	44.86	411.06	40.44	250.01	173.14	105.04	44.28	440.61	40.95	59.50	171.40
47482	72.74	-14.67	-2.70	58.38	48.94	413.86	41.54	242.92	174.59	113.43	47.19	428.84	46.57	63.50	172.06
47483	71.54	-14.40	-2.70	55.77	53.86	416.79	42.72	234.51	176.48	124.39	50.76	414.05	52.98	68.50	173.30
47484	70.36	-14.08	-2.70	53.41	59.53	419.61	44.00	224.94	178.68	138.07	55.07	396.74	60.21	74.30	175.22
47485	69.21	-13.72	-2.70	51.34	65.95	422.04	45.42	214.43	181.07	154.72	60.32	377.88	68.31	80.87	177.95
47486	68.09	-13.31	-2.70	49.66	73.16	423.83	47.00	203.21	183.57	174.77	66.83	359.22	77.36	88.39	181.80
47487	67.00	-12.86	-2.70	48.48	81.41	424.63	48.78	191.52	186.11	198.94	75.20	343.66	87.54	97.39	187.37
47488	77.78	-17.07	-2.70	85.64	60.07	448.03	57.75	246.41	147.76	111.01	63.64	499.88	27.22	44.40	148.20
47489	76.46	-16.99	-2.70	81.98	60.48	448.36	58.24	243.82	147.78	111.53	65.00	499.39	30.02	44.90	148.10
47490	75.15	-16.84	-2.70	78.44	62.25	448.72	58.69	239.74	149.14	114.05	67.20	494.92	33.36	49.06	149.16
47491	73.86	-16.62	-2.70	75.06	65.25	449.10	59.07	234.26	151.61	118.94	70.17	486.47	37.28	55.98	151.32
47492	72.60	-16.34	-2.70	71.85	69.34	449.34	59.38	227.46	154.94	126.61	73.89	474.06	41.86	64.66	154.59
47493	71.36	-15.99	-2.70	68.87	74.40	449.33	59.61	219.47	158.85	137.48	78.39	457.78	47.20	74.40	158.94
47494	70.16	-15.58	-2.70	66.16	80.31	448.87	59.79	210.45	163.06	152.00	83.80	437.94	53.45	84.83	164.43
47495	68.99	-15.11	-2.70	63.76	87.00	447.77	59.95	200.57	167.33	170.71	90.35	415.25	60.83	95.80	171.19
47496	67.85	-14.58	-2.70	61.69	94.45	445.72	60.15	190.06	171.49	194.34	98.46	391.04	69.68	107.38	179.48
47497	66.76	-14.00	-2.70	59.97	102.67	442.35	60.43	179.15	175.42	223.90	108.67	367.79	80.46	119.99	189.82
47498	77.77	-18.88	-2.70	106.75	109.86	470.36	106.75	210.48	157.19	136.88	121.39	520.60	31.93	27.07	164.16
47499	76.43	-18.79	-2.70	102.91	109.85	469.64	106.27	208.32	157.08	136.64	123.49	521.75	32.63	24.73	165.37
47500	75.09	-18.61	-2.70	99.87	111.24	468.00	105.06	205.17	158.06	139.14	126.52	518.28	33.80	28.27	167.77
47501	73.77	-18.35	-2.70	97.57	113.85	465.43	103.17	201.07	159.91	144.91	130.46	510.05	35.61	36.04	171.21
47502	72.48	-18.01	-2.70	95.91	117.50	461.92	100.68	196.13	162.41	154.56	135.30	496.93	38.29	46.03	175.59
47503	71.22														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
47531	64.75	-10.18	-4.10	67.37	59.77	446.32	25.19	198.64	209.32	48.85	53.22	371.71	43.64	74.22	208.70
47532	66.34	-11.46	-4.10	55.75	56.46	451.34	25.69	209.45	206.57	62.98	38.30	353.00	40.65	70.59	202.92
47533	65.57	-11.21	-4.10	60.32	60.95	449.88	26.80	199.51	205.21	66.47	47.38	354.75	42.88	73.96	203.07
47534	64.82	-10.96	-4.10	65.65	66.03	445.63	28.14	189.31	203.50	70.53	60.60	359.48	45.70	79.05	204.04
47535	77.88	-9.89	-4.10	33.00	7.31	327.46	6.07	323.30	254.94	34.02	30.34	372.70	15.39	80.07	257.38
47536	76.75	-9.88	-4.10	31.38	7.71	331.20	8.06	322.04	252.77	29.45	28.59	369.19	17.04	73.13	255.45
47537	75.61	-9.86	-4.10	30.31	9.52	338.24	10.12	319.21	250.44	24.73	26.67	364.34	19.20	65.73	253.29
47538	74.49	-9.83	-4.10	29.90	12.17	348.15	12.00	314.78	247.96	20.76	24.56	358.22	21.68	58.25	250.88
47539	73.37	-9.80	-4.10	30.31	15.30	360.35	13.62	308.74	245.33	18.83	22.26	350.99	24.36	51.34	248.17
47540	72.25	-9.76	-4.10	31.68	18.76	374.18	14.93	301.06	242.54	19.74	19.79	343.12	27.13	46.08	245.10
47541	71.14	-9.71	-4.10	34.11	22.49	388.88	15.96	291.74	239.59	22.67	17.24	335.52	29.90	43.91	241.61
47542	70.03	-9.66	-4.10	37.65	26.53	403.68	16.76	280.82	236.44	25.99	15.00	329.70	32.52	45.87	237.61
47543	68.93	-9.60	-4.10	42.30	30.92	417.73	17.45	268.39	233.04	28.44	14.10	327.87	34.81	51.54	233.03
47544	67.83	-9.54	-4.10	48.04	35.76	430.11	18.20	254.58	229.31	29.42	16.24	332.59	36.60	59.16	227.88
47545	77.85	-11.68	-4.10	40.88	9.53	365.30	9.79	308.70	236.20	38.99	26.13	408.80	16.50	79.22	238.42
47546	76.65	-11.64	-4.10	38.70	10.73	368.18	11.21	307.24	234.51	35.41	24.19	405.17	18.04	73.82	236.82
47547	75.46	-11.58	-4.10	37.00	13.35	373.74	12.70	304.09	232.78	32.24	22.22	399.71	20.08	68.16	235.04
47548	74.29	-11.50	-4.10	35.88	16.71	381.57	14.11	299.27	231.02	30.15	20.25	392.44	22.48	62.52	233.07
47549	73.13	-11.40	-4.10	35.47	20.47	391.12	15.38	292.80	229.24	29.75	18.34	383.55	25.16	57.34	230.90
47550	71.98	-11.28	-4.10	35.92	24.49	401.79	16.50	284.72	227.44	31.17	16.62	373.43	28.03	53.19	228.50
47551	70.85	-11.15	-4.10	37.36	28.70	412.89	17.50	275.08	225.59	33.92	15.41	362.87	30.98	50.78	225.82
47552	69.73	-10.99	-4.10	39.92	33.14	423.71	18.45	264.00	223.66	37.12	15.31	353.17	33.86	50.75	222.85
47553	68.62	-10.82	-4.10	43.67	37.86	433.50	19.44	251.66	221.59	39.98	17.25	346.28	36.48	53.26	219.60
47554	67.53	-10.63	-4.10	48.63	42.94	441.45	20.59	238.28	219.28	42.07	22.08	344.62	38.67	57.78	216.14
47555	77.82	-13.48	-4.10	52.71	12.46	404.58	16.06	291.50	212.54	50.48	22.25	447.16	16.77	75.83	214.05
47556	76.57	-13.42	-4.10	50.09	14.40	406.48	17.06	289.81	211.46	47.71	20.46	443.68	18.07	72.28	212.82
47557	75.34	-13.32	-4.10	47.86	17.74	410.23	18.07	286.38	210.61	45.62	18.82	437.68	19.83	68.92	211.60
47558	74.12	-13.19	-4.10	46.06	21.81	415.48	19.02	281.27	209.98	44.56	17.45	429.20	21.97	65.98	210.40
47559	72.92	-13.03	-4.10	44.79	26.25	421.79	19.90	274.53	209.52	44.85	16.49	418.42	24.42	63.67	209.19
47560	71.75	-12.83	-4.10	44.16	30.90	428.68	20.74	266.26	209.18	46.53	16.19	405.69	27.12	62.17	207.97
47561	70.59	-12.61	-4.10	44.32	35.71	435.60	21.56	256.55	208.90	49.37	16.93	391.64	30.00	61.67	206.72
47562	69.46	-12.35	-4.10	45.45	40.69	441.96	22.43	245.60	208.61	52.93	19.18	377.40	32.92	62.28	205.47
47563	68.35	-12.06	-4.10	47.76	45.89	447.12	23.40	233.63	208.21	56.69	23.43	364.68	35.78	64.07	204.29
47564	67.26	-11.74	-4.10	51.41	51.37	450.38	24.51	220.90	207.59	60.17	30.25	355.74	38.55	67.16	203.34
47565	77.80	-15.28	-4.10	68.58	15.59	442.74	25.71	271.38	184.30	68.59	19.43	485.16	16.70	68.88	184.83
47566	76.50	-15.20	-4.10	65.64	18.23	443.66	26.36	269.49	183.95	66.26	18.38	482.23	17.61	67.14	184.09
47567	75.23	-15.07	-4.10	62.96	22.37	445.49	26.89	265.90	184.25	64.72	17.71	476.04	18.89	66.31	183.76
47568	73.98	-14.90	-4.10	60.57	27.24	447.96	27.31	260.68	185.13	64.24	17.54	466.62	20.56	66.42	183.82
47569	72.74	-14.67	-4.10	58.53	32.48	450.78	27.64	253.94	186.46	65.03	18.05	454.11	22.45	67.42	184.24
47570	71.54	-14.40	-4.10	56.92	37.91	453.61	27.91	245.81	188.09	67.22	19.47	438.80	24.73	69.13	185.01
47571	70.36	-14.08	-4.10	55.87	43.46	456.04	28.18	236.42	189.86	70.75	22.09	421.19	27.32	71.34	186.10
47572	69.21	-13.72	-4.10	55.56	49.12	457.60	28.49	226.02	191.61	75.40	26.29	402.18	30.20	73.85	187.53
47573	68.09	-13.31	-4.10	56.23	54.90	457.75	28.90	214.85	193.16	80.80	32.50	383.20	33.37	76.57	189.36
47574	67.00	-12.86	-4.10	58.17	60.88	455.82	29.48	203.22	194.39	86.43	41.35	366.39	36.86	79.63	191.75
47575	77.78	-17.07	-4.10	89.70	17.58	476.13	41.13	244.95	159.72	94.36	18.17	518.79	17.31	57.27	159.71
47576	76.46	-16.99	-4.10	86.49	21.49	476.05	41.30	243.04	159.94	92.27	18.32	516.87	17.46	56.61	159.70
47577	75.15	-16.84	-4.10	83.46	27.06	475.73	41.10	239.61	161.31	91.17	18.76	510.79	17.82	57.58	160.67
47578	73.86	-16.62	-4.10	80.62	33.32	474.98	40.60	234.76	163.63	91.28	19.67	500.53	18.50	59.96	162.55
47579	72.60	-16.34	-4.10	77.99	39.81	473.68	39.85	228.63	166.66	92.86	21.35	486.18	19.59	63.36	165.25
47580	71.36	-15.99	-4.10	75.62	46.32	471.60	38.92	221.35	170.12	96.05	24.17	467.94	21.24	67.33	168.64
47581	70.16	-15.58	-4.10	73.58	52.75	468.49	37.91	213.13	173.71	100.88	28.50	446.19	23.56	71.48	172.58
47582	68.99	-15.11	-4.10	71.98	59.05	464.01	36.91	204.22	177.16	107.13	34.72	421.69	26.70	75.56	176.92
47583	67.85	-14.58	-4.10	70.97	65.17	457.76	36.05	194.90	180.25	114.31	43.15	395.68	30.76	79.47	181.53
47584	66.76	-14.00	-4.10	70.78	71.06	449.23	35.45	185.50	182.84	121.64	54.07	370.21	35.90	83.44	186.33
47585	77.77	-18.88	-4.10	123.47	18.05	445.50	58.79	201.33	169.88	135.89	17.49	482.85	19.95	40.85	174.01
47586	76.43	-18.79	-4.10	119.89	23.47	444.71	58.63	200.12	169.74	133.92	18.77	482.28	19.81	38.90	174.89
47587	75.09	-18.61	-4.10	116.14	30.63	442.88	57.83	198.07	170.22	132.81	19.97	477.51	19.77	38.51	176.39
47588	73.77	-18.35	-4.10	112.23	38.28	440.03	56.49	195.26	171.21	132.78	21.51	468.51	20.02	39.78	178.32
47589	72.48	-18.01	-4.10	108.16	45.86	436.14	54.70	191.77	172.55	134.09	23.92	455.30	20.80	42.56	180.56
47590	71.22	-17.59	-4.10	103.95	53.14	431.20	52.62	187.71	174.07	136.87	27.74	438.01	22.35	46.58	182.90
47591	69.98	-17.09	-4.10	99.64	59.97	425.16	50.38	183.19	175.57	141.11	33.36	416.92	24.93	51.63	185.19
47592	68.79	-16.51	-4.10	95.28	66.30	417.97	48.15	178.33	176.86	146.57	40.99	392.63	28.75	57.62	187.24
47593	67.64	-15.87	-4.10	91.00	72.09	409.48	46.12	173.29	177.80	152.64	50.72	366.17	33.93	64.52	188.94
47594	66.54	-15.15	-4.10	86.92	77.27	399.51	44.50	168.22	178.30	158.26	62.53	339.26	40.40	72.25	190.38
47595	61.65	-9.56	-4.10	88.90	84.55	366.18	34.60	154.10	181.45	73.22	139.46	339.65	63.87	150.02	207.78
47596	62.26	-10.65	-4.10	83.47	89.78	357.13	40.49	148.81	185.67	109.96	136.00	314.27	66.04	125.50	206.71
47597	62.93	-11.69	-4.10	79.42	91.08	357.31	42.70	148.97	180.76	138.01	123.89	294.42	66.14	112.72	197.31
47598	62.66	-9.48	-4.10	85.90	74.58	414.43	28.72	171.41	194.50	54.54	99.91	389.83	57.28	105.94	212.15
47599	63.08	-10.42	-4.10	80.69	79.48	411.98	32.37	165.32	194.63	84.40	102.50	361.91	58.07	100.61	208.99
47600	63.54	-11.34	-4.10	76.97	83.46	409.94	34.88	162.15	190.51	112.21	101.07	338.25	57.93	99.44	203.31
47601	63.67	-9.40	-4.10	78.45	83.38	438.18	25.15	189.53							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
47629	70.03	-9.66	-5.50	38.47	22.51	438.35	16.60	303.10	256.68	129.40	27.75	355.61	19.77	52.03	259.33
47630	68.93	-9.60	-5.50	44.90	26.28	454.36	16.64	291.08	253.34	142.39	21.63	355.76	21.19	52.57	254.84
47631	67.83	-9.54	-5.50	53.15	30.40	468.27	16.43	277.27	249.48	160.38	14.13	360.78	23.16	55.64	249.53
47632	77.85	-11.68	-5.50	36.85	10.19	393.72	3.37	324.26	256.19	95.28	41.75	430.19	3.18	96.72	258.75
47633	76.65	-11.64	-5.50	34.74	11.23	396.89	5.98	323.28	254.80	95.17	40.06	426.18	5.97	90.18	257.59
47634	75.46	-11.58	-5.50	33.36	13.43	403.11	8.24	320.84	253.33	94.92	38.01	420.66	8.62	83.53	256.27
47635	74.29	-11.50	-5.50	32.81	16.30	411.95	10.11	316.92	251.81	94.99	35.54	413.72	10.90	77.06	254.76
47636	73.13	-11.40	-5.50	33.19	19.53	422.82	11.54	311.45	250.21	95.90	32.60	405.60	12.78	71.14	253.00
47637	71.98	-11.28	-5.50	34.65	22.96	435.01	12.54	304.39	248.51	98.32	29.09	396.71	14.32	66.16	250.91
47638	70.85	-11.15	-5.50	37.40	26.53	447.72	13.13	295.70	246.67	102.98	24.89	387.78	15.66	62.58	248.41
47639	69.73	-10.99	-5.50	41.64	30.20	460.05	13.39	285.39	244.62	110.72	19.87	379.88	17.05	60.85	245.42
47640	68.62	-10.82	-5.50	47.55	34.00	470.99	13.47	273.54	242.29	122.41	14.04	374.38	18.88	61.28	241.93
47641	67.53	-10.63	-5.50	55.19	37.97	479.45	13.59	260.31	239.53	138.91	8.78	372.64	21.66	63.96	237.96
47642	77.82	-13.48	-5.50	47.94	17.41	437.39	6.54	305.57	234.52	83.30	38.76	472.78	3.39	93.20	236.34
47643	76.57	-13.42	-5.50	45.64	18.92	439.42	8.00	304.40	233.69	82.40	36.80	468.64	5.51	88.40	235.49
47644	75.34	-13.32	-5.50	43.96	21.47	443.54	9.29	301.72	233.02	81.37	34.47	462.20	7.65	83.73	234.65
47645	74.12	-13.19	-5.50	42.95	24.64	449.37	10.31	297.51	232.48	80.57	31.73	453.53	9.49	79.48	233.77
47646	72.92	-13.03	-5.50	42.69	28.14	456.42	11.04	291.79	232.03	80.46	28.56	442.85	11.01	75.87	232.82
47647	71.75	-12.83	-5.50	43.33	31.80	464.10	11.49	284.55	231.62	81.57	24.90	430.50	12.30	73.14	231.75
47648	70.59	-12.61	-5.50	45.08	35.49	471.72	11.73	275.85	231.16	84.57	20.76	417.11	13.55	71.49	230.50
47649	69.46	-12.35	-5.50	48.17	39.16	478.48	11.86	265.77	230.56	90.26	16.42	403.65	15.08	71.12	229.04
47650	68.35	-12.06	-5.50	52.80	42.80	483.49	12.06	254.48	229.69	99.60	13.16	391.38	17.29	72.27	227.38
47651	67.26	-11.74	-5.50	59.03	46.45	485.81	12.59	242.22	228.45	113.69	14.52	381.78	20.62	75.32	225.62
47652	77.80	-15.28	-5.50	64.76	28.34	477.74	12.85	283.42	208.99	79.04	40.82	512.47	4.11	86.29	209.68
47653	76.50	-15.20	-5.50	62.30	30.01	478.58	13.50	282.08	208.81	77.08	39.12	508.56	5.48	83.08	209.24
47654	75.23	-15.07	-5.50	60.27	32.58	480.27	13.87	279.24	209.18	75.03	36.94	501.36	7.08	80.35	209.18
47655	73.98	-14.90	-5.50	58.70	35.70	482.55	13.97	274.94	210.04	73.08	34.29	490.95	8.53	78.30	209.46
47656	72.74	-14.67	-5.50	57.65	39.11	485.06	13.87	269.24	211.26	71.49	31.18	477.51	9.76	77.05	210.03
47657	71.54	-14.40	-5.50	57.23	42.59	487.38	13.65	262.22	212.68	70.64	27.69	461.35	10.85	76.63	210.81
47658	70.36	-14.08	-5.50	57.59	46.03	488.99	13.42	253.97	214.13	71.00	24.11	443.03	11.97	77.06	211.71
47659	69.21	-13.72	-5.50	58.93	49.32	489.28	13.31	244.66	215.42	73.28	21.24	423.42	13.43	78.37	212.66
47660	68.09	-13.31	-5.50	61.45	52.43	487.58	13.54	234.51	216.38	78.51	20.79	403.78	15.63	80.74	213.61
47661	67.00	-12.86	-5.50	65.27	55.37	483.18	14.32	223.77	216.83	88.16	24.84	385.74	19.02	84.59	214.59
47662	77.78	-17.07	-5.50	88.79	41.57	497.36	20.73	255.62	188.75	90.59	48.55	530.71	5.55	74.94	188.74
47663	76.46	-16.99	-5.50	86.11	43.21	497.10	21.04	254.31	189.00	87.77	47.41	527.48	6.18	72.61	188.85
47664	75.15	-16.84	-5.50	83.53	45.51	496.36	20.93	251.69	190.11	84.83	45.54	520.03	7.17	71.07	189.74
47665	73.86	-16.62	-5.50	81.07	48.18	495.00	20.52	247.85	191.95	81.81	42.95	508.45	8.18	70.50	191.32
47666	72.60	-16.34	-5.50	78.78	51.00	492.87	19.91	242.88	194.34	78.79	39.74	492.92	9.05	70.96	193.49
47667	71.36	-15.99	-5.50	76.71	53.76	489.78	19.25	236.87	197.04	75.84	36.12	473.78	9.76	72.43	196.07
47668	70.16	-15.58	-5.50	74.97	56.34	485.49	18.68	229.96	199.77	73.09	32.55	451.56	10.41	74.86	198.90
47669	68.99	-15.11	-5.50	73.69	58.67	479.70	18.37	222.30	202.28	70.80	29.98	427.12	11.27	78.27	201.78
47670	67.85	-14.58	-5.50	73.00	60.72	472.13	18.52	214.08	204.35	69.66	29.89	401.74	12.80	82.78	204.59
47671	66.76	-14.00	-5.50	73.06	62.48	462.47	19.32	205.47	205.80	71.35	33.62	377.22	15.57	88.80	207.27
47672	77.77	-18.88	-5.50	120.58	42.04	457.31	25.26	221.52	178.58	120.61	45.04	485.48	7.64	58.44	180.83
47673	76.43	-18.79	-5.50	117.41	43.75	456.54	26.14	220.50	178.74	117.25	44.72	483.57	9.34	56.33	181.76
47674	75.09	-18.61	-5.50	113.63	46.03	454.76	26.86	218.64	179.56	113.22	43.75	477.75	11.03	55.39	183.27
47675	73.77	-18.35	-5.50	109.29	48.67	452.00	27.44	215.98	180.96	108.57	42.19	468.09	12.52	55.92	185.28
47676	72.48	-18.01	-5.50	104.51	51.46	448.29	27.89	212.57	182.82	103.35	40.16	454.73	13.71	58.02	187.65
47677	71.22	-17.59	-5.50	99.38	54.21	443.62	28.21	208.46	185.00	97.56	37.82	437.88	14.52	61.64	190.26
47678	69.98	-17.09	-5.50	94.06	56.81	437.99	28.44	203.70	187.29	91.16	35.55	417.94	14.94	66.67	192.99
47679	68.79	-16.51	-5.50	88.73	59.20	431.40	28.63	198.37	189.51	84.11	33.98	395.55	15.00	73.07	195.73
47680	67.64	-15.87	-5.50	83.65	61.36	423.83	28.88	192.55	191.50	76.49	34.15	371.73	14.88	80.87	198.44
47681	66.54	-15.15	-5.50	79.08	63.27	415.30	29.35	186.37	193.13	69.07	37.15	348.00	15.26	90.09	201.27
47682	61.65	-9.56	-5.50	109.00	68.24	398.49	33.49	160.81	199.00	329.06	85.75	323.81	69.51	162.20	225.44
47683	62.26	-10.65	-5.50	90.70	68.15	392.16	33.63	160.37	202.80	236.71	82.40	315.28	68.94	152.75	225.53
47684	62.93	-11.69	-5.50	79.12	68.56	388.15	33.52	162.39	200.91	155.67	77.09	305.19	53.97	141.58	218.96
47685	62.66	-9.48	-5.50	105.19	60.89	441.73	24.94	184.91	212.51	302.40	64.58	373.05	51.06	122.11	223.09
47686	63.08	-10.42	-5.50	93.09	62.89	435.59	24.86	182.47	212.59	232.99	65.29	355.63	51.98	121.95	222.03
47687	63.54	-11.34	-5.50	83.80	64.90	429.46	25.45	180.82	209.97	168.99	64.65	340.00	45.69	120.21	218.76
47688	63.67	-9.40	-5.50	97.37	53.21	469.50	20.06	206.66	223.55	273.91	42.69	394.89	41.25	95.68	226.44
47689	63.90	-10.21	-5.50	89.97	56.47	464.79	19.42	201.66	221.05	225.38	47.50	378.52	41.82	99.76	223.56
47690	64.15	-11.00	-5.50	83.66	59.72	458.57	19.95	197.52	217.50	177.73	50.70	363.68	40.07	101.63	220.32
47691	65.52	-14.37	-5.50	75.45	64.77	406.91	30.22	180.10	194.69	65.00	44.09	327.48	17.60	101.11	203.75
47692	65.80	-13.39	-5.50	73.91	63.70	452.50	20.73	197.66	206.89	78.47	40.85	357.77	19.89	95.97	209.44
47693	66.09	-12.43	-5.50	69.66	57.66	477.10	15.60	214.27	216.93	101.62	32.01	372.89	22.95	89.53	215.55
47694	64.59	-13.54	-5.50	73.45	66.45	398.93	31.25	173.99	196.22	72.17	53.80	312.34	24.29	113.42	207.33
47695	64.97	-12.78	-5.50	75.39	64.66	442.70	22.46	190.94	207.62	94.42	48.86	344.49	26.40	103.61	211.89
47696	65.35	-12.03	-5.50	73.75	59.20	469.78	17.13	206.71	216.70	118.83	39.21	364.73	27.71	94.05	216.58
47697	63.71	-12.66	-5.50	74.06	67.84	391.05	32.71	167.81	197.98	99.93	65.72	303.61	37.00	126.07	212.14
47698	64.17	-12.13	-5.50	78.17	65.40	432.03	24.66	184.20	208.05	121.98	58.32	336.22	35.93	112.24	214.76
47699	64.64	-11.61	-5.50	78.43	60.59	460.35	19.16	199.01							



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
47727	68.62	-10.82	-6.90	57.62	33.61	504.89	21.25	298.11	267.10	265.14	34.83	399.43	66.42	90.03	267.94
47728	67.53	-10.63	-6.90	65.18	36.39	514.41	21.80	285.87	264.44	296.08	28.93	397.17	75.29	96.24	264.07
47729	77.82	-13.48	-6.90	44.26	27.13	466.47	4.87	318.74	260.93	150.62	56.57	495.28	17.91	114.32	262.65
47730	76.57	-13.42	-6.90	42.80	27.96	468.57	7.04	318.20	260.33	153.65	54.93	490.72	23.45	108.79	262.14
47731	75.34	-13.32	-6.90	42.44	29.47	472.95	9.31	316.53	259.87	157.15	52.77	484.06	28.95	103.65	261.68
47732	74.12	-13.19	-6.90	43.04	31.47	479.25	11.37	313.68	259.52	161.65	50.09	475.41	34.39	99.23	261.21
47733	72.92	-13.03	-6.90	44.41	33.78	486.93	13.11	309.58	259.22	167.83	46.88	464.96	39.85	95.83	260.65
47734	71.75	-12.83	-6.90	46.44	36.23	495.36	14.51	304.11	258.89	176.47	43.14	453.07	45.51	93.77	259.89
47735	70.59	-12.61	-6.90	49.19	38.68	503.76	15.60	297.16	258.42	188.48	38.90	440.29	51.60	93.35	258.82
47736	69.46	-12.35	-6.90	52.89	41.02	511.22	16.46	288.66	257.67	204.92	34.32	427.43	58.46	94.99	257.34
47737	68.35	-12.06	-6.90	57.85	43.20	516.72	17.25	278.66	256.51	227.06	29.75	415.45	66.53	99.19	256.42
47738	67.26	-11.74	-6.90	64.31	45.20	519.29	18.26	267.28	254.82	256.40	26.12	405.30	76.38	106.77	255.13
47739	77.80	-15.28	-6.90	58.15	40.73	507.92	3.64	297.04	239.03	127.53	59.37	535.45	17.40	107.33	239.64
47740	76.50	-15.20	-6.90	56.33	41.69	508.71	5.71	296.30	238.98	129.08	57.62	530.79	22.63	103.21	239.44
47741	75.23	-15.07	-6.90	55.16	43.18	510.38	7.47	294.41	239.36	131.01	55.29	522.91	27.72	99.59	239.56
47742	73.98	-14.90	-6.90	54.59	45.01	512.66	8.98	291.37	240.11	133.77	52.39	511.95	32.70	96.82	239.96
47743	72.74	-14.67	-6.90	54.54	46.97	515.19	10.28	287.16	241.12	137.93	48.96	498.10	37.69	95.19	240.54
47744	71.54	-14.40	-6.90	54.99	48.87	517.53	11.41	281.73	242.24	144.24	45.07	481.73	42.89	94.96	241.20
47745	70.36	-14.08	-6.90	56.03	50.57	519.16	12.40	275.05	243.27	153.59	40.89	463.42	48.62	96.38	241.78
47746	69.21	-13.72	-6.90	57.86	51.97	519.48	13.34	267.10	244.00	167.11	36.78	444.06	55.29	99.77	242.17
47747	68.09	-13.31	-6.90	60.72	53.00	517.85	14.42	257.97	244.23	186.22	33.48	424.77	63.48	105.60	242.28
47748	67.00	-12.86	-6.90	64.86	53.74	513.72	15.94	247.79	243.77	212.67	32.26	406.87	73.86	114.55	242.16
47749	77.78	-17.07	-6.90	79.84	53.35	524.29	6.35	272.25	214.94	113.61	64.25	549.73	15.42	96.42	214.92
47750	76.46	-16.99	-6.90	77.61	54.29	524.02	7.77	271.37	215.30	113.39	62.85	545.51	20.01	93.41	215.16
47751	75.15	-16.84	-6.90	75.44	55.53	523.30	8.99	269.41	216.36	113.32	60.78	537.25	24.43	91.09	216.02
47752	73.86	-16.62	-6.90	73.33	56.89	522.01	10.08	266.42	218.04	113.72	58.08	525.10	28.73	89.84	217.45
47753	72.60	-16.34	-6.90	71.30	58.18	520.01	11.08	262.41	220.20	115.07	54.83	509.31	33.00	89.99	219.37
47754	71.36	-15.99	-6.90	69.41	59.27	517.14	12.02	257.39	222.66	118.02	51.16	490.27	37.47	91.75	221.62
47755	70.16	-15.58	-6.90	67.76	60.02	513.21	12.92	251.35	225.15	123.48	47.33	468.59	42.48	95.33	224.06
47756	68.99	-15.11	-6.90	66.56	60.39	508.01	13.86	244.32	227.43	132.66	43.77	445.16	48.54	100.92	226.51
47757	67.85	-14.58	-6.90	66.09	60.36	501.36	15.00	236.39	229.22	147.23	41.26	421.22	56.38	108.85	228.93
47758	66.76	-14.00	-6.90	66.71	59.98	493.15	16.66	227.67	230.33	169.34	40.89	398.31	66.80	119.65	231.26
47759	77.77	-18.88	-6.90	108.08	53.62	491.28	7.99	244.51	185.43	117.82	59.02	512.74	11.84	80.48	186.43
47760	76.43	-18.79	-6.90	105.32	54.68	490.57	10.45	243.59	186.04	115.73	58.37	509.80	15.76	78.74	187.48
47761	75.09	-18.61	-6.90	101.81	56.04	488.95	12.95	241.77	187.56	113.07	57.35	503.16	19.63	78.16	189.35
47762	73.77	-18.35	-6.90	97.67	57.57	486.47	15.25	239.10	189.97	110.12	56.00	492.96	23.36	79.09	192.00
47763	72.48	-18.01	-6.90	93.02	59.11	483.15	17.23	235.62	193.14	107.29	54.32	479.38	26.98	81.74	195.36
47764	71.22	-17.59	-6.90	88.01	60.50	478.99	18.79	231.34	196.92	105.18	52.36	462.66	30.62	86.18	199.31
47765	69.98	-17.09	-6.90	82.86	61.61	474.01	19.90	226.26	201.06	104.76	50.24	443.22	34.63	92.43	203.74
47766	68.79	-16.51	-6.90	77.85	62.35	468.24	20.62	220.43	205.27	107.44	48.24	421.70	39.58	100.57	208.54
47767	67.64	-15.87	-6.90	73.39	62.65	461.72	21.13	213.93	209.26	115.22	46.92	399.07	46.43	110.80	213.61
47768	66.54	-15.15	-6.90	69.95	62.52	454.59	21.79	206.96	212.79	130.86	47.19	376.71	56.42	123.39	219.06
47769	61.65	-9.56	-6.90	143.58	57.59	449.10	43.84	174.63	224.24	650.46	62.31	340.33	179.27	207.93	256.94
47770	62.26	-10.65	-6.90	110.51	59.35	442.75	40.08	177.20	225.37	490.73	68.99	335.91	175.28	207.52	254.95
47771	62.93	-11.69	-6.90	87.18	60.60	437.37	34.14	180.71	223.87	357.60	71.45	331.00	148.57	196.91	247.93
47772	62.66	-9.48	-6.90	128.91	51.31	485.41	35.07	203.69	237.63	587.39	41.10	382.04	146.10	177.50	250.04
47773	63.08	-10.42	-6.90	107.26	54.24	477.84	32.74	202.24	236.21	475.37	48.33	369.22	137.56	179.06	248.35
47774	63.54	-11.34	-6.90	89.89	56.80	470.32	29.44	201.08	233.48	373.11	54.16	358.78	135.47	174.85	245.07
47775	63.67	-9.40	-6.90	115.15	45.60	508.82	29.80	229.85	248.63	526.97	25.92	403.35	121.91	150.63	251.85
47776	63.90	-10.21	-6.90	102.12	49.29	502.24	27.97	224.79	245.50	453.40	33.31	390.33	125.33	154.64	248.90
47777	64.15	-11.00	-6.90	90.23	52.65	494.62	26.04	220.47	241.82	379.78	39.97	379.28	122.68	153.92	245.78
47778	65.52	-14.37	-6.90	68.17	61.97	447.88	23.01	199.91	215.96	156.80	50.68	357.19	70.31	138.91	224.38
47779	65.80	-13.39	-6.90	68.64	59.32	485.08	18.89	219.47	231.10	199.19	43.54	380.00	79.66	132.52	233.47
47780	66.09	-12.43	-6.90	69.71	54.09	508.24	17.87	238.35	242.97	243.40	33.95	393.59	84.80	125.29	242.11
47781	64.59	-13.54	-6.90	69.07	61.53	442.08	25.14	193.26	218.73	198.09	56.95	342.23	90.15	156.94	231.07
47782	64.97	-12.78	-6.90	72.22	58.70	477.71	21.68	212.29	231.63	239.38	47.37	367.06	95.48	146.31	236.46
47783	65.35	-12.03	-6.90	74.86	54.13	502.05	20.16	230.48	242.02	278.05	36.64	384.52	96.54	135.53	242.49
47784	63.71	-12.66	-6.90	74.33	61.10	437.33	28.85	186.73	221.20	260.77	65.39	332.61	117.07	176.31	239.07
47785	64.17	-12.13	-6.90	78.48	58.09	470.35	25.50	204.96	231.74	293.42	52.71	358.13	115.71	161.46	240.25
47786	64.64	-11.61	-6.90	81.37	54.10	494.60	23.32	222.11	240.61	321.28	39.09	377.53	111.16	148.13	243.54
47787	66.76	-9.49	-8.30	98.41	30.36	548.23	41.01	317.60	295.00	528.97	59.83	410.96	138.25	157.80	295.32
47788	65.73	-9.44	-8.30	106.79	32.43	557.27	41.51	302.39	290.88	584.19	51.41	417.13	153.59	180.77	290.25
47789	64.69	-9.39	-8.30	117.79	34.89	560.02	42.45	284.49	285.37	651.05	43.10	421.41	172.51	207.95	285.47
47790	66.54	-10.47	-8.30	90.86	35.61	554.39	37.99	301.63	288.36	481.59	46.01	417.59	145.33	165.83	287.76
47791	65.64	-10.33	-8.30	97.70	37.20	557.37	39.03	288.81	284.80	528.60	40.55	417.20	160.39	185.57	284.06
47792	64.75	-10.18	-8.30	106.41	39.04	556.01	40.69	274.52	280.31	584.18	35.89	415.82	178.70	208.63	280.92
47793	66.34	-11.46	-8.30	82.49	41.79	554.87	35.12	284.22	280.97	426.93	36.72	420.78	148.42	172.24	280.00
47794	65.57	-11.21	-8.30	88.05	42.33	553.59	36.64	274.53	278.45	467.26	35.02	415.51	162.82	188.37	278.19
47795	64.82	-10.96	-8.30	95.29	43.24	549.88	38.43	263.41	275.07	516.03	34.50	410.26	178.23	208.54	276.59
47796	77.88	-9.89	-8.30	49.36	26.16	392.85	15.54	364.83	307.20	296.75	84.63	419.04	33.29	1	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
47825	67.26	-11.74	-8.30	77.16	41.02	553.29	33.59	294.11	283.18	385.19	39.61	427.97	132.92	156.04	282.26
47826	77.80	-15.28	-8.30	51.19	39.38	536.20	7.38	308.41	267.77	193.62	66.77	557.66	37.66	130.66	268.29
47827	76.50	-15.20	-8.30	50.79	40.10	537.03	9.99	308.31	267.90	197.54	64.99	552.61	45.80	126.39	268.35
47828	75.23	-15.07	-8.30	51.82	41.27	538.90	13.17	307.56	268.43	202.39	62.58	544.59	54.00	122.98	268.75
47829	73.98	-14.90	-8.30	53.85	42.71	541.56	16.38	306.10	269.30	208.73	59.56	533.72	62.29	120.88	269.43
47830	72.74	-14.67	-8.30	56.33	44.26	544.69	19.45	303.83	270.40	217.28	56.04	520.20	70.81	120.54	270.26
47831	71.54	-14.40	-8.30	58.82	45.73	547.88	22.25	300.56	271.59	228.87	52.11	504.36	79.80	122.35	271.11
47832	70.36	-14.08	-8.30	61.15	46.95	550.67	24.70	296.05	272.66	244.51	47.95	486.74	89.62	126.67	271.80
47833	69.21	-13.72	-8.30	63.40	47.82	552.48	26.78	290.04	273.37	265.34	43.84	468.16	100.75	133.92	272.17
47834	68.09	-13.31	-8.30	65.99	48.25	552.71	28.60	282.41	273.44	292.73	40.24	449.66	113.79	144.69	272.07
47835	67.00	-12.86	-8.30	69.52	48.34	550.80	30.42	273.24	272.62	328.45	37.91	432.32	129.43	159.82	271.54
47836	77.78	-17.07	-8.30	65.69	48.96	558.87	4.74	287.79	239.07	161.84	65.31	578.18	34.84	121.13	239.06
47837	76.46	-16.99	-8.30	64.30	49.80	558.72	7.89	287.33	239.63	164.28	63.55	573.39	41.98	118.11	239.50
47838	75.15	-16.84	-8.30	63.34	51.00	558.32	11.15	286.08	240.87	167.46	61.31	564.84	49.11	115.94	240.55
47839	73.86	-16.62	-8.30	62.71	52.39	557.54	14.32	284.06	242.75	171.86	58.66	552.67	56.33	115.13	242.18
47840	72.60	-16.34	-8.30	62.26	53.75	556.23	17.31	281.24	245.18	178.11	55.72	537.12	63.78	116.15	244.33
47841	71.36	-15.99	-8.30	61.86	54.92	554.25	20.03	277.51	248.02	186.95	52.66	518.53	71.75	119.37	246.91
47842	70.16	-15.58	-8.30	61.48	55.70	551.44	22.41	272.74	251.03	199.33	49.66	497.47	80.68	125.11	249.78
47843	68.99	-15.11	-8.30	61.30	55.99	547.60	24.42	266.79	253.91	216.42	47.02	474.75	91.15	133.69	252.76
47844	67.85	-14.58	-8.30	61.70	55.70	542.58	26.17	259.63	256.29	239.73	45.24	451.53	103.92	145.57	255.69
47845	66.76	-14.00	-8.30	63.26	54.87	536.31	27.98	251.39	257.81	271.39	45.01	429.20	119.75	161.50	258.57
47846	77.77	-18.88	-8.30	88.91	51.58	539.53	4.34	265.77	195.94	140.85	59.70	556.00	28.08	107.20	196.31
47847	76.43	-18.79	-8.30	86.66	52.56	538.92	8.26	264.97	196.97	141.82	58.61	552.29	33.94	105.83	197.50
47848	75.09	-18.61	-8.30	83.81	53.95	537.55	12.08	263.30	199.22	143.06	57.45	545.02	39.98	105.60	199.79
47849	73.77	-18.35	-8.30	80.47	55.56	535.43	15.62	260.82	202.69	144.99	56.27	534.34	46.23	106.96	203.21
47850	72.48	-18.01	-8.30	76.72	57.20	532.54	18.74	257.58	207.28	148.20	55.13	520.38	52.78	110.23	207.70
47851	71.22	-17.59	-8.30	72.70	58.69	528.89	21.35	253.56	212.80	153.42	54.08	503.39	59.87	115.60	213.19
47852	69.98	-17.09	-8.30	68.60	59.81	524.47	23.39	248.70	218.98	161.56	53.19	483.71	67.88	123.21	219.55
47853	68.79	-16.51	-8.30	64.76	60.38	519.29	24.88	242.98	225.42	173.86	52.61	461.94	77.46	133.30	226.61
47854	67.64	-15.87	-8.30	61.68	60.25	513.42	25.98	236.47	231.66	191.91	52.63	438.99	89.53	146.25	234.17
47855	66.54	-15.15	-8.30	60.04	59.35	507.04	27.12	229.41	237.18	218.20	53.76	416.16	105.27	162.63	242.17
47856	61.65	-9.56	-8.30	170.69	47.76	510.05	57.95	200.14	253.99	909.67	48.27	371.43	275.37	298.82	294.83
47857	62.26	-10.65	-8.30	125.53	51.37	501.24	52.60	203.51	252.96	686.07	62.55	365.19	265.00	290.09	290.54
47858	62.93	-11.69	-8.30	93.41	53.64	494.55	44.31	205.97	250.94	510.44	70.75	362.76	227.76	268.24	281.24
47859	62.66	-9.48	-8.30	148.79	42.41	538.27	49.15	233.07	266.75	812.78	34.20	403.31	230.18	271.60	283.10
47860	63.08	-10.42	-8.30	120.38	46.31	529.32	46.48	230.56	263.98	663.58	41.79	391.87	229.74	262.99	280.26
47861	63.54	-11.34	-8.30	97.03	49.58	521.19	41.98	227.83	260.85	531.27	50.67	384.91	212.38	248.06	276.05
47862	63.67	-9.40	-8.30	131.92	38.25	554.32	44.49	260.88	277.16	729.07	34.97	418.61	196.90	240.95	281.96
47863	63.90	-10.21	-8.30	114.82	42.09	547.43	42.81	254.38	273.34	634.21	34.03	408.63	200.78	236.72	278.65
47864	64.15	-11.00	-8.30	98.71	45.59	540.03	40.36	248.61	269.41	540.20	38.05	401.27	196.49	227.44	275.35
47865	65.52	-14.37	-8.30	60.63	57.85	501.13	28.82	222.37	241.82	254.98	57.32	395.80	125.18	183.37	249.96
47866	65.80	-13.39	-8.30	66.46	53.73	530.19	30.11	243.58	258.74	311.05	46.97	410.91	138.09	180.49	261.35
47867	66.09	-12.43	-8.30	73.95	48.17	547.56	32.27	264.38	271.37	368.27	37.69	419.06	145.21	177.08	271.13
47868	64.59	-13.54	-8.30	64.70	56.29	496.36	31.83	216.16	245.47	308.62	62.44	379.42	151.72	208.44	259.13
47869	64.97	-12.78	-8.30	72.03	52.52	524.79	32.94	236.95	259.24	362.34	49.30	397.31	159.45	201.34	265.11
47870	65.35	-12.03	-8.30	79.51	47.76	543.58	34.35	256.97	270.05	412.17	38.46	409.59	161.34	193.75	271.42
47871	63.71	-12.66	-8.30	74.20	54.90	493.10	36.90	210.64	248.20	387.58	68.62	367.59	186.53	236.99	269.71
47872	64.17	-12.13	-8.30	81.04	51.38	519.81	37.03	230.46	259.14	430.28	52.48	387.09	186.06	224.87	269.97
47873	64.64	-11.61	-8.30	87.09	47.17	538.80	37.28	249.12	268.38	466.41	38.87	401.90	181.00	213.55	272.81
47874	90.13	-9.49	-2.70	70.53	51.84	398.58	40.96	216.44	249.27	105.60	50.07	298.77	41.14	80.30	247.03
47875	91.17	-9.45	-2.70	76.33	58.19	406.79	47.34	201.29	247.27	119.94	55.48	294.33	46.69	83.99	244.73
47876	92.20	-9.40	-2.70	83.75	65.84	413.44	55.02	186.29	244.62	137.67	62.41	295.76	53.58	90.26	241.92
47877	90.34	-10.49	-2.70	80.54	59.42	407.84	43.42	209.85	238.92	118.74	55.26	309.66	42.06	86.74	235.98
47878	91.24	-10.34	-2.70	85.77	65.48	413.44	49.41	197.84	238.39	131.54	60.82	305.54	47.40	90.99	235.29
47879	92.14	-10.19	-2.70	92.23	72.91	418.12	56.27	185.96	237.38	146.91	67.76	306.42	53.73	96.47	234.29
47880	90.53	-11.48	-2.70	92.15	69.61	417.51	47.16	203.89	228.24	134.12	63.17	322.00	43.26	94.70	224.61
47881	91.30	-11.24	-2.70	96.81	74.76	420.71	52.28	194.92	229.30	145.19	68.13	317.98	48.25	98.49	225.71
47882	92.06	-10.98	-2.70	102.53	81.70	423.61	58.50	185.99	230.06	158.35	74.80	318.01	54.31	102.96	226.68
47883	79.02	-9.90	-2.70	40.49	17.36	301.27	10.90	305.41	241.23	57.39	22.97	355.62	25.76	72.33	242.86
47884	80.14	-9.88	-2.70	42.04	18.80	303.96	10.72	303.79	243.53	54.47	24.76	355.28	23.61	75.92	244.94
47885	81.27	-9.87	-2.70	43.91	20.91	309.57	11.51	300.48	245.61	53.76	26.75	353.52	22.39	78.58	246.73
47886	82.40	-9.84	-2.70	46.07	23.52	317.72	13.25	295.49	247.43	54.92	28.89	350.39	22.12	80.29	248.22
47887	83.52	-9.81	-2.70	48.51	26.51	327.93	15.73	288.81	248.94	57.68	31.15	345.90	22.77	81.09	249.36
47888	84.63	-9.77	-2.70	51.23	29.84	339.61	18.79	280.43	250.12	61.87	33.56	340.07	24.25	81.07	250.12
47889	85.75	-9.72	-2.70	54.25	33.47	352.14	22.30	270.40	250.91	67.46	36.14	332.95	26.44	80.42	250.46
47890	86.86	-9.67	-2.70	57.62	37.42	364.89	26.22	258.77	251.27	74.50	38.96	324.71	29.24	79.46	250.35
47891	87.96	-9.62	-2.70	61.41	41.78	377.25	30.60	245.69	251.16	83.12	42.15	315.66	32.60	78.67	249.76
47892	89.06	-9.55	-2.70	65.71	46.63	388.67	35.53	231.37	250.54	93.49	45.87	306.50	36.59	78.71	248.68
47893	79.04	-11.69	-2.70	48.78	21.56	335.30	16.28	292.84	222.24	66.04	23.96	387.18	26.97	70.16	223.66
47894	80.22	-11.66	-2.70	50.97	23.07	337.12	15.78	291.42	224.65	64.71	25.62	385.41	24.62	73.07	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
47923	79.11	-17.08	-2.70	89.27	60.85	447.70	57.02	247.58	149.20	112.11	62.98	496.57	24.97	47.75	149.43
47924	80.42	-17.00	-2.70	92.81	62.67	447.36	56.03	247.41	152.21	114.30	62.99	489.45	23.20	53.93	151.92
47925	81.71	-16.86	-2.70	96.40	65.66	447.26	55.09	245.76	156.51	117.64	63.99	479.24	22.08	61.65	155.46
47926	82.99	-16.64	-2.70	100.05	69.63	447.30	54.25	242.72	161.92	122.04	65.93	466.24	21.74	69.98	159.95
47927	84.25	-16.36	-2.70	103.80	74.40	447.46	53.60	238.36	168.17	127.49	68.78	450.94	22.32	78.30	165.30
47928	85.49	-16.02	-2.70	107.71	79.79	447.69	53.27	232.77	174.99	134.04	72.45	433.93	23.93	86.20	171.34
47929	86.70	-15.61	-2.70	111.85	85.67	447.88	53.38	226.05	182.10	141.77	76.88	415.98	26.62	93.41	177.89
47930	87.87	-15.14	-2.70	116.29	91.91	447.93	54.13	218.35	189.21	150.81	81.97	398.07	30.42	99.75	184.75
47931	89.01	-14.61	-2.70	121.14	98.42	447.66	55.77	209.86	196.06	161.31	87.65	381.44	35.38	105.14	191.69
47932	90.11	-14.02	-2.70	126.44	105.14	446.92	58.58	200.80	202.44	173.42	93.86	367.67	41.57	109.66	198.47
47933	91.12	-13.88	-2.70	131.46	111.27	470.01	106.32	211.64	158.36	139.50	120.21	515.00	31.46	33.87	163.99
47934	92.06	-13.88	-2.70	136.75	117.91	468.72	104.94	211.86	160.56	143.85	119.81	505.31	31.12	42.72	164.90
47935	92.99	-13.88	-2.70	142.04	124.55	467.43	103.75	211.08	162.79	149.83	120.34	492.26	30.85	52.17	166.90
47936	93.91	-13.86	-2.70	147.33	131.19	466.07	102.84	209.36	167.95	157.27	121.75	476.37	30.70	61.49	169.95
47937	94.84	-13.82	-2.70	152.62	137.83	464.76	102.11	206.76	172.83	166.02	123.99	458.26	30.79	70.30	173.91
47938	95.77	-13.77	-2.70	157.91	144.47	463.45	101.48	204.17	177.72	175.97	126.94	438.70	31.39	78.41	178.57
47939	96.70	-13.70	-2.70	163.20	151.08	462.14	100.85	199.28	183.81	186.99	130.46	418.64	32.89	85.77	183.70
47940	97.63	-13.63	-2.70	168.49	157.69	460.83	100.22	194.68	189.37	198.92	134.34	399.20	35.77	92.45	189.00
47941	98.56	-13.56	-2.70	173.78	164.30	459.52	99.59	189.79	194.63	211.61	138.28	381.70	40.44	98.64	194.18
47942	99.49	-13.49	-2.70	179.07	170.91	458.16	98.96	184.97	199.40	224.92	142.08	367.49	47.21	104.67	199.01
47943	100.42	-13.42	-2.70	184.36	177.52	456.80	98.33	180.16	204.15	239.20	145.92	352.28	54.94	110.70	203.92
47944	101.35	-13.35	-2.70	189.65	184.13	455.44	97.70	175.35	208.40	253.48	149.79	337.77	63.67	116.82	208.83
47945	102.28	-13.28	-2.70	194.94	190.74	454.08	97.07	170.54	212.65	268.76	153.66	322.24	73.40	122.94	213.74
47946	103.21	-13.21	-2.70	200.23	197.35	452.72	96.44	165.73	216.90	284.04	157.53	307.01	84.11	129.06	218.65
47947	104.14	-13.14	-2.70	205.52	203.96	451.36	95.81	160.92	221.15	299.32	161.41	291.78	95.82	135.18	223.56
47948	105.07	-13.07	-2.70	210.81	210.57	450.00	95.18	156.11	225.40	314.64	165.29	276.55	108.51	141.30	228.47
47949	106.00	-13.00	-2.70	216.10	217.18	448.64	94.55	151.30	229.55	329.96	169.16	261.32	123.40	147.42	233.38
47950	106.93	-12.93	-2.70	221.39	223.79	447.28	93.92	146.49	233.70	345.48	173.03	246.09	140.29	153.54	238.29
47951	107.86	-12.86	-2.70	226.68	230.40	445.92	93.29	141.68	238.05	361.00	176.90	230.86	159.18	159.66	243.20
47952	108.79	-12.79	-2.70	231.97	237.01	444.56	92.66	136.87	242.40	376.51	180.77	215.63	178.07	165.78	248.11
47953	109.72	-12.72	-2.70	237.26	243.62	443.20	92.03	132.06	246.75	392.02	184.64	200.40	196.18	171.90	253.02
47954	110.65	-12.65	-2.70	242.55	250.23	441.84	91.40	127.25	251.10	407.53	188.51	185.13	217.29	177.81	257.93
47955	111.58	-12.58	-2.70	247.84	256.84	440.48	90.77	122.44	255.45	422.96	192.38	170.00	236.60	183.72	262.84
47956	112.51	-12.51	-2.70	253.13	263.45	439.12	90.14	117.63	259.80	438.87	196.25	152.89	255.09	189.53	267.75
47957	113.44	-12.44	-2.70	258.42	270.06	437.76	89.51	112.82	264.15	454.78	200.12	135.78	273.58	195.34	272.66
47958	114.37	-12.37	-2.70	263.71	276.67	436.40	88.88	108.01	268.50	470.69	204.01	118.67	292.07	201.15	277.57
47959	115.30	-12.30	-2.70	269.00	283.28	435.04	88.25	103.20	272.85	486.60	207.90	101.56	310.56	207.00	282.48
47960	116.23	-12.23	-2.70	274.29	289.89	433.68	87.62	98.39	277.20	502.51	211.79	84.45	329.05	212.81	287.39
47961	117.16	-12.16	-2.70	279.58	296.50	432.32	87.00	93.58	281.55	518.42	216.08	67.34	347.54	218.62	292.30
47962	118.09	-12.09	-2.70	284.87	303.11	430.96	86.37	88.77	285.90	534.33	220.47	50.23	366.03	224.43	297.21
47963	119.02	-12.02	-2.70	290.16	309.72	429.60	85.74	83.96	290.25	550.24	224.36	33.12	384.52	230.24	302.12
47964	119.95	-11.95	-2.70	295.45	316.33	428.24	85.11	79.15	294.60	566.15	228.25	16.01	403.01	236.05	307.03
47965	120.88	-11.88	-2.70	300.74	322.94	426.88	84.48	74.34	298.95	582.06	232.14	-1.10	421.50	241.86	311.94
47966	121.81	-11.81	-2.70	306.03	329.55	425.52	83.85	69.53	303.30	597.97	236.03	-13.99	440.00	247.67	316.85
47967	122.74	-11.74	-2.70	311.32	336.16	424.16	83.22	64.72	307.65	613.88	240.02	-26.88	458.49	253.48	321.76
47968	123.67	-11.67	-2.70	316.61	342.77	422.80	82.59	59.91	312.00	629.79	243.91	-39.77	476.98	259.29	326.67
47969	124.60	-11.60	-2.70	321.90	349.38	421.44	81.96	55.10	316.35	645.70	247.80	-52.66	495.47	265.10	331.58
47970	125.53	-11.53	-2.70	327.19	356.00	420.08	81.33	50.29	320.70	661.61	251.69	-65.55	513.96	270.91	336.49
47971	126.46	-11.46	-2.70	332.48	362.61	418.72	80.70	45.48	325.05	677.52	255.58	-78.44	532.45	276.72	341.40
47972	127.39	-11.39	-2.70	337.77	369.22	417.36	80.07	40.67	329.40	693.43	259.47	-91.33	550.94	282.53	346.31
47973	128.32	-11.32	-2.70	343.06	375.83	416.00	79.44	35.86	333.75	709.32	263.36	-104.22	569.43	288.34	351.22
47974	129.25	-11.25	-2.70	348.35	382.44	414.64	78.81	31.05	338.10	725.21	267.25	-117.11	587.92	294.15	356.13
47975	130.18	-11.18	-2.70	353.64	389.05	413.28	78.18	26.24	342.45	741.10	271.14	-130.00	606.41	300.00	361.04
47976	131.11	-11.11	-2.70	358.93	395.66	411.92	77.55	21.43	346.80	757.00	275.03	-142.89	624.90	305.85	365.95
47977	132.04	-11.04	-2.70	364.22	402.27	410.56	76.92	16.62	351.15	772.89	278.92	-155.78	643.39	311.70	370.86
47978	132.97	-10.97	-2.70	369.51	408.88	409.20	76.29	11.81	355.50	788.78	282.81	-168.67	661.88	317.55	375.77
47979	133.90	-10.90	-2.70	374.80	415.49	407.84	75.66	7.00	359.85	804.67	286.70	-181.56	680.37	323.40	380.68
47980	134.83	-10.83	-2.70	380.09	422.10	406.48	75.03	2.19	364.20	820.56	290.59	-194.45	698.86	329.25	385.59
47981	135.76	-10.76	-2.70	385.38	428.71	405.12	74.40	-2.62	368.55	836.45	294.48	-207.34	717.35	335.10	390.50
47982	136.69	-10.69	-2.70	390.67	435.32	403.76	73.77	-7.41	372.90	852.34	298.37	-220.23	735.84	340.95	395.41
47983	137.62	-10.62	-2.70	395.96	441.93	402.40	73.14	-12.20	377.25	868.23	302.26	-233.12	754.33	346.80	400.32
47984	138.55	-10.55	-2.70	401.25	448.54	401.04	72.51	-17.00	381.60	884.12	306.15	-246.01	772.82	352.65	405.23
47985	139.48	-10.48	-2.70	406.54	455.15	399.68	71.88	-21.79	385.95	900.01	310.04	-258.90	791.31	358.50	410.14
47986	140.41	-10.41	-2.70	411.83	461.76	398.32	71.25	-26.58	390.30	915.90	313.93	-271.79	809.80	364.35	415.05
47987	141.34	-10.34	-2.70	417.12	468.37	396.96	70.62	-31.37	394.65	931.79	317.82	-284.68	828.29	370.20	419.96
47988	142.27	-10.27	-2.70	422.41	474.98	395.60	70.00	-36.16	399.00	947.68	321.71	-297.57	846.78	376.05	424.87
47989	143.20	-10.20	-2.70	427.70	481.59	394.24	69.37	-40.95	403.35	963.57	325.60	-310.46	865.27	381.90	429.78
47990	144.13	-10.13	-2.70	432.99	488.20	392.88	68.74	-45.74	407.70	979.46	329.49	-323.35	883.76	387.75	434.69
47991	145.06	-10.06	-2.70	438.28	494.81	391.52	68.11	-50.53							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
48021	80.45	-18.79	-4.10	129.81	20.47	444.23	56.92	201.48	171.99	141.28	14.01	472.40	19.72	47.70	174.06
48022	81.78	-18.62	-4.10	132.42	27.21	442.20	54.97	200.46	173.89	144.25	12.14	461.93	19.15	51.67	175.07
48023	83.09	-18.37	-4.10	134.66	35.07	439.30	52.46	198.73	176.28	147.28	10.80	448.43	18.23	55.53	176.73
48024	84.38	-18.03	-4.10	136.45	43.18	435.56	49.54	196.36	179.03	150.19	10.83	432.40	17.11	59.05	178.95
48025	85.65	-17.61	-4.10	137.71	51.11	431.01	46.47	193.39	181.95	152.81	12.67	414.37	16.19	62.13	181.59
48026	86.88	-17.11	-4.10	138.35	58.59	425.64	43.60	189.93	184.85	154.93	15.88	395.04	16.18	64.80	184.45
48027	88.08	-16.54	-4.10	138.27	65.39	419.45	41.38	186.10	187.49	156.32	19.78	375.19	17.86	67.26	187.29
48028	89.23	-15.88	-4.10	137.38	71.33	412.37	40.34	182.07	189.66	156.75	23.80	355.73	21.54	69.83	189.84
48029	90.34	-15.16	-4.10	135.53	76.20	404.32	40.95	178.08	191.21	155.95	27.48	337.59	26.95	72.99	191.92
48030	95.25	-9.56	-4.10	99.86	81.60	375.51	67.00	160.04	197.50	122.94	35.01	305.28	66.61	106.18	199.84
48031	94.64	-10.65	-4.10	108.49	83.12	375.95	62.04	163.22	194.87	130.85	35.27	302.12	60.81	101.83	197.46
48032	93.96	-11.70	-4.10	116.19	83.96	376.26	57.12	165.59	192.76	138.04	34.87	300.52	54.62	96.65	195.50
48033	94.23	-9.48	-4.10	95.47	72.72	430.34	59.97	166.79	220.14	120.69	40.46	321.80	59.70	83.15	219.58
48034	93.81	-10.44	-4.10	103.64	75.82	428.44	55.93	169.76	213.58	127.52	39.96	324.06	55.28	84.71	213.25
48035	93.34	-11.36	-4.10	111.42	78.35	425.50	51.73	172.18	207.49	134.36	39.00	325.98	50.41	85.16	207.48
48036	93.22	-9.41	-4.10	85.87	62.68	447.02	52.55	179.71	235.77	109.77	41.66	316.60	52.50	79.42	234.01
48037	92.98	-10.23	-4.10	93.56	66.36	446.83	50.13	180.23	227.84	116.65	41.25	323.96	49.82	81.59	226.10
48038	92.72	-11.03	-4.10	100.97	69.98	445.62	47.24	180.72	219.91	123.27	40.51	330.59	46.46	82.72	218.33
48039	91.36	-14.38	-4.10	132.58	79.68	396.38	43.57	174.48	192.19	153.69	30.81	322.69	33.64	77.34	193.55
48040	91.05	-13.43	-4.10	118.23	73.70	445.83	36.87	187.89	202.49	138.08	35.41	354.51	32.22	82.11	201.28
48041	90.75	-12.48	-4.10	101.37	63.66	455.65	35.54	200.29	215.96	118.34	37.97	355.45	34.50	85.92	213.31
48042	92.30	-13.56	-4.10	128.24	82.15	388.71	47.27	171.23	192.52	149.71	32.92	311.47	40.51	82.70	194.50
48043	91.89	-12.81	-4.10	117.54	76.64	438.15	41.20	181.64	204.10	138.75	37.09	341.68	37.80	82.37	203.44
48044	91.50	-12.07	-4.10	103.05	67.07	452.63	39.47	192.33	216.58	122.32	39.01	345.36	38.33	84.78	214.32
48045	93.18	-12.67	-4.10	122.98	83.58	380.55	51.92	168.19	192.33	144.60	34.18	303.31	47.52	89.17	194.90
48046	92.70	-12.15	-4.10	115.85	78.98	428.85	46.29	175.90	204.77	138.03	38.32	331.23	43.92	83.52	204.70
48047	92.22	-11.64	-4.10	104.24	70.05	447.68	43.93	184.54	216.27	125.49	39.49	336.95	42.82	83.63	214.53
48048	90.12	-9.50	-5.50	61.83	37.85	475.05	37.04	253.61	270.60	67.09	38.39	355.23	38.29	108.27	269.82
48049	91.16	-9.45	-5.50	66.23	42.39	481.91	39.97	236.97	265.28	68.15	35.24	345.16	40.67	99.33	264.43
48050	92.20	-9.40	-5.50	71.33	47.47	482.67	42.81	219.94	258.14	71.27	31.47	334.82	42.94	89.31	257.41
48051	90.31	-10.51	-5.50	70.44	43.40	482.10	34.62	242.00	258.18	72.66	36.00	364.75	36.09	101.34	257.22
48052	91.22	-10.36	-5.50	74.08	47.09	483.94	37.53	228.69	254.33	74.74	32.97	353.24	38.34	94.25	253.45
48053	92.12	-10.20	-5.50	77.83	51.06	481.03	40.43	215.40	249.22	77.42	29.46	341.61	40.65	86.72	248.62
48054	90.50	-11.51	-5.50	79.94	49.45	484.98	32.02	230.09	245.10	80.49	32.81	371.91	33.56	94.40	244.14
48055	91.27	-11.26	-5.50	82.30	52.11	482.66	34.99	220.41	243.17	82.24	30.29	359.32	35.82	89.40	242.43
48056	92.04	-10.99	-5.50	84.27	54.62	477.10	38.10	210.60	240.31	83.66	27.22	346.77	38.45	84.15	239.99
48057	79.01	-9.90	-5.50	33.31	8.05	351.90	2.13	339.67	274.46	108.44	47.64	392.92	1.66	105.24	276.82
48058	80.14	-9.89	-5.50	36.04	9.88	355.35	4.66	337.99	275.99	106.84	48.12	394.44	5.07	111.91	277.97
48059	81.26	-9.87	-5.50	38.95	12.15	362.43	8.27	334.98	277.32	104.31	48.31	394.99	9.16	117.64	278.93
48060	82.38	-9.85	-5.50	41.87	14.68	372.74	12.09	330.58	278.38	100.75	48.20	394.54	13.37	122.21	279.64
48061	83.50	-9.82	-5.50	44.67	17.40	385.74	15.96	324.69	279.12	96.15	47.81	393.01	17.56	125.41	280.04
48062	84.62	-9.78	-5.50	47.31	20.28	400.76	19.80	317.18	279.45	90.65	47.13	390.30	21.66	127.06	280.05
48063	85.73	-9.74	-5.50	49.82	23.32	417.01	23.56	307.94	279.28	84.55	46.13	386.27	25.59	126.99	279.56
48064	86.84	-9.69	-5.50	52.32	26.55	433.61	27.20	296.88	278.47	78.33	44.79	380.74	29.27	125.08	278.45
48065	87.95	-9.63	-5.50	55.03	30.02	449.58	30.68	284.00	276.88	72.76	43.06	373.61	32.66	121.27	276.57
48066	89.05	-9.56	-5.50	58.18	33.75	463.84	34.01	269.40	274.34	68.75	40.91	364.89	35.71	115.60	273.76
48067	79.03	-11.69	-5.50	39.42	10.68	393.57	0.99	323.92	257.63	94.98	43.13	432.37	2.36	102.80	259.88
48068	80.20	-11.67	-5.50	42.31	12.41	396.22	3.00	322.33	259.08	94.10	44.14	432.70	5.19	108.23	261.00
48069	81.36	-11.62	-5.50	45.41	15.00	401.73	6.27	319.39	260.44	92.41	44.84	431.47	8.84	112.85	262.00
48070	82.52	-11.55	-5.50	48.57	18.07	409.77	9.74	315.02	261.65	89.88	45.19	428.68	12.68	116.46	262.83
48071	83.67	-11.46	-5.50	51.69	21.40	419.88	13.32	309.16	262.65	86.61	45.18	424.30	16.55	118.86	263.43
48072	84.82	-11.35	-5.50	54.70	24.88	431.45	16.96	301.70	263.35	82.81	44.79	418.26	20.34	119.87	263.74
48073	85.96	-11.21	-5.50	57.64	28.44	443.75	20.61	292.58	263.65	78.88	43.97	410.49	23.99	119.32	263.66
48074	87.09	-11.06	-5.50	60.58	32.07	455.95	24.25	281.80	263.44	75.35	42.68	400.97	27.43	117.12	263.09
48075	88.20	-10.88	-5.50	63.66	35.76	467.12	27.88	269.44	262.57	72.86	40.89	389.76	30.64	113.25	261.92
48076	89.31	-10.68	-5.50	67.00	39.57	476.25	31.49	255.74	260.88	71.93	38.59	377.07	33.63	107.80	260.01
48077	79.05	-13.49	-5.50	50.58	17.25	437.32	5.19	305.38	235.69	83.86	40.34	474.22	2.97	97.84	237.40
48078	80.26	-13.45	-5.50	53.42	18.39	438.97	4.54	303.94	237.19	83.97	41.50	473.01	5.19	102.11	238.68
48079	81.47	-13.37	-5.50	56.46	20.67	442.49	5.37	301.11	238.85	83.50	42.30	469.51	8.34	105.80	240.03
48080	82.66	-13.26	-5.50	59.59	23.74	447.65	7.50	296.88	240.61	82.51	42.72	463.77	11.74	108.71	241.41
48081	83.85	-13.10	-5.50	62.71	27.26	454.08	10.34	291.19	242.37	81.15	42.72	455.82	15.20	110.60	242.74
48082	85.03	-12.91	-5.50	65.77	31.02	461.30	13.59	283.99	244.00	79.68	42.26	445.71	18.60	111.29	243.95
48083	86.19	-12.69	-5.50	68.75	34.86	468.71	17.08	275.28	245.38	78.43	41.31	433.52	21.86	110.60	244.93
48084	87.33	-12.43	-5.50	71.68	38.69	475.60	20.76	265.14	246.34	77.77	39.84	419.40	24.98	108.43	245.57
48085	88.46	-12.13	-5.50	74.59	42.44	481.13	24.59	253.73	246.71	77.97	37.82	403.65	27.98	104.76	245.72
48086	89.56	-11.80	-5.50	77.46	46.13	484.41	28.60	241.34	246.31	79.02	35.28	386.74	31.00	99.65	245.26
48087	79.08	-15.29	-5.50	67.41	27.77	477.67	11.90	283.41	209.91	80.70	41.99	512.85	4.00	89.73	210.68
48088	80.33	-15.23	-5.50	70.09	28.34	478.19	10.75	282.16	211.59	82.01	42.63	509.80	5.54	93.17	212.27
48089	81.57	-15.12	-5.50	72.88	30.05	479.43	9.69	279.56	213.84	83.01	42.81	503.64	7.96	96.31	214.29
48090	82.81	-14.96	-5.50	75.70	32.65	481.23	9.16	275.62	216.55	83.79	42.53	494.50	10.70	98.89	216.67
48091	84.03	-14.75	-5.50	78.47	35.86										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
48119	93.96	-11.70	-5.50	87.81	64.14	394.67	45.86	174.20	209.67	85.98	19.00	293.45	44.93	86.65	212.59
48120	94.23	-9.48	-5.50	79.82	59.64	445.02	47.80	186.46	233.71	76.72	20.68	309.62	47.76	77.90	234.81
48121	93.81	-10.44	-5.50	85.00	61.08	440.68	44.94	187.55	227.91	82.60	20.43	313.87	44.95	79.14	229.31
48122	93.34	-11.36	-5.50	89.78	62.13	435.78	42.16	188.20	222.47	87.93	20.59	317.98	42.16	79.69	224.12
48123	93.22	-9.41	-5.50	76.81	53.58	472.81	45.57	202.63	247.63	75.21	26.19	324.25	45.38	79.45	247.48
48124	92.98	-10.23	-5.50	82.26	56.03	468.80	42.94	201.37	240.44	80.84	24.96	329.92	42.90	79.62	240.55
48125	92.72	-11.03	-5.50	87.27	58.23	463.32	40.08	200.22	233.49	85.97	23.89	334.41	40.21	79.59	233.91
48126	91.36	-14.38	-5.50	104.38	60.58	411.29	37.31	187.84	204.35	103.83	23.63	329.73	35.03	77.68	206.29
48127	91.05	-13.43	-5.50	99.78	60.37	456.20	30.82	203.59	218.83	99.28	25.12	359.55	31.01	80.31	219.56
48128	90.75	-12.48	-5.50	90.59	55.61	479.06	30.10	217.22	231.77	90.36	28.46	372.29	31.31	86.90	231.32
48129	92.30	-13.56	-5.50	99.15	62.09	404.70	40.37	182.98	206.00	98.21	21.86	314.74	38.62	79.82	208.43
48130	91.89	-12.81	-5.50	97.20	61.40	447.73	34.87	197.53	219.66	96.34	23.21	342.55	34.92	79.19	220.84
48131	91.50	-12.07	-5.50	90.70	57.20	473.03	33.60	210.00	231.59	90.19	26.38	357.42	34.25	83.62	231.52
48132	93.18	-12.67	-5.50	93.72	63.18	397.99	43.31	178.30	207.37	92.38	20.29	301.93	41.95	82.88	210.16
48133	92.70	-12.15	-5.50	93.92	62.09	438.22	38.76	191.59	219.90	92.58	21.38	327.13	38.72	79.08	221.52
48134	92.22	-11.64	-5.50	90.05	58.77	464.82	37.19	202.80	230.75	89.13	24.55	343.09	37.47	80.64	231.10
48135	90.12	-9.50	-6.90	61.30	34.74	510.46	43.38	281.59	289.86	110.98	42.35	383.45	41.94	138.02	289.86
48136	91.16	-9.45	-6.90	62.39	38.18	517.20	45.25	266.14	284.93	102.32	38.49	371.98	43.74	125.81	285.00
48137	92.20	-9.40	-6.90	63.98	42.10	516.62	46.38	249.57	278.36	94.56	34.86	357.85	44.91	111.06	278.65
48138	90.31	-10.51	-6.90	65.62	40.58	516.62	40.73	268.59	278.80	105.36	41.65	392.32	39.39	126.65	278.86
48139	91.22	-10.36	-6.90	66.89	43.08	517.65	42.57	256.02	275.02	99.48	38.33	378.76	41.24	116.44	275.23
48140	92.12	-10.20	-6.90	68.07	45.73	513.28	43.96	242.93	270.13	94.00	35.21	363.43	42.74	105.05	270.63
48141	90.50	-11.51	-6.90	70.91	46.81	517.14	37.82	254.94	267.15	101.07	41.37	397.57	36.89	114.73	267.41
48142	91.27	-11.26	-6.90	71.68	48.19	513.95	39.75	245.62	264.99	97.28	38.71	382.80	38.79	107.29	265.44
48143	92.04	-10.99	-6.90	71.97	49.28	507.55	41.43	235.62	261.89	93.18	35.95	367.28	40.71	99.08	262.66
48144	79.01	-9.90	-6.90	38.69	16.66	374.05	8.48	353.99	292.33	194.99	65.23	408.84	12.27	128.75	294.62
48145	80.14	-9.89	-6.90	41.83	17.37	377.85	10.31	352.58	293.66	189.73	64.58	410.91	9.54	136.55	295.54
48146	81.26	-9.87	-6.90	45.52	18.32	385.57	13.67	350.23	294.88	183.93	63.54	412.31	10.42	143.64	296.38
48147	82.38	-9.85	-6.90	49.31	19.51	396.85	17.70	346.85	295.92	177.39	62.14	412.99	14.07	149.73	297.10
48148	83.50	-9.82	-6.90	52.79	20.93	411.14	21.97	342.30	296.73	169.93	60.39	412.88	18.74	154.49	297.64
48149	84.62	-9.78	-6.90	55.68	22.58	427.77	26.24	336.39	297.22	161.48	58.27	411.83	23.58	157.62	297.88
48150	85.73	-9.74	-6.90	57.83	24.46	445.90	30.38	328.93	297.26	152.09	55.79	409.61	28.24	158.76	297.73
48151	86.84	-9.69	-6.90	59.23	26.58	464.53	34.27	319.72	296.73	141.93	52.92	405.94	32.53	157.59	297.02
48152	87.95	-9.63	-6.90	60.07	28.97	482.47	37.82	308.68	295.45	131.36	49.67	400.48	36.32	153.84	295.60
48153	89.05	-9.56	-6.90	60.66	31.63	498.35	40.93	295.83	293.22	120.84	46.05	392.93	39.52	147.32	293.28
48154	79.03	-11.69	-6.90	40.04	19.10	418.78	7.19	337.40	279.49	171.91	60.13	451.53	12.50	125.42	281.62
48155	80.20	-11.67	-6.90	43.31	19.92	421.77	8.90	336.09	280.70	167.87	60.27	452.50	8.95	131.95	282.49
48156	81.36	-11.62	-6.90	47.10	21.27	427.90	11.98	333.84	281.85	163.30	59.97	452.16	8.78	137.85	283.32
48157	82.52	-11.55	-6.90	50.99	23.07	436.82	15.69	330.55	282.90	158.00	59.25	450.47	11.97	142.84	284.06
48158	83.67	-11.46	-6.90	54.59	25.19	448.08	19.66	326.08	283.76	151.85	58.07	447.37	16.47	146.58	284.64
48159	84.82	-11.35	-6.90	57.66	27.54	461.01	23.69	320.27	284.35	144.83	56.44	442.74	21.20	148.73	284.98
48160	85.96	-11.21	-6.90	60.07	30.04	474.83	27.65	312.92	284.55	137.06	54.33	436.41	25.76	148.94	284.96
48161	87.09	-11.06	-6.90	61.87	32.62	488.54	31.46	303.93	284.24	128.79	51.71	428.19	29.96	146.92	284.46
48162	88.20	-10.88	-6.90	63.26	35.23	500.96	35.03	293.27	283.27	120.42	48.60	417.90	33.72	142.44	283.37
48163	89.31	-10.68	-6.90	64.47	37.87	510.81	38.26	281.13	281.49	112.40	45.08	405.44	36.97	135.47	281.54
48164	79.05	-13.49	-6.90	46.65	27.04	466.49	4.02	318.37	261.85	147.87	57.70	497.29	12.67	119.85	263.41
48165	80.26	-13.45	-6.90	49.69	27.62	468.38	5.65	317.17	263.05	145.11	58.27	496.77	8.40	125.08	264.42
48166	81.47	-13.37	-6.90	53.18	28.90	472.29	8.69	315.00	264.40	141.91	58.35	494.07	6.96	129.80	265.55
48167	82.66	-13.26	-6.90	56.76	30.74	477.96	12.29	311.79	265.82	138.10	57.94	489.20	9.60	133.69	266.74
48168	83.85	-13.10	-6.90	60.14	32.99	485.02	16.15	307.45	267.22	133.62	57.01	482.14	13.95	136.43	267.89
48169	85.03	-12.91	-6.90	63.08	35.47	492.93	20.12	301.82	268.46	128.48	55.55	472.88	18.58	137.66	268.90
48170	86.19	-12.69	-6.90	65.48	38.02	501.02	24.08	294.78	269.40	122.84	53.54	461.38	23.04	137.07	269.65
48171	87.33	-12.43	-6.90	67.37	40.51	508.44	27.95	286.27	269.86	116.95	50.99	447.66	27.16	134.37	269.99
48172	88.46	-12.13	-6.90	68.86	42.81	514.19	31.65	276.35	269.69	111.12	47.92	431.79	30.90	129.43	269.77
48173	89.56	-11.80	-6.90	70.04	44.92	517.22	35.16	265.26	268.74	105.60	44.44	414.01	34.31	122.29	268.88
48174	79.08	-15.29	-6.90	60.44	40.34	507.91	1.24	296.81	239.70	126.17	60.45	536.62	12.29	111.60	240.37
48175	80.33	-15.23	-6.90	62.98	40.53	508.52	1.53	295.72	241.00	124.80	60.89	534.36	7.72	115.71	241.65
48176	81.57	-15.12	-6.90	65.74	41.33	509.84	4.72	293.66	242.76	123.11	60.74	528.98	5.24	119.37	243.31
48177	82.81	-14.96	-6.90	68.52	42.63	511.71	8.27	290.59	244.87	121.00	60.03	520.54	7.38	122.28	245.29
48178	84.03	-14.75	-6.90	71.08	44.29	513.86	12.12	286.47	247.20	118.43	58.74	509.14	11.63	124.12	247.47
48179	85.23	-14.48	-6.90	73.26	46.12	515.96	16.15	281.20	249.56	115.40	56.90	494.91	16.16	124.57	249.71
48180	86.42	-14.16	-6.90	74.94	47.93	517.55	20.25	274.72	251.75	112.01	54.52	478.04	20.53	123.35	251.82
48181	87.58	-13.80	-6.90	76.12	49.59	518.06	24.32	267.01	253.50	108.39	51.65	458.81	24.62	120.26	253.58
48182	88.72	-13.38	-6.90	76.81	50.95	516.86	28.27	258.19	254.57	104.69	48.35	437.63	28.45	115.30	254.77
48183	89.82	-12.92	-6.90	77.06	52.00	513.28	32.04	248.47	254.76	100.95	44.73	415.10	32.07	108.70	255.17
48184	79.10	-17.08	-6.90	81.98	52.75	524.17	4.77	272.18	215.40	113.78	64.89	549.88	10.77	99.74	215.41
48185	80.39	-17.01	-6.90	83.84	52.60	523.63	3.59	271.25	216.75	113.73	64.89	546.11	6.77	103.02	216.72
48186	81.67	-16.87	-6.90	85.50	52.87	522.64	4.27	269.40	218.80	113.36	64.26	538.58	4.69	105.91	218.69
48187	82.95	-16.66	-6.90	86.84	53.49	521.15	6.91	266.65	221.47	112.58	63.04	527.45	6.94	108.11	221.28
48188	84.20	-16.39	-6.90	87.76	54.34	519.07	10.45	262.99	224.61	111.33	61.26	512.95	11.05	109.35	224.39
48189	85.44	-16.04	-6.90												

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
48217	91.89	-12.81	-6.90	79.70	56.68	479.08	36.73	216.73	241.01	91.25	39.91	363.73	37.74	88.32	242.44
48218	91.50	-12.07	-6.90	76.24	52.67	502.28	37.51	232.48	253.73	94.65	38.97	378.53	37.46	97.02	254.64
48219	93.18	-12.67	-6.90	77.77	59.06	438.44	39.97	194.43	228.92	82.97	38.68	324.82	41.60	84.01	230.88
48220	92.70	-12.15	-6.90	77.00	56.20	471.09	39.23	210.44	241.53	87.30	37.13	346.11	40.26	85.41	243.19
48221	92.22	-11.64	-6.90	75.01	53.06	494.57	39.73	225.09	252.75	91.14	36.76	362.02	39.73	91.84	253.89
48222	90.12	-9.50	-8.30	77.14	31.90	543.29	54.26	312.21	311.71	180.17	46.41	411.46	50.67	175.78	312.05
48223	91.16	-9.45	-8.30	73.35	33.44	551.86	55.64	298.55	307.90	165.32	42.00	400.96	52.50	162.83	308.36
48224	92.20	-9.40	-8.30	68.75	35.54	553.48	55.87	283.00	302.51	149.27	38.40	386.90	53.39	146.85	303.16
48225	90.31	-10.51	-8.30	74.38	35.89	550.44	51.75	298.00	302.43	167.30	46.35	420.93	48.10	161.69	302.91
48226	91.22	-10.36	-8.30	71.74	37.00	553.04	53.09	286.52	299.16	155.59	42.64	407.93	50.08	150.64	299.77
48227	92.12	-10.20	-8.30	68.49	38.37	550.72	53.67	274.07	294.87	143.21	39.52	392.68	51.46	138.10	295.68
48228	90.50	-11.51	-8.30	72.14	40.74	552.20	48.89	282.48	292.43	154.02	46.84	426.95	45.73	146.48	293.11
48229	91.27	-11.26	-8.30	70.49	41.17	550.49	50.27	273.80	290.29	145.57	43.84	412.50	47.74	138.27	291.08
48230	92.04	-10.99	-8.30	68.31	41.52	545.99	51.14	264.08	287.20	136.23	41.07	397.05	49.54	128.91	288.15
48231	79.01	-9.90	-8.30	50.97	26.35	392.67	15.04	364.23	308.35	288.37	83.15	421.84	26.07	155.62	310.35
48232	80.14	-9.89	-8.30	54.80	26.57	396.72	16.89	363.27	309.57	280.40	81.19	424.18	20.83	164.14	311.15
48233	81.26	-9.87	-8.30	60.08	26.82	404.90	20.52	361.88	310.84	272.39	78.77	426.16	18.76	172.31	312.06
48234	82.38	-9.85	-8.30	65.92	27.13	416.86	25.11	359.97	312.09	264.03	75.95	427.75	20.33	179.79	313.03
48235	83.50	-9.82	-8.30	71.55	27.49	432.14	30.10	357.37	313.27	255.02	72.72	428.87	24.39	186.19	313.99
48236	84.62	-9.78	-8.30	76.30	27.93	450.10	35.15	353.84	314.29	245.11	69.12	429.40	29.51	191.07	314.84
48237	85.73	-9.74	-8.30	79.69	28.44	469.97	40.03	349.07	315.03	234.11	65.13	429.11	34.80	193.93	315.46
48238	86.84	-9.69	-8.30	81.43	29.06	490.70	44.56	342.70	315.35	221.97	60.78	427.65	39.81	194.22	315.70
48239	87.95	-9.63	-8.30	81.48	29.79	510.96	48.58	334.45	315.06	208.77	56.09	424.54	44.26	191.46	315.37
48240	89.05	-9.56	-8.30	79.96	30.68	529.14	51.90	324.21	313.92	194.73	51.18	419.20	47.96	185.32	314.23
48241	79.03	-11.69	-8.30	47.91	26.57	439.41	14.33	346.69	300.51	257.58	76.26	466.73	27.73	150.37	302.30
48242	80.20	-11.67	-8.30	51.94	26.95	442.68	16.15	345.88	301.58	251.56	75.36	468.10	21.58	157.71	303.05
48243	81.36	-11.62	-8.30	57.36	27.53	449.28	19.57	344.70	302.72	245.41	73.95	468.44	18.09	164.79	303.90
48244	82.52	-11.55	-8.30	63.26	28.31	458.90	23.88	343.04	303.86	238.82	72.03	467.70	18.35	171.26	304.80
48245	83.67	-11.46	-8.30	68.80	29.25	471.13	28.58	340.73	304.91	231.47	69.63	465.84	21.73	176.70	305.67
48246	84.82	-11.35	-8.30	73.36	30.30	485.38	33.36	337.49	305.77	223.14	66.75	462.73	26.59	180.62	306.38
48247	85.96	-11.21	-8.30	76.48	31.43	500.86	38.00	332.97	306.33	213.68	63.38	458.18	31.82	182.48	306.83
48248	87.09	-11.06	-8.30	77.98	32.56	516.53	42.33	326.80	306.42	203.09	59.53	451.93	36.85	181.73	306.85
48249	88.20	-10.88	-8.30	77.91	33.66	531.06	46.22	318.76	305.90	191.55	55.23	443.61	41.39	177.94	306.31
48250	89.31	-10.68	-8.30	76.60	34.72	542.92	49.50	308.87	304.59	179.37	50.64	432.87	45.28	171.02	305.03
48251	79.05	-13.49	-8.30	47.49	30.45	490.81	11.08	327.71	287.85	224.31	70.67	516.15	29.41	143.58	289.11
48252	80.26	-13.45	-8.30	51.31	30.82	492.93	12.99	326.98	288.89	220.09	70.61	516.16	22.61	149.62	289.98
48253	81.47	-13.37	-8.30	56.34	31.59	497.22	16.49	325.88	290.12	215.72	69.97	514.19	17.82	155.42	291.05
48254	82.66	-13.26	-8.30	61.75	32.69	503.42	20.85	324.30	291.46	210.89	68.77	510.24	16.52	160.64	292.26
48255	83.85	-13.10	-8.30	66.79	34.02	511.22	25.57	322.08	292.82	205.32	67.03	504.29	18.98	164.85	293.49
48256	85.03	-12.91	-8.30	70.87	35.46	520.13	30.38	318.95	294.04	198.79	64.74	496.30	23.57	167.58	294.62
48257	86.19	-12.69	-8.30	73.61	36.90	529.51	35.04	314.57	294.97	191.20	61.91	486.20	28.81	168.31	295.49
48258	87.33	-12.43	-8.30	74.88	38.20	538.48	39.37	308.63	295.40	182.57	58.55	473.92	33.92	166.53	295.89
48259	88.46	-12.13	-8.30	74.82	39.26	545.95	43.25	300.94	295.14	173.12	54.71	459.41	38.59	161.94	295.66
48260	89.56	-11.80	-8.30	73.70	40.04	550.73	46.61	291.61	294.07	163.13	50.52	442.73	42.74	154.58	294.66
48261	79.08	-15.29	-8.30	53.09	39.12	536.29	6.70	308.05	268.24	190.47	67.86	559.41	29.95	153.28	268.79
48262	80.33	-15.23	-8.30	56.16	39.31	537.10	8.73	307.33	269.32	187.78	68.31	557.88	23.03	140.02	269.86
48263	81.57	-15.12	-8.30	60.02	39.97	538.74	12.44	306.14	270.82	184.97	68.14	553.39	17.55	144.42	271.33
48264	82.81	-14.96	-8.30	64.11	40.99	541.06	16.94	304.41	272.65	181.78	67.39	545.98	15.10	148.20	273.13
48265	84.03	-14.75	-8.30	67.88	42.22	543.83	21.79	302.03	274.70	177.96	66.07	535.69	16.71	150.99	275.14
48266	85.23	-14.48	-8.30	70.87	43.51	546.73	26.73	298.78	276.80	173.32	64.18	522.62	21.05	152.37	277.24
48267	86.42	-14.16	-8.30	72.77	44.68	549.35	31.52	294.39	278.76	167.75	61.75	506.88	26.31	151.92	279.21
48268	87.58	-13.80	-8.30	73.49	45.58	551.15	35.95	288.63	280.30	161.28	58.79	488.66	31.53	149.28	280.81
48269	88.72	-13.38	-8.30	73.16	46.11	551.46	39.88	281.37	281.14	154.06	55.33	468.29	36.33	144.30	281.75
48270	89.82	-12.92	-8.30	72.03	46.23	549.60	43.26	272.76	281.02	146.28	51.44	446.28	40.63	137.20	281.76
48271	79.10	-17.08	-8.30	67.48	48.50	558.83	3.19	287.59	239.35	159.95	66.46	579.14	27.97	124.53	239.39
48272	80.39	-17.01	-8.30	69.43	48.54	558.51	5.54	286.80	240.54	158.36	67.14	576.33	21.69	127.93	240.58
48273	81.67	-16.87	-8.30	71.50	49.00	557.92	9.58	285.40	242.44	156.70	67.30	569.91	16.59	130.99	242.46
48274	82.95	-16.66	-8.30	73.44	49.78	556.97	14.17	283.39	244.99	154.75	66.94	559.98	14.48	133.42	245.00
48275	84.20	-16.39	-8.30	74.99	50.74	555.57	19.02	280.70	248.10	152.29	66.07	546.68	16.11	134.94	248.12
48276	85.44	-16.04	-8.30	75.90	51.71	553.58	23.93	277.20	251.62	149.15	64.68	530.22	20.34	135.23	251.70
48277	86.65	-15.64	-8.30	75.99	52.50	550.86	28.67	272.72	255.32	145.25	62.77	510.86	25.46	134.03	255.52
48278	87.83	-15.17	-8.30	75.26	52.98	547.22	33.04	267.13	258.89	140.61	60.34	489.03	30.58	131.15	259.26
48279	88.97	-14.63	-8.30	73.83	53.01	542.42	36.89	260.40	261.94	135.34	57.36	465.29	35.28	126.62	262.52
48280	90.08	-14.04	-8.30	71.95	52.51	536.24	40.21	252.72	264.13	129.59	53.87	440.44	39.47	120.73	264.90
48281	79.12	-18.88	-8.30	90.52	51.01	539.44	2.08	265.68	196.09	139.87	60.57	556.15	22.62	109.18	196.19
48282	80.45	-18.79	-8.30	91.31	51.14	538.64	5.53	264.81	197.59	138.76	61.49	552.79	18.04	111.43	197.39
48283	81.78	-18.62	-8.30	91.39	51.80	537.16	10.16	263.22	200.35	137.36	62.29	546.02	15.38	113.63	199.87
48284	83.09	-18.37	-8.30	90.77	52.86	534.99	14.99	260.97	204.34	135.54	62.86	536.01	15.72	115.49	203.63
48285	84.38	-18.03	-8.30	89.41	54.15	532.14	19.82	258.06	209.45	133.20	63.12	522.94	18.72	116.74	208.64
48286	85.65	-17.61	-8.30	87.32	55.52	528.63	24.46	254.42	215.48	130.27	63.01	507.02	23.07	117.15	214.72</

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
48315	86.46	-1.65	-9.50	124.46	43.33	399.54	59.46	395.61	365.87	360.42	70.85	331.23	59.40	253.13	365.88
48316	87.70	-1.65	-9.50	130.92	43.91	430.59	66.53	391.65	368.33	344.08	62.76	332.41	66.44	257.66	368.34
48317	88.93	-1.65	-9.50	134.86	44.21	463.13	72.20	386.83	370.13	327.07	55.29	333.13	72.09	259.31	370.14
48318	90.16	-1.65	-9.50	135.41	44.11	496.30	76.33	380.80	370.92	308.66	48.62	333.22	76.21	257.41	370.93
48319	91.39	-1.65	-9.50	131.58	43.54	528.97	78.84	372.86	370.36	287.77	42.98	332.46	78.72	250.97	370.37
48320	92.63	-1.65	-9.50	122.24	42.50	559.40	79.63	361.69	368.15	262.87	38.76	330.45	79.52	238.50	368.17
48321	93.86	-1.65	-9.50	106.37	41.03	584.75	78.48	344.96	364.07	231.92	36.47	326.39	78.38	217.98	364.10
48322	95.09	-1.65	-9.50	83.62	39.25	600.39	74.91	319.07	357.89	192.97	36.45	318.89	74.85	187.26	357.94
48323	96.32	-1.65	-9.50	55.34	37.50	599.19	68.25	279.73	349.26	145.42	38.26	305.87	68.26	145.25	349.31
48324	97.56	-1.65	-9.50	26.81	36.78	571.29	57.93	223.74	337.50	91.97	40.63	286.06	58.05	94.55	337.54
48325	79.07	-0.55	-9.50	76.21	41.09	282.58	0.71	408.85	352.61	472.88	124.65	314.34	3.59	186.03	352.62
48326	80.30	-0.55	-9.50	80.84	40.89	288.82	10.70	407.70	354.57	450.68	115.70	317.15	11.07	200.28	354.58
48327	81.54	-0.55	-9.50	88.32	41.01	301.18	21.51	406.20	356.88	430.54	106.63	319.66	21.63	213.81	356.89
48328	82.78	-0.55	-9.50	97.46	41.43	318.98	32.04	404.32	359.48	411.99	97.51	321.92	32.09	226.21	359.48
48329	84.01	-0.55	-9.50	107.18	42.08	341.36	42.06	402.03	362.26	394.60	88.45	323.93	42.07	237.15	362.27
48330	85.25	-0.55	-9.50	116.59	42.85	367.49	51.33	399.29	365.11	377.96	79.55	325.69	51.33	246.33	365.11
48331	86.49	-0.55	-9.50	124.93	43.61	396.60	59.61	396.01	367.82	361.67	70.95	327.17	59.60	253.43	367.83
48332	87.72	-0.55	-9.50	131.49	44.19	427.96	66.70	392.10	370.16	345.27	62.80	328.30	66.69	258.10	370.17
48333	88.96	-0.55	-9.50	135.49	44.48	460.86	72.40	387.34	371.83	328.20	55.26	328.99	72.39	259.87	371.83
48334	90.20	-0.55	-9.50	136.07	44.37	494.46	76.60	381.38	372.51	309.72	48.51	329.12	76.59	258.08	372.51
48335	91.43	-0.55	-9.50	132.19	43.83	527.63	79.21	373.48	371.87	288.72	42.83	328.46	79.19	251.69	371.87
48336	92.67	-0.55	-9.50	122.70	42.83	558.62	80.10	362.29	369.65	263.64	38.64	326.62	80.09	239.16	369.65
48337	93.91	-0.55	-9.50	106.58	41.40	584.54	79.03	345.42	365.64	232.44	36.48	322.82	79.02	218.43	365.64
48338	95.14	-0.55	-9.50	83.46	39.56	600.67	75.47	319.25	359.62	193.13	36.60	315.63	75.47	187.28	359.62
48339	96.38	-0.55	-9.50	54.68	37.57	599.72	68.71	279.39	351.18	145.09	38.38	302.99	68.71	144.58	351.18
48340	97.62	-0.55	-9.50	25.44	36.37	571.67	58.15	222.59	339.58	91.11	40.44	283.99	58.16	92.85	339.59
48341	79.07	0.55	-9.50	76.23	41.10	282.58	0.68	408.85	352.61	472.94	124.67	314.35	3.63	186.04	352.62
48342	80.30	0.55	-9.50	80.87	40.88	288.82	10.69	407.71	354.58	450.74	115.72	317.16	11.10	200.29	354.58
48343	81.54	0.55	-9.50	88.36	41.00	301.20	21.52	406.21	356.89	430.59	106.64	319.68	21.65	213.82	356.89
48344	82.78	0.55	-9.50	97.50	41.42	318.99	32.05	404.33	359.49	412.04	97.52	321.93	32.11	226.22	359.49
48345	84.01	0.55	-9.50	107.22	42.08	341.37	42.07	402.05	362.28	394.65	88.45	323.95	42.10	237.17	362.28
48346	85.25	0.55	-9.50	116.63	42.85	367.51	51.34	399.30	365.13	378.00	79.55	325.71	51.35	246.34	365.13
48347	86.49	0.55	-9.50	124.97	43.61	396.62	59.63	396.02	367.85	361.70	70.95	327.19	59.63	253.44	367.85
48348	87.72	0.55	-9.50	131.52	44.20	427.98	66.71	392.11	370.20	345.30	62.81	328.32	66.71	258.11	370.20
48349	88.96	0.55	-9.50	135.52	44.49	460.87	72.41	387.36	371.87	328.23	55.27	329.01	72.41	259.88	371.87
48350	90.20	0.55	-9.50	136.10	44.39	494.47	76.61	381.39	372.55	309.74	48.53	329.13	76.60	258.09	372.55
48351	91.43	0.55	-9.50	132.21	43.85	527.64	79.21	373.49	371.91	288.74	42.85	328.47	79.20	251.70	371.91
48352	92.67	0.55	-9.50	122.72	42.85	558.62	80.10	362.30	369.69	263.66	38.66	326.63	80.09	239.17	369.69
48353	93.91	0.55	-9.50	106.59	41.41	584.54	79.02	345.43	365.67	232.46	36.49	322.82	79.01	218.43	365.68
48354	95.14	0.55	-9.50	83.48	39.55	600.66	75.46	319.26	359.65	193.14	36.59	315.64	75.45	187.29	359.65
48355	96.38	0.55	-9.50	54.69	37.55	599.71	68.69	279.40	351.20	145.10	38.36	302.99	68.69	144.59	351.21
48356	97.62	0.55	-9.50	25.45	36.33	571.66	58.13	222.61	339.59	91.11	40.41	283.61	58.14	92.86	339.60
48357	79.07	1.65	-9.50	76.12	41.03	286.77	2.10	408.40	350.46	470.36	124.02	318.18	10.59	186.58	350.55
48358	80.30	1.65	-9.50	80.77	40.80	292.93	10.88	407.28	352.41	448.55	115.21	320.99	13.80	200.67	352.48
48359	81.53	1.65	-9.50	88.24	40.87	305.14	21.55	405.80	354.73	428.73	106.25	323.52	22.60	214.05	354.78
48360	82.76	1.65	-9.50	97.34	41.24	322.73	32.01	403.96	357.36	410.43	97.23	325.82	32.44	226.32	357.39
48361	84.00	1.65	-9.50	107.00	41.85	344.88	41.99	401.69	360.20	393.24	88.24	327.90	42.15	237.14	360.22
48362	85.23	1.65	-9.50	116.33	42.59	370.76	51.24	398.95	363.13	376.74	79.40	329.74	51.27	246.19	363.14
48363	86.46	1.65	-9.50	124.56	43.34	399.60	59.51	395.65	365.96	360.53	70.86	331.29	59.47	253.17	365.97
48364	87.70	1.65	-9.50	131.01	43.94	430.65	66.57	391.69	368.44	344.18	62.78	332.47	66.50	257.70	368.44
48365	88.93	1.65	-9.50	134.94	44.26	463.18	72.24	386.87	370.25	327.16	55.32	333.18	72.14	259.34	370.26
48366	90.16	1.65	-9.50	135.49	44.17	496.34	76.36	380.83	371.05	308.73	48.66	333.27	76.25	257.44	371.06
48367	91.39	1.65	-9.50	131.65	43.60	528.99	78.85	372.89	370.49	287.84	43.04	332.51	78.74	250.99	370.50
48368	92.63	1.65	-9.50	122.30	42.55	559.41	79.62	361.72	368.27	262.92	38.81	330.48	79.52	238.52	368.29
48369	93.86	1.65	-9.50	106.42	41.06	584.74	78.45	344.99	364.17	231.97	36.50	326.42	78.36	218.01	364.20
48370	95.09	1.65	-9.50	83.67	39.24	600.37	74.86	319.10	357.98	193.01	36.44	318.90	74.81	187.30	358.02
48371	96.32	1.65	-9.50	55.37	37.45	599.16	68.20	279.76	349.32	145.44	38.20	305.88	68.21	145.29	349.38
48372	97.56	1.65	-9.50	26.84	36.67	571.26	57.88	223.77	337.53	91.99	40.54	286.08	58.00	94.60	337.58
48373	79.07	-1.65	-10.50	88.58	50.78	300.86	1.93	409.30	357.00	552.87	139.09	328.14	13.43	213.80	357.08
48374	80.30	-1.65	-10.50	94.13	50.57	306.73	12.07	408.46	358.73	527.09	128.69	330.50	16.34	227.05	358.78
48375	81.53	-1.65	-10.50	103.68	50.85	318.36	24.14	407.49	360.87	504.20	118.17	332.73	25.77	239.79	360.90
48376	82.76	-1.65	-10.50	115.72	51.61	335.19	35.97	406.41	363.38	483.72	107.61	334.86	36.70	251.64	363.41
48377	84.00	-1.65	-10.50	128.93	52.78	356.49	47.29	405.19	366.20	465.19	97.12	336.90	47.63	262.29	366.21
48378	85.23	-1.65	-10.50	142.29	54.25	381.56	57.87	403.82	369.22	448.14	86.85	338.83	58.02	271.44	369.22
48379	86.46	-1.65	-10.50	154.98	55.88	409.69	67.42	402.28	372.28	432.10	77.02	340.63	67.47	278.82	372.28
48380	87.70	-1.65	-10.50	166.30	57.49	440.24	75.71	400.55	375.16	416.55	67.86	342.24	75.69	284.17	375.16
48381	88.93	-1.65	-10.50	175.52	58.92	472.60	82.50	398.55	377.60	400.84	59.68	343.60	82.45	287.14	377.60
48382	90.16	-1.65	-10.50	181.78	60.01	506.11	87.68	396.07	379.30	384.06	52.81	344.62	87.61	287.33	379.30
48383	91.39	-1.65	-10.50	183.93	60.67	539.98	91.21	392.58	379.99	364.84	47.64	345.18	91.13	284.10	380.00
48384	92.63	-1.65	-10.50	180.38	60.84	573.11	93.08	386.94	379.53	341.11	44.70	345.09	93.01	276	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
48413	88.96	0.55	-10.50	176.28	59.15	470.14	82.61	398.67	380.11	402.12	59.66	339.25	82.61	287.32	380.11
48414	90.20	0.55	-10.50	182.66	60.24	504.06	87.89	396.28	381.63	385.33	52.67	340.29	87.89	287.63	381.63
48415	91.43	0.55	-10.50	184.85	60.96	538.41	91.58	392.89	382.21	366.07	47.44	340.93	91.57	284.47	382.21
48416	92.67	0.55	-10.50	181.26	61.26	572.09	93.64	387.28	381.74	342.23	44.59	340.99	93.64	276.81	381.75
48417	93.91	0.55	-10.50	169.82	61.01	603.30	93.90	377.12	380.29	310.88	44.60	340.05	93.89	262.97	380.29
48418	95.14	0.55	-10.50	148.20	59.85	628.65	91.72	358.15	377.94	268.62	47.21	336.97	91.71	240.29	377.95
48419	96.38	0.55	-10.50	115.17	57.13	641.46	85.96	324.34	374.45	213.17	51.05	329.06	85.96	205.33	374.46
48420	97.62	0.55	-10.50	72.24	52.11	630.18	75.30	269.48	368.76	145.66	53.97	311.92	75.31	155.29	368.77
48421	79.07	1.65	-10.50	88.66	50.78	300.87	1.88	409.31	357.01	553.07	139.15	328.17	13.47	213.81	357.09
48422	80.30	1.65	-10.50	94.24	50.56	306.75	12.08	408.48	358.74	527.29	128.74	330.53	16.44	227.07	358.80
48423	81.53	1.65	-10.50	103.81	50.83	318.39	24.16	407.53	360.90	504.39	118.20	332.77	25.88	239.83	360.93
48424	82.76	1.65	-10.50	115.86	51.59	335.23	36.01	406.45	363.43	483.90	107.63	334.90	36.80	251.69	363.45
48425	84.00	1.65	-10.50	129.07	52.76	356.54	47.35	405.23	366.27	465.35	97.13	336.94	47.74	262.33	366.28
48426	85.23	1.65	-10.50	142.42	54.25	381.61	57.94	403.86	369.31	448.28	86.86	338.88	58.12	271.48	369.31
48427	86.46	1.65	-10.50	155.10	55.90	409.74	67.49	402.33	372.39	432.23	77.03	340.68	67.57	278.87	372.39
48428	87.70	1.65	-10.50	166.40	57.55	440.29	75.77	400.59	375.29	416.66	67.90	342.29	75.78	284.21	375.29
48429	88.93	1.65	-10.50	175.61	59.00	472.64	82.56	398.59	377.75	400.94	59.75	343.65	82.52	287.18	377.75
48430	90.16	1.65	-10.50	181.86	60.11	506.14	87.72	396.10	379.45	384.14	52.91	344.66	87.66	287.36	379.46
48431	91.39	1.65	-10.50	184.00	60.78	539.99	91.22	392.61	380.15	364.91	47.77	345.22	91.15	284.12	380.15
48432	92.63	1.65	-10.50	180.43	60.94	573.12	93.07	386.97	379.68	341.16	44.83	345.12	93.00	276.47	379.69
48433	93.86	1.65	-10.50	169.12	60.49	603.76	93.12	376.86	378.08	310.02	44.53	343.94	93.07	262.77	378.11
48434	95.09	1.65	-10.50	147.76	59.18	628.60	90.81	358.10	375.44	268.09	46.76	340.57	90.78	240.40	375.47
48435	96.32	1.65	-10.50	115.15	56.48	641.08	85.08	324.74	371.52	213.17	50.41	332.34	85.10	205.96	371.56
48436	97.56	1.65	-10.50	72.77	51.84	629.87	74.67	270.69	365.37	146.32	53.53	314.91	74.78	156.79	365.39
48437	59.34	-1.65	-9.50	380.80	72.60	614.85	6.08	204.41	309.99	1857.78	252.94	489.06	12.92	397.10	312.59
48438	60.58	-1.65	-9.50	314.30	57.67	632.50	22.32	266.49	322.55	1624.54	129.90	537.58	22.35	425.84	323.44
48439	61.81	-1.65	-9.50	268.04	49.16	624.48	39.94	311.92	331.12	1431.56	51.53	522.95	42.74	403.03	331.31
48440	63.04	-1.65	-9.50	235.89	45.38	602.05	52.19	343.00	337.26	1271.80	64.67	478.56	57.57	353.38	337.25
48441	64.27	-1.65	-9.50	212.54	44.48	572.21	60.40	363.82	341.65	1139.41	105.30	426.90	67.55	295.41	341.67
48442	65.51	-1.65	-9.50	194.04	44.95	538.96	65.48	377.98	344.64	1028.95	135.21	380.33	73.50	240.83	344.75
48443	66.74	-1.65	-9.50	177.93	45.82	504.47	67.93	387.91	346.42	935.62	154.25	344.25	76.09	195.76	346.63
48444	67.97	-1.65	-9.50	162.95	46.53	470.00	68.02	395.04	347.25	855.71	164.94	319.85	75.84	162.43	347.55
48445	69.20	-1.65	-9.50	148.52	46.85	436.42	65.94	400.22	347.42	786.59	169.51	305.84	73.18	140.63	347.77
48446	70.44	-1.65	-9.50	134.43	46.70	404.43	61.91	403.94	347.22	726.43	169.74	299.70	68.47	128.87	347.59
48447	71.67	-1.65	-9.50	120.76	46.16	374.71	56.18	406.54	346.90	673.93	166.95	298.74	62.07	125.22	347.26
48448	72.90	-1.65	-9.50	107.75	45.32	348.00	49.02	408.24	346.68	628.04	162.09	300.72	54.31	127.84	347.01
48449	74.14	-1.65	-9.50	95.89	44.31	325.06	40.68	409.24	346.69	587.90	155.84	304.08	45.52	135.11	346.97
48450	75.37	-1.65	-9.50	85.89	43.28	306.75	31.42	409.66	347.04	552.72	148.65	307.87	36.01	145.69	347.27
48451	76.60	-1.65	-9.50	78.72	42.33	293.86	21.49	409.62	347.76	521.79	140.82	311.59	26.17	158.40	347.95
48452	77.83	-1.65	-9.50	75.28	41.55	287.07	11.13	409.19	348.90	494.48	132.54	315.04	16.75	172.28	349.04
48453	59.28	-0.55	-9.50	382.14	74.30	615.42	7.19	202.97	312.22	1850.95	268.19	490.85	10.02	393.72	312.47
48454	60.52	-0.55	-9.50	316.31	58.70	633.25	20.02	265.87	324.37	1627.34	138.38	540.76	19.99	426.33	324.46
48455	61.76	-0.55	-9.50	270.17	49.90	624.96	38.78	311.87	332.64	1437.73	54.81	526.03	39.05	404.25	332.66
48456	62.99	-0.55	-9.50	237.98	45.93	602.02	51.63	343.29	338.53	1279.64	61.81	480.51	52.22	354.46	338.53
48457	64.23	-0.55	-9.50	214.53	44.90	571.57	60.18	364.30	342.79	1148.15	103.24	427.27	60.99	296.05	342.80
48458	65.47	-0.55	-9.50	195.86	45.29	537.72	65.43	378.53	345.75	1038.02	134.46	379.07	66.37	240.93	345.76
48459	66.70	-0.55	-9.50	179.53	46.13	502.70	67.98	388.46	347.59	944.56	154.53	341.61	68.94	195.34	347.62
48460	67.94	-0.55	-9.50	164.30	46.84	467.78	68.13	395.56	348.55	864.20	165.89	316.23	69.07	161.57	348.58
48461	69.18	-0.55	-9.50	149.59	47.16	433.81	66.11	400.69	348.88	794.44	170.86	301.66	66.98	139.46	348.92
48462	70.41	-0.55	-9.50	135.25	47.02	401.50	62.13	404.38	348.83	733.56	171.27	295.30	62.92	127.53	348.88
48463	71.65	-0.55	-9.50	121.36	46.45	371.49	56.42	406.96	348.66	680.29	168.51	294.35	57.13	123.82	348.71
48464	72.89	-0.55	-9.50	108.18	45.57	344.51	49.26	408.66	348.56	633.66	163.58	296.43	49.90	126.47	348.60
48465	74.12	-0.55	-9.50	96.19	44.52	321.34	40.90	409.67	348.67	592.81	157.20	299.93	41.49	133.85	348.70
48466	75.36	-0.55	-9.50	86.11	43.43	302.81	31.60	410.11	349.08	556.98	149.84	303.84	32.17	144.58	349.11
48467	76.60	-0.55	-9.50	78.89	42.43	289.76	21.59	410.08	349.86	525.46	141.84	307.67	22.18	157.48	349.88
48468	77.83	-0.55	-9.50	75.44	41.62	282.89	11.08	409.65	351.04	497.63	133.40	311.19	11.88	171.56	351.05
48469	59.28	0.55	-9.50	382.14	74.29	615.43	7.20	202.96	312.20	1850.95	268.19	490.85	10.07	393.70	312.45
48470	60.52	0.55	-9.50	316.31	58.68	633.26	20.05	265.85	324.34	1627.35	138.37	540.76	20.00	426.31	324.43
48471	61.76	0.55	-9.50	270.17	49.87	624.97	38.80	311.85	332.60	1437.75	54.78	526.02	39.03	404.24	332.62
48472	62.99	0.55	-9.50	237.98	45.90	602.02	51.65	343.28	338.50	1279.66	61.80	480.49	52.19	354.46	338.49
48473	64.23	0.55	-9.50	214.52	44.87	571.57	60.18	364.29	342.75	1148.18	103.23	427.25	60.95	296.04	342.75
48474	65.47	0.55	-9.50	195.85	45.27	537.71	65.43	378.52	345.70	1038.04	134.46	379.05	66.31	240.93	345.71
48475	66.70	0.55	-9.50	179.52	46.11	502.68	67.97	388.45	347.55	944.59	154.53	341.59	68.88	195.33	347.57
48476	67.94	0.55	-9.50	164.28	46.83	467.76	68.12	395.55	348.51	864.24	165.89	316.21	69.00	161.56	348.54
48477	69.18	0.55	-9.50	149.58	47.16	433.80	66.09	400.68	348.84	794.48	170.86	301.64	66.91	139.45	348.88
48478	70.41	0.55	-9.50	135.24	47.03	401.48	62.11	404.37	348.80	733.59	171.27	295.29	62.85	127.51	348.84
48479	71.65	0.55	-9.50	121.34	46.46	371.48	56.41	406.94	348.64	680.33	168.51	294.34	57.08	123.80	348.68
48480	72.89	0.55	-9.50	108.16	45.58	344.50	49.25	408.65	348.54	633.71	163.59	296.43	49.85	126.45	348.58
48481	74.12	0.55	-9.50	96.17	44.53	321.32	40.89	409.66	348.66	592.86	157.21	299.92	41.45	133.84	348.69
48482	75.36	0.55	-9.50	86.10	43.44	302.80									



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
48511	71.67	-1.65	-10.50	148.90	59.53	384.76	64.71	410.52	355.88	792.62	193.32	312.49	72.66	161.61	356.19
48512	72.90	-1.65	-10.50	132.21	57.66	359.00	56.14	411.04	355.08	740.58	186.23	314.45	63.30	161.95	355.36
48513	74.14	-1.65	-10.50	116.73	55.80	337.06	46.39	411.17	354.61	693.81	177.95	317.15	52.95	167.40	354.85
48514	75.37	-1.65	-10.50	103.41	54.07	319.65	35.72	411.00	354.53	652.04	168.87	320.06	41.96	176.43	354.73
48515	76.60	-1.65	-10.50	93.48	52.59	307.47	24.38	410.60	354.90	614.90	159.27	322.93	30.77	187.80	355.05
48516	77.83	-1.65	-10.50	88.27	51.47	301.11	12.60	410.02	355.72	581.98	149.31	325.63	20.26	200.51	355.84
48517	59.28	-0.55	-10.50	374.80	82.67	675.87	12.15	260.03	350.39	1982.10	214.61	538.05	13.05	640.96	350.50
48518	60.52	-0.55	-10.50	320.82	73.68	677.02	39.65	316.95	353.83	1720.06	91.55	542.92	39.75	612.47	353.86
48519	61.76	-0.55	-10.50	288.39	69.08	654.51	57.60	353.71	356.09	1525.50	64.76	501.47	58.17	545.39	356.09
48520	62.99	-0.55	-10.50	267.26	66.81	621.57	69.07	375.78	357.92	1376.20	110.87	447.48	70.05	462.20	357.92
48521	64.23	-0.55	-10.50	250.51	65.72	585.07	76.18	388.81	359.45	1257.01	150.85	398.17	77.43	379.93	359.46
48522	65.47	-0.55	-10.50	234.70	65.18	547.96	80.14	396.80	360.49	1157.39	177.50	360.06	81.50	308.41	360.51
48523	66.70	-0.55	-10.50	218.56	64.71	511.41	81.47	401.98	360.92	1070.69	193.23	333.99	82.83	251.66	360.95
48524	67.94	-0.55	-10.50	201.78	64.03	476.04	80.41	405.47	360.76	993.11	200.83	318.27	81.71	210.17	360.80
48525	69.18	-0.55	-10.50	184.47	62.99	442.26	77.15	407.88	360.18	922.69	202.56	310.29	78.35	182.57	360.22
48526	70.41	-0.55	-10.50	166.90	61.56	410.53	71.87	409.49	359.39	858.47	200.15	307.53	72.96	166.62	359.43
48527	71.65	-0.55	-10.50	149.43	59.83	381.35	64.83	410.50	358.59	800.03	194.91	307.92	65.80	159.94	358.63
48528	72.89	-0.55	-10.50	132.56	57.93	355.32	56.30	411.03	357.95	747.12	187.75	310.00	57.18	160.32	357.99
48529	74.12	-0.55	-10.50	116.95	56.01	333.13	46.55	411.18	357.61	699.53	179.33	312.82	47.37	165.88	357.63
48530	75.36	-0.55	-10.50	103.54	54.23	315.50	35.86	411.03	357.62	656.98	170.09	315.84	36.65	175.06	357.65
48531	76.60	-0.55	-10.50	93.57	52.70	303.17	24.47	410.64	358.06	619.12	160.31	318.79	25.31	186.60	358.07
48532	77.83	-0.55	-10.50	88.34	51.55	296.72	12.58	410.07	358.92	585.57	150.18	321.54	13.72	199.50	358.94
48533	59.28	0.55	-10.50	374.80	82.65	675.88	12.19	260.01	350.37	1982.10	214.61	538.06	13.12	640.93	350.47
48534	60.52	0.55	-10.50	320.82	73.66	677.03	39.67	316.94	353.80	1720.06	91.53	542.91	39.75	612.45	353.83
48535	61.76	0.55	-10.50	288.39	69.05	654.51	57.62	353.69	356.05	1525.51	64.73	501.46	58.15	545.38	356.05
48536	62.99	0.55	-10.50	267.26	66.77	621.58	69.08	375.76	357.88	1376.22	110.86	447.47	70.01	462.19	357.88
48537	64.23	0.55	-10.50	250.50	65.69	585.07	76.19	388.80	359.40	1257.04	150.84	398.16	77.38	379.93	359.41
48538	65.47	0.55	-10.50	234.69	65.15	547.95	80.13	396.79	360.44	1157.41	177.49	360.04	81.43	308.40	360.46
48539	66.70	0.55	-10.50	218.55	64.69	511.40	81.45	401.96	360.87	1070.72	193.22	333.98	82.76	251.65	360.89
48540	67.94	0.55	-10.50	201.76	64.02	476.02	80.39	405.46	360.71	993.15	200.82	318.25	81.63	210.16	360.75
48541	69.18	0.55	-10.50	184.45	62.98	442.25	77.13	407.87	360.14	922.73	202.55	310.28	78.27	182.56	360.17
48542	70.41	0.55	-10.50	166.87	61.57	410.52	71.85	409.48	359.35	858.51	200.15	307.52	72.88	166.61	359.39
48543	71.65	0.55	-10.50	149.41	59.84	381.34	64.80	410.49	358.56	800.08	194.91	307.92	65.73	159.93	358.60
48544	72.89	0.55	-10.50	132.54	57.95	355.31	56.27	411.02	357.93	747.18	187.75	310.00	57.11	160.31	357.96
48545	74.12	0.55	-10.50	116.93	56.03	333.12	46.54	411.17	357.59	699.59	179.34	312.82	47.31	165.87	357.62
48546	75.36	0.55	-10.50	103.53	54.24	315.49	35.85	411.02	357.61	657.04	170.10	315.84	36.61	175.05	357.64
48547	76.60	0.55	-10.50	93.56	52.71	303.17	24.46	410.64	358.05	619.18	160.33	318.79	25.27	186.60	358.07
48548	77.83	0.55	-10.50	88.35	51.55	296.72	12.58	410.07	358.92	585.64	150.20	321.55	13.70	199.50	358.93
48549	59.34	1.65	-10.50	372.73	81.41	675.17	15.80	261.47	346.38	1985.36	202.76	535.74	17.18	644.04	347.63
48550	60.58	1.65	-10.50	318.72	72.63	676.32	41.33	317.52	350.64	1716.80	85.53	540.37	42.74	611.72	350.98
48551	61.81	1.65	-10.50	286.25	68.22	654.19	58.40	353.80	353.50	1519.19	67.29	499.65	63.76	543.87	353.53
48552	63.04	1.65	-10.50	265.14	66.14	621.81	69.42	375.63	355.72	1367.99	114.10	447.06	77.99	460.88	355.71
48553	64.27	1.65	-10.50	248.47	65.23	585.92	76.31	388.57	357.45	1247.63	152.72	399.33	86.83	379.15	357.51
48554	65.51	1.65	-10.50	232.83	64.80	549.39	80.18	396.56	358.53	1147.48	178.06	362.63	91.46	308.26	358.68
48555	66.74	1.65	-10.50	216.91	64.39	513.36	81.47	401.78	358.86	1060.77	192.82	337.61	92.65	252.13	359.09
48556	67.97	1.65	-10.50	200.40	63.73	478.42	80.38	405.34	358.53	983.58	199.79	322.51	90.94	211.15	358.83
48557	69.20	1.65	-10.50	183.37	62.68	445.01	77.06	407.81	357.75	913.79	201.16	314.82	86.75	183.91	358.08
48558	70.44	1.65	-10.50	166.06	61.25	413.60	71.72	409.46	356.76	850.35	198.60	312.13	80.46	168.17	357.09
48559	71.67	1.65	-10.50	148.82	59.55	384.72	64.63	410.48	355.79	792.77	193.33	312.46	72.46	161.56	356.10
48560	72.90	1.65	-10.50	132.13	57.69	358.96	56.08	411.00	355.02	740.74	186.26	314.43	63.12	161.91	355.29
48561	74.14	1.65	-10.50	116.66	55.83	337.02	46.34	411.13	354.57	693.99	177.98	317.14	52.80	167.36	354.80
48562	75.37	1.65	-10.50	103.36	54.10	319.62	35.69	410.97	354.51	652.23	168.92	320.06	41.84	176.40	354.70
48563	76.60	1.65	-10.50	93.46	52.62	307.46	24.36	410.58	354.89	615.09	159.33	322.93	30.69	187.78	355.03
48564	77.83	1.65	-10.50	88.30	51.49	301.10	12.58	410.01	355.72	582.18	149.37	325.64	20.23	200.51	355.83
48565	54.93	-1.65	-9.50	939.30	211.87	60.33	238.85	184.22	120.99	2826.76	843.24	1582.57	372.30	350.07	322.38
48566	55.78	-1.65	-9.50	782.75	169.35	243.65	159.30	139.44	203.89	2768.17	767.16	1118.74	271.60	280.35	218.36
48567	56.62	-1.65	-9.50	645.69	136.06	404.10	102.78	93.73	248.60	2563.37	626.63	530.60	162.77	92.79	250.22
48568	57.46	-1.65	-9.50	539.71	110.61	506.44	63.25	98.30	276.19	2318.84	497.89	324.06	91.19	191.52	281.63
48569	58.31	-1.65	-9.50	457.75	90.89	572.42	32.98	142.41	294.80	2095.71	380.29	391.17	46.65	314.01	299.65
48570	54.88	-0.55	-9.50	953.65	199.24	94.83	238.18	178.13	110.01	2446.76	879.41	1231.49	249.49	781.46	140.50
48571	55.72	-0.55	-9.50	780.74	166.05	238.55	169.89	144.57	208.49	2480.05	899.65	999.37	199.01	509.26	216.87
48572	56.56	-0.55	-9.50	640.26	139.00	403.88	114.33	98.97	254.50	2404.09	727.51	503.75	134.76	151.25	254.69
48573	57.40	-0.55	-9.50	536.59	114.39	506.42	71.44	98.03	280.28	2245.17	554.26	321.76	81.04	156.76	280.45
48574	58.25	-0.55	-9.50	457.37	93.67	572.61	38.27	140.53	297.70	2066.39	409.44	391.56	42.67	300.30	298.06
48575	54.88	0.55	-9.50	953.65	199.25	94.84	238.17	178.13	110.01	2446.76	879.43	1231.41	249.52	781.47	140.38
48576	55.72	0.55	-9.50	780.74	166.06	238.56	169.89	144.57	208.48	2480.04	899.67	999.28	199.01	509.28	216.82
48577	56.56	0.55	-9.50	640.25	139.00	403.88	114.33	98.97	254.49	2404.09	727.53	503.69	134.73	151.26	254.69
48578	57.40	0.55	-9.50	536.59	114.38	506.44	71.43	98.01	280.27	2245.17	554.28	321.75	81.02	156.73	280.44
48579	58.25	0.55	-9.50	457.36	93.66	572.63	38.26	140.52	297.68	2066.39	409.46	391.57			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
48609	101.97	-1.65	-9.50	7.17	66.63	238.46	6.32	19.95	258.79	6.39	38.84	518.35	5.52	31.61	258.73
48610	98.65	-0.55	-9.50	15.98	37.55	521.74	46.34	162.40	326.95	45.85	41.35	267.27	46.37	52.01	326.96
48611	99.50	-0.55	-9.50	22.93	41.19	455.59	35.27	109.61	313.83	16.64	40.96	267.05	35.31	41.58	313.83
48612	100.34	-0.55	-9.50	25.08	47.59	371.39	23.75	61.03	298.18	7.10	39.65	301.85	23.79	52.47	298.17
48613	101.18	-0.55	-9.50	19.12	56.31	285.21	12.84	26.34	280.19	12.15	37.68	387.36	12.87	53.83	280.17
48614	102.02	-0.55	-9.50	6.94	66.31	238.41	4.13	10.20	260.58	6.40	35.62	520.28	3.98	26.47	260.57
48615	98.65	0.55	-9.50	15.99	37.51	521.72	46.33	162.41	326.96	45.85	41.32	267.27	46.35	52.02	326.96
48616	99.50	0.55	-9.50	22.94	41.14	455.58	35.25	109.63	313.83	16.65	40.92	267.06	35.29	41.59	313.83
48617	100.34	0.55	-9.50	25.08	47.55	371.38	23.74	61.04	298.18	7.10	39.61	301.86	23.78	52.47	298.17
48618	101.18	0.55	-9.50	19.12	56.28	285.21	12.83	26.35	280.18	12.15	37.64	387.37	12.86	53.82	280.17
48619	102.02	0.55	-9.50	6.94	66.28	238.41	4.13	10.20	260.57	6.40	35.58	520.29	3.97	26.46	260.56
48620	98.59	1.65	-9.50	17.31	38.28	521.65	46.36	164.37	324.77	47.10	42.00	269.10	46.61	54.96	324.78
48621	99.44	1.65	-9.50	23.48	42.10	455.73	35.51	112.22	311.58	18.26	42.23	267.94	35.87	44.75	311.54
48622	100.28	1.65	-9.50	25.36	48.42	371.71	24.28	64.86	295.92	8.11	41.64	301.53	24.68	54.96	295.82
48623	101.12	1.65	-9.50	19.38	56.82	285.56	13.83	32.83	277.98	12.14	40.39	386.02	14.03	56.54	277.84
48624	101.97	1.65	-9.50	7.18	66.54	238.46	6.32	19.96	258.78	6.39	38.74	518.39	5.50	31.59	258.69
48625	98.59	-1.65	-10.50	33.12	46.82	593.40	61.75	206.54	357.41	84.36	54.46	293.36	61.98	104.17	357.40
48626	99.44	-1.65	-10.50	10.92	42.84	532.03	48.47	143.40	347.42	38.63	53.03	279.74	48.82	59.04	347.37
48627	100.28	-1.65	-10.50	18.40	41.56	440.08	33.55	79.12	333.33	7.86	49.83	302.73	34.01	33.36	333.21
48628	101.12	-1.65	-10.50	18.07	45.26	333.60	19.35	34.05	315.23	10.37	45.88	399.71	19.79	40.41	315.05
48629	101.97	-1.65	-10.50	8.85	54.57	269.12	6.84	22.50	293.49	7.36	42.03	571.28	6.80	32.32	293.31
48630	98.65	-0.55	-10.50	32.07	46.27	593.36	62.00	204.52	361.19	83.29	54.23	290.77	62.03	101.69	361.18
48631	99.50	-0.55	-10.50	9.00	41.37	531.76	48.42	140.81	351.44	37.49	51.90	277.98	48.46	55.20	351.44
48632	100.34	-0.55	-10.50	17.74	39.37	439.91	33.16	75.38	337.54	5.71	47.40	302.29	33.21	26.77	337.53
48633	101.18	-0.55	-10.50	17.94	43.47	333.64	18.48	26.03	319.42	10.35	42.07	400.30	18.55	35.02	319.40
48634	102.02	-0.55	-10.50	8.68	53.79	269.14	5.20	11.35	297.13	7.36	37.48	572.36	5.20	25.85	297.10
48635	98.65	0.55	-10.50	32.08	46.23	593.35	61.98	204.53	361.20	83.29	54.20	290.77	62.01	101.70	361.19
48636	99.50	0.55	-10.50	9.01	41.31	531.75	48.40	140.83	351.45	37.49	51.86	277.98	48.44	55.22	351.44
48637	100.34	0.55	-10.50	17.74	39.30	439.90	33.14	75.40	337.54	5.72	47.34	302.30	33.19	26.78	337.53
48638	101.18	0.55	-10.50	17.95	43.41	333.63	18.47	26.04	319.43	10.35	42.01	400.31	18.53	35.02	319.40
48639	102.02	0.55	-10.50	8.69	53.74	269.13	5.19	11.35	297.13	7.36	37.42	572.37	5.19	25.84	297.10
48640	98.59	1.65	-10.50	33.13	46.72	593.37	61.69	206.58	357.44	84.36	54.37	293.36	61.91	104.21	357.43
48641	99.44	1.65	-10.50	10.94	42.69	532.00	48.41	143.44	347.44	38.63	52.92	279.75	48.76	59.09	347.38
48642	100.28	1.65	-10.50	18.42	41.39	440.06	33.50	79.17	333.34	7.87	49.70	302.75	33.95	33.39	333.22
48643	101.12	1.65	-10.50	18.08	45.10	333.58	19.31	34.09	315.23	10.38	45.74	399.74	19.74	40.40	315.04
48644	101.97	1.65	-10.50	8.86	54.44	269.12	6.82	22.50	293.48	7.36	41.88	571.32	6.78	32.30	293.29
48645	98.65	2.50	-9.50	75.96	40.88	292.53	3.43	407.71	347.90	466.80	123.12	323.46	15.60	187.25	348.12
48646	80.29	2.50	-9.50	80.60	40.62	298.58	11.20	406.61	349.84	445.52	114.51	326.27	16.68	201.11	350.00
48647	81.52	2.50	-9.50	88.06	40.64	310.59	21.63	405.18	352.17	426.14	105.72	328.83	23.74	214.28	352.27
48648	82.75	2.50	-9.50	97.11	40.95	327.90	31.97	403.37	354.83	408.21	96.85	331.20	32.81	226.37	354.89
48649	83.97	2.50	-9.50	106.69	41.50	349.74	41.87	401.13	357.73	391.29	87.97	333.36	42.17	237.03	357.77
48650	85.20	2.50	-9.50	115.90	42.21	375.29	51.08	398.40	360.76	374.98	79.23	335.31	51.11	245.92	360.78
48651	86.43	2.50	-9.50	124.00	42.95	403.77	59.33	395.08	363.73	358.90	70.78	336.96	59.22	252.73	363.74
48652	87.66	2.50	-9.50	130.31	43.58	434.41	66.37	391.06	366.38	342.63	62.79	338.24	66.18	257.09	366.39
48653	88.88	2.50	-9.50	134.13	43.94	466.46	71.98	386.15	368.39	325.67	55.44	339.00	71.75	258.55	368.40
48654	90.11	2.50	-9.50	134.64	43.87	499.03	76.01	380.01	369.37	307.33	48.89	339.05	75.75	256.49	369.38
48655	91.34	2.50	-9.50	130.87	43.27	530.98	78.37	372.01	368.92	286.58	43.34	338.16	78.10	249.98	368.95
48656	92.57	2.50	-9.50	121.72	42.15	560.59	78.98	360.87	366.71	261.89	39.06	335.88	78.73	237.59	366.76
48657	93.79	2.50	-9.50	106.18	40.58	585.11	77.68	344.31	362.51	231.28	36.55	331.44	77.47	217.37	362.58
48658	95.02	2.50	-9.50	83.92	38.80	600.02	74.07	318.83	356.10	192.81	36.24	323.45	73.94	187.25	356.20
48659	96.25	2.50	-9.50	56.30	37.27	598.40	67.54	280.21	347.19	145.90	37.95	309.89	67.57	146.21	347.31
48660	97.48	2.50	-9.50	28.71	37.04	570.66	57.55	225.34	335.18	93.19	40.62	289.46	57.84	96.96	335.28
48661	79.06	3.10	-9.50	75.75	40.71	297.74	4.60	406.88	345.81	463.19	122.19	328.26	18.78	187.77	346.15
48662	80.28	3.10	-9.50	80.40	40.43	303.69	11.59	405.81	347.73	442.45	113.78	331.06	18.70	214.41	347.97
48663	81.51	3.10	-9.50	87.84	40.42	315.51	21.74	404.41	350.06	423.52	105.18	333.66	24.58	214.38	350.22
48664	82.73	3.10	-9.50	96.85	40.68	332.59	31.93	402.64	352.74	405.95	96.46	336.09	33.03	226.29	352.83
48665	83.95	3.10	-9.50	106.36	41.17	354.16	41.74	400.45	355.69	389.32	87.72	338.35	42.09	236.79	355.74
48666	85.17	3.10	-9.50	115.48	41.84	379.42	50.89	397.73	358.79	373.22	79.08	340.40	50.87	245.54	358.82
48667	86.39	3.10	-9.50	123.45	42.57	407.58	59.11	394.41	361.87	357.27	70.72	342.17	58.90	252.19	361.89
48668	87.62	3.10	-9.50	129.63	43.21	437.86	66.13	390.33	364.68	341.08	62.81	343.55	65.81	256.38	364.69
48669	88.84	3.10	-9.50	133.33	43.60	469.47	71.71	385.33	366.86	324.19	55.55	344.36	71.33	257.66	366.88
48670	90.06	3.10	-9.50	133.79	43.55	501.48	75.67	379.10	368.00	305.93	49.10	344.40	75.26	255.45	368.03
48671	91.28	3.10	-9.50	130.08	42.95	532.75	77.92	371.02	367.67	285.31	43.60	343.38	77.50	248.86	367.72
48672	92.50	3.10	-9.50	121.13	41.78	561.57	78.40	359.89	365.50	260.85	39.28	340.86	78.00	236.53	365.57
48673	93.73	3.10	-9.50	105.93	40.17	585.26	77.00	343.51	361.21	230.58	36.59	336.06	76.67	216.60	361.32
48674	94.95	3.10	-9.50	84.16	38.42	599.44	73.38	318.43	354.64	192.60	36.06	327.61	73.19	187.08	354.79
48675	96.17	3.10	-9.50	57.20	37.12	597.41	67.01	280.53	345.52	146.34	37.73	313.53	67.06	146.99	345.70
48676	97.39	3.10	-9.50	30.44	37.33	569.84	57.34	226.78	333.35	94.40	40.69	292.54	57.79	99.13	333.50
48677	79.06	2.50	-10.50	88.62	50.57	306.63	3.58	408.92	353.57	549.07	138.21	333.51	19.42	214.63	353.75
48678	80.29	2.50	-10.50	94.22	50.31	312.41	12.49	408.12	355.31	523.95	127.99	335.88	20.12	227.69	355.43
48679	81.52	2.50	-10.50	103.78	50.54	323.85	24.34	407.21	357.50</						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
48707	96.17	3.10	-10.50	114.96	54.85	639.28	83.04	324.90	367.17	213.03	48.80	340.29	83.13	206.80	367.30
48708	97.39	3.10	-10.50	74.10	50.86	628.05	73.35	273.02	360.07	148.01	52.10	321.96	73.77	159.96	360.15
48709	98.51	2.50	-9.50	19.08	39.20	521.49	46.41	167.08	322.28	48.85	42.73	271.61	46.99	58.96	322.31
48710	99.36	2.50	-9.50	24.27	43.30	455.94	35.88	115.84	309.03	20.38	43.69	269.13	36.68	49.04	308.94
48711	100.20	2.50	-9.50	25.79	49.61	372.25	25.03	70.03	293.41	9.48	43.92	300.97	25.89	58.42	293.18
48712	101.05	2.50	-9.50	19.82	57.78	286.16	15.14	40.48	275.52	12.15	43.45	383.96	15.53	60.33	275.22
48713	101.90	2.50	-9.50	7.41	66.73	238.58	8.71	28.82	255.93	6.12	42.41	515.25	7.31	37.87	255.79
48714	98.43	3.10	-9.50	20.63	39.90	521.17	46.58	169.65	320.37	50.59	43.36	273.90	47.47	62.55	320.40
48715	99.28	3.10	-9.50	24.95	44.22	456.10	36.33	119.28	307.11	22.35	44.92	270.16	37.56	52.79	306.97
48716	100.13	3.10	-9.50	26.20	50.55	372.88	25.81	74.71	291.57	10.73	45.80	300.24	27.12	61.46	291.23
48717	100.97	3.10	-9.50	20.20	58.57	286.95	16.34	46.69	273.86	12.19	45.88	381.57	17.02	63.65	273.42
48718	101.82	3.10	-9.50	7.83	67.24	238.76	10.56	35.83	254.44	5.98	45.34	511.70	8.85	43.50	254.27
48719	98.51	2.50	-10.50	34.58	47.04	593.09	61.44	209.07	353.59	85.83	54.32	296.60	61.99	107.36	353.57
48720	99.36	2.50	-10.50	13.32	43.97	532.14	48.59	146.85	343.33	40.34	53.83	281.89	49.41	64.14	343.20
48721	100.20	2.50	-10.50	19.28	43.50	440.33	34.07	84.30	329.08	10.33	51.88	303.02	35.12	41.26	328.81
48722	101.05	2.50	-10.50	18.12	47.10	334.04	20.48	43.30	311.04	10.26	49.27	398.06	21.42	47.09	310.65
48723	101.90	2.50	-10.50	9.54	55.47	269.20	8.45	32.62	288.52	7.63	46.71	568.81	8.64	40.18	288.18
48724	98.43	3.10	-10.50	36.01	47.04	592.37	61.33	211.34	351.41	87.37	54.05	299.35	62.16	110.22	351.38
48725	99.28	3.10	-10.50	15.21	44.49	532.00	48.87	150.17	341.05	42.12	54.15	283.68	50.08	68.73	340.85
48726	100.13	3.10	-10.50	19.83	44.44	440.89	34.72	89.28	326.79	12.30	52.97	302.86	36.23	47.60	326.38
48727	100.97	3.10	-10.50	18.44	48.20	334.96	21.53	50.60	308.88	10.44	51.19	395.66	22.83	52.62	308.32
48728	101.82	3.10	-10.50	9.78	55.86	269.44	10.30	40.67	286.44	7.41	49.00	564.84	10.05	46.97	286.02
48729	59.42	2.50	-9.50	377.90	70.80	614.08	8.35	206.26	307.67	1858.47	238.61	486.63	8.05	398.87	314.30
48730	60.65	2.50	-9.50	311.17	56.28	631.49	25.43	267.19	320.50	1618.22	119.67	533.05	27.25	424.64	322.60
48731	61.88	2.50	-9.50	264.95	48.03	623.87	41.60	311.85	329.37	1422.10	47.93	518.67	49.24	401.24	329.80
48732	63.11	2.50	-9.50	232.91	44.47	602.18	53.01	342.47	335.77	1260.44	68.68	475.96	65.79	351.80	335.75
48733	64.33	2.50	-9.50	209.73	43.76	573.18	60.73	363.06	340.32	1127.02	108.00	426.55	76.82	294.41	340.34
48734	65.56	2.50	-9.50	191.47	44.35	540.74	65.53	377.13	343.33	1016.30	136.09	382.20	83.05	240.56	343.56
48735	66.79	2.50	-9.50	175.68	45.29	506.96	67.80	387.05	345.01	923.29	153.76	347.97	85.32	191.21	345.49
48736	68.02	2.50	-9.50	161.06	46.03	473.09	67.77	394.23	345.67	844.10	163.54	324.87	84.39	163.48	346.34
48737	69.24	2.50	-9.50	146.98	46.37	440.01	65.60	399.46	345.64	775.93	167.62	311.58	80.88	142.10	346.42
48738	70.47	2.50	-9.50	133.24	46.25	408.44	61.51	403.22	345.25	716.83	167.64	305.72	75.29	130.57	346.07
48739	71.70	2.50	-9.50	119.86	45.75	379.11	55.75	405.83	344.78	665.41	164.84	304.76	68.07	127.00	345.57
48740	72.93	2.50	-9.50	107.08	44.97	352.74	48.60	407.53	344.43	620.58	160.11	306.61	59.62	129.56	345.14
48741	74.15	2.50	-9.50	95.40	44.04	330.15	40.32	408.52	344.34	581.44	154.05	309.79	50.31	136.70	344.96
48742	75.38	2.50	-9.50	85.54	43.07	312.13	31.17	408.94	344.61	547.17	147.10	313.42	40.50	147.07	345.11
48743	76.61	2.50	-9.50	78.47	42.16	299.48	21.38	408.90	345.28	517.06	139.52	317.02	30.65	159.55	345.68
48744	77.84	2.50	-9.50	75.13	41.41	292.83	11.29	408.48	346.37	490.46	131.48	320.39	21.59	173.19	346.68
48745	59.51	3.10	-9.50	373.69	69.51	613.00	11.80	208.03	306.19	1849.52	229.56	483.90	10.88	398.17	316.60
48746	60.73	3.10	-9.50	307.50	55.04	630.14	28.18	267.82	319.08	1608.76	110.29	527.97	33.52	423.22	322.29
48747	61.95	3.10	-9.50	261.57	46.99	622.96	43.08	311.71	328.18	1410.87	45.67	513.96	56.71	399.44	328.84
48748	63.17	3.10	-9.50	229.74	43.70	602.05	53.73	341.86	334.80	1247.68	72.69	473.02	74.30	350.14	334.78
48749	64.40	3.10	-9.50	206.81	43.17	573.92	61.00	362.21	339.48	1113.53	110.35	425.90	85.69	293.28	339.52
48750	65.62	3.10	-9.50	188.85	43.87	542.30	65.54	376.19	342.50	1002.82	136.60	383.78	91.69	240.16	342.85
48751	66.84	3.10	-9.50	173.42	44.83	509.24	67.66	386.12	344.08	910.37	152.95	351.35	93.40	196.56	344.79
48752	68.06	3.10	-9.50	159.18	45.57	475.95	67.52	393.36	344.56	832.07	161.91	329.46	91.72	164.45	345.57
48753	69.28	3.10	-9.50	145.48	45.89	443.33	65.27	398.64	344.34	764.95	165.55	316.84	87.39	143.50	345.52
48754	70.51	3.10	-9.50	132.09	45.78	412.15	61.12	402.43	343.76	706.97	165.40	311.22	81.00	132.22	344.99
48755	71.73	3.10	-9.50	119.00	45.31	383.15	55.34	405.05	343.13	656.67	162.62	310.25	73.04	128.72	344.31
48756	72.95	3.10	-9.50	106.45	44.58	357.10	48.21	406.74	342.65	612.91	158.01	311.96	63.97	131.22	343.72
48757	74.17	3.10	-9.50	94.93	43.71	334.80	39.99	407.70	342.47	574.77	152.16	314.98	54.18	138.21	343.39
48758	75.39	3.10	-9.50	85.18	42.81	317.03	30.94	408.10	342.66	541.41	145.45	318.46	44.05	148.36	343.42
48759	76.62	3.10	-9.50	78.19	41.95	304.57	21.32	408.05	343.27	512.12	138.11	321.94	34.04	160.59	343.87
48760	77.84	3.10	-9.50	74.89	41.23	298.03	11.53	407.63	344.32	486.24	130.32	325.22	24.97	173.97	344.78
48761	59.42	2.50	-10.50	369.45	80.01	674.00	20.48	263.08	342.48	1983.85	190.79	532.65	19.44	645.28	345.93
48762	60.65	2.50	-10.50	315.58	71.38	675.14	43.66	317.98	347.60	1710.23	78.48	536.58	48.77	609.86	348.52
48763	61.88	2.50	-10.50	283.15	67.20	653.60	59.53	353.61	351.18	1509.42	71.50	496.99	72.87	541.33	351.28
48764	63.11	2.50	-10.50	262.12	65.39	622.07	69.91	375.13	353.91	1355.90	118.61	446.45	89.57	458.66	353.89
48765	64.33	2.50	-10.50	245.61	64.72	587.05	76.51	387.95	355.91	1234.14	155.23	400.95	99.71	377.67	356.01
48766	65.56	2.50	-10.50	230.24	64.43	551.34	80.27	395.94	357.02	1133.43	178.76	366.16	104.58	307.68	357.33
48767	66.79	2.50	-10.50	214.66	64.07	516.02	81.51	401.23	357.20	1046.87	192.22	342.51	105.27	252.42	357.71
48768	68.02	2.50	-10.50	198.54	63.37	481.66	80.37	404.89	356.60	970.30	198.33	328.21	102.63	212.16	357.26
48769	69.24	2.50	-10.50	181.92	62.26	448.74	76.98	407.43	355.50	901.44	199.22	320.87	97.28	185.43	356.24
48770	70.47	2.50	-10.50	164.98	60.79	417.74	71.57	409.13	354.21	839.11	196.44	318.23	89.79	169.98	354.97
48771	71.70	2.50	-10.50	148.06	59.08	389.22	64.41	410.16	352.99	782.71	191.16	318.47	80.66	163.48	353.70
48772	72.93	2.50	-10.50	131.61	57.26	363.80	55.83	410.66	352.02	731.87	184.19	320.28	70.33	163.78	352.64
48773	74.15	2.50	-10.50	116.31	55.46	342.18	46.11	410.77	351.41	686.28	176.10	322.83	59.24	169.09	351.94
48774	75.38	2.50	-10.50	103.13	53.79	325.05	35.52	410.58	351.24	645.60	167.27	325.62	47.78	177.92	351.67
48775	76.61	2.50	-10.50	93.33	52.37	313.10	24.30	410.18	351.53	609.45	157.93	328.38	36.45	189.06	351.87
48776	77.84	2.50	-10.50	88.22	51.27	306.86	12.77	409.61	352.31	577.42	148.21	33			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
48805	57.54	2.50	-10.50	520.58	108.98	584.44	47.20	143.05	328.27	2680.34	462.77	369.47	63.98	614.56	343.55
48806	57.62	3.10	-10.50	516.07	107.85	584.38	43.10	146.68	325.39	2670.73	462.07	372.51	48.09	613.49	355.70
48807	56.70	2.50	-10.50	629.39	133.49	479.60	92.48	95.74	317.90	3227.65	625.01	366.10	114.34	579.09	342.78
48808	56.77	3.10	-10.50	624.77	132.01	480.47	86.78	101.32	314.69	3218.82	628.10	360.74	89.11	577.94	375.99
48809	55.85	2.50	-10.50	780.79	170.78	315.13	160.54	77.63	307.47	4075.97	844.00	932.36	184.63	533.35	342.44
48810	55.93	3.10	-10.50	775.51	168.72	316.55	153.39	84.99	303.55	4071.03	848.27	908.92	153.38	535.08	425.55
48811	55.01	2.50	-10.50	994.75	232.97	32.64	289.61	54.28	280.82	5327.58	1151.13	2501.85	297.78	733.41	308.01
48812	55.08	3.10	-10.50	988.66	230.84	30.95	279.72	60.74	275.23	5331.79	1145.09	2465.02	290.42	736.42	454.15
48813	79.06	3.95	-9.50	75.30	40.39	306.60	6.40	405.10	342.58	456.59	120.48	336.47	22.90	188.46	343.10
48814	80.27	3.95	-9.50	79.97	40.08	312.39	12.35	404.08	344.46	436.81	112.47	339.29	21.44	201.68	344.82
48815	81.48	3.95	-9.50	87.39	40.01	323.93	21.94	402.75	346.76	418.70	104.22	341.97	25.74	214.29	347.00
48816	82.69	3.95	-9.50	96.35	40.18	340.63	31.83	401.07	349.44	401.81	95.81	344.52	33.24	225.89	349.59
48817	83.90	3.95	-9.50	105.76	40.58	361.75	41.44	398.96	352.42	385.71	87.32	346.95	41.78	236.12	352.51
48818	85.12	3.95	-9.50	114.71	41.16	386.54	50.46	396.31	355.61	370.00	78.89	349.22	50.29	244.61	355.66
48819	86.33	3.96	-9.50	122.47	41.84	414.18	58.60	392.99	358.84	354.31	70.69	351.22	58.17	251.01	358.86
48820	87.54	3.96	-9.50	128.40	42.48	443.88	65.58	388.84	361.86	338.28	62.92	352.81	65.01	254.92	361.87
48821	88.75	3.96	-9.50	131.89	42.89	474.75	71.11	383.70	364.30	321.49	55.78	353.77	70.46	255.90	364.32
48822	89.96	3.96	-9.50	132.26	42.88	505.82	74.99	377.27	365.71	303.37	49.44	353.82	74.29	253.40	365.75
48823	91.18	3.96	-9.50	128.65	42.28	535.86	77.09	369.04	365.59	282.99	43.99	352.62	76.39	246.64	365.66
48824	92.39	3.96	-9.50	120.04	41.07	563.23	77.40	357.93	363.49	258.93	39.59	349.67	76.74	234.41	363.60
48825	93.60	3.96	-9.50	105.45	39.44	585.37	75.87	341.84	359.11	229.29	36.63	344.20	75.32	215.01	359.28
48826	94.81	3.96	-9.50	84.57	37.81	598.18	72.27	317.50	352.28	192.21	35.78	334.91	71.96	186.56	352.52
48827	96.02	3.96	-9.50	58.76	36.91	595.37	66.10	280.93	342.85	147.15	37.39	319.92	66.27	148.21	343.14
48828	97.23	3.96	-9.50	33.34	37.80	568.13	57.10	229.21	330.48	96.59	40.84	298.00	57.82	102.81	330.72
48829	79.05	5.05	-9.50	74.48	39.86	320.39	9.11	401.91	337.79	446.14	117.82	349.35	27.36	189.13	338.60
48830	80.24	5.05	-9.50	79.18	39.54	325.97	13.83	400.98	339.58	427.87	110.44	352.19	24.45	201.71	340.15
48831	81.44	5.06	-9.50	86.59	39.37	337.09	22.42	399.77	341.80	411.03	102.77	354.98	26.93	213.76	342.18
48832	82.63	5.06	-9.50	95.49	39.40	353.22	31.70	398.24	344.42	395.21	94.87	357.73	33.16	224.89	344.66
48833	83.83	5.06	-9.50	104.76	39.62	373.70	40.90	396.29	347.39	379.97	86.83	360.44	40.97	234.72	347.53
48834	85.03	5.06	-9.50	113.49	40.03	397.79	49.65	393.78	350.61	364.91	78.76	363.05	49.07	242.87	350.68
48835	86.22	5.06	-9.50	120.95	40.56	424.70	57.62	390.53	353.95	349.67	70.82	365.44	56.73	248.93	353.99
48836	87.42	5.07	-9.50	126.52	41.11	453.56	64.50	386.34	357.17	333.91	63.23	367.41	63.45	252.45	357.19
48837	88.61	5.07	-9.50	129.69	41.49	483.40	69.99	381.00	359.91	317.29	56.20	368.67	68.84	252.99	359.94
48838	89.81	5.07	-9.50	129.89	41.48	513.07	73.80	374.28	361.67	299.36	49.91	368.82	72.61	250.05	361.72
48839	91.00	5.07	-9.50	126.41	40.90	541.27	75.79	365.79	361.84	279.33	44.44	367.40	74.60	243.01	361.94
48840	92.20	5.07	-9.50	118.33	39.73	566.33	75.94	354.65	359.88	255.91	39.89	363.82	74.82	230.90	360.05
48841	93.39	5.08	-9.50	104.72	38.20	585.94	74.27	339.02	355.40	227.26	36.63	357.32	73.36	212.30	355.67
48842	94.59	5.08	-9.50	85.24	36.92	596.47	70.73	315.87	348.27	191.63	35.45	346.68	70.23	185.59	348.65
48843	95.78	5.08	-9.50	61.19	36.78	592.33	65.04	281.43	338.45	148.46	37.08	330.26	65.21	149.98	338.90
48844	96.98	5.08	-9.50	37.64	38.78	565.51	56.80	232.93	325.83	100.04	41.26	306.90	57.98	108.31	326.19
48845	79.04	6.15	-9.50	73.28	39.15	336.31	12.17	397.39	332.14	433.34	114.57	364.33	30.78	189.25	333.24
48846	80.21	6.15	-9.50	78.04	38.82	341.63	15.84	396.56	333.79	416.84	107.98	367.17	26.68	201.05	334.57
48847	81.39	6.16	-9.50	85.45	38.59	352.26	23.20	395.51	335.87	401.54	101.05	370.07	27.58	212.44	336.39
48848	82.56	6.16	-9.50	94.30	38.48	367.74	31.63	394.19	338.34	387.01	93.83	373.01	32.55	223.03	338.67
48849	83.74	6.16	-9.50	103.46	38.52	387.47	40.21	392.47	341.16	372.85	86.39	375.99	39.56	232.43	341.36
48850	84.91	6.16	-9.50	111.99	38.71	410.77	48.50	390.20	344.26	358.65	78.82	378.94	47.17	240.23	344.36
48851	86.09	6.16	-9.50	119.15	39.02	436.85	56.17	387.12	347.53	344.02	71.26	381.74	54.55	245.97	347.57
48852	87.26	6.17	-9.50	124.35	39.37	464.82	62.89	382.98	350.75	328.65	63.90	384.14	61.13	249.15	350.77
48853	88.44	6.17	-9.50	127.13	39.62	493.55	68.31	377.51	353.59	312.25	56.94	385.76	66.49	249.25	353.62
48854	89.61	6.17	-9.50	127.09	39.57	521.73	72.14	370.47	355.53	294.53	50.60	386.07	70.28	245.83	355.59
48855	90.79	6.17	-9.50	123.72	39.04	547.84	74.16	361.63	355.91	274.89	44.98	384.44	72.33	238.40	356.04
48856	91.96	6.17	-9.50	116.26	38.04	570.19	74.32	350.37	354.09	252.22	40.22	380.17	72.64	226.36	354.32
48857	93.14	6.18	-9.50	103.81	36.84	586.70	72.68	335.22	349.62	224.80	36.71	372.47	71.35	208.65	349.99
48858	94.31	6.18	-9.50	86.00	36.13	594.40	69.30	313.48	342.32	190.95	35.31	360.29	68.59	183.97	342.84
48859	95.49	6.18	-9.50	63.99	36.87	588.56	64.05	281.64	332.26	150.07	37.00	342.25	64.35	151.65	332.86
48860	96.66	6.18	-9.50	42.34	39.94	562.24	56.68	237.03	319.49	104.23	41.77	317.39	58.37	114.21	319.97
48861	79.03	7.25	-9.50	71.66	38.14	353.75	15.46	391.24	326.37	418.29	110.75	380.87	33.19	188.43	327.74
48862	80.18	7.25	-9.50	76.46	37.85	358.75	18.29	390.54	327.85	403.77	105.07	383.67	28.10	199.32	328.84
48863	81.33	7.25	-9.50	83.88	37.61	368.79	24.35	389.68	329.72	390.20	99.02	386.59	27.60	209.97	330.40
48864	82.48	7.25	-9.50	92.68	37.44	383.49	31.72	388.60	331.94	377.17	92.63	389.64	31.32	219.96	332.39
48865	83.63	7.25	-9.50	101.73	37.35	402.32	39.47	387.19	334.48	364.29	85.96	392.79	37.48	228.89	334.75
48866	84.78	7.26	-9.50	110.11	37.36	424.64	47.11	385.24	337.27	351.13	79.07	395.97	44.53	236.35	337.42
48867	85.93	7.26	-9.50	117.02	37.45	449.73	54.30	382.46	340.22	337.31	72.06	399.05	51.55	241.82	340.29
48868	87.08	7.26	-9.50	121.86	37.58	476.64	60.72	378.51	343.15	322.48	65.06	401.76	57.96	244.73	343.19
48869	88.23	7.26	-9.50	124.25	37.65	504.16	66.04	373.02	345.75	306.42	58.26	403.65	63.29	244.49	345.80
48870	89.38	7.26	-9.50	123.92	37.52	530.77	69.92	365.73	347.56	288.96	51.83	404.05	67.22	240.62	347.64
48871	90.53	7.26	-9.50	120.62	37.08	554.70	72.14	356.49	347.92	269.74	45.97	402.15	69.54	232.79	348.08
48872	91.68	7.26	-9.50	113.79	36.34	574.13	72.57	345.01	346.17	247.88	40.91	397.12	70.23	220.72	346.45
48873	92.83	7.26	-9.50	102.66	35.59	587.23	71.23	330.24	341.78	221.88	37.09	388.16	69.41	203.85	342.25
48874	93.98	7.26	-9.50	86.75	35.49	591.68	68.20	309.98	334.54	190.12					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
48903	91.00	5.07	-10.50	176.11	58.85	553.85	88.57	386.19	376.27	354.17	50.43	381.46	87.62	277.07	376.33
48904	92.20	5.07	-10.50	172.54	58.25	581.71	88.91	379.90	376.25	331.10	46.92	380.02	88.05	269.20	376.38
48905	93.39	5.08	-10.50	162.23	56.57	606.44	87.49	370.05	373.88	301.58	44.45	376.47	86.84	256.54	374.10
48906	94.59	5.08	-10.50	143.11	54.23	625.53	84.44	353.88	369.28	262.66	43.76	369.87	84.15	236.88	369.58
48907	95.78	5.08	-10.50	114.13	51.83	633.87	79.38	323.00	362.71	212.39	45.72	358.13	79.66	207.30	363.03
48908	96.98	5.08	-10.50	76.76	49.87	622.27	71.39	276.94	354.04	151.62	50.06	337.77	72.53	165.71	354.24
48909	99.04	6.15	-10.50	86.84	48.61	350.19	14.28	399.42	337.95	511.57	129.32	374.54	37.87	216.09	338.83
48910	80.21	6.15	-10.50	92.73	48.20	355.32	18.41	398.93	339.52	492.45	121.19	377.04	32.90	227.35	340.12
48911	81.39	6.16	-10.50	102.44	48.04	365.55	26.86	398.51	341.66	475.21	112.69	379.72	33.61	238.43	342.04
48912	82.56	6.16	-10.50	114.42	48.17	380.49	36.64	398.13	344.37	459.45	103.89	382.59	39.06	248.97	344.58
48913	83.74	6.16	-10.50	127.24	48.65	399.64	46.66	397.70	347.64	444.68	94.87	385.65	47.04	258.60	347.72
48914	84.91	6.16	-10.50	139.77	49.54	422.43	56.44	397.08	351.43	430.38	85.77	388.88	55.90	266.93	351.43
48915	86.09	6.16	-10.50	151.07	50.84	448.21	65.60	396.04	355.71	416.04	76.85	392.20	64.63	273.52	355.65
48916	87.26	6.17	-10.50	160.44	52.45	476.18	73.73	394.31	360.32	401.15	68.45	395.44	72.52	277.85	360.25
48917	88.44	6.17	-10.50	167.37	54.16	505.37	80.34	391.60	364.96	385.30	61.02	398.27	78.97	279.42	364.89
48918	89.61	6.17	-10.50	171.46	55.53	534.52	84.94	387.70	369.03	368.07	54.91	400.16	83.46	277.89	369.00
48919	90.79	6.17	-10.50	172.19	56.06	562.30	87.21	382.51	371.68	348.75	50.09	400.46	85.73	273.10	371.73
48920	91.96	6.17	-10.50	168.51	55.42	587.42	87.22	375.70	372.02	325.92	46.23	398.50	85.89	264.93	372.19
48921	93.14	6.18	-10.50	158.66	53.69	608.72	85.37	365.89	369.53	297.22	43.23	393.70	84.37	252.68	369.83
48922	94.31	6.18	-10.50	140.66	51.49	624.32	82.04	349.92	364.26	259.85	41.94	385.28	81.62	234.48	364.68
48923	95.49	6.18	-10.50	113.52	49.79	630.12	77.20	322.93	356.63	211.97	43.74	371.62	77.63	207.56	357.08
48924	96.66	6.18	-10.50	78.61	49.49	618.17	70.16	279.89	346.89	154.29	48.97	349.84	71.80	169.85	347.16
48925	79.03	7.25	-10.50	85.47	47.38	366.94	18.75	393.29	330.40	494.73	125.23	390.54	40.45	214.66	331.50
48926	80.18	7.25	-10.50	91.48	46.97	371.81	21.87	392.95	331.82	478.12	118.09	393.05	34.41	225.15	332.58
48927	81.33	7.25	-10.50	101.30	46.73	381.56	28.75	392.78	333.80	463.07	110.54	395.84	33.72	235.63	334.28
48928	82.48	7.25	-10.50	113.34	46.70	395.86	37.28	392.74	336.33	449.21	102.63	398.89	37.95	245.73	336.59
48929	83.63	7.25	-10.50	126.17	46.93	414.28	46.33	392.75	339.39	436.06	94.42	402.22	45.11	255.11	339.50
48930	84.78	7.26	-10.50	138.61	47.48	436.32	55.37	392.64	342.97	423.09	86.04	405.82	53.44	263.35	342.97
48931	85.93	7.26	-10.50	149.68	48.37	461.38	64.01	392.14	347.05	409.72	77.64	409.63	61.85	269.96	346.98
48932	87.08	7.26	-10.50	158.57	49.58	488.70	71.83	390.82	351.54	395.39	69.50	413.48	69.62	274.32	351.44
48933	88.23	7.26	-10.50	164.72	50.92	517.17	78.36	388.24	356.19	379.64	61.99	417.00	76.11	275.78	356.08
48934	89.38	7.26	-10.50	167.88	52.07	545.31	83.05	384.01	360.44	362.18	55.47	419.49	80.78	273.82	360.38
48935	90.53	7.26	-10.50	167.84	52.54	571.29	85.48	378.08	363.39	342.64	50.06	420.02	83.27	268.35	363.42
48936	91.68	7.26	-10.50	163.92	52.01	593.51	85.58	370.49	364.01	320.02	45.59	417.59	83.61	259.66	364.19
48937	92.83	7.26	-10.50	154.61	50.52	610.87	83.69	360.52	361.59	292.26	42.07	411.46	82.25	247.66	361.95
48938	93.98	7.26	-10.50	137.94	48.73	622.27	80.32	345.61	356.01	256.71	40.30	401.06	79.73	231.01	356.53
48939	95.13	7.26	-10.50	112.94	47.73	624.91	75.70	321.34	347.72	211.64	41.82	385.32	76.33	207.18	348.28
48940	96.28	7.26	-10.50	80.84	48.60	612.46	69.46	282.85	337.22	157.55	47.35	362.14	71.69	173.99	337.54
48941	98.27	3.96	-9.50	23.22	40.97	520.42	47.00	174.16	317.43	53.74	44.39	278.02	48.42	68.49	317.48
48942	99.12	3.96	-9.50	26.13	45.59	456.36	37.26	125.27	304.22	25.79	46.88	272.04	39.20	58.85	303.99
48943	99.98	3.96	-9.50	26.95	51.97	374.15	27.29	82.50	288.88	12.97	48.72	298.82	29.33	66.46	288.33
48944	100.83	3.96	-9.50	20.86	59.78	288.67	18.54	56.11	271.59	12.49	49.68	376.83	19.62	69.04	270.90
48945	101.69	3.96	-9.50	8.72	68.53	239.16	13.40	45.19	253.37	6.31	49.62	504.79	11.46	51.53	253.15
48946	98.01	5.08	-9.50	27.14	42.91	519.28	47.68	180.98	312.68	58.59	46.08	284.86	49.90	77.05	312.74
48947	98.87	5.08	-9.50	28.19	48.06	456.78	38.74	134.24	299.53	30.88	49.94	275.43	41.73	67.52	299.16
48948	99.74	5.08	-9.50	28.28	54.59	376.20	29.62	93.70	284.55	16.55	53.13	296.93	32.72	73.82	283.68
48949	100.60	5.07	-9.50	22.10	62.24	291.49	21.84	68.66	267.92	13.45	55.25	369.47	23.55	76.89	266.84
48950	101.47	5.07	-9.50	10.06	70.55	240.00	17.30	57.00	250.47	6.92	56.01	493.40	15.48	62.09	250.17
48951	97.69	6.18	-9.50	31.49	44.93	517.80	48.55	188.66	306.25	64.33	47.71	293.17	51.65	85.94	306.32
48952	98.57	6.18	-9.50	30.76	50.61	457.21	40.47	144.12	293.12	36.69	52.88	279.84	44.56	76.40	292.57
48953	99.44	6.18	-9.50	29.98	57.30	378.67	32.32	105.46	278.47	20.83	57.49	295.13	36.50	81.48	277.23
48954	100.32	6.18	-9.50	23.71	64.78	294.99	25.48	81.02	262.62	15.14	60.85	360.86	28.00	85.01	261.09
48955	101.20	6.17	-9.50	11.84	72.73	241.25	21.52	68.73	246.33	8.15	62.53	479.60	20.14	72.87	245.94
48956	97.31	7.26	-9.50	36.20	46.18	515.73	49.71	196.65	298.70	70.94	48.39	302.30	53.76	94.55	298.75
48957	98.20	7.26	-9.50	33.82	52.25	457.53	42.41	154.45	285.56	43.27	54.56	284.93	47.64	85.01	284.81
48958	99.09	7.26	-9.50	32.11	59.11	381.55	35.17	117.39	271.11	25.88	60.42	293.29	40.40	89.05	269.48
48959	99.98	7.26	-9.50	25.76	66.47	299.29	29.25	93.07	255.74	17.74	65.15	390.94	32.60	93.09	253.79
48960	100.87	7.26	-9.50	14.10	74.31	243.13	25.78	79.60	240.82	10.32	67.93	463.55	25.19	83.00	240.41
48961	98.27	3.96	-10.50	38.55	47.71	590.74	61.50	215.19	348.98	90.18	54.19	304.35	62.87	115.02	348.93
48962	99.12	3.96	-10.50	18.39	46.24	531.57	49.73	155.94	338.55	45.46	55.48	287.07	51.73	76.21	338.23
48963	99.98	3.96	-10.50	20.75	47.06	442.21	36.28	97.84	324.48	15.78	55.65	302.55	38.71	57.14	323.83
48964	100.83	3.96	-10.50	19.43	51.09	337.23	23.50	61.66	306.86	11.50	55.02	390.66	25.59	61.19	306.00
48965	101.69	3.96	-10.50	10.00	58.90	270.14	13.00	51.32	285.94	7.30	53.77	556.08	13.19	56.27	285.37
48966	98.01	5.08	-10.50	42.13	49.18	588.48	61.61	220.85	344.44	94.30	54.77	313.05	63.77	121.96	344.35
48967	98.87	5.08	-10.50	22.74	49.61	531.05	50.99	164.29	333.84	50.37	58.07	293.26	54.08	86.50	333.33
48968	99.74	5.08	-10.50	22.52	51.97	444.16	38.66	109.76	320.11	20.73	60.37	303.05	42.37	69.61	319.06
48969	100.60	5.07	-10.50	20.70	56.55	340.99	26.78	76.21	303.25	13.28	61.45	383.17	29.88	72.76	301.87
48970	101.47	5.07	-10.50	11.11	64.00	271.45	17.12	64.77	283.23	7.97	61.49	542.13	17.69	68.54	282.34
48971	97.69	6.18	-10.50	46.08	51.05	585.84	61.70	227.67	336.49	99.19	55.54	323.75	64.70	129.91	336.34
48972	98.57	6.18	-10.50	27.27	53.63	530.56	52.30	173.80	325.49	55.94	61.13	301.15	56.54	97.20	324.74
48973	99.														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49001	64.70	5.07	-9.50	191.63	40.29	577.37	61.69	357.43	336.07	1037.67	116.23	423.63	126.42	286.41	336.09
49002	65.90	5.07	-9.50	175.81	41.32	549.76	65.01	371.07	338.94	931.44	134.57	391.77	127.40	236.95	339.73
49003	67.09	5.07	-9.50	162.50	42.35	519.95	66.36	381.13	340.00	844.72	145.85	367.14	124.37	197.16	341.69
49004	68.29	5.07	-9.50	150.33	43.06	489.15	65.69	388.63	339.78	772.60	151.95	350.23	118.41	168.22	342.19
49005	69.48	5.07	-9.50	138.54	43.39	458.43	63.09	394.12	338.83	711.70	154.27	340.16	110.26	149.42	341.66
49006	70.68	5.06	-9.50	126.77	43.36	428.79	58.78	397.97	337.62	659.74	153.87	335.41	100.51	139.25	340.58
49007	71.87	5.06	-9.50	114.98	43.09	401.15	53.04	400.52	336.50	615.13	151.54	334.30	89.70	136.00	339.33
49008	73.07	5.06	-9.50	103.39	42.64	376.37	46.16	402.06	335.66	576.66	147.81	335.43	78.29	138.11	338.21
49009	74.27	5.06	-9.50	92.55	42.08	355.24	38.40	402.86	335.19	543.33	143.06	337.74	66.68	144.27	337.38
49010	75.46	5.06	-9.50	83.27	41.48	338.50	30.03	403.13	335.15	514.29	137.56	340.56	55.23	153.33	336.96
49011	76.66	5.05	-9.50	76.59	40.88	326.81	21.39	403.01	335.57	488.83	131.45	343.52	44.34	164.34	337.00
49012	77.85	5.05	-9.50	73.49	40.32	320.67	13.28	402.59	336.45	466.31	124.84	346.46	34.64	176.50	337.55
49013	80.24	6.18	-9.50	325.16	53.79	600.52	39.12	221.64	295.93	1721.04	107.09	452.57	96.07	418.00	323.19
49014	61.41	6.18	-9.50	265.17	43.02	616.41	46.88	272.09	309.06	1462.80	42.99	482.19	131.61	419.44	319.58
49015	62.59	6.18	-9.50	224.64	38.75	613.94	52.99	309.08	319.41	1257.38	65.32	475.01	148.52	383.78	322.17
49016	63.76	6.18	-9.50	197.87	37.79	600.42	57.88	335.03	327.13	1097.22	94.44	451.20	154.16	332.65	327.21
49017	64.94	6.17	-9.50	179.57	38.35	580.14	61.64	353.38	332.24	972.22	115.17	423.61	153.38	279.92	332.24
49018	66.11	6.17	-9.50	165.88	39.38	555.47	64.03	366.86	334.94	873.27	129.05	398.66	148.72	233.51	335.96
49019	67.29	6.17	-9.50	154.46	40.34	527.91	64.78	377.07	335.70	793.26	137.83	378.91	141.47	196.81	337.96
49020	68.46	6.17	-9.50	143.94	41.02	498.74	63.73	384.75	335.16	727.18	142.76	364.96	132.30	170.36	338.41
49021	69.64	6.17	-9.50	133.57	41.37	469.23	60.95	390.31	333.96	671.68	144.78	356.37	121.62	153.17	337.76
49022	70.81	6.16	-9.50	122.94	41.47	440.58	56.64	394.10	332.58	624.61	144.66	352.12	109.87	143.77	336.54
49023	71.99	6.16	-9.50	112.01	41.37	413.86	51.08	396.49	331.35	584.43	142.94	350.96	97.48	140.61	335.13
49024	73.16	6.16	-9.50	101.05	41.14	389.95	44.54	397.84	330.43	549.94	140.04	351.78	84.86	142.37	333.84
49025	74.34	6.16	-9.50	90.64	40.81	369.64	37.28	398.48	329.90	520.15	136.22	353.70	72.33	147.86	332.83
49026	75.51	6.16	-9.50	81.65	40.41	353.61	29.58	398.63	329.79	494.26	131.65	356.15	60.21	156.09	332.22
49027	76.69	6.15	-9.50	75.16	39.98	342.44	21.86	398.44	330.13	471.55	126.47	358.81	48.82	166.21	332.06
49028	77.86	6.15	-9.50	72.21	39.55	336.58	15.11	398.02	330.91	451.42	120.75	361.54	38.69	177.47	332.40
49029	80.62	7.26	-9.50	290.94	45.80	592.11	52.88	227.91	290.39	1592.52	52.27	435.33	189.02	433.57	325.35
49030	61.77	7.26	-9.50	236.90	39.45	608.29	54.48	273.24	303.65	1336.84	49.18	461.01	199.05	414.95	317.76
49031	62.92	7.26	-9.50	202.17	36.98	608.70	56.46	306.62	314.10	1145.81	73.45	458.73	195.95	372.20	317.99
49032	64.07	7.26	-9.50	180.14	36.43	599.12	58.81	330.57	321.79	1001.52	93.83	443.45	187.90	320.67	322.00
49033	65.22	7.26	-9.50	165.43	36.82	582.74	60.98	348.13	326.75	890.47	108.72	424.46	177.92	270.81	326.72
49034	66.37	7.26	-9.50	154.54	37.55	561.30	62.32	361.53	329.27	803.11	119.25	406.40	166.93	228.43	330.47
49035	67.52	7.26	-9.50	145.42	38.23	536.15	62.40	371.92	329.90	732.64	126.44	391.41	155.31	195.57	332.62
49036	68.67	7.26	-9.50	136.84	38.76	508.71	60.98	379.74	329.33	674.44	130.87	380.37	143.03	172.04	333.24
49037	69.82	7.26	-9.50	128.02	39.10	480.54	58.10	385.26	328.16	625.65	133.09	373.33	130.06	156.67	332.74
49038	70.97	7.26	-9.50	118.59	39.29	453.07	53.94	388.86	326.88	584.42	133.63	369.75	116.62	148.06	331.62
49039	72.12	7.26	-9.50	108.54	39.36	427.45	48.73	390.99	325.76	549.37	132.85	368.73	102.99	144.95	330.30
49040	73.27	7.25	-9.50	98.20	39.33	404.61	42.73	392.10	324.92	519.41	131.01	369.40	89.47	146.25	329.03
49041	74.42	7.25	-9.50	88.24	39.21	385.29	36.17	392.53	324.44	493.62	128.30	371.06	76.31	150.97	327.99
49042	75.57	7.25	-9.50	79.56	39.02	370.10	29.36	392.53	324.33	471.22	124.83	373.24	63.73	158.27	327.28
49043	76.72	7.25	-9.50	73.28	38.75	359.55	22.78	392.27	324.60	451.56	120.70	375.66	52.03	167.39	326.97
49044	77.87	7.25	-9.50	70.48	38.45	354.02	17.46	391.82	325.28	434.08	115.98	378.21	41.59	177.64	327.12
49045	59.67	3.96	-10.50	356.97	76.58	668.96	31.30	266.40	338.00	1951.98	162.50	521.27	36.99	639.97	347.16
49046	60.88	3.96	-10.50	304.56	68.22	670.08	49.53	318.33	344.58	1677.07	63.11	522.30	74.25	602.03	347.23
49047	62.09	3.96	-10.50	272.93	64.75	650.49	62.32	352.19	349.66	1470.99	85.33	486.81	103.38	532.24	350.10
49048	63.30	3.96	-10.50	252.60	63.71	621.61	71.02	372.82	353.53	1313.39	129.28	442.90	122.00	450.48	353.48
49049	64.51	3.96	-10.50	236.95	63.61	589.29	76.86	385.34	356.07	1189.88	159.64	404.05	131.69	371.83	356.26
49050	65.72	3.96	-10.50	222.60	63.59	555.95	80.31	393.41	357.13	1089.52	178.33	374.61	134.74	304.71	357.81
49051	66.94	3.96	-10.50	208.20	63.22	522.56	81.39	398.97	356.78	1004.76	188.57	354.53	132.91	252.19	357.97
49052	68.15	3.96	-10.50	193.32	62.34	489.69	80.07	402.92	355.41	930.92	192.76	342.17	127.42	214.16	356.97
49053	69.36	3.96	-10.50	177.89	61.02	457.90	76.46	405.67	353.50	865.31	192.65	335.58	119.14	188.95	355.26
49054	70.57	3.96	-10.50	162.00	59.42	427.82	70.84	407.43	351.48	806.51	189.54	332.99	108.82	174.33	353.26
49055	71.78	3.95	-10.50	145.91	57.69	400.11	63.56	408.42	349.66	753.73	184.40	332.93	97.11	168.06	351.33
49056	73.00	3.95	-10.50	130.07	55.95	375.45	54.98	408.81	348.23	706.44	177.89	334.33	84.58	168.17	349.71
49057	74.21	3.95	-10.50	115.20	54.30	354.53	45.40	408.79	347.28	664.23	170.45	336.47	71.72	173.01	348.53
49058	75.42	3.95	-10.50	102.31	52.81	338.01	35.09	408.49	346.85	626.66	162.34	338.90	58.95	181.22	347.86
49059	76.63	3.95	-10.50	92.71	51.53	326.52	24.34	408.02	346.95	593.33	153.75	341.41	46.78	191.67	347.74
49060	77.84	3.95	-10.50	87.76	50.53	320.53	13.74	407.44	347.60	563.80	144.75	343.88	36.03	203.48	348.19
49061	59.92	5.08	-10.50	341.51	71.29	663.30	41.13	269.61	334.07	1906.92	121.72	506.30	67.92	637.48	348.13
49062	61.12	5.08	-10.50	290.95	63.77	664.74	54.94	318.42	342.08	1627.36	58.64	506.68	113.07	593.22	346.90
49063	62.31	5.08	-10.50	260.81	61.33	647.52	64.79	350.30	348.55	1417.98	99.39	476.92	141.85	520.96	349.57
49064	63.51	5.08	-10.50	241.88	61.10	621.76	71.89	369.94	353.39	1259.93	136.47	440.69	156.89	440.15	353.34
49065	64.70	5.07	-10.50	227.59	61.54	592.47	76.99	382.18	356.30	1138.08	160.50	408.88	162.34	364.27	356.49
49066	65.90	5.07	-10.50	214.63	61.79	561.67	80.09	390.39	357.12	1040.60	174.99	384.64	161.41	300.49	358.09
49067	67.09	5.07	-10.50	201.65	61.46	530.18	80.94	396.28	356.15	959.37	182.70	367.72	156.04	251.10	357.93
49068	68.29	5.07	-10.50	188.16	60.53	498.64	79.36	400.53	354.00	889.35	185.53	356.89	147.37	215.53	356.38
49069	69.48	5.07	-10.50	173.99	59.19	467.81	75.52	403.41	351.34	827.70	184.88	350.78	136.22	191.92	354.03

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49099	67.52	7.26	-10.50	185.46	55.13	549.74	77.78	389.03	345.75	834.99	159.05	399.48	194.58	246.40	348.63
49100	68.67	7.26	-10.50	175.81	54.34	520.73	75.45	393.80	342.56	778.12	160.96	391.11	178.89	217.54	346.48
49101	69.82	7.26	-10.50	164.73	53.35	491.64	71.20	396.53	339.13	728.59	160.80	385.65	162.02	197.89	343.56
49102	70.97	7.26	-10.50	152.15	52.35	463.82	65.45	397.63	336.03	685.17	159.16	382.73	144.50	185.74	340.48
49103	72.12	7.26	-10.50	138.40	51.43	438.33	58.64	397.65	333.48	646.97	156.43	381.70	126.88	179.74	337.63
49104	73.27	7.25	-10.50	124.15	50.60	415.91	51.08	397.07	331.54	613.30	152.84	381.95	109.62	178.68	335.22
49105	74.42	7.25	-10.50	110.34	49.85	397.14	43.08	396.21	330.20	583.55	148.53	382.98	93.05	181.51	333.31
49106	75.57	7.25	-10.50	98.15	49.15	382.51	34.94	395.31	329.41	557.23	143.57	384.49	77.46	187.30	331.96
49107	76.72	7.25	-10.50	89.07	48.50	372.40	27.23	394.48	329.19	533.91	138.00	386.29	63.12	195.22	331.19
49108	77.87	7.25	-10.50	84.55	47.90	367.14	21.07	393.80	329.52	513.20	131.88	388.30	50.49	204.54	331.04
49109	55.21	3.96	-9.50	936.95	208.08	50.15	208.61	183.02	124.93	2922.67	807.35	1509.14	592.78	333.86	559.94
49110	56.07	3.96	-9.50	770.66	164.08	252.68	130.87	137.42	201.32	2804.94	726.99	1050.13	337.56	273.44	500.99
49111	56.92	3.96	-9.50	630.14	129.98	410.60	80.10	100.58	245.66	2554.71	610.44	501.02	155.40	97.56	402.39
49112	57.78	3.96	-9.50	522.09	105.41	508.79	45.52	110.23	271.94	2293.75	480.95	330.25	63.88	195.62	349.10
49113	58.63	3.96	-9.50	439.71	85.54	571.17	22.30	152.98	289.49	2065.54	349.44	394.15	25.19	317.91	326.98
49114	55.43	5.07	-9.50	928.75	185.23	65.69	183.05	171.09	126.07	2596.99	842.94	1152.27	396.37	733.12	394.17
49115	56.30	5.07	-9.50	747.68	159.87	264.24	117.29	139.47	209.05	2559.98	872.82	913.17	239.49	455.07	484.39
49116	57.16	5.08	-9.50	605.10	131.98	417.88	69.23	107.52	249.44	2421.40	698.98	470.59	97.11	125.74	413.66
49117	58.03	5.08	-9.50	500.65	105.20	510.57	37.00	118.09	271.57	2228.60	497.48	335.73	37.91	191.84	359.95
49118	58.89	5.08	-9.50	421.09	81.75	569.38	22.39	160.21	286.98	2023.73	322.00	393.89	22.62	326.12	333.87
49119	55.70	6.17	-9.50	913.08	180.65	52.76	165.75	163.61	137.17	2685.29	880.82	1117.17	264.33	701.86	256.73
49120	56.58	6.18	-9.50	724.75	162.66	284.05	95.12	136.78	216.22	2606.59	916.65	901.29	94.16	394.61	383.77
49121	57.46	6.18	-9.50	582.76	132.21	425.55	50.03	108.75	248.70	2461.74	673.06	474.12	80.26	100.37	379.67
49122	58.33	6.18	-9.50	478.40	97.67	511.06	30.70	125.14	267.54	2237.19	417.12	342.26	39.44	245.43	353.88
49123	59.21	6.18	-9.50	397.62	71.69	565.83	31.65	168.67	282.10	1991.03	235.26	390.31	45.96	362.56	334.97
49124	56.03	7.26	-9.50	889.46	206.10	75.78	151.33	170.11	160.40	3191.01	979.84	1400.35	148.42	243.62	160.31
49125	56.92	7.26	-9.50	708.50	174.87	305.90	71.73	128.33	215.12	2955.47	826.54	979.01	135.83	134.29	350.13
49126	57.81	7.26	-9.50	558.02	118.31	430.67	46.55	106.81	242.20	2599.19	478.33	483.06	56.10	207.08	380.18
49127	58.70	7.26	-9.50	445.26	78.53	508.75	47.63	134.03	261.19	2220.19	246.64	346.74	91.83	343.79	360.57
49128	59.59	7.26	-9.50	360.77	57.46	559.54	50.99	178.82	276.21	1891.16	121.18	384.35	156.60	412.59	340.91
49129	55.21	3.96	-10.50	986.93	212.97	33.03	269.83	79.41	278.07	5264.00	1292.50	2190.87	333.80	572.04	632.66
49130	56.07	3.96	-10.50	768.52	162.37	319.65	144.52	97.28	303.01	3964.98	936.63	774.97	154.87	430.12	524.03
49131	56.92	3.96	-10.50	615.16	129.48	483.57	78.85	109.22	312.98	3146.18	676.86	343.60	78.95	533.20	419.00
49132	57.78	3.96	-10.50	505.91	106.23	584.54	37.59	152.26	322.83	2626.00	475.22	380.35	38.65	597.29	371.99
49133	58.63	3.96	-10.50	425.78	89.56	641.69	18.94	207.18	330.76	2268.11	310.83	471.37	16.92	634.56	353.59
49134	55.43	5.07	-10.50	977.40	193.77	43.46	254.55	95.68	277.81	5162.98	1472.96	1901.60	272.42	391.77	601.63
49135	56.30	5.07	-10.50	753.90	156.04	328.96	128.71	108.68	300.09	3855.52	1053.73	646.54	133.22	340.13	522.15
49136	57.16	5.08	-10.50	597.88	127.71	489.07	65.52	118.26	308.85	3069.32	725.73	336.96	84.08	501.42	422.64
49137	58.03	5.08	-10.50	488.49	103.27	584.46	31.96	160.15	317.82	2576.89	465.65	386.48	45.95	594.34	375.86
49138	58.89	5.08	-10.50	408.81	84.59	637.95	28.15	213.39	325.87	2225.37	271.25	464.33	25.93	637.20	356.30
49139	55.70	6.17	-10.50	966.20	186.54	64.05	229.83	97.25	275.30	5219.67	1510.08	1884.04	252.67	459.58	473.99
49140	56.58	6.18	-10.50	730.14	159.83	347.04	104.62	113.43	290.31	3884.39	1052.69	651.83	207.84	415.00	457.33
49141	57.46	6.18	-10.50	574.52	125.58	494.54	50.45	127.62	297.93	3078.62	655.94	351.43	127.28	566.32	395.66
49142	58.33	6.18	-10.50	464.29	94.64	582.38	36.87	170.30	307.88	2549.25	364.32	382.50	40.67	637.44	370.22
49143	59.21	6.18	-10.50	384.01	74.89	631.87	42.95	221.60	317.48	2163.34	181.36	448.21	73.28	657.00	357.01
49144	56.03	7.26	-10.50	935.44	212.61	111.80	197.17	90.73	260.15	5477.33	1401.27	2066.66	238.29	783.96	424.58
49145	56.92	7.26	-10.50	699.08	170.10	368.55	82.30	119.88	270.44	4006.78	867.03	746.21	170.36	644.44	439.10
49146	57.81	7.26	-10.50	536.75	111.77	496.52	58.69	141.64	282.08	3053.59	427.89	376.57	59.47	697.65	401.37
49147	58.70	7.26	-10.50	423.85	78.39	576.39	59.17	183.17	295.82	2435.02	197.46	373.27	142.56	696.63	382.95
49148	59.59	7.26	-10.50	344.58	63.19	622.26	61.85	231.04	307.71	2010.19	83.90	426.88	204.37	671.31	366.52
49149	95.95	8.10	-9.50	51.35	40.78	554.24	57.44	243.51	305.84	113.30	41.44	337.59	60.24	123.56	306.48
49150	95.68	8.70	-9.50	54.28	40.63	551.11	57.98	244.54	301.71	116.55	40.94	344.14	61.17	125.36	302.38
49151	94.82	8.10	-9.50	69.43	36.84	579.67	63.34	279.88	318.11	153.53	36.83	364.61	64.00	152.60	318.96
49152	94.56	8.70	-9.50	71.06	36.69	576.31	63.37	278.13	313.66	154.63	36.72	371.47	64.18	151.69	314.54
49153	93.69	8.10	-9.50	87.24	35.06	589.17	67.56	306.35	327.88	189.31	35.68	385.28	66.53	178.39	328.61
49154	93.45	8.70	-9.50	87.37	34.78	587.01	67.12	302.89	323.18	188.48	35.96	392.69	65.98	175.42	323.94
49155	92.56	8.10	-9.50	101.54	34.78	587.34	70.14	325.56	334.95	219.29	37.70	400.16	67.94	199.36	335.47
49156	92.34	8.70	-9.50	100.57	34.30	586.99	69.28	321.68	330.14	217.33	38.34	408.24	66.79	195.69	330.68
49157	91.43	8.10	-9.50	111.60	35.19	576.94	71.06	340.14	339.25	244.11	41.83	410.06	68.16	215.67	339.57
49158	91.23	8.70	-9.50	109.82	34.53	578.41	69.85	336.12	334.38	241.21	42.77	418.78	66.54	211.52	334.74
49159	90.30	8.10	-9.50	117.94	35.73	559.78	70.26	351.84	341.07	265.27	47.21	415.72	66.98	227.76	341.26
49160	90.12	8.70	-9.50	115.82	34.96	562.81	68.72	347.98	336.35	261.79	48.36	424.95	64.91	223.63	336.56
49161	89.18	8.10	-9.50	121.22	36.12	537.58	67.82	361.36	340.97	284.14	53.27	417.93	64.33	235.88	341.07
49162	89.01	8.70	-9.50	119.15	35.35	541.90	66.12	357.66	336.58	280.42	54.52	427.53	61.99	231.90	337.01
49163	88.05	8.10	-9.50	121.78	36.32	512.29	63.89	368.77	339.54	301.36	59.71	417.62	60.25	240.02	339.61
49164	87.90	8.70	-9.50	119.84	35.60	517.69	62.21	366.04	335.55	297.39	60.90	427.46	57.82	236.09	335.65
49165	86.92	8.10	-9.50	119.67	36.39	485.86	58.73	374.17	337.38	317.06	66.30	415.70	54.95	240.43	337.45
49166	86.79	8.70	-9.50	117.88	35.74	492.24	57.20	370.29	333.79	312.74	67.26	425.71	52.55	236.56	333.90
49167	85.79	8.10	-9.50	115.05	36.41	459.96	52.64	377.88	334.90	331.35	72.89	4			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49197	86.92	8.10	-10.50	156.91	47.33	497.78	70.06	386.89	344.71	390.35	70.89	426.91	66.58	270.35	344.61
49198	86.79	8.70	-10.50	155.43	46.07	503.71	68.50	382.98	341.12	386.27	72.23	436.15	64.06	266.39	341.04
49199	85.79	8.10	-10.50	148.30	46.48	471.12	62.67	387.72	340.64	404.07	78.63	422.76	58.97	265.83	340.59
49200	85.67	8.70	-10.50	146.95	45.45	477.77	61.47	383.42	337.54	399.42	79.54	432.01	56.65	261.70	337.51
49201	84.66	8.10	-10.50	137.35	45.88	446.76	54.66	387.72	336.95	416.52	86.43	418.72	50.84	259.13	336.98
49202	84.56	8.70	-10.50	136.05	44.99	454.15	53.92	383.05	334.25	411.11	86.78	428.01	48.84	254.95	334.32
49203	83.53	8.10	-10.50	124.93	45.53	425.44	46.39	387.38	333.70	428.33	94.10	414.96	42.93	250.95	333.85
49204	83.45	8.70	-10.50	123.68	44.71	433.53	46.19	382.40	331.33	422.04	93.84	424.28	41.37	246.85	331.53
49205	82.40	8.10	-10.50	112.10	45.41	407.68	38.27	387.01	330.91	440.11	101.52	411.52	36.36	241.79	331.23
49206	82.34	8.70	-10.50	110.89	44.59	416.40	38.66	381.79	328.80	432.81	100.63	420.87	35.41	237.89	329.18
49207	81.27	8.10	-10.50	100.03	45.49	393.95	30.86	386.77	328.60	452.40	108.61	408.39	32.96	232.05	329.16
49208	81.23	8.70	-10.50	98.86	44.63	403.18	31.89	381.37	326.70	443.97	107.09	417.76	32.81	228.46	327.31
49209	80.14	8.10	-10.50	90.16	45.72	384.61	25.16	386.74	326.80	465.64	115.32	405.56	34.58	222.07	327.66
49210	80.12	8.70	-10.50	89.01	44.78	394.21	26.79	381.22	325.06	455.93	113.13	414.96	35.18	218.87	325.98
49211	79.01	8.10	-10.50	84.06	46.07	379.98	22.65	386.96	325.52	480.22	121.60	403.06	41.31	212.24	326.75
49212	79.01	8.70	-10.50	82.90	45.04	389.76	24.53	381.37	323.91	469.04	118.76	412.47	42.41	209.48	325.20
49213	100.59	8.10	-9.50	16.07	74.32	245.26	29.12	88.03	235.17	12.40	70.64	449.17	28.86	90.89	234.91
49214	100.36	8.70	-9.50	18.01	74.31	247.32	31.52	95.23	231.41	14.60	72.08	437.39	31.42	97.54	231.25
49215	99.68	8.10	-9.50	27.73	67.06	303.30	32.12	102.50	250.21	20.44	66.95	342.40	35.96	99.47	247.96
49216	99.44	8.70	-9.50	29.39	67.12	306.73	34.16	109.20	247.09	22.99	67.22	335.84	38.66	103.84	244.58
49217	98.78	8.10	-9.50	34.11	59.62	384.14	37.41	126.69	265.51	30.41	61.17	292.00	43.51	94.79	263.56
49218	98.52	8.70	-9.50	35.79	59.54	386.23	39.12	133.18	261.94	34.10	61.02	291.32	46.00	98.56	259.75
49219	97.81	8.10	-9.50	36.55	52.65	457.66	44.06	162.51	279.77	48.92	54.64	289.40	50.23	91.38	278.84
49220	97.61	8.70	-9.50	38.72	52.52	457.64	45.41	168.05	276.03	53.39	54.16	293.03	52.31	95.47	274.96
49221	96.97	8.10	-9.50	40.12	46.41	513.68	50.85	202.72	292.86	76.67	48.03	309.89	55.69	100.78	292.88
49222	96.69	8.70	-9.50	43.10	46.23	511.87	51.86	206.66	288.98	81.25	47.40	315.64	57.28	104.60	288.96
49223	100.59	8.10	-10.50	17.03	76.03	278.50	29.96	98.42	259.94	14.28	82.29	492.25	33.44	99.91	258.31
49224	100.36	8.70	-10.50	18.58	74.49	281.52	32.52	106.26	254.94	16.50	82.11	478.10	35.83	107.18	253.49
49225	99.68	8.10	-10.50	26.22	68.49	354.56	37.67	113.95	276.75	22.91	76.89	358.21	43.81	102.63	273.88
49226	99.44	8.70	-10.50	27.99	67.49	358.81	39.72	121.34	272.47	25.91	75.63	351.56	46.53	108.19	269.34
49227	98.78	8.10	-10.50	30.86	62.22	450.54	46.25	145.08	292.17	37.49	69.81	306.94	53.64	101.51	289.84
49228	98.52	8.70	-10.50	33.02	60.73	452.19	47.93	152.33	287.51	41.79	67.93	307.80	56.07	107.17	284.91
49229	97.87	8.10	-10.50	36.27	55.91	528.06	55.40	192.50	306.12	68.23	61.52	315.77	61.94	116.09	304.88
49230	97.61	8.70	-10.50	39.45	54.30	526.38	56.68	198.13	301.40	73.00	59.33	320.52	63.96	121.28	300.00
49231	96.97	8.10	-10.50	54.49	50.98	577.70	63.11	240.79	318.04	110.28	53.43	343.09	67.97	144.28	317.72
49232	96.69	8.70	-10.50	57.60	49.37	573.69	64.03	244.14	313.33	114.64	51.20	348.98	69.47	147.78	312.96
49233	61.22	8.70	-9.50	224.32	43.46	577.22	67.64	235.04	284.68	1280.99	43.32	412.02	314.82	431.94	330.18
49234	60.95	8.10	-9.50	255.19	42.85	584.00	63.01	232.59	286.71	1433.08	42.80	421.56	271.16	438.02	328.69
49235	62.34	8.70	-9.50	188.51	39.63	594.82	61.21	272.52	297.19	1091.97	51.99	434.56	274.24	394.03	315.26
49236	62.08	8.10	-9.50	209.92	38.89	600.85	59.31	273.39	299.66	1204.56	54.47	445.09	249.24	405.73	316.55
49237	63.45	8.70	-9.50	166.68	37.41	599.82	58.78	300.78	306.95	952.06	67.24	439.68	243.79	346.65	312.06
49238	63.21	8.10	-9.50	182.02	36.93	603.86	58.29	303.78	309.82	1038.53	72.44	447.14	227.96	359.04	314.54
49239	64.59	8.70	-9.50	153.30	36.26	595.94	58.50	322.52	314.12	844.56	81.17	435.46	220.22	296.98	314.49
49240	64.34	8.10	-9.50	164.81	36.16	597.59	58.90	326.23	317.23	913.94	88.07	438.49	209.51	308.27	317.54
49241	65.67	8.70	-9.50	144.68	35.97	584.88	58.78	339.14	318.70	761.98	91.35	426.85	199.54	253.90	318.62
49242	65.47	8.10	-9.50	153.47	36.16	584.37	59.90	343.26	321.98	817.86	99.83	425.83	192.87	261.63	321.91
49243	66.78	8.70	-9.50	138.17	35.82	567.80	58.79	352.47	321.19	695.68	100.14	417.13	181.83	218.48	322.46
49244	66.60	8.10	-9.50	145.11	36.43	565.50	60.43	356.63	324.43	742.15	108.79	412.77	177.35	223.14	325.70
49245	67.89	8.70	-9.50	132.48	35.89	545.97	58.06	363.02	322.18	641.22	106.95	408.13	165.91	191.73	325.15
49246	67.72	8.10	-9.50	137.96	36.76	542.28	60.00	367.14	325.18	680.65	115.53	401.29	162.87	193.70	328.10
49247	69.00	8.70	-9.50	126.60	36.10	521.14	56.32	370.79	322.12	595.84	111.70	401.05	150.57	172.72	326.40
49248	68.85	8.10	-9.50	130.96	37.10	516.30	58.36	374.99	324.83	629.58	120.01	392.50	148.60	172.72	329.04
49249	70.11	8.70	-9.50	119.84	36.31	495.22	53.54	376.04	321.54	557.56	115.05	396.48	135.59	159.91	326.54
49250	69.98	8.10	-9.50	123.38	37.38	489.34	55.50	380.38	323.94	586.74	122.75	386.80	134.24	158.85	328.86
49251	71.23	8.70	-9.50	111.93	36.54	469.85	49.83	379.25	320.83	525.23	117.06	394.27	120.84	152.40	326.03
49252	71.11	8.10	-9.50	114.87	37.59	462.96	51.57	383.77	322.94	550.56	124.08	383.91	119.86	150.88	328.04
49253	72.34	8.70	-9.50	103.00	36.74	446.27	45.36	380.99	320.18	497.83	117.93	393.90	106.39	149.37	325.21
49254	72.24	8.10	-9.50	105.48	37.75	438.41	46.76	385.66	322.06	519.89	124.21	383.17	105.61	147.80	326.95
49255	73.45	8.70	-9.50	93.52	36.91	425.36	40.33	381.79	319.70	474.50	117.81	394.77	92.38	150.05	324.30
49256	73.37	8.10	-9.50	95.65	37.84	416.59	41.29	386.56	321.41	493.73	123.34	383.88	91.69	148.73	325.85
49257	74.56	8.70	-9.50	84.21	37.01	407.80	34.93	382.02	319.43	454.47	116.82	396.41	78.96	153.71	323.46
49258	74.50	8.10	-9.50	86.05	37.86	398.19	35.39	386.84	321.03	471.25	121.60	385.45	78.27	152.82	324.90
49259	75.67	8.70	-9.50	76.03	37.04	394.08	29.48	381.93	319.38	437.09	115.02	398.47	66.26	159.69	322.79
49260	75.63	8.10	-9.50	77.63	37.80	383.77	29.35	386.76	320.96	451.74	119.09	387.51	65.55	159.36	324.20
49261	76.78	8.70	-9.50	70.13	36.96	384.61	24.44	381.62	319.58	421.84	112.47	400.74	54.51	167.44	322.37
49262	76.76	8.10	-9.50	71.55	37.65	373.78	23.69	386.44	321.19	434.63	115.84	389.80	53.77	167.71	323.82
49263	77.89	8.70	-9.50	67.60	36.77	379.63	20.71	381.10	320.10	408.28	109.03	402.97	44.19	176.58	322.24
49264	77.89	8.10	-9.50	68.88	37.44	368.54	19.37	385.97	321.80	419.32	111.93	392.19	43.26	177.17	323.84
49265	61.22	8.70	-10.50	222.68	52.76	625.35	76.28	280.81	310.58	1333.54	61.47	430.39	360.48	572.35	358.40
49266	60.95	8.10	-10.50	250.78	53.16	634.03	72.56	280.59	313.54	149					



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49295	77.89	8.70	-10.50	81.83	45.45	390.06	25.87	381.89	323.19	483.58	124.00	410.53	53.02	200.91	324.93
49296	77.89	8.10	-10.50	83.04	46.52	380.21	24.31	387.45	324.74	496.35	127.38	400.92	51.74	202.91	326.43
49297	56.31	8.10	-9.50	921.29	256.37	125.69	135.93	176.22	148.14	3958.73	1016.51	1792.29	206.59	548.06	287.65
49298	57.22	8.10	-9.50	687.07	168.47	318.57	92.05	115.10	206.45	3199.46	595.42	983.32	167.06	293.13	461.84
49299	58.12	8.10	-9.50	517.88	91.35	432.64	80.01	109.01	238.47	2572.26	255.89	466.18	233.54	353.55	422.85
49300	59.03	8.10	-9.50	399.48	61.62	504.64	75.39	143.75	257.33	2078.17	119.48	347.38	278.77	419.21	382.37
49301	59.93	8.10	-9.50	317.54	49.26	552.63	68.99	187.54	272.59	1719.79	61.67	378.76	284.99	443.91	351.52
49302	56.54	8.70	-9.50	897.25	301.49	143.04	240.62	156.28	144.26	4003.25	1130.25	1843.19	892.21	795.11	734.59
49303	57.46	8.70	-9.50	616.76	139.26	327.26	144.22	105.67	213.26	2964.98	432.07	881.45	531.52	416.77	564.35
49304	58.38	8.70	-9.50	450.87	77.74	431.46	114.43	115.35	237.97	2292.89	178.53	437.72	465.19	425.58	462.51
49305	59.29	8.70	-9.50	345.13	57.72	499.69	93.45	151.67	256.07	1833.76	93.30	345.72	410.96	449.67	400.16
49306	60.21	8.70	-9.50	275.41	48.60	546.31	78.60	193.50	270.93	1521.76	55.58	374.14	362.25	450.82	358.65
49307	56.31	8.10	-10.50	938.86	273.82	151.41	182.41	96.92	226.92	5744.04	1295.08	2185.85	283.90	1105.58	590.10
49308	57.22	8.10	-10.50	652.88	158.56	381.97	106.61	134.74	252.79	3884.24	553.57	793.16	272.12	833.53	538.70
49309	58.12	8.10	-10.50	483.34	89.60	494.32	91.69	154.94	273.05	2836.41	218.70	390.09	321.90	781.18	451.86
49310	59.03	8.10	-10.50	373.44	65.54	568.93	83.31	193.15	288.69	2203.09	93.84	367.30	340.71	716.50	415.68
49311	59.93	8.10	-10.50	301.09	56.69	612.35	77.02	237.71	301.51	1796.65	54.34	410.96	335.68	661.44	382.09
49312	56.54	8.70	-10.50	847.72	313.98	175.28	264.34	133.66	204.74	4961.25	1256.23	2098.03	1230.78	1204.65	1021.85
49313	57.46	8.70	-10.50	565.52	133.65	385.13	150.16	147.15	253.72	3328.28	413.88	746.61	661.05	879.20	603.52
49314	58.38	8.70	-10.50	413.24	80.17	490.35	117.79	162.09	270.90	2434.46	165.51	390.18	543.50	774.34	508.01
49315	59.29	8.70	-10.50	320.23	62.57	562.01	97.31	198.53	286.17	1910.66	79.72	364.37	465.84	692.62	440.86
49316	60.21	8.70	-10.50	261.32	55.70	603.87	84.57	241.17	298.74	1578.14	53.40	401.55	409.22	633.08	392.12
49317	79.15	20.20	-9.50	88.70	38.91	559.82	3.20	267.15	157.09	157.45	46.52	571.70	28.88	122.76	157.19
49318	80.55	20.10	-9.50	89.03	39.65	559.09	7.97	266.06	159.43	155.06	48.57	568.57	23.30	124.00	158.93
49319	81.94	19.90	-9.50	88.43	41.23	557.62	13.77	264.13	164.21	152.55	50.93	562.21	20.21	125.69	163.00
49320	83.31	19.62	-9.50	87.02	43.41	555.49	19.66	261.51	171.41	149.79	53.33	552.82	20.73	127.56	169.52
49321	84.65	19.23	-9.50	84.82	45.99	552.73	25.34	258.18	180.70	146.65	55.62	540.54	24.21	129.20	178.31
49322	85.97	18.76	-9.50	81.86	48.79	549.33	30.62	254.04	191.67	143.08	57.68	525.47	29.15	130.22	189.02
49323	87.25	18.19	-9.50	78.24	51.56	545.22	35.35	249.06	203.87	139.12	59.36	507.71	34.48	130.28	201.20
49324	88.49	17.54	-9.50	74.21	53.98	540.35	39.36	243.25	216.77	134.89	60.43	487.43	39.55	129.11	214.30
49325	89.68	16.80	-9.50	70.14	55.59	534.70	42.55	236.72	229.67	130.61	60.54	465.04	44.05	126.58	227.56
49326	90.82	15.98	-9.50	66.56	55.89	528.35	45.06	229.92	241.71	126.50	59.23	441.28	47.98	122.85	240.03
49327	91.89	15.08	-9.50	63.82	54.55	521.67	47.30	223.60	251.89	122.57	56.22	417.40	51.71	118.52	250.64
49328	92.91	14.11	-9.50	61.87	52.02	515.27	49.66	218.75	259.95	118.38	52.09	394.77	55.42	114.79	259.06
49329	93.85	13.08	-9.50	60.09	48.97	509.98	52.17	216.21	266.49	113.24	47.86	374.27	58.94	112.79	265.88
49330	94.72	11.98	-9.50	57.34	46.55	506.86	54.16	215.28	272.14	106.32	45.13	356.00	61.32	112.23	271.75
49331	95.51	10.82	-9.50	52.99	45.48	506.62	54.55	214.20	277.75	97.58	44.81	339.67	61.39	111.58	277.53
49332	96.21	9.62	-9.50	47.42	45.62	509.06	53.31	210.79	283.78	87.97	46.16	325.22	59.34	108.64	283.70
49333	79.19	21.03	-9.50	103.27	34.98	520.68	4.50	257.16	118.60	151.19	39.51	531.41	21.58	111.69	118.71
49334	80.67	20.93	-9.50	102.95	35.96	519.47	9.82	255.85	121.52	148.04	41.61	527.34	17.77	112.78	120.51
49335	82.14	20.72	-9.50	101.22	38.04	517.41	16.30	253.64	127.65	144.31	44.35	520.15	18.23	115.08	125.21
49336	83.59	20.41	-9.50	98.32	40.88	514.80	22.75	250.63	136.80	139.99	47.40	510.28	22.37	118.09	132.96
49337	85.02	19.99	-9.50	94.29	44.28	511.66	28.71	246.69	148.37	135.01	50.57	497.90	27.97	121.18	143.43
49338	86.41	19.48	-9.50	89.18	48.04	507.91	33.92	241.69	161.68	129.37	53.73	483.03	33.66	123.74	156.09
49339	87.77	18.87	-9.50	83.16	51.88	503.41	38.19	235.53	176.13	123.27	56.67	465.74	38.84	125.23	170.34
49340	89.07	18.17	-9.50	76.62	55.40	498.06	41.37	228.22	191.09	117.01	59.05	446.22	43.21	125.24	185.51
49341	90.33	17.37	-9.50	70.16	58.04	491.81	43.45	219.93	205.84	110.97	60.38	424.93	46.72	123.53	200.78
49342	91.52	16.49	-9.50	64.51	59.22	484.80	44.73	211.16	219.48	105.48	60.12	402.74	49.66	120.21	215.13
49343	92.65	15.53	-9.50	60.20	58.65	477.38	45.85	202.79	231.26	100.43	58.10	380.91	52.56	115.96	227.66
49344	93.71	14.48	-9.50	57.14	56.74	470.20	47.35	195.97	241.05	95.19	54.96	360.66	55.67	112.01	238.14
49345	94.69	13.37	-9.50	54.51	54.34	464.03	49.10	191.18	249.46	88.84	52.03	342.51	58.47	109.32	247.09
49346	95.59	12.19	-9.50	51.26	52.45	459.68	50.20	187.49	257.07	80.71	50.67	326.27	59.75	107.64	255.13
49347	96.40	10.95	-9.50	47.01	51.60	457.60	49.66	182.83	264.05	70.93	51.19	311.88	58.60	105.35	262.46
49348	97.13	9.66	-9.50	42.12	51.82	457.35	47.50	175.19	270.71	60.42	52.89	300.01	55.30	100.57	269.45
49349	79.23	21.87	-9.50	119.28	27.19	469.99	5.59	246.04	79.28	150.21	29.61	479.77	14.17	98.33	79.27
49350	80.80	21.76	-9.50	118.31	28.36	468.17	11.95	244.72	83.51	146.34	31.57	474.50	13.96	99.95	81.40
49351	82.35	21.54	-9.50	115.51	30.89	465.26	19.46	242.51	91.85	141.34	34.54	466.28	19.25	104.04	86.95
49352	83.88	21.20	-9.50	111.28	34.45	462.03	26.79	239.46	103.66	135.37	38.19	456.06	26.40	109.61	96.05
49353	85.39	20.76	-9.50	105.65	38.77	458.47	33.33	235.36	117.84	128.39	42.28	444.00	33.35	115.67	108.16
49354	86.86	20.20	-9.50	98.61	43.64	454.37	38.75	230.00	133.46	120.46	46.64	430.03	39.37	121.28	122.56
49355	88.28	19.55	-9.50	90.39	48.73	449.49	42.78	223.24	149.83	111.87	50.97	414.17	44.16	125.65	138.56
49356	89.65	18.79	-9.50	81.46	53.53	443.71	45.28	215.07	166.35	103.13	54.84	396.69	47.60	128.15	155.44
49357	90.97	17.94	-9.50	72.58	57.45	436.99	46.29	205.61	182.35	94.87	57.63	378.21	49.85	128.39	172.38
49358	92.22	17.00	-9.50	64.70	59.87	429.48	46.26	195.36	197.10	87.59	58.84	359.71	51.45	126.39	188.42
49359	93.40	15.97	-9.50	58.55	60.61	421.54	46.01	185.24	210.08	81.25	58.41	342.46	53.13	122.84	202.80
49360	94.51	14.85	-9.50	54.13	60.12	413.68	46.26	176.34	221.42	75.10	57.20	327.38	55.15	118.94	215.44
49361	95.53	13.67	-9.50	50.61	59.23	406.41	46.85	169.02	231.75	68.12	56.45	314.59	56.81	115.71	226.85
49362	96.46	12.41	-9.50	46.98	58.55	400.04	46.80	162.24	241.31	59.71	56.84	303.78	56.79	113.02	237.29
49363	97.30	11.08	-9.50	42.91	58.34	394.57	45.15	153.94	249.57	50.07	58.20	295.61	54.33	109.53	246.31
49364	98.05	9.70	-9.50	38.62	58.78	389									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49393	97.21	14.25	-9.50	41.24	66.22	280.14	48.98	144.92	198.16	41.37	63.95	338.71	50.78	137.69	192.16
49394	98.21	12.83	-9.50	34.44	70.13	270.76	45.93	133.48	210.61	33.64	68.41	357.44	47.82	129.83	207.23
49395	99.10	11.34	-9.50	27.76	72.74	261.03	41.46	120.22	220.66	25.77	71.28	383.19	42.92	119.53	219.30
49396	99.88	9.79	-9.50	21.80	74.27	252.18	35.96	106.02	228.45	18.84	72.45	414.83	36.70	107.37	228.05
49397	79.15	20.20	-10.50	67.59	21.00	617.61	3.59	279.92	168.81	187.25	35.28	628.26	43.71	149.73	168.82
49398	80.55	20.10	-10.50	68.92	22.06	617.21	7.56	278.67	171.25	185.04	38.17	625.65	35.35	150.47	170.83
49399	81.94	19.90	-10.50	70.47	24.08	616.07	13.46	276.72	176.38	183.20	41.10	619.61	28.83	151.54	175.37
49400	83.31	19.62	-10.50	72.12	26.74	614.18	19.75	274.25	184.12	181.43	43.81	610.25	25.67	152.81	182.48
49401	84.65	19.23	-10.50	73.64	29.89	611.58	26.10	271.18	194.12	179.45	46.23	597.72	26.63	153.92	191.97
49402	85.97	18.76	-10.50	74.87	33.40	608.24	32.37	267.43	206.01	177.13	48.32	582.07	30.91	154.47	203.54
49403	87.25	18.19	-10.50	75.74	37.10	604.07	38.39	262.94	219.46	174.44	50.13	563.35	36.97	154.17	216.87
49404	88.49	17.54	-10.50	76.25	40.74	598.93	43.90	257.75	234.04	171.36	51.63	541.61	43.50	152.77	231.54
49405	89.68	16.80	-10.50	76.55	43.82	592.67	48.55	251.95	249.08	167.95	52.55	517.08	49.60	150.16	246.83
49406	90.82	15.98	-10.50	76.86	45.52	585.25	52.27	245.98	263.45	164.32	52.20	490.37	54.94	146.51	261.58
49407	91.89	15.08	-10.50	77.22	45.16	577.05	55.55	240.83	275.50	160.41	49.79	462.95	59.91	142.64	274.02
49408	92.91	14.11	-10.50	77.38	43.34	569.00	59.12	237.99	284.35	155.67	45.77	436.82	65.02	140.35	283.23
49409	93.85	13.08	-10.50	76.59	41.76	562.54	63.21	238.87	290.91	149.48	42.12	413.41	70.23	141.54	290.04
49410	94.72	11.98	-10.50	73.78	42.15	559.41	66.61	242.53	296.44	141.21	41.49	392.76	74.05	145.58	295.73
49411	95.51	10.82	-10.50	68.71	44.43	561.02	67.54	246.14	301.87	131.31	44.25	374.50	74.61	149.66	301.29
49412	96.21	9.62	-10.50	62.37	47.53	567.29	65.95	246.47	307.81	121.23	48.57	358.88	72.13	150.29	307.36
49413	79.19	21.03	-10.50	80.35	23.05	585.17	2.08	272.02	125.34	172.64	31.15	595.06	33.34	140.62	125.31
49414	80.67	20.93	-10.50	80.62	24.60	584.08	7.94	270.40	128.11	169.03	34.29	591.27	25.95	140.87	127.18
49415	82.14	20.72	-10.50	80.32	27.16	582.23	14.63	268.04	134.63	165.50	37.68	584.18	21.86	142.05	132.39
49416	83.59	20.41	-10.50	79.54	30.34	579.82	21.28	265.05	144.64	161.77	41.02	574.13	22.57	143.87	141.02
49417	85.02	19.99	-10.50	78.12	34.06	576.84	27.59	261.17	157.33	157.61	44.27	561.25	26.92	145.71	152.56
49418	86.41	19.48	-10.50	75.99	38.24	573.18	33.43	256.21	171.99	153.00	47.44	545.51	32.89	146.94	166.47
49419	87.77	18.87	-10.50	73.31	42.69	568.64	38.64	250.10	188.07	148.05	50.53	526.88	39.23	147.10	182.24
49420	89.07	18.17	-10.50	70.36	47.04	563.07	42.99	242.86	205.05	142.94	53.36	505.47	45.18	145.79	199.32
49421	90.33	17.37	-10.50	67.63	50.65	556.29	46.33	234.65	222.17	137.89	55.45	481.57	50.36	142.77	216.90
49422	91.52	16.49	-10.50	65.62	52.58	548.34	48.86	226.02	238.28	133.03	55.91	455.97	54.89	138.18	233.71
49423	92.65	15.53	-10.50	64.44	52.22	539.62	51.38	218.18	252.04	128.04	54.10	430.13	59.41	133.04	248.26
49424	93.71	14.48	-10.50	63.43	50.20	531.14	54.72	212.82	262.97	122.06	50.80	405.82	64.42	129.30	259.90
49425	94.69	13.37	-10.50	61.48	48.50	524.19	58.63	210.81	272.12	114.19	48.50	383.84	69.26	128.53	269.57
49426	95.59	12.19	-10.50	57.64	48.50	520.08	61.48	210.82	280.70	104.18	49.18	363.60	72.07	129.97	278.48
49427	96.40	10.95	-10.50	51.78	50.04	519.81	61.65	209.74	288.46	92.65	52.36	345.05	71.39	130.55	286.51
49428	97.13	9.66	-10.50	44.66	52.66	523.06	59.23	204.51	295.51	80.71	56.76	329.57	67.62	126.91	293.88
49429	79.23	21.87	-10.50	97.04	22.41	536.02	2.84	261.84	79.37	163.31	26.37	545.38	21.94	128.16	79.19
49430	80.80	21.76	-10.50	96.24	23.93	533.48	9.51	260.03	83.33	158.14	29.04	539.48	16.71	128.48	81.20
49431	82.35	21.54	-10.50	94.28	26.88	530.36	16.93	257.61	92.43	152.64	32.51	530.79	17.86	130.77	87.40
49432	83.88	21.20	-10.50	91.51	30.50	527.20	24.09	254.54	105.75	146.68	36.17	520.11	23.67	134.41	97.84
49433	85.39	20.76	-10.50	87.63	34.77	523.84	30.52	250.36	121.66	140.01	40.06	507.37	30.60	138.46	111.54
49434	86.86	20.20	-10.50	82.54	39.64	519.91	36.06	244.80	139.10	132.73	44.20	492.33	37.25	142.00	127.64
49435	88.28	19.55	-10.50	76.48	44.84	515.13	40.51	237.76	157.45	125.10	48.47	474.92	43.13	144.29	145.53
49436	89.65	18.79	-10.50	69.93	49.91	509.30	43.66	229.22	176.18	117.50	52.54	455.30	47.93	144.72	164.58
49437	90.97	17.94	-10.50	63.72	54.12	502.30	45.51	219.29	194.59	110.40	55.73	433.96	51.69	142.84	183.96
49438	92.22	17.00	-10.50	58.83	56.57	494.22	46.56	208.53	211.74	104.08	57.21	411.84	54.91	138.68	202.49
49439	93.40	15.97	-10.50	55.68	56.84	485.50	47.89	198.16	226.75	98.14	56.66	390.36	58.45	133.20	219.02
49440	94.51	14.85	-10.50	53.59	55.79	476.93	50.37	189.79	239.61	91.48	55.32	370.80	62.62	128.28	233.28
49441	95.53	13.67	-10.50	51.25	55.30	469.28	53.49	184.04	251.61	83.13	55.58	353.16	66.36	125.43	246.36
49442	96.46	12.41	-10.50	47.63	55.97	462.99	55.41	179.53	263.47	72.93	58.06	336.50	67.80	124.05	259.03
49443	97.30	11.08	-10.50	42.58	57.23	458.37	54.59	173.21	273.63	61.27	61.60	321.59	65.71	121.34	269.91
49444	98.05	9.70	-10.50	36.90	59.39	454.80	51.20	162.39	281.54	49.33	65.81	311.50	60.65	114.51	278.53
49445	79.28	22.71	-10.50	116.13	15.65	473.70	4.43	249.38	38.45	160.40	17.33	482.78	11.27	112.19	37.78
49446	80.92	22.59	-10.50	114.27	16.58	469.91	11.82	247.91	46.58	153.78	18.88	474.72	12.14	113.76	41.31
49447	82.56	22.35	-10.50	110.91	19.69	465.05	20.22	245.85	60.20	146.48	22.02	464.11	20.05	118.44	49.05
49448	84.17	21.99	-10.50	106.65	23.80	461.01	28.20	243.20	77.17	138.53	25.88	453.19	28.82	125.31	61.13
49449	85.75	21.52	-10.50	100.97	28.75	457.23	35.14	239.35	95.50	129.61	30.40	441.53	36.65	133.04	76.18
49450	87.30	20.93	-10.50	93.60	34.47	453.01	40.78	234.02	114.39	119.76	35.58	428.59	43.14	140.37	93.42
49451	88.80	20.23	-10.50	84.80	40.56	447.95	44.81	227.10	133.51	109.35	41.10	414.31	48.08	146.24	112.34
49452	90.24	19.42	-10.50	75.11	46.49	441.86	47.02	218.45	152.50	98.93	46.43	399.02	51.38	149.77	132.38
49453	91.62	18.52	-10.50	65.52	51.50	434.67	47.47	208.09	170.83	89.29	50.88	383.45	53.28	150.29	152.73
49454	92.93	17.51	-10.50	57.41	54.91	426.54	46.84	196.41	187.86	81.14	53.83	368.75	54.61	147.68	172.34
49455	94.16	16.41	-10.50	51.73	56.65	417.87	46.48	184.52	203.18	74.30	55.55	356.21	56.43	142.82	190.39
49456	95.31	15.22	-10.50	48.12	57.91	409.13	47.46	173.85	217.30	67.67	57.60	346.47	59.02	137.50	206.98
49457	96.37	13.96	-10.50	45.16	60.18	400.32	49.25	165.03	231.63	60.15	61.60	338.95	61.19	133.29	223.39
49458	97.34	12.62	-10.50	41.54	62.88	390.81	49.91	156.89	246.26	51.31	66.46	333.27	61.08	129.84	239.83
49459	98.20	11.21	-10.50	36.92	64.70	379.84	47.90	146.63	258.26	41.32	70.54	332.47	57.65	124.81	253.44
49460	98.96	9.75	-10.50	31.72	66.56	367.48	43.52	132.61	266.62	31.71	74.28	340.97	51.73	116.13	262.98
49461	79.32	23.55	-10.50	136.28	5.75	407.83	5.04	235.18	11.74	163.52	6.09	416.96	4.85	93.18	8.72
49462	81.05	23.42	-10.50	133.87	7.58	403.16	14.48	234.23	27.45	156.51	7.85				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49491	76.35	20.10	-9.50	85.01	40.64	559.18	9.55	266.02	159.64	161.97	44.21	568.21	42.98	122.86	160.26
49492	77.75	20.20	-9.50	87.35	39.26	559.83	4.67	267.17	157.21	159.77	45.02	571.55	35.67	122.19	157.70
49493	59.77	9.66	-9.50	248.77	59.03	490.08	102.80	161.97	255.23	1360.24	109.42	342.42	506.00	455.33	413.41
49494	60.50	10.95	-9.50	142.73	62.74	478.31	84.90	173.12	253.99	826.27	151.05	341.60	442.19	427.74	401.99
49495	61.31	12.19	-9.50	85.80	59.01	471.42	61.51	179.97	250.57	522.32	145.45	346.69	324.94	377.01	366.22
49496	62.21	13.37	-9.50	61.81	55.07	469.62	46.69	185.31	244.79	371.45	120.54	357.13	237.85	325.93	325.47
49497	63.19	14.48	-9.50	52.61	54.46	472.10	39.03	191.33	237.18	290.51	99.25	372.01	183.50	280.42	289.67
49498	64.25	15.53	-9.50	50.06	55.72	477.43	35.41	199.02	227.80	242.51	84.27	390.45	148.32	243.31	260.38
49499	65.38	16.49	-9.50	51.47	56.80	484.11	34.16	208.00	216.37	212.61	73.56	411.25	123.89	214.60	235.68
49500	66.57	17.37	-9.50	55.75	56.58	490.96	33.93	217.25	203.10	193.08	65.60	432.81	105.84	192.50	213.72
49501	67.83	18.17	-9.50	61.94	54.91	497.27	33.53	225.95	188.77	179.98	59.00	453.59	91.88	174.79	193.82
49502	69.13	18.87	-9.50	69.06	52.20	502.75	32.24	233.64	174.24	171.19	53.22	472.52	80.30	159.92	176.03
49503	70.49	19.48	-9.50	76.29	48.91	507.37	29.84	240.17	160.24	165.29	48.26	489.02	70.06	147.09	160.46
49504	71.88	19.99	-9.50	83.10	45.46	511.19	26.34	245.56	147.38	161.34	44.21	502.86	60.59	136.02	147.18
49505	73.31	20.41	-9.50	89.20	42.14	514.37	21.83	249.92	136.24	158.70	41.17	514.02	51.59	126.77	136.31
49506	74.76	20.72	-9.50	94.47	39.15	517.01	16.53	253.36	127.45	156.88	39.16	522.60	43.03	119.62	128.00
49507	76.23	20.93	-9.50	98.80	36.72	519.16	10.79	255.88	121.55	155.38	38.17	528.63	35.02	114.78	122.40
49508	77.71	21.03	-9.50	101.87	35.25	520.55	5.43	257.22	118.65	153.63	38.30	531.79	27.76	112.22	119.39
49509	58.85	9.70	-9.50	300.88	76.72	425.00	135.44	127.78	239.07	1570.48	195.86	393.33	643.29	460.69	495.52
49510	59.60	11.08	-9.50	140.05	78.29	416.68	100.12	143.62	238.83	779.37	247.43	355.98	508.49	445.50	478.01
49511	60.44	12.41	-9.50	71.99	65.34	412.70	62.22	154.22	234.68	428.86	201.00	342.23	325.30	394.17	423.20
49512	61.37	13.67	-9.50	51.50	56.13	412.23	43.96	162.56	227.14	301.00	147.10	343.80	222.39	344.08	362.18
49513	62.39	14.85	-9.50	45.31	53.76	415.26	36.63	170.98	217.63	237.61	114.01	353.19	167.64	298.23	308.01
49514	63.50	15.97	-9.50	45.33	54.19	421.00	34.20	180.63	206.68	200.78	92.88	366.99	134.03	259.64	264.14
49515	64.68	17.00	-9.50	49.56	54.67	428.12	34.53	191.29	194.04	179.59	78.63	383.40	111.93	229.03	228.72
49516	65.93	17.94	-9.50	56.79	53.79	435.49	35.82	202.00	179.69	167.05	68.12	400.78	96.18	204.99	198.99
49517	67.25	18.79	-9.50	65.88	51.35	442.33	36.63	211.91	164.12	159.79	59.48	417.69	83.99	185.27	173.26
49518	68.62	19.55	-9.50	75.68	47.74	448.31	36.11	220.56	148.05	155.85	51.87	433.11	73.63	168.07	150.83
49519	70.04	20.20	-9.50	85.28	43.53	453.37	34.00	227.81	132.12	153.95	45.14	446.47	64.06	152.41	131.46
49520	71.51	20.76	-9.50	94.10	39.22	457.61	30.34	233.72	116.94	153.24	39.39	457.58	54.73	137.98	115.03
49521	73.02	21.20	-9.50	101.88	35.17	461.27	25.30	238.44	103.18	153.14	34.75	466.48	45.42	124.97	101.56
49522	74.55	21.54	-9.50	108.54	31.63	464.60	19.14	242.12	91.73	153.30	31.33	473.42	36.21	113.90	91.20
49523	76.10	21.76	-9.50	114.01	28.90	467.67	12.40	244.79	83.61	153.32	29.28	478.52	27.44	105.41	84.16
49524	77.67	21.87	-9.50	117.82	27.39	469.80	6.17	246.14	79.36	152.52	28.77	481.04	19.67	100.07	80.24
49525	57.94	9.75	-9.50	369.57	121.83	335.22	189.42	106.05	220.69	1817.57	405.85	663.24	861.97	470.84	647.29
49526	58.70	11.21	-9.50	114.17	104.10	339.99	109.68	123.22	222.59	606.12	393.90	461.34	532.38	453.96	583.98
49527	59.56	12.62	-9.50	50.00	68.49	343.58	54.59	136.56	218.11	281.79	242.83	383.22	274.75	406.08	498.60
49528	60.53	13.96	-9.50	41.75	54.58	346.01	39.74	147.11	209.14	220.10	162.91	359.47	189.10	360.00	413.13
49529	61.59	15.22	-9.50	39.16	50.54	350.51	34.75	157.28	198.13	175.95	120.67	354.23	142.72	316.78	337.68
49530	62.74	16.41	-9.50	42.74	49.90	356.93	34.72	168.18	186.16	155.28	95.11	358.29	115.51	278.06	276.41
49531	63.97	17.51	-9.50	50.05	49.54	364.66	37.14	179.68	173.03	144.50	78.34	366.54	98.49	246.06	227.90
49532	65.28	18.52	-9.50	60.23	47.89	372.68	39.97	190.88	158.48	140.37	66.01	376.59	86.64	220.08	188.80
49533	66.66	19.42	-9.50	72.01	44.63	380.21	41.75	201.00	142.69	140.05	55.82	386.86	77.31	198.09	156.29
49534	68.10	20.23	-9.50	84.18	40.14	386.82	41.68	209.65	126.13	141.93	46.77	396.34	68.83	178.21	128.77
49535	69.60	20.93	-9.50	95.83	35.01	392.44	39.53	216.78	109.30	144.87	38.62	404.44	60.30	159.35	105.44
49536	71.15	21.52	-9.50	106.38	29.83	397.20	35.40	222.51	92.63	148.05	31.47	410.96	51.27	141.18	85.90
49537	72.73	21.99	-9.50	115.58	25.05	401.41	29.53	230.03	76.62	151.03	25.52	416.03	41.66	123.92	69.95
49538	74.34	22.35	-9.50	123.44	21.00	405.51	22.28	237.51	62.10	153.62	20.95	420.07	31.61	108.22	57.61
49539	75.98	22.59	-9.50	129.95	18.08	409.54	14.20	232.93	50.35	155.57	18.08	423.24	21.55	95.01	48.93
49540	77.62	22.71	-9.50	134.43	16.44	412.45	6.30	234.10	43.33	156.08	16.89	424.42	12.35	85.89	43.95
49541	57.02	9.79	-9.50	437.48	307.24	186.01	299.76	111.07	205.12	1963.51	1215.23	1327.54	1283.64	632.25	1015.09
49542	57.80	11.34	-9.50	19.44	110.35	258.59	60.98	110.67	206.35	98.40	440.14	658.83	269.77	440.52	732.36
49543	58.69	12.83	-9.50	37.11	63.66	271.32	41.14	127.23	201.83	174.43	239.18	492.60	178.00	412.97	585.81
49544	59.69	14.25	-9.50	29.71	49.80	280.55	35.25	139.42	191.91	120.61	159.18	417.23	136.09	374.25	474.74
49545	60.79	15.59	-9.50	33.95	45.05	286.85	34.93	150.78	179.99	112.55	115.66	389.40	108.62	337.08	375.91
49546	61.98	16.85	-9.50	41.15	43.49	294.30	37.98	162.21	167.69	107.01	89.49	378.09	93.68	299.29	295.35
49547	63.27	18.02	-9.50	51.83	42.34	302.88	42.28	173.68	154.85	108.53	72.35	374.28	84.35	266.15	232.15
49548	64.64	19.09	-9.50	64.95	40.05	311.84	46.22	184.38	140.94	113.78	59.50	373.63	78.00	237.86	182.67
49549	66.08	20.05	-9.50	79.28	36.19	320.32	48.50	193.67	125.89	121.31	48.66	374.22	72.38	212.96	142.99
49550	67.59	20.91	-9.50	93.62	31.04	327.83	48.43	201.36	110.00	129.75	38.86	374.94	66.26	189.79	110.44
49551	69.16	21.65	-9.50	107.09	25.21	334.22	45.87	207.53	93.62	138.06	29.91	375.19	59.01	167.30	83.51
49552	70.78	22.28	-9.50	119.12	19.35	339.64	40.99	212.41	77.04	145.55	21.94	374.76	50.46	145.14	61.39
49553	72.44	22.78	-9.50	129.54	13.99	344.49	34.14	216.19	60.47	151.90	15.21	373.88	40.74	123.47	43.62
49554	74.13	23.17	-9.50	138.42	9.56	349.30	25.70	219.02	44.13	157.13	9.96	373.11	30.07	102.82	29.91
49555	75.85	23.42	-9.50	145.73	6.42	354.07	16.10	220.83	28.39	161.14	6.45	372.63	18.81	84.15	19.99
49556	77.58	23.55	-9.50	150.75	4.90	357.50	5.83	221.59	15.18	163.12	4.95	371.15	7.33	70.20	13.99
49557	60.69	9.62	-10.50	202.19	55.47	590.75	87.45	242.97	296.21	1237.17	56.18	393.07	452.68	571.74	395.44
49558	61.39	10.82	-10.50	139.15	55.70	576.35	78.98	242.24	293.80	856.17	78.95	392.43	412.66	485.63	379.49
49559	62.18	11.98	-10.50	103.69	52.40	568.60	67.56	238.89	290.71	610.09	89.21	401.77	338.07	408.43	351.07
49560	63.05	13.08	-10.50	87.54	48.47	567.52	58.14	235.95							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49589	58.85	9.70	-10.50	274.39	78.07	483.04	130.60	165.57	270.15	1625.88	187.93	382.31	688.60	666.05	551.19
49590	59.60	11.08	-10.50	129.66	76.35	475.59	97.17	169.97	266.47	797.16	242.85	374.27	527.75	518.85	513.77
49591	60.44	12.41	-10.50	70.26	62.75	473.35	65.39	174.56	258.55	454.91	197.22	375.08	343.62	425.46	440.94
49592	61.37	13.67	-10.50	53.14	53.12	474.45	50.40	179.44	247.97	330.67	150.09	385.67	244.61	364.43	372.80
49593	62.39	14.85	-10.50	48.00	50.28	478.70	42.94	185.88	236.61	269.42	122.36	399.56	193.23	315.18	317.55
49594	63.50	15.97	-10.50	46.77	50.92	485.42	38.68	194.82	224.10	234.62	103.66	416.01	161.84	275.97	274.14
49595	64.68	17.00	-10.50	47.85	51.63	493.33	36.91	205.62	209.41	215.09	88.92	434.69	140.34	246.20	238.57
49596	65.93	17.94	-10.50	51.31	50.59	501.18	36.53	216.77	192.59	203.23	76.05	454.28	123.55	223.53	207.65
49597	67.25	18.79	-10.50	56.93	47.76	508.22	36.06	227.07	174.53	195.40	64.34	473.26	109.20	205.21	180.17
49598	68.62	19.55	-10.50	63.74	43.82	514.17	34.57	235.99	156.15	189.67	53.75	490.52	96.16	189.33	155.90
49599	70.04	20.20	-10.50	70.74	39.45	519.07	31.82	243.40	138.15	185.05	44.49	505.50	83.81	175.01	134.78
49600	71.51	20.76	-10.50	77.26	35.12	523.09	27.85	249.38	121.06	181.00	36.84	518.00	71.86	161.99	116.78
49601	73.02	21.20	-10.50	82.97	31.14	526.52	22.79	254.06	105.51	177.30	31.06	528.05	60.25	150.47	101.92
49602	74.55	21.54	-10.50	87.89	27.58	529.73	16.77	257.74	92.54	174.00	27.21	535.98	49.16	140.97	90.52
49603	76.10	21.76	-10.50	92.28	24.47	532.97	10.18	260.61	83.66	171.03	25.05	542.16	38.97	134.09	83.22
49604	77.67	21.87	-10.50	95.71	22.62	535.80	3.91	262.22	79.55	167.73	24.88	546.15	29.93	129.94	79.89
49605	57.94	9.75	-10.50	332.63	118.50	386.02	177.63	144.12	256.17	1923.00	401.45	604.29	925.28	727.33	698.49
49606	58.70	11.21	-10.50	103.31	98.09	391.18	102.05	144.22	251.40	602.31	396.41	465.39	543.32	505.65	612.20
49607	59.56	12.62	-10.50	48.14	64.73	398.95	55.05	151.90	240.97	299.40	241.65	408.89	286.33	415.40	506.90
49608	60.53	13.96	-10.50	40.39	51.43	404.04	42.40	160.44	227.68	241.48	169.48	399.64	205.90	368.69	417.25
49609	61.59	15.22	-10.50	37.22	47.07	409.82	36.70	169.66	214.02	199.96	132.42	401.07	163.19	325.37	342.33
49610	62.74	16.41	-10.50	38.54	46.71	416.80	34.58	180.66	200.28	182.79	109.33	407.92	138.91	288.40	282.30
49611	63.97	17.51	-10.50	42.89	46.93	424.79	35.15	192.81	185.32	174.90	92.11	417.55	123.06	258.77	234.45
49612	65.28	18.52	-10.50	50.44	45.66	432.83	36.96	204.78	168.70	172.49	77.40	428.71	110.44	235.21	194.87
49613	66.66	19.42	-10.50	60.19	42.57	440.19	38.23	215.51	150.80	172.19	64.09	440.04	98.89	215.30	161.09
49614	68.10	20.23	-10.50	70.69	38.19	446.51	37.90	224.58	132.24	172.48	52.02	450.52	87.44	197.14	131.94
49615	69.60	20.93	-10.50	80.79	33.26	451.79	35.71	232.00	113.52	172.52	41.35	459.53	75.77	179.83	106.88
49616	71.15	21.52	-10.50	89.83	28.35	456.18	31.75	237.88	95.00	171.93	32.33	466.83	63.81	163.20	85.58
49617	72.73	21.99	-10.50	97.53	23.88	460.09	26.26	242.42	77.04	170.61	25.21	472.56	51.68	147.62	67.85
49618	74.34	22.35	-10.50	104.10	20.00	464.22	19.45	245.95	60.46	168.96	20.05	477.33	39.72	133.88	53.83
49619	75.98	22.59	-10.50	110.04	16.88	469.23	11.87	248.68	47.16	167.33	16.87	482.06	28.48	122.91	44.31
49620	77.62	22.71	-10.50	114.69	15.77	473.41	4.83	249.85	38.79	164.84	16.50	485.07	18.49	115.25	38.83
49621	57.02	9.79	-10.50	390.95	283.81	228.30	271.90	136.14	242.83	2132.36	1231.77	1441.79	1325.27	819.78	1033.96
49622	57.80	11.34	-10.50	17.05	101.21	298.86	55.69	126.48	234.19	64.19	440.12	652.34	255.33	416.50	688.60
49623	58.69	12.83	-10.50	35.31	59.17	315.95	39.21	141.40	222.93	189.43	242.47	510.84	188.03	400.27	576.29
49624	59.69	14.25	-10.50	27.94	46.31	328.42	33.26	151.68	207.83	131.59	168.90	456.67	146.83	370.24	470.40
49625	60.79	15.59	-10.50	30.51	41.12	336.31	31.56	162.26	192.77	128.68	129.55	438.97	123.51	336.60	376.23
49626	61.98	16.85	-10.50	35.37	39.60	344.18	32.92	173.89	178.76	127.84	105.70	431.21	112.09	302.91	298.73
49627	63.27	18.02	-10.50	43.99	39.16	352.65	36.37	185.96	164.57	133.72	88.21	427.88	104.47	273.52	237.45
49628	64.64	19.09	-10.50	55.70	37.74	361.23	40.27	197.25	149.30	141.74	73.04	426.66	97.69	248.56	188.63
49629	66.08	20.05	-10.50	68.98	34.59	369.18	42.82	206.95	132.88	150.00	59.08	426.36	89.93	226.29	148.61
49630	67.59	20.91	-10.50	82.29	30.03	376.07	43.10	214.90	115.70	157.19	46.22	426.10	80.70	205.10	115.15
49631	69.16	21.65	-10.50	94.62	24.74	381.85	40.96	221.25	98.13	162.70	34.74	425.37	70.07	184.25	87.07
49632	70.78	22.28	-10.50	105.44	19.38	386.69	36.61	226.25	80.43	166.30	24.93	424.00	58.36	163.66	63.72
49633	72.44	22.78	-10.50	114.51	14.51	391.09	30.42	230.08	62.68	168.00	17.04	422.21	45.93	143.77	44.62
49634	74.13	23.17	-10.50	122.31	10.38	396.12	22.80	233.06	45.16	168.64	11.15	421.10	33.31	125.46	29.53
49635	75.85	23.42	-10.50	129.38	7.63	402.35	14.12	235.01	27.99	168.73	7.67	421.63	20.74	109.45	18.02
49636	77.58	23.55	-10.50	134.75	5.79	407.50	5.13	235.70	12.28	167.74	5.87	421.70	9.12	97.57	10.15
49637	79.06	-2.50	-9.50	75.85	40.87	292.52	3.47	407.70	347.89	466.53	123.02	323.42	15.56	187.23	348.12
49638	79.06	-3.10	-9.50	75.61	40.70	297.72	4.64	406.86	345.80	462.86	122.06	328.21	18.74	187.75	346.15
49639	80.29	-2.50	-9.50	80.45	40.62	298.55	11.23	406.58	349.82	445.26	114.42	326.21	16.59	201.07	349.99
49640	80.28	-3.10	-9.50	80.21	40.43	303.64	11.63	405.77	347.72	442.13	113.67	331.00	18.61	201.36	347.96
49641	81.52	-2.50	-9.50	87.88	40.66	310.53	21.63	405.12	352.14	425.90	105.65	328.77	23.64	214.23	352.25
49642	81.51	-3.10	-9.50	87.62	40.44	315.45	21.74	404.34	350.03	423.22	105.09	333.59	24.47	214.31	350.20
49643	82.75	-2.50	-9.50	96.92	40.98	327.83	31.94	403.30	354.78	407.98	96.80	331.12	32.71	226.31	354.85
49644	82.73	-3.10	-9.50	96.62	40.70	332.50	31.90	402.56	352.69	405.67	96.40	336.00	32.92	226.21	352.79
49645	83.97	-2.50	-9.50	106.51	41.52	349.66	41.82	401.06	357.66	391.08	87.94	333.28	42.06	236.96	357.70
49646	83.95	-3.10	-9.50	106.14	41.19	354.05	41.69	400.35	355.61	389.06	87.68	338.24	41.96	236.70	355.67
49647	85.20	-2.50	-9.50	115.73	42.21	375.20	51.01	398.33	360.66	374.80	79.21	335.21	51.00	245.85	360.69
49648	85.17	-3.10	-9.50	115.26	41.84	379.30	50.82	397.64	358.68	372.99	79.05	340.28	50.74	245.45	358.71
49649	86.43	-2.50	-9.50	123.85	42.93	403.67	59.25	395.01	363.60	358.73	70.76	336.87	59.11	252.67	363.62
49650	86.39	-3.10	-9.50	123.26	42.55	407.45	59.02	394.32	361.73	357.06	70.69	342.05	58.77	252.10	361.75
49651	87.66	-2.50	-9.50	130.17	43.54	434.32	66.30	391.00	366.23	342.48	62.76	338.14	66.08	257.03	366.24
49652	87.62	-3.10	-9.50	129.45	43.16	437.74	66.04	390.25	364.50	340.90	62.77	343.42	65.69	256.30	364.51
49653	88.88	-2.50	-9.50	134.00	43.86	466.38	71.92	386.09	368.21	325.54	55.39	338.90	71.67	258.50	368.23
49654	88.84	-3.10	-9.50	133.17	43.51	469.36	71.63	385.26	366.65	324.03	55.49	344.24	71.23	257.59	366.67
49655	90.11	-2.50	-9.50	134.53	43.77	498.97	75.97	379.96	369.18	307.22	48.82	338.97	75.70	256.45	369.20
49656	90.06	-3.10	-9.50	133.65	43.43	501.40	75.62	379.03	367.78	305.79	49.02	344.29	75.19	255.39	367.80
49657	91.34	-2.50	-9.50	130.77	43.17	530.94	78.35	371.96	368.73	286.48	43.25	338.08	78.08	249.94	368.76
49658	91.28	-3.10	-9.50	129.96	42.82	5									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49687	90.11	-2.50	-10.50	180.65	59.87	508.91	87.47	395.49	377.23	382.38	53.21	350.45	87.27	286.65	377.23
49688	90.06	-3.10	-10.50	179.53	59.90	511.37	87.23	394.76	376.32	380.70	53.79	355.73	86.92	285.80	376.33
49689	91.34	-2.50	-10.50	182.70	60.46	542.11	90.76	391.88	378.09	363.20	48.18	350.91	90.56	283.30	378.11
49690	91.28	-3.10	-10.50	181.49	60.47	543.94	90.33	391.01	377.37	361.56	48.92	356.09	90.01	282.33	377.40
49691	92.57	-2.50	-10.50	179.19	60.44	574.49	92.35	386.18	377.66	339.59	45.11	350.60	92.16	275.65	377.69
49692	92.50	-3.10	-10.50	177.99	60.28	575.57	91.66	385.23	376.97	338.07	45.76	355.58	91.37	274.66	377.03
49693	93.79	-2.50	-10.50	168.06	59.75	604.35	92.17	376.13	375.91	308.73	44.41	349.10	92.02	262.12	375.97
49694	93.73	-3.10	-10.50	167.03	59.32	604.61	91.24	375.22	375.10	307.46	44.63	353.74	91.02	261.30	375.18
49695	95.02	-2.50	-10.50	147.06	58.23	628.45	89.73	357.63	372.94	267.27	46.15	345.30	89.66	240.15	373.02
49696	94.95	-3.10	-10.50	146.37	57.56	627.92	88.70	356.98	371.82	266.46	45.79	349.49	88.59	239.72	371.94
49697	96.25	-2.50	-10.50	115.05	55.57	640.42	84.08	324.88	368.55	213.10	49.53	336.59	84.15	206.44	368.64
49698	96.17	-3.10	-10.50	114.92	54.83	639.33	83.16	324.81	367.03	212.99	48.77	340.27	83.26	206.71	367.15
49699	97.48	-2.50	-10.50	73.45	51.41	629.23	74.03	271.92	361.90	147.17	52.87	318.71	74.31	158.44	361.96
49700	97.39	-3.10	-10.50	74.08	50.93	628.11	73.47	272.93	359.98	148.00	52.16	321.95	73.91	159.86	360.06
49701	101.82	-3.10	-9.50	7.82	67.39	238.76	10.58	35.82	254.47	5.98	45.47	511.61	8.88	43.54	254.34
49702	101.90	-2.50	-9.50	7.41	66.85	238.59	8.72	28.81	255.95	6.12	42.53	515.18	7.33	37.90	255.84
49703	100.97	-3.10	-9.50	20.19	58.75	287.00	16.37	46.64	273.88	12.18	46.04	381.50	17.07	63.69	273.46
49704	101.05	-2.50	-9.50	19.81	57.94	286.19	15.17	40.43	275.53	12.14	43.59	383.90	15.58	60.36	275.25
49705	100.13	-3.10	-9.50	26.18	50.76	372.94	25.86	74.63	291.57	10.71	45.96	300.18	27.19	61.47	291.24
49706	100.20	-2.50	-9.50	25.77	49.79	372.30	25.07	69.97	293.41	9.45	44.07	300.92	25.95	58.43	293.19
49707	99.28	-3.10	-9.50	24.93	44.44	456.17	36.40	119.19	307.10	22.34	45.08	270.12	37.65	52.75	306.96
49708	99.36	-2.50	-9.50	24.25	43.49	455.99	35.93	115.77	309.01	20.36	43.83	269.10	36.75	49.02	308.92
49709	98.43	-3.10	-9.50	20.59	40.12	521.24	46.66	169.57	320.33	50.57	43.52	273.87	47.57	62.47	320.36
49710	98.51	-2.50	-9.50	19.04	39.38	521.55	46.48	167.01	322.25	48.83	42.86	271.59	47.07	58.90	322.27
49711	101.82	-3.10	-10.50	9.77	56.05	269.45	10.32	40.67	286.46	7.41	49.18	564.77	10.09	47.00	286.07
49712	101.90	-2.50	-10.50	9.54	55.64	269.20	8.47	32.62	288.53	7.62	46.88	568.75	8.68	40.21	288.21
49713	100.97	-3.10	-10.50	18.42	48.44	335.01	21.59	50.54	308.88	10.43	51.37	395.60	22.90	52.63	308.33
49714	101.05	-2.50	-10.50	18.11	47.31	334.07	20.53	43.24	311.04	10.25	49.44	398.01	21.48	47.10	310.66
49715	100.13	-3.10	-10.50	19.80	44.68	440.94	34.81	89.20	326.78	12.29	53.13	302.81	36.33	47.55	326.38
49716	100.20	-2.50	-10.50	19.26	43.72	440.38	34.14	84.23	329.07	10.31	52.04	302.98	35.21	41.22	328.80
49717	99.28	-3.10	-10.50	15.19	44.69	532.06	48.97	150.08	341.01	42.13	54.29	283.66	50.21	68.63	340.82
49718	99.36	-2.50	-10.50	13.29	44.17	532.18	48.67	146.78	343.30	40.35	53.96	281.87	49.51	64.07	343.18
49719	98.43	-3.10	-10.50	36.00	47.18	592.43	61.45	211.25	351.36	87.37	54.16	299.34	62.30	110.12	351.33
49720	98.51	-2.50	-10.50	34.57	47.18	593.14	61.53	209.00	353.54	85.83	54.43	296.59	62.10	107.28	353.53
49721	59.42	-2.50	-9.50	377.90	70.86	614.01	8.26	206.35	307.76	1858.47	238.58	486.63	7.99	399.00	314.43
49722	59.51	-3.10	-9.50	373.69	69.57	612.92	11.70	208.14	306.31	1849.51	229.51	483.92	10.90	398.33	316.77
49723	60.65	-2.50	-9.50	311.17	56.37	631.43	25.34	267.28	320.62	1618.20	119.69	533.09	27.27	424.73	322.74
49724	60.73	-3.10	-9.50	307.50	55.14	630.08	28.07	267.94	319.23	1608.72	110.32	528.03	33.59	423.34	322.47
49725	61.88	-2.50	-9.50	264.95	48.14	623.84	41.52	311.92	329.52	1422.03	48.04	518.73	49.34	401.29	329.96
49726	61.95	-3.10	-9.50	261.57	47.13	622.93	42.99	311.81	328.36	1410.78	45.80	514.03	56.84	399.51	329.04
49727	63.11	-2.50	-9.50	232.92	44.60	602.18	52.96	342.53	335.94	1260.34	68.75	476.02	65.93	351.83	335.93
49728	63.17	-3.10	-9.50	229.75	43.85	602.04	53.67	341.95	335.01	1247.55	72.76	473.10	74.47	350.18	335.00
49729	64.33	-2.50	-9.50	209.75	43.88	573.20	60.71	363.11	340.51	1126.90	108.03	426.61	77.01	294.43	340.54
49730	64.40	-3.10	-9.50	206.83	43.32	573.95	60.98	362.27	339.72	1113.38	110.38	425.99	85.90	293.32	339.75
49731	65.56	-2.50	-9.50	191.50	44.46	540.78	65.54	377.17	343.52	1016.17	136.11	382.27	83.25	240.59	343.76
49732	65.62	-3.10	-9.50	188.89	43.99	542.37	65.56	376.25	342.74	1002.66	136.63	383.88	91.93	240.20	343.09
49733	66.79	-2.50	-9.50	175.72	45.36	507.03	67.84	387.10	345.21	923.15	153.77	348.06	85.54	196.25	345.68
49734	66.84	-3.10	-9.50	173.47	44.92	509.33	67.71	386.19	344.31	910.20	152.97	351.46	93.66	196.61	345.03
49735	68.02	-2.50	-9.50	161.11	46.08	473.18	67.83	394.29	345.85	843.95	163.55	324.96	84.63	163.53	346.52
49736	68.06	-3.10	-9.50	159.24	45.62	476.07	67.59	393.43	344.78	831.88	161.92	329.58	92.00	164.52	345.79
49737	69.24	-2.50	-9.50	147.05	46.38	440.10	65.67	399.52	345.79	775.77	167.61	311.66	81.12	142.16	346.59
49738	69.28	-3.10	-9.50	145.57	45.91	443.46	65.36	398.72	344.51	764.75	165.54	316.95	87.67	143.59	345.71
49739	70.47	-2.50	-9.50	133.32	46.23	408.54	61.58	403.28	345.37	716.65	167.62	305.79	75.53	130.64	346.20
49740	70.51	-3.10	-9.50	132.19	45.76	412.28	61.21	402.52	343.90	706.75	165.37	311.31	81.27	132.31	345.15
49741	71.70	-2.50	-9.50	119.94	45.71	379.20	55.82	405.89	344.87	665.22	164.81	304.81	68.29	127.07	345.67
49742	71.73	-3.10	-9.50	119.11	45.26	383.27	55.42	405.13	343.23	656.43	162.56	310.31	73.29	128.81	344.44
49743	72.93	-2.50	-9.50	107.17	44.92	352.83	48.65	407.59	344.49	620.38	160.05	306.64	59.81	129.63	345.22
49744	72.95	-3.10	-9.50	106.56	44.52	357.21	48.27	406.82	342.72	612.66	157.94	312.00	64.19	131.32	343.81
49745	74.15	-2.50	-9.50	95.47	43.98	330.22	40.35	408.57	344.38	581.21	153.98	309.80	50.47	136.76	345.01
49746	74.17	-3.10	-9.50	95.03	43.65	334.88	40.03	407.78	342.51	574.49	152.07	315.00	54.36	138.29	344.44
49747	75.38	-2.50	-9.50	85.59	43.02	312.18	31.18	408.98	344.63	546.93	147.01	313.42	40.62	147.12	345.14
49748	75.39	-3.10	-9.50	85.25	42.74	317.09	30.95	408.16	342.67	541.11	145.33	318.45	44.18	148.42	343.45
49749	76.61	-2.50	-9.50	78.48	42.12	299.51	21.38	408.93	345.29	516.80	139.42	317.00	30.72	159.58	345.69
49750	76.62	-3.10	-9.50	78.20	41.90	304.61	21.31	408.09	343.27	511.80	137.98	321.91	34.11	160.62	343.88
49751	77.84	-2.50	-9.50	75.07	41.38	292.84	11.28	408.48	346.37	490.20	131.38	320.36	21.61	173.20	346.68
49752	77.84	-3.10	-9.50	74.83	41.20	298.04	11.51	407.64	344.31	485.91	130.19	325.19	24.99	173.98	344.78
49753	59.42	-2.50	-10.50	369.44	80.11	673.95	20.33	263.17	342.58	1983.89	190.79	532.64	19.35	645.41	346.05
49754	59.51	-3.10	-10.50	365.50	79.09	672.32	24.32	264.48	340.44	1975.47	181.66	529.18	24.17	643.83	346.15
49755	60.65	-2.50	-10.50	315.57	71.51	675.10	43.54	318.07	347.74	1710.23	78.59	536.61	48.80	609.95	348.67
49756	60.73	-3.10	-10.50	312.04	70.59	673.46	45.66	318.31	346.21	1700.81	72.62	532.01	56.63		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49785	58.39	-2.50	-9.50	455.96	88.31	572.19	27.80	145.27	292.21	2112.26	357.60	391.51	31.95	323.30	306.94
49786	57.54	-2.50	-9.50	540.29	107.03	506.75	55.02	100.54	272.86	2369.18	455.96	326.48	60.50	216.73	298.01
49787	56.70	-2.50	-9.50	649.13	132.31	404.77	89.82	90.98	243.37	2685.78	543.71	546.28	97.54	105.17	278.62
49788	55.85	-2.50	-9.50	785.51	170.06	246.33	136.68	132.99	192.56	3036.25	612.38	1187.21	149.48	137.93	217.78
49789	55.01	-2.50	-9.50	944.53	212.49	41.21	201.39	188.52	108.23	3343.06	667.42	2010.09	222.76	323.24	133.51
49790	58.47	-3.10	-9.50	451.30	86.98	571.88	24.94	148.16	290.90	2102.23	351.94	392.60	24.67	322.59	315.64
49791	57.62	-3.10	-9.50	535.84	105.48	507.33	50.57	104.04	271.84	2358.94	454.06	327.79	53.40	214.92	320.62
49792	56.77	-3.10	-9.50	645.70	130.17	406.29	84.33	93.58	242.77	2678.83	541.60	536.26	103.01	104.19	334.70
49793	55.93	-3.10	-9.50	783.88	167.29	247.41	129.66	132.90	191.98	3043.97	598.13	1162.76	198.08	139.84	348.63
49794	55.08	-3.10	-9.50	949.37	212.23	36.52	195.46	188.45	107.67	3385.76	657.95	1970.95	385.30	325.73	352.27
49795	58.39	-2.50	-10.50	439.88	92.76	644.68	16.25	200.71	336.16	2307.26	326.87	472.60	28.11	641.12	344.47
49796	57.54	-2.50	-10.50	520.59	109.00	584.38	47.26	143.13	328.33	2680.39	462.69	369.43	64.00	614.70	343.63
49797	56.70	-2.50	-10.50	629.40	133.48	479.54	92.54	95.80	317.95	3227.72	624.92	366.23	114.39	579.22	342.83
49798	55.85	-2.50	-10.50	780.81	170.75	315.07	160.60	77.66	307.51	4076.04	843.89	932.65	184.67	533.46	342.47
49799	55.01	-2.50	-10.50	994.77	232.92	32.52	289.66	54.28	280.85	5327.67	1150.99	2502.19	297.82	733.51	308.03
49800	58.47	-3.10	-10.50	435.49	91.71	643.70	15.89	203.24	333.57	2298.08	320.82	472.43	19.41	640.21	348.06
49801	57.62	-3.10	-10.50	515.09	107.88	584.30	43.17	146.79	325.47	2670.81	461.99	372.47	48.15	613.67	355.80
49802	56.77	-3.10	-10.50	624.79	132.01	480.40	86.86	101.41	314.75	3218.90	627.99	360.89	89.18	578.11	376.07
49803	55.93	-3.10	-10.50	775.54	168.68	316.47	153.46	85.03	303.60	4071.12	848.14	909.26	153.45	535.20	425.62
49804	55.08	-3.10	-10.50	988.69	230.76	30.81	279.79	60.76	275.27	5331.91	1144.93	2465.41	290.50	736.53	454.22
49805	97.23	-3.96	-9.50	33.29	38.00	568.22	57.21	229.10	330.40	96.55	40.99	297.97	57.94	102.68	330.63
49806	96.02	-3.96	-9.50	58.68	37.01	595.46	66.28	280.82	342.72	147.08	37.49	319.88	66.38	148.10	343.00
49807	94.81	-3.96	-9.50	84.47	37.81	598.24	72.36	317.41	352.09	192.12	35.79	334.84	72.04	186.46	352.33
49808	93.60	-3.96	-9.50	105.33	39.36	585.38	75.93	341.76	358.87	229.17	36.56	344.11	75.36	214.92	359.04
49809	92.39	-3.96	-9.50	119.89	40.94	563.20	77.42	357.85	363.22	258.80	39.48	349.54	76.74	234.33	363.33
49810	91.18	-3.96	-9.50	128.49	42.13	535.78	77.07	368.96	365.32	282.83	43.88	352.46	76.34	246.56	365.39
49811	89.96	-3.96	-9.50	132.08	42.75	505.69	74.92	377.17	365.45	303.19	49.35	353.65	74.20	253.31	365.49
49812	88.75	-3.96	-9.50	131.69	42.80	474.59	71.02	383.59	364.06	321.28	55.72	353.59	70.33	255.80	364.09
49813	87.54	-3.96	-9.50	128.17	42.42	443.70	65.47	388.73	361.65	338.04	62.87	352.63	64.86	254.81	361.67
49814	86.33	-3.96	-9.50	122.21	41.82	414.00	58.50	392.86	358.68	354.04	70.65	351.05	58.02	250.89	358.71
49815	85.12	-3.95	-9.50	114.43	41.17	386.37	50.37	396.18	355.49	369.70	78.85	349.06	50.14	244.49	355.54
49816	83.90	-3.95	-9.50	105.46	40.60	361.61	41.38	398.83	352.34	385.38	87.25	346.81	41.63	235.99	352.44
49817	82.69	-3.95	-9.50	96.05	40.20	340.51	31.81	400.96	349.39	401.45	95.71	344.40	33.10	225.78	349.55
49818	81.48	-3.95	-9.50	87.10	40.03	323.85	21.96	402.66	346.74	418.31	104.09	341.86	25.61	214.19	346.99
49819	80.27	-3.95	-9.50	79.72	40.08	312.34	12.42	404.02	344.45	436.40	112.31	339.21	21.35	201.61	344.83
49820	79.06	-3.95	-9.50	75.12	40.36	306.58	6.44	405.07	342.57	456.17	120.30	336.41	22.86	188.43	343.11
49821	96.98	-5.08	-9.50	37.58	39.02	565.65	56.93	232.77	325.74	100.00	41.44	306.85	58.11	108.14	326.09
49822	95.78	-5.08	-9.50	61.10	36.91	592.44	65.16	281.27	338.30	148.37	37.21	330.19	65.33	149.82	338.74
49823	94.59	-5.08	-9.50	85.11	36.94	596.55	70.83	315.73	348.05	191.51	35.49	346.57	70.31	185.44	348.43
49824	93.39	-5.08	-9.50	104.56	38.13	585.94	74.32	338.90	355.13	227.12	36.59	357.16	73.40	212.18	355.40
49825	92.20	-5.07	-9.50	118.15	39.60	566.26	75.94	354.53	359.58	255.74	39.81	363.62	74.80	230.78	359.75
49826	91.00	-5.07	-9.50	126.21	40.76	541.13	75.75	365.66	361.54	279.13	44.35	367.17	74.52	242.88	361.64
49827	89.81	-5.07	-9.50	129.66	41.36	512.88	73.72	374.14	361.39	299.12	49.84	368.57	72.49	249.91	361.45
49828	88.61	-5.07	-9.50	129.43	41.41	483.16	69.88	380.84	359.67	317.02	56.14	368.41	68.69	252.84	359.70
49829	87.42	-5.07	-9.50	126.22	41.07	453.31	64.39	386.16	356.98	333.60	63.18	367.16	63.28	252.28	357.00
49830	86.22	-5.06	-9.50	120.62	40.56	424.45	57.51	390.34	353.81	349.32	70.77	365.20	56.55	248.75	353.84
49831	85.03	-5.06	-9.50	113.13	40.05	397.56	49.56	393.59	350.52	364.52	78.69	362.83	48.90	242.69	350.60
49832	83.83	-5.06	-9.50	104.38	39.65	373.50	40.86	396.11	347.34	379.54	86.73	360.25	40.81	234.54	347.49
49833	82.63	-5.06	-9.50	95.11	39.42	353.06	31.71	398.07	344.41	394.74	94.73	357.57	33.01	224.72	344.66
49834	81.44	-5.06	-9.50	86.23	39.38	336.98	22.47	399.63	341.81	410.53	102.59	354.85	26.80	213.62	342.20
49835	80.24	-5.05	-9.50	78.86	39.52	325.91	13.93	400.88	339.59	427.34	110.22	352.09	24.35	201.60	340.17
49836	79.05	-5.05	-9.50	74.25	39.83	320.37	9.16	401.87	337.79	445.60	117.57	349.27	27.31	189.08	338.61
49837	96.66	-6.18	-9.50	42.27	40.20	562.43	56.80	236.81	319.40	104.17	41.97	317.32	58.51	113.99	319.88
49838	95.49	-6.18	-9.50	63.87	37.03	588.71	64.16	281.43	332.10	149.97	37.16	342.15	64.46	151.43	332.71
49839	94.31	-6.18	-9.50	85.84	36.18	594.48	69.38	313.29	342.11	190.80	35.40	360.13	68.66	183.78	342.63
49840	93.14	-6.18	-9.50	103.62	36.80	586.69	72.71	335.05	349.36	224.62	36.72	372.25	71.36	208.49	349.74
49841	91.96	-6.17	-9.50	116.04	37.95	570.07	74.30	350.21	353.83	252.00	40.19	379.90	72.59	226.19	354.06
49842	90.79	-6.17	-9.50	123.48	38.95	547.63	74.09	361.45	355.65	274.65	44.94	384.14	72.23	238.23	355.79
49843	89.61	-6.17	-9.50	126.81	39.49	521.45	72.04	370.26	355.30	294.24	50.55	385.75	70.14	245.62	355.37
49844	88.44	-6.17	-9.50	126.80	39.57	493.24	68.19	377.27	353.41	311.91	56.90	385.43	66.31	249.03	353.44
49845	87.26	-6.17	-9.50	123.97	39.36	464.49	62.76	382.74	350.62	328.26	63.84	383.82	60.94	248.91	350.65
49846	86.09	-6.16	-9.50	118.74	39.03	436.54	56.06	386.87	347.45	343.59	71.18	381.45	54.36	245.73	347.50
49847	84.91	-6.16	-9.50	111.55	38.74	410.48	48.43	389.95	344.24	358.18	78.71	378.68	46.99	239.99	344.35
49848	83.74	-6.16	-9.50	103.00	38.55	387.24	40.19	392.23	341.19	372.34	86.24	375.76	39.39	232.19	341.39
49849	82.56	-6.16	-9.50	93.84	38.50	367.56	31.67	393.96	338.40	386.46	93.63	372.83	32.40	222.81	338.74
49850	81.39	-6.16	-9.50	85.01	38.58	352.15	23.30	395.32	335.93	400.93	100.80	369.93	27.46	212.25	336.47
49851	80.21	-6.15	-9.50	77.65	38.79	341.57	15.97	396.42	333.83	416.19	107.68	367.07	26.59	200.91	334.63
49852	79.04	-6.15	-9.50	73.01	39.10	336.29	12.21	397.32	332.14	432.67	114.24	364.24	30.74	189.17	333.25
49853	96.28	-7.26	-9.50	47.24	40.95	558.31	57.02	240.66	311.84	109.01	42.05	328.51	59.32	119.52	312.42
49854	95.13	-7.26	-9.50	66.87	37.11	584.05									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49883	80.27	-3.95	-10.50	93.67	49.57	325.81	13.97	408.01	350.49	513.89	125.67	348.63	26.13	228.33	350.78
49884	79.06	-3.95	-10.50	88.09	49.84	320.30	7.16	406.76	348.78	537.13	135.25	346.25	28.28	215.87	349.21
49885	96.98	-5.08	-10.50	76.75	49.96	622.39	71.58	276.74	353.89	151.62	50.15	337.74	72.74	165.50	354.09
49886	95.78	-5.08	-10.50	114.08	51.80	633.97	79.56	323.61	362.47	212.35	45.70	358.07	79.80	207.10	362.79
49887	94.59	-5.08	-10.50	143.01	54.08	625.59	84.59	352.91	368.95	262.57	43.60	369.76	84.30	236.70	369.25
49888	93.39	-5.08	-10.50	162.10	56.32	606.43	87.58	369.90	373.47	301.45	44.17	376.31	86.91	256.38	373.69
49889	92.20	-5.07	-10.50	172.37	57.95	581.63	88.92	379.74	375.80	330.93	46.59	379.81	88.03	269.05	375.93
49890	91.00	-5.07	-10.50	175.90	58.56	553.69	88.51	386.02	375.81	353.95	50.13	381.21	87.52	276.91	375.87
49891	89.81	-5.07	-10.50	174.53	58.04	523.99	86.04	390.54	373.81	373.09	54.75	381.02	85.06	281.08	373.81
49892	88.61	-5.07	-10.50	169.58	56.66	493.63	81.39	393.98	370.40	390.06	60.71	379.64	80.51	282.07	370.38
49893	87.42	-5.07	-10.50	161.83	54.84	463.65	74.76	396.59	366.30	405.83	68.09	377.50	74.04	280.16	366.26
49894	86.22	-5.06	-10.50	151.85	52.99	435.04	66.53	398.50	362.04	420.99	76.59	374.94	66.06	275.67	362.02
49895	85.03	-5.06	-10.50	140.17	51.38	408.65	57.12	399.87	357.98	436.00	85.78	372.21	57.10	268.98	357.99
49896	83.83	-5.06	-10.50	127.47	50.15	385.25	46.93	400.87	354.29	451.31	95.30	369.47	47.79	260.50	354.36
49897	82.63	-5.06	-10.50	114.61	49.35	365.51	36.32	401.67	351.06	467.40	104.85	366.79	39.01	250.62	351.22
49898	81.44	-5.06	-10.50	102.70	48.96	350.06	25.68	402.37	348.33	484.78	114.28	364.20	32.28	239.71	348.62
49899	80.24	-5.05	-10.50	93.14	48.95	339.46	15.88	403.04	346.12	503.92	123.49	361.70	29.98	228.13	346.57
49900	79.05	-5.05	-10.50	87.50	49.27	334.14	10.46	403.72	344.45	525.27	132.43	359.27	33.73	216.26	345.11
49901	96.66	-6.18	-10.50	78.61	49.60	618.35	70.36	279.60	346.73	154.30	49.08	349.79	72.02	169.55	347.00
49902	95.49	-6.18	-10.50	113.47	49.78	630.27	77.39	322.65	356.37	211.92	43.76	371.52	77.83	207.27	356.81
49903	94.31	-6.18	-10.50	140.55	51.36	624.39	82.19	349.67	363.90	259.74	41.83	385.10	81.75	234.23	364.32
49904	93.14	-6.18	-10.50	158.50	53.47	608.67	85.44	365.67	369.10	297.06	43.02	393.43	84.42	252.45	369.40
49905	91.96	-6.17	-10.50	168.30	55.16	587.25	87.20	375.47	371.55	325.71	45.98	398.17	85.83	264.70	371.72
49906	90.79	-6.17	-10.50	171.93	55.82	562.03	87.12	382.25	371.22	348.48	49.88	400.09	85.59	272.85	371.27
49907	89.61	-6.17	-10.50	171.13	55.34	534.20	84.79	387.40	368.62	367.73	54.76	399.77	83.25	277.60	368.59
49908	88.44	-6.17	-10.50	166.96	54.04	505.01	80.16	391.28	364.61	384.88	60.92	397.89	78.71	279.12	364.54
49909	87.26	-6.17	-10.50	159.97	52.40	475.82	73.54	393.99	360.04	400.66	68.38	395.08	72.23	277.53	359.97
49910	86.09	-6.16	-10.50	150.55	50.83	447.86	65.43	395.72	355.50	415.49	76.78	391.87	64.33	273.21	355.45
49911	84.91	-6.16	-10.50	139.21	49.57	422.12	56.30	399.77	351.31	429.79	85.69	388.58	55.61	266.63	351.31
49912	83.74	-6.16	-10.50	126.67	48.69	399.38	46.58	397.40	347.59	444.04	94.74	385.40	46.77	258.31	347.68
49913	82.56	-6.16	-10.50	113.85	48.20	380.30	36.64	397.86	344.38	458.77	103.70	382.39	38.82	248.70	344.60
49914	81.39	-6.16	-10.50	101.91	48.05	365.43	26.96	398.29	341.70	474.48	112.44	379.58	33.42	238.20	342.09
49915	80.21	-6.15	-10.50	92.28	48.19	355.26	18.56	398.77	339.56	491.67	120.88	376.93	32.77	227.18	340.16
49916	79.04	-6.15	-10.50	86.55	48.57	350.16	14.35	399.34	337.95	510.78	128.97	374.45	37.81	216.00	338.84
49917	96.28	-7.26	-10.50	80.84	48.69	612.72	69.64	282.46	337.08	157.55	47.46	362.08	71.89	173.60	337.39
49918	95.13	-7.26	-10.50	112.87	47.70	625.11	75.86	320.98	347.49	211.57	41.85	385.19	76.49	206.81	348.04
49919	93.98	-7.26	-10.50	137.80	48.60	622.35	80.42	345.29	355.69	256.58	40.23	400.83	79.82	230.68	356.21
49920	92.83	-7.26	-10.50	154.41	50.33	610.78	83.70	360.21	361.22	292.07	41.93	411.12	82.24	247.35	361.59
49921	91.68	-7.26	-10.50	163.67	51.81	593.26	85.51	370.16	363.65	319.76	45.45	417.17	83.51	259.33	363.83
49922	90.53	-7.26	-10.50	167.52	52.38	570.94	85.34	377.70	363.06	342.31	49.94	419.56	83.08	267.98	363.09
49923	89.38	-7.26	-10.50	167.46	51.96	544.89	82.88	383.59	360.16	361.75	55.39	419.03	80.54	273.41	360.11
49924	88.23	-7.26	-10.50	164.21	50.87	516.74	78.17	387.80	355.98	379.11	61.92	416.56	75.84	275.35	355.88
49925	87.08	-7.26	-10.50	157.98	49.58	488.26	71.64	390.39	351.40	394.78	69.42	413.07	69.33	273.90	351.31
49926	85.93	-7.26	-10.50	149.04	48.41	460.98	63.84	391.72	346.99	409.05	77.54	409.26	61.56	269.55	346.93
49927	84.78	-7.26	-10.50	137.95	47.53	435.97	55.26	392.24	342.99	422.38	85.90	405.50	53.16	262.96	343.00
49928	83.63	-7.25	-10.50	125.50	46.97	414.01	46.30	392.37	339.47	435.32	94.24	401.96	44.86	254.73	339.60
49929	82.48	-7.25	-10.50	112.68	46.72	395.68	37.34	392.39	336.46	448.43	102.37	398.70	37.74	245.39	336.74
49930	81.33	-7.25	-10.50	100.68	46.73	381.46	28.91	392.48	333.94	462.24	110.21	395.71	33.55	235.33	334.43
49931	80.18	-7.25	-10.50	90.97	46.94	371.77	22.06	392.73	331.92	477.22	117.69	392.97	34.28	224.93	332.68
49932	79.03	-7.25	-10.50	85.13	47.32	366.93	18.82	393.18	330.41	493.78	124.77	390.46	40.39	214.52	331.51
49933	101.69	-3.96	-9.50	8.72	68.71	239.18	13.42	45.18	253.42	6.31	49.76	504.67	11.49	51.57	253.25
49934	100.83	-3.96	-9.50	20.85	60.00	288.73	18.58	56.05	271.61	12.48	49.84	376.73	19.68	69.08	270.95
49935	99.98	-3.96	-9.50	26.93	52.22	374.23	27.35	82.40	288.88	12.95	48.89	298.74	29.42	66.47	288.35
49936	99.12	-3.96	-9.50	26.10	45.85	456.46	37.35	125.16	304.20	25.78	47.06	271.98	39.31	58.80	303.98
49937	98.27	-3.96	-9.50	23.18	41.22	520.52	47.10	174.04	317.39	53.73	44.57	277.98	48.53	68.39	317.44
49938	101.47	-5.07	-9.50	10.06	70.77	240.02	17.34	56.99	250.54	6.92	56.14	493.23	15.52	62.14	250.30
49939	100.60	-5.07	-9.50	22.09	62.50	291.58	21.88	68.59	267.96	13.44	55.41	369.33	23.61	76.94	266.92
49940	99.74	-5.08	-9.50	28.26	54.89	376.33	29.69	93.57	284.57	16.55	53.31	296.82	32.82	73.83	283.71
49941	98.87	-5.08	-9.50	28.17	48.37	456.91	38.83	134.08	299.52	30.88	50.13	275.36	41.85	67.45	299.15
49942	98.01	-5.08	-9.50	27.11	43.20	519.41	47.79	180.81	312.63	58.57	46.28	284.81	50.04	76.90	312.69
49943	101.20	-6.17	-9.50	11.85	72.98	241.29	21.57	68.73	246.42	8.16	62.65	479.38	20.17	72.94	246.11
49944	100.32	-6.18	-9.50	23.70	65.07	295.12	25.53	80.94	262.68	15.14	60.99	360.67	28.07	85.06	261.20
49945	99.44	-6.18	-9.50	29.96	57.62	378.83	32.39	105.29	278.51	20.82	57.65	294.99	36.59	81.48	277.29
49946	98.57	-6.18	-9.50	30.74	50.94	457.40	40.56	143.91	293.13	36.69	53.07	279.75	44.68	76.30	292.58
49947	97.69	-6.18	-9.50	31.45	45.25	517.99	48.66	188.43	306.22	64.31	47.91	293.10	51.79	85.75	306.28
49948	100.87	-7.26	-9.50	14.11	74.59	243.20	25.85	79.61	240.95	10.33	68.02	463.26	25.22	83.10	240.63
49949	99.98	-7.26	-9.50	25.76	66.79	299.47	29.31	92.98	255.84	17.75	65.26	350.71	32.65	93.16	253.93
49950	99.09	-7.26	-9.50	32.09	59.45	381.78	35.24	117.20	271.18	25.88	60.57	293.12	40.48	89.06	269.57
49951	98.20	-7.26	-9.50	33.80	52.60	457.78	42.49	154.20	285.59	43.26	54.74	284.82	47.74	84.89	284.85
49952	97.31	-7.26	-9.50	36.16	46.51	515.99	49.80	196.37	298.69	70.90	48.59	302.22	53.87	94	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
49981	75.57	-7.25	-9.50	79.74	38.87	370.16	29.19	392.69	324.10	470.54	124.36	373.08	63.91	158.41	327.04
49982	75.51	-6.16	-9.50	81.81	40.30	353.71	29.49	398.78	329.68	493.67	131.33	356.08	60.37	156.23	332.12
49983	75.46	-5.06	-9.50	83.39	41.39	338.59	29.99	403.25	335.11	513.80	137.33	340.54	55.38	153.44	336.94
49984	75.42	-3.95	-9.50	84.56	42.22	325.48	30.55	406.40	339.64	530.48	142.23	327.07	49.28	150.53	340.84
49985	74.42	-7.25	-9.50	88.49	39.06	385.43	36.07	392.75	324.19	493.02	127.88	370.95	76.55	151.19	327.74
49986	74.34	-6.16	-9.50	90.86	40.69	369.80	37.25	398.67	329.79	519.62	135.94	353.67	72.56	148.06	332.74
49987	74.27	-5.06	-9.50	92.73	41.99	355.38	38.41	403.01	335.17	542.88	142.87	337.75	66.90	144.42	337.38
49988	74.21	-3.95	-9.50	94.16	43.01	342.87	39.41	406.06	339.58	562.19	148.52	323.89	60.02	140.82	341.04
49989	73.27	-7.25	-9.50	98.49	39.19	404.85	42.70	392.36	324.69	518.87	130.67	369.37	89.75	146.52	328.81
49990	73.16	-6.16	-9.50	101.29	41.03	390.18	44.57	398.06	330.35	549.44	139.81	351.82	85.13	142.60	333.79
49991	73.07	-5.06	-9.50	103.59	42.55	376.56	46.22	402.22	335.67	576.24	147.65	335.49	78.56	138.29	338.25
49992	73.00	-3.95	-9.50	105.42	43.77	364.73	47.52	405.16	339.94	598.49	153.99	321.19	70.63	134.17	341.64
49993	72.12	-7.26	-9.50	108.84	39.24	427.76	48.77	391.29	325.57	548.88	132.59	368.80	103.28	145.25	330.14
49994	71.99	-6.16	-9.50	112.26	41.27	414.14	51.16	396.72	331.33	583.98	142.77	351.08	97.79	140.87	335.14
49995	71.87	-5.06	-9.50	115.17	43.01	401.37	53.14	400.69	336.57	614.75	151.42	334.41	90.01	136.19	339.43
49996	71.78	-3.95	-9.50	117.57	44.42	390.29	54.61	403.52	340.64	640.25	158.32	319.75	80.72	131.80	342.52
49997	70.97	-7.26	-9.50	118.89	39.19	453.44	54.02	389.18	326.77	583.96	133.44	369.91	116.91	148.37	331.54
49998	70.81	-6.16	-9.50	123.18	41.39	440.90	56.75	394.34	332.62	624.19	144.54	352.30	110.19	144.02	336.61
49999	70.68	-5.06	-9.50	126.95	43.32	429.04	58.90	398.15	337.75	659.38	153.80	335.57	100.84	139.44	340.73
50000	70.57	-3.96	-9.50	130.13	44.86	418.74	60.41	400.92	341.55	688.42	161.02	320.79	89.89	135.19	343.51
50001	69.82	-7.26	-9.50	128.29	39.03	480.94	58.22	385.59	328.12	625.21	132.97	373.58	130.35	156.99	332.73
50002	69.64	-6.17	-9.50	133.78	41.33	469.56	61.08	390.56	334.07	671.29	144.71	356.62	121.95	153.43	337.90
50003	69.48	-5.07	-9.50	138.69	43.37	458.68	63.22	394.30	339.01	711.37	154.24	340.38	110.60	149.60	341.87
50004	69.36	-3.96	-9.50	142.87	44.99	449.29	64.64	397.08	342.46	744.18	161.38	326.06	97.65	146.03	344.33
50005	68.67	-7.26	-9.50	137.07	38.72	509.11	61.11	380.06	329.36	674.03	130.81	380.68	143.30	172.36	333.30
50006	68.46	-6.17	-9.50	144.12	41.01	499.06	63.86	384.99	335.33	726.82	142.73	365.26	132.62	170.59	338.60
50007	68.29	-5.07	-9.50	150.46	43.10	489.39	65.81	388.79	340.01	772.30	151.95	350.47	118.75	168.37	342.45
50008	68.15	-3.96	-9.50	155.82	44.73	481.12	67.02	391.69	343.05	809.09	158.40	337.60	103.45	166.13	344.64
50009	67.52	-7.26	-9.50	145.61	38.23	536.51	62.52	372.23	330.01	732.27	126.44	391.75	155.55	195.84	332.75
50010	67.29	-6.17	-9.50	154.59	40.38	528.20	64.89	377.28	335.93	792.93	137.85	379.23	141.78	197.01	338.20
50011	67.09	-5.07	-9.50	162.60	42.43	520.15	66.45	381.27	340.28	844.44	145.88	367.38	124.69	197.28	341.98
50012	66.94	-3.96	-9.50	169.27	44.06	513.37	67.34	384.34	342.89	885.31	150.74	357.40	106.66	197.02	344.01
50013	66.37	-7.26	-9.50	154.67	37.57	561.59	62.42	361.80	329.43	802.77	119.29	406.74	167.13	228.65	330.64
50014	66.11	-6.17	-9.50	165.98	39.46	555.70	64.10	367.05	335.20	872.96	129.10	398.96	148.99	233.65	336.23
50015	65.90	-5.07	-9.50	175.88	41.44	549.91	65.06	371.20	339.25	931.17	134.63	391.99	127.69	237.05	340.04
50016	65.72	-3.96	-9.50	183.92	43.11	545.12	65.47	374.36	341.52	976.04	136.57	386.64	106.46	239.18	342.06
50017	65.22	-7.26	-9.50	165.51	36.87	582.93	61.03	348.37	326.94	890.15	108.79	424.75	178.09	270.99	326.91
50018	64.94	-6.17	-9.50	179.63	38.44	580.27	61.66	353.56	332.52	971.93	115.25	423.85	153.61	280.03	332.52
50019	64.70	-5.07	-9.50	191.66	40.44	577.46	61.69	357.56	336.38	1037.42	116.30	423.80	126.68	286.48	336.40
50020	64.51	-3.96	-9.50	201.14	42.29	575.15	61.35	360.53	338.54	1085.76	113.56	424.68	101.75	290.90	338.57
50021	64.07	-7.26	-9.50	180.17	36.47	599.17	58.81	330.80	321.98	1001.21	93.92	443.66	188.03	320.83	332.19
50022	63.76	-6.18	-9.50	197.89	37.90	600.44	57.85	335.21	327.40	1096.96	94.53	451.36	154.35	332.75	327.48
50023	63.51	-5.08	-9.50	212.42	40.17	601.08	56.40	338.40	331.29	1169.70	88.54	459.56	119.98	341.06	331.30
50024	63.30	-3.96	-9.50	223.39	42.49	601.55	54.81	340.66	333.64	1220.17	79.53	467.43	91.12	346.86	333.62
50025	62.92	-7.26	-9.50	202.18	37.01	608.62	56.42	306.88	314.28	1145.56	73.55	458.84	196.06	372.38	318.18
50026	62.59	-6.18	-9.50	224.63	38.84	613.85	52.91	309.29	319.64	1257.18	65.41	475.09	148.69	383.91	322.42
50027	62.31	-5.08	-9.50	242.06	42.03	617.85	49.07	310.64	323.82	1335.28	52.53	490.94	105.11	391.12	326.65
50028	62.09	-3.96	-9.50	254.55	45.25	620.92	45.45	311.42	326.63	1385.21	45.26	504.83	73.14	396.25	327.73
50029	61.77	-7.26	-9.50	236.88	39.44	608.09	54.42	273.53	303.78	1336.68	49.25	461.03	199.13	415.21	317.93
50030	61.41	-6.18	-9.50	265.15	43.08	616.23	46.78	272.33	309.23	1462.67	43.04	482.19	131.74	419.61	319.80
50031	61.12	-5.08	-9.50	285.57	48.29	622.48	39.28	270.61	313.86	1540.14	63.73	501.69	79.50	420.10	321.42
50032	60.88	-3.96	-9.50	299.67	52.75	627.18	32.60	268.98	317.17	1585.77	92.55	517.85	48.06	421.37	322.17
50033	60.62	-7.26	-9.50	290.93	45.77	591.84	52.81	228.23	290.48	1592.48	52.17	435.29	189.09	433.89	325.51
50034	60.24	-6.18	-9.50	325.15	53.83	600.28	39.03	221.90	296.04	1721.02	107.01	452.51	96.17	418.22	323.38
50035	59.92	-5.08	-9.50	348.10	62.11	606.30	27.27	216.05	300.97	1784.85	171.85	467.09	44.46	403.00	322.58
50036	59.67	-3.96	-9.50	364.30	67.24	610.49	17.84	211.21	304.31	1825.00	212.30	477.89	22.66	397.56	320.09
50037	77.87	-7.25	-10.50	84.47	47.80	367.14	20.94	393.81	329.43	512.27	131.40	388.17	50.52	204.49	330.95
50038	77.86	-6.15	-10.50	85.99	49.14	350.39	17.62	400.00	336.91	532.16	136.67	372.14	47.28	205.06	338.14
50039	77.85	-5.05	-10.50	87.04	49.89	334.38	15.23	404.39	343.34	549.26	141.03	356.92	42.38	204.54	344.25
50040	77.84	-3.95	-10.50	87.70	50.49	320.54	13.72	407.46	347.60	563.31	144.58	343.84	36.06	203.48	348.20
50041	76.72	-7.25	-10.50	89.22	48.38	372.42	27.03	394.60	329.02	533.04	137.55	386.13	63.23	195.29	331.03
50042	76.69	-6.15	-10.50	90.86	49.86	355.97	25.45	400.72	336.44	556.22	143.94	370.00	59.48	194.89	338.08
50043	76.66	-5.05	-10.50	92.01	50.75	340.19	24.64	405.05	342.80	576.29	149.27	354.63	53.91	193.50	344.01
50044	76.63	-3.95	-10.50	92.77	51.47	326.56	24.33	408.08	346.96	592.86	153.59	341.38	46.90	191.72	347.76
50045	75.57	-7.25	-10.50	98.47	49.02	382.59	34.81	395.52	329.20	556.43	143.16	384.34	77.65	187.49	331.75
50046	75.51	-6.16	-10.50	100.26	50.72	366.66	34.57	401.47	336.58	583.36	150.73	368.04	73.36	186.09	338.68
50047	75.46	-5.06	-10.50	101.56	51.83	351.32	34.77	405.66	342.85	606.80	157.08	352.41	67.02	183.81	344.41
50048	75.42	-3.95	-10.50	102.46	52.74	338.09	35.11	408.58	346.88	626.21	162.21	338.90	59.15	181.30	347.91
50049	74.42	-7.25	-10.50	110.74	49.71	397.34	43.04	396.49	329.98	582.81	148.19	382.90	93.32	181.79	333.11
50050	74.34	-6.16	-10												



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
50079	65.90	-5.07	-10.50	214.72	62.05	561.84	80.17	390.56	357.60	1040.36	175.11	384.90	161.79	300.63	358.56
50080	65.72	-3.96	-10.50	222.67	63.86	556.05	80.36	393.52	357.52	1089.33	178.44	374.76	135.08	304.79	358.20
50081	65.22	-7.26	-10.50	202.52	55.35	601.79	76.26	373.40	348.12	981.21	146.40	424.73	222.39	339.69	348.28
50082	64.94	-6.17	-10.50	215.98	58.74	597.10	76.84	378.42	354.16	1068.00	156.64	416.42	194.54	353.83	354.34
50083	64.70	-5.07	-10.50	227.65	61.84	592.57	76.98	382.34	356.77	1137.89	160.63	409.09	162.68	364.39	356.96
50084	64.51	-3.96	-10.50	236.99	63.90	589.34	76.84	385.46	356.45	1189.73	159.75	404.17	131.99	371.90	356.63
50085	64.07	-7.26	-10.50	211.38	54.60	622.47	73.16	361.54	345.15	1082.77	133.75	440.15	233.83	405.45	345.38
50086	63.76	-6.18	-10.50	227.98	57.93	622.35	72.59	366.47	351.06	1183.03	139.05	439.96	196.76	425.59	351.10
50087	63.51	-5.08	-10.50	241.90	61.41	621.77	71.81	370.12	353.82	1259.79	136.62	440.83	157.18	440.28	353.77
50088	63.30	-3.96	-10.50	252.62	64.00	621.61	70.94	372.94	353.88	1313.28	129.42	442.99	122.25	450.57	353.82
50089	62.92	-7.26	-10.50	223.44	53.85	638.85	69.74	344.55	339.09	1217.73	114.86	456.07	242.63	480.42	342.68
50090	62.59	-6.18	-10.50	244.24	57.40	643.84	67.23	348.14	345.32	1334.90	111.64	466.36	191.60	504.59	347.43
50091	62.31	-5.08	-10.50	260.81	61.61	647.46	64.64	350.51	348.90	1417.90	99.57	476.99	142.10	521.13	349.94
50092	62.09	-3.96	-10.50	272.93	65.02	650.44	62.19	352.33	349.95	1470.93	85.53	486.86	103.58	532.36	350.39
50093	61.77	-7.26	-10.50	244.66	53.97	648.33	66.69	318.35	330.35	1404.65	87.77	467.28	245.80	556.91	343.53
50094	61.41	-6.18	-10.50	271.24	58.46	657.64	60.67	318.88	337.37	1541.27	72.35	487.62	173.55	580.15	345.70
50095	61.12	-5.08	-10.50	290.93	64.01	664.62	54.76	318.65	342.34	1627.36	58.88	506.69	113.27	593.44	347.20
50096	60.88	-3.96	-10.50	304.55	68.44	670.00	49.37	318.50	344.80	1677.07	63.31	522.32	74.39	602.20	347.47
50097	60.62	-7.26	-10.50	284.69	56.52	644.28	64.04	278.65	319.38	1671.87	56.44	460.22	235.96	625.12	351.88
50098	60.24	-6.18	-10.50	318.48	63.69	655.24	52.10	274.20	327.58	1825.70	69.81	484.95	133.87	636.84	348.82
50099	59.92	-5.08	-10.50	341.50	71.47	663.15	40.94	269.86	334.25	1907.02	121.71	506.24	68.05	637.75	348.36
50100	59.67	-3.96	-10.50	356.97	76.74	668.86	31.11	266.56	338.16	1952.04	162.50	521.24	37.03	640.17	347.34
50101	58.63	-3.96	-9.50	439.73	85.58	571.03	22.34	153.12	289.58	2065.61	349.33	394.10	25.31	318.12	327.15
50102	57.78	-3.96	-9.50	522.11	105.41	508.66	45.60	110.35	272.01	2293.84	480.80	330.30	63.96	195.85	349.25
50103	56.92	-3.96	-9.50	630.17	129.96	410.47	80.19	100.64	245.71	2554.80	610.25	501.39	155.41	97.57	402.51
50104	56.07	-3.96	-9.50	770.68	164.05	252.54	130.94	137.44	201.36	2804.99	726.77	1050.72	337.52	273.30	501.07
50105	55.21	-3.96	-9.50	936.95	208.07	49.98	208.67	183.01	124.97	2922.68	807.14	1509.75	592.76	333.83	559.99
50106	58.89	-5.08	-9.50	421.12	81.80	569.17	22.38	160.40	287.06	2023.88	321.92	393.80	22.67	326.34	334.06
50107	58.03	-5.08	-9.50	500.68	105.23	510.38	37.07	118.25	271.63	2228.80	497.35	335.77	37.99	192.11	360.14
50108	57.16	-5.08	-9.50	605.15	131.98	417.69	69.32	107.61	249.49	2421.60	698.79	471.00	97.15	125.63	413.86
50109	56.30	-5.07	-9.50	747.72	159.86	264.06	117.38	139.48	209.08	2560.09	872.57	913.86	239.48	454.84	484.60
50110	55.43	-5.07	-9.50	928.75	185.20	65.54	183.12	171.08	126.09	2596.98	842.66	1153.01	396.33	733.04	394.36
50111	59.21	-6.18	-9.50	397.65	71.72	565.57	31.59	168.91	282.17	1991.18	235.13	390.23	45.99	362.85	335.16
50112	58.33	-6.18	-9.50	478.44	97.69	510.82	30.72	125.34	267.59	2237.41	416.93	342.31	39.46	245.78	354.08
50113	57.46	-6.18	-9.50	582.81	132.23	425.32	50.12	108.86	248.73	2461.96	672.81	474.55	80.34	100.43	379.90
50114	56.58	-6.18	-9.50	724.80	162.66	283.83	95.21	136.79	216.24	2606.71	916.36	902.02	94.25	394.31	384.04
50115	55.70	-6.17	-9.50	913.08	180.63	52.50	165.82	163.59	137.17	2685.26	880.51	1117.94	264.31	701.73	257.01
50116	59.59	-7.26	-9.50	360.78	57.42	559.24	50.94	179.13	276.25	1891.25	120.95	384.29	155.63	412.98	341.08
50117	58.70	-7.26	-9.50	445.28	78.50	508.46	47.61	134.29	261.21	2220.33	246.34	346.80	91.84	344.23	360.78
50118	57.81	-7.26	-9.50	558.06	118.29	430.39	46.57	106.96	242.19	2599.36	477.99	483.45	56.11	207.50	380.46
50119	56.92	-7.26	-9.50	708.54	174.87	305.64	71.79	128.34	215.11	2955.56	826.19	979.70	135.90	134.17	350.45
50120	56.03	-7.26	-9.50	889.47	206.09	75.49	151.38	170.09	160.36	3191.00	979.52	1401.08	148.50	243.43	160.28
50121	58.63	-3.96	-10.50	425.78	89.66	641.58	18.84	207.34	330.87	2268.22	310.76	471.29	16.90	634.79	353.74
50122	57.78	-3.96	-10.50	505.93	106.28	584.44	37.65	152.41	322.91	2626.12	475.11	380.27	38.72	597.52	372.12
50123	56.92	-3.96	-10.50	615.19	129.48	483.46	78.95	109.33	313.05	3146.30	676.72	343.75	79.06	533.41	419.13
50124	56.07	-3.96	-10.50	768.56	162.32	319.54	144.61	97.33	303.07	3965.10	936.47	775.38	154.96	430.28	524.16
50125	55.21	-3.96	-10.50	986.97	212.88	32.86	269.92	79.43	278.12	5264.15	1292.32	2191.33	333.88	572.16	632.80
50126	58.89	-5.08	-10.50	408.82	84.72	637.79	28.01	213.62	326.00	2225.52	271.12	464.23	25.92	637.50	356.50
50127	58.03	-5.08	-10.50	488.52	103.34	584.30	31.98	160.35	317.91	2577.07	465.48	386.38	45.94	594.65	376.04
50128	57.16	-5.08	-10.50	597.92	127.73	488.91	65.63	118.42	308.92	3069.50	725.53	337.08	84.15	501.70	422.82
50129	56.30	-5.07	-10.50	753.94	156.01	328.81	128.82	108.74	300.15	3855.70	1053.52	647.00	133.33	340.33	522.37
50130	55.43	-5.07	-10.50	977.46	193.68	43.27	254.65	95.69	277.85	5163.20	1472.75	1902.12	272.51	391.92	601.84
50131	59.21	-6.18	-10.50	384.02	75.01	631.65	42.81	221.92	317.61	2163.52	181.19	448.10	73.40	657.39	357.24
50132	58.33	-6.18	-10.50	464.33	94.72	582.17	36.82	170.58	307.96	2549.48	364.09	382.40	40.62	637.83	370.43
50133	57.46	-6.18	-10.50	574.57	125.62	494.34	50.53	127.82	297.99	3078.86	655.69	351.57	127.29	566.68	395.89
50134	56.58	-6.18	-10.50	730.20	159.83	346.85	104.73	113.51	290.35	3884.64	1052.46	652.32	207.93	415.27	457.60
50135	55.70	-6.17	-10.50	956.28	186.47	63.85	229.94	97.26	275.33	5219.97	1509.88	1884.62	252.78	459.79	474.25
50136	59.59	-7.26	-10.50	344.59	63.30	621.98	61.75	231.46	307.81	2010.38	83.73	426.80	204.55	671.81	366.75
50137	58.70	-7.26	-10.50	423.88	78.47	576.12	59.11	183.53	295.87	2435.27	197.17	373.22	142.67	697.13	383.18
50138	57.81	-7.26	-10.50	536.80	111.83	496.27	58.69	141.90	282.11	3053.87	427.57	376.76	59.49	698.12	401.63
50139	56.92	-7.26	-10.50	699.15	170.14	368.32	82.38	119.99	270.45	4007.10	866.74	746.73	170.45	644.84	439.41
50140	56.03	-7.26	-10.50	935.53	212.60	111.62	197.26	90.75	260.16	5477.71	1401.06	2067.35	238.44	784.29	424.85
50141	79.01	-8.10	-9.50	69.78	37.12	368.25	17.93	385.27	322.77	404.44	106.94	394.65	34.49	186.86	324.30
50142	79.01	-8.70	-9.50	68.49	36.48	379.39	19.50	380.28	320.97	394.39	104.42	405.32	35.23	185.21	322.58
50143	80.14	-8.10	-9.50	74.47	36.93	372.97	20.38	384.56	324.20	391.62	102.13	397.40	28.73	196.97	325.33
50144	80.12	-8.70	-9.50	73.16	36.36	383.90	21.68	379.63	322.30	382.75	100.17	408.02	29.09	194.74	323.49
50145	81.27	-8.10	-9.50	81.79	36.76	382.46	25.53	383.78	325.94	379.53	96.90	400.27	27.23	206.92	326.73
50146	81.23	-8.70	-9.50	80.43	36.23	392.97	26.26	378.95	323.89	371.70	95.50	410.83	26.93	204.20	324.75
50147	82.40	-8.10	-9.50	90.50	36.62	396.38									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
50177	81.27	-8.10	-10.50	99.36	45.49	393.91	31.05	386.40	328.83	451.51	108.24	408.31	32.83	231.70	329.39
50178	81.23	-8.70	-10.50	98.18	44.64	403.21	32.09	380.96	327.00	443.07	106.69	417.76	32.71	228.08	327.61
50179	82.40	-8.10	-10.50	111.38	45.44	407.55	38.37	386.59	331.15	439.27	101.22	411.37	36.20	241.38	331.49
50180	82.34	-8.70	-10.50	110.15	44.63	416.34	38.77	381.33	329.13	431.97	100.32	420.80	35.29	237.45	329.51
50181	83.53	-8.10	-10.50	124.20	45.58	425.19	46.39	386.94	333.91	427.53	93.87	414.74	42.72	250.51	334.08
50182	83.45	-8.70	-10.50	122.92	44.77	433.35	46.18	381.93	331.64	421.22	93.59	424.13	41.20	246.38	331.85
50183	84.66	-8.10	-10.50	136.61	45.94	446.42	54.56	387.26	337.10	415.75	86.26	418.43	50.60	258.68	337.14
50184	84.56	-8.70	-10.50	135.28	45.06	453.87	53.82	382.56	334.52	410.31	86.59	427.79	48.62	254.48	334.59
50185	85.79	-8.10	-10.50	147.58	46.54	470.72	62.51	387.24	340.73	403.33	78.50	422.41	58.70	265.35	340.68
50186	85.67	-8.70	-10.50	146.19	45.52	477.42	61.31	382.90	337.74	398.63	79.39	431.74	56.39	261.20	337.72
50187	86.92	-8.10	-10.50	156.23	47.36	497.35	69.88	386.38	344.73	389.65	70.79	426.52	66.30	269.85	344.64
50188	86.79	-8.70	-10.50	154.71	46.13	503.33	68.30	382.44	341.26	385.52	72.11	435.84	63.79	265.86	341.19
50189	88.05	-8.10	-10.50	161.93	48.31	525.20	76.20	384.07	348.92	374.21	63.39	430.39	72.83	271.39	348.82
50190	87.90	-8.70	-10.50	160.13	46.80	530.50	74.42	380.44	344.92	370.38	64.94	439.71	70.25	267.56	344.83
50191	89.18	-8.10	-10.50	164.45	49.13	552.57	80.96	379.75	352.79	356.72	56.58	433.22	77.74	269.27	352.73
50192	89.01	-8.70	-10.50	162.17	47.34	557.18	79.17	376.22	348.28	352.90	58.05	442.54	75.27	265.52	348.22
50193	90.30	-8.10	-10.50	163.82	49.44	577.32	83.69	373.31	355.51	337.10	50.58	433.87	80.68	263.35	355.54
50194	90.12	-8.70	-10.50	161.00	47.46	580.98	82.13	369.45	350.54	333.12	51.66	443.06	78.54	259.32	350.58
50195	91.43	-8.10	-10.50	159.74	48.99	597.46	84.24	365.06	356.10	314.72	45.44	431.10	81.63	254.22	356.29
50196	91.23	-8.70	-10.50	156.68	47.03	599.63	83.12	360.65	350.91	310.92	45.96	439.93	80.05	249.80	351.10
50197	92.56	-8.10	-10.50	150.92	47.81	611.85	82.79	354.80	353.78	287.81	41.36	424.09	80.90	242.26	354.17
50198	92.34	-8.70	-10.50	148.20	46.01	611.91	82.08	350.07	348.64	284.65	41.28	432.29	79.86	237.82	349.03
50199	93.69	-8.10	-10.50	135.47	46.46	619.94	79.77	340.57	348.29	253.88	39.16	412.37	79.03	226.65	348.87
50200	93.45	-8.70	-10.50	133.61	44.90	617.52	79.44	335.92	343.24	251.74	38.51	419.75	78.58	222.47	343.83
50201	94.82	-8.10	-10.50	112.41	45.95	619.96	75.54	318.52	340.01	211.32	40.30	395.26	76.38	205.34	340.62
50202	94.56	-8.70	-10.50	112.05	44.53	615.51	75.58	315.50	335.14	211.16	39.05	401.86	76.56	202.98	335.77
50203	95.95	-8.10	-10.50	82.83	47.37	606.99	69.88	283.94	329.41	160.46	45.60	371.20	72.71	175.98	329.74
50204	95.68	-8.70	-10.50	84.38	45.87	601.99	70.33	283.84	324.69	162.82	43.69	377.44	73.54	176.46	325.03
50205	100.59	-8.10	-9.50	16.10	74.62	245.36	29.20	88.05	235.34	12.42	70.70	448.82	28.88	91.00	325.17
50206	99.68	-8.10	-9.50	27.73	67.40	303.52	32.19	102.41	250.34	20.44	67.05	342.13	35.99	99.56	248.13
50207	98.78	-8.10	-9.50	34.11	59.98	384.42	37.47	126.49	265.61	30.41	61.32	291.81	43.57	94.80	263.67
50208	97.87	-8.10	-9.50	36.54	53.00	457.97	44.12	162.23	279.83	48.89	54.81	289.28	50.31	91.26	278.91
50209	96.97	-8.10	-9.50	40.08	46.74	514.00	50.92	202.40	292.89	76.61	48.22	309.81	55.77	100.54	292.90
50210	100.36	-8.70	-9.50	18.05	74.63	247.44	31.62	95.27	231.60	14.62	72.12	437.00	31.44	97.68	231.54
50211	99.44	-8.70	-9.50	29.40	67.48	306.99	34.22	109.12	247.24	22.99	67.33	335.54	38.68	103.94	244.78
50212	98.52	-8.70	-9.50	35.79	59.91	386.54	39.17	132.98	262.06	34.09	61.17	291.12	46.03	98.58	259.88
50213	97.61	-8.70	-9.50	38.70	52.89	457.99	45.46	167.77	276.11	53.35	54.34	292.92	52.36	95.36	275.06
50214	96.69	-8.70	-9.50	43.05	46.57	512.23	51.90	206.33	289.04	81.16	47.60	315.58	57.33	104.36	289.02
50215	100.59	-8.10	-10.50	17.06	76.27	278.60	30.03	98.44	260.07	14.30	82.35	491.96	33.47	100.00	258.53
50216	99.68	-8.10	-10.50	26.21	68.76	354.78	37.75	113.81	276.84	22.93	76.98	357.97	43.89	102.65	274.02
50217	98.78	-8.10	-10.50	30.85	62.48	450.81	46.36	144.79	292.23	37.54	69.92	306.80	53.76	101.37	289.92
50218	97.87	-8.10	-10.50	36.29	56.13	528.37	55.53	192.11	306.14	68.29	61.65	315.71	62.10	115.76	304.90
50219	96.97	-8.10	-10.50	54.52	51.13	578.04	63.26	240.34	318.00	110.32	53.54	343.06	68.14	143.85	317.69
50220	100.36	-8.70	-10.50	18.61	74.73	281.64	32.61	106.29	255.10	16.52	82.13	477.77	35.85	107.30	253.73
50221	99.44	-8.70	-10.50	27.99	67.76	359.07	39.80	121.20	272.59	25.93	75.70	351.31	46.59	108.22	269.50
50222	98.52	-8.70	-10.50	33.01	60.98	452.52	48.01	152.02	287.59	41.83	68.02	307.65	56.16	107.03	285.02
50223	97.61	-8.70	-10.50	39.46	54.50	526.76	56.78	197.69	301.45	73.04	59.43	320.47	64.08	120.93	300.05
50224	96.69	-8.70	-10.50	57.61	49.49	574.11	64.14	243.65	313.33	114.65	51.28	348.97	69.60	147.31	312.96
50225	77.89	-8.10	-9.50	68.72	37.30	368.50	19.20	385.91	321.68	418.36	111.31	392.02	43.26	176.93	323.70
50226	76.76	-8.10	-9.50	71.60	37.46	373.74	23.43	386.46	320.95	433.75	115.16	389.53	53.90	167.63	323.53
50227	75.63	-8.10	-9.50	77.82	37.58	383.80	29.10	386.87	320.59	451.01	118.42	387.24	65.78	159.46	323.80
50228	74.50	-8.10	-9.50	86.31	37.65	398.32	35.21	387.05	320.61	470.62	121.01	385.24	78.55	153.02	324.45
50229	73.37	-8.10	-9.50	95.96	37.65	416.83	41.20	386.84	320.99	493.18	122.86	383.76	91.98	148.98	325.42
50230	72.24	-8.10	-9.50	105.82	37.59	438.76	46.75	386.00	321.69	519.39	123.84	383.17	105.90	148.10	326.59
50231	71.11	-8.10	-9.50	115.20	37.46	463.38	51.62	384.14	322.65	550.09	123.81	384.02	120.13	151.21	327.76
50232	69.98	-8.10	-9.50	123.70	37.28	489.78	55.60	380.79	323.74	586.28	122.58	387.00	134.48	159.21	328.68
50233	68.85	-8.10	-9.50	131.25	37.03	516.74	58.49	375.39	324.72	629.15	119.93	392.78	148.82	173.09	328.95
50234	67.72	-8.10	-9.50	138.20	36.73	542.68	60.13	367.53	325.15	680.25	115.53	401.60	163.06	194.04	328.10
50235	66.60	-8.10	-9.50	145.28	36.43	565.83	60.55	356.97	324.48	741.77	108.83	413.09	177.48	223.42	325.76
50236	65.47	-8.10	-9.50	153.58	36.17	584.58	59.98	343.56	322.07	817.48	99.90	426.12	192.97	261.86	322.01
50237	64.34	-8.10	-9.50	164.86	36.16	597.66	58.94	326.49	317.34	913.57	88.18	438.70	209.60	308.46	317.65
50238	63.21	-8.10	-9.50	182.03	36.91	603.77	58.29	304.05	309.91	1038.20	72.55	447.26	228.05	359.25	314.65
50239	62.08	-8.10	-9.50	209.91	38.83	600.63	59.29	273.70	299.73	1204.36	54.55	445.12	249.35	406.01	316.64
50240	60.95	-8.10	-9.50	255.18	42.76	583.70	62.99	232.94	286.75	1433.03	42.77	421.53	271.27	438.40	328.78
50241	77.89	-8.70	-9.50	67.40	36.59	379.61	20.48	380.90	319.93	407.01	108.20	402.75	44.13	175.87	322.04
50242	76.78	-8.70	-9.50	70.17	36.67	384.60	24.08	381.45	319.22	420.84	111.43	400.33	54.76	167.18	321.90
50243	75.67	-8.70	-9.50	76.23	36.71	394.19	29.10	381.90	318.85	436.30	114.04	398.09	66.59	159.63	322.14
50244	74.56	-8.70	-9.50	84.50	36.70	408.07	34.64	382.14	318.81	453.83	115.97	396.14	79.31	153.75	322.72
50245	73.45	-8.70	-9.50	93.87	36.63	425.80	40.15	382.04	319.07	473.97	117.12	394.64	92.73	150.15	323.57
50246	72.34	-8.70	-9.50	103.38	36.51	446.83	45.30	381.34	319.61	497.36	117.4				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
50275	75.67	-8.70	-10.50	95.24	46.00	404.11	35.80	383.77	322.79	516.64	131.61	406.55	80.52	186.36	325.64
50276	74.56	-8.70	-10.50	107.12	46.40	417.72	42.44	385.09	323.42	536.97	134.80	405.23	96.42	181.97	326.89
50277	73.45	-8.70	-10.50	120.49	46.84	435.23	49.21	386.51	324.56	559.89	137.24	404.39	113.40	180.30	328.62
50278	72.34	-8.70	-10.50	134.11	47.32	456.24	55.72	387.82	326.18	585.86	138.87	404.25	131.29	182.11	330.75
50279	71.23	-8.70	-10.50	146.96	47.87	480.24	61.71	388.68	328.29	615.44	139.61	405.15	149.90	188.21	333.17
50280	70.11	-8.70	-10.50	158.19	48.52	506.57	66.92	388.49	330.84	649.32	139.33	407.58	168.96	199.39	335.69
50281	69.00	-8.70	-10.50	167.23	49.27	534.18	71.04	386.47	333.66	688.23	137.85	412.01	188.10	216.37	338.02
50282	67.89	-8.70	-10.50	173.98	50.00	561.42	73.74	381.83	336.35	732.93	135.04	418.54	207.10	239.93	339.57
50283	66.78	-8.70	-10.50	178.99	50.61	586.05	74.80	374.22	338.09	784.66	130.05	426.48	225.83	271.93	339.67
50284	65.67	-8.70	-10.50	183.08	51.00	606.06	74.41	364.12	338.08	845.49	122.85	434.46	245.54	314.53	338.23
50285	64.56	-8.70	-10.50	186.83	50.93	620.55	73.10	351.90	335.53	919.87	113.97	441.12	267.37	368.35	336.00
50286	63.45	-8.70	-10.50	191.62	50.97	629.53	71.84	335.96	329.89	1017.57	100.14	444.96	291.21	434.00	335.13
50287	62.34	-8.70	-10.50	201.10	51.41	632.33	72.34	313.95	321.51	1148.79	82.05	443.64	321.10	503.83	340.26
50288	61.22	-8.70	-10.50	222.66	52.90	624.97	76.23	281.33	310.65	1333.59	61.64	430.39	360.63	572.88	358.53
50289	59.93	-8.10	-9.50	317.55	49.14	552.30	68.97	187.89	272.60	1719.82	61.42	378.71	285.07	444.36	351.63
50290	59.03	-8.10	-9.50	399.49	61.51	504.31	75.39	144.05	257.31	2078.25	119.13	347.43	278.82	419.69	382.53
50291	58.12	-8.10	-9.50	517.90	91.28	432.33	80.81	109.20	238.43	2572.35	255.51	466.53	233.55	354.03	423.10
50292	57.22	-8.10	-9.50	687.10	168.45	318.28	92.06	115.13	206.39	3199.53	595.05	983.97	167.02	293.57	462.22
50293	56.31	-8.10	-9.50	921.32	256.37	125.42	135.95	176.19	148.08	3958.75	1016.21	1793.07	206.50	548.49	287.97
50294	60.21	-8.70	-9.50	275.40	48.45	545.93	78.60	193.86	270.90	1521.76	55.31	374.07	362.30	451.26	358.71
50295	59.29	-8.70	-9.50	345.13	57.56	499.32	93.45	151.98	256.02	1833.81	92.94	345.76	410.99	450.14	400.28
50296	58.38	-8.70	-9.50	450.89	77.62	431.11	114.44	115.55	237.89	2292.96	178.12	438.05	465.18	426.07	462.75
50297	57.46	-8.70	-9.50	616.78	139.19	326.93	144.23	105.70	213.15	2965.02	431.65	882.08	531.46	417.26	564.76
50298	56.54	-8.70	-9.50	897.27	301.49	142.71	240.62	156.23	144.16	4003.19	1129.91	1844.06	892.08	795.73	735.12
50299	59.93	-8.10	-10.50	301.09	56.78	612.00	76.95	238.21	301.58	1796.81	54.32	410.89	335.87	662.01	382.28
50300	59.03	-8.10	-10.50	373.47	65.60	568.61	83.27	193.58	288.71	2203.32	93.55	367.29	340.84	717.06	415.90
50301	58.12	-8.10	-10.50	483.40	89.64	494.03	91.68	155.24	273.04	2836.68	218.33	390.31	321.95	781.72	452.14
50302	57.22	-8.10	-10.50	652.95	158.62	381.70	106.62	134.87	252.76	3884.57	553.20	793.69	272.08	834.01	539.07
50303	56.31	-8.10	-10.50	938.96	273.85	151.19	182.47	96.93	226.91	5744.48	1294.82	2186.63	283.84	1106.04	590.46
50304	60.21	-8.70	-10.50	261.32	55.79	603.46	84.53	241.71	298.77	1578.27	53.38	401.49	409.40	633.68	392.26
50305	59.29	-8.70	-10.50	320.25	62.62	561.62	97.29	198.99	286.16	1910.84	79.41	364.37	465.95	693.22	441.03
50306	58.38	-8.70	-10.50	413.28	80.19	490.01	117.80	162.41	270.86	2434.69	165.08	390.42	543.56	774.91	508.27
50307	57.46	-8.70	-10.50	565.58	133.66	384.83	150.17	147.29	253.64	3328.55	413.43	747.14	661.04	879.72	603.91
50308	56.54	-8.70	-10.50	847.79	314.02	175.00	264.37	133.65	204.69	4961.56	1255.91	2098.89	1230.74	1205.20	1022.38
50309	96.21	-9.62	-9.50	47.35	45.97	509.49	53.30	210.48	283.87	87.84	46.38	325.23	59.33	108.44	283.79
50310	95.51	-10.82	-9.50	52.88	45.85	507.11	54.49	213.99	277.84	97.37	45.09	339.80	61.31	111.49	277.62
50311	94.72	-11.98	-9.50	57.22	46.90	507.36	54.07	215.21	272.15	106.04	45.45	356.29	61.20	112.27	271.76
50312	93.85	-13.08	-9.50	59.99	49.22	510.45	52.07	216.26	266.36	112.91	48.11	374.69	58.81	112.92	265.75
50313	92.91	-14.11	-9.50	61.80	52.14	515.65	49.55	218.87	259.69	118.04	52.19	395.23	55.28	114.93	258.79
50314	91.89	-15.08	-9.50	63.77	54.53	521.96	47.16	223.75	251.55	122.24	56.19	417.82	51.54	118.64	250.29
50315	90.82	-15.98	-9.50	66.52	55.75	528.53	44.89	230.07	241.35	126.17	59.10	441.61	47.79	122.93	239.66
50316	89.68	-16.80	-9.50	70.11	55.38	534.79	42.37	236.86	229.34	130.31	60.33	465.25	43.85	126.62	227.22
50317	88.49	-17.54	-9.50	74.17	53.73	540.34	39.17	243.35	216.50	134.63	60.18	487.52	39.35	129.10	214.03
50318	87.25	-18.19	-9.50	78.20	51.30	545.11	35.15	249.12	203.68	138.90	59.11	507.67	34.28	130.22	201.02
50319	85.97	-18.76	-9.50	81.79	48.54	549.13	30.44	254.03	191.60	142.91	57.46	525.30	28.98	130.11	188.95
50320	84.65	-19.23	-9.50	84.71	45.79	552.46	25.18	258.09	180.76	146.52	55.46	540.27	24.09	129.03	178.37
50321	83.31	-19.62	-9.50	86.87	43.26	555.17	19.56	261.37	171.58	149.68	53.23	552.50	20.72	127.36	169.70
50322	81.94	-19.90	-9.50	88.26	41.14	557.31	13.75	263.96	164.46	152.44	50.88	561.90	20.31	125.51	163.24
50323	80.55	-20.10	-9.50	88.89	39.59	558.85	8.04	265.93	159.67	154.98	48.57	568.36	23.41	123.89	159.16
50324	79.15	-20.20	-9.50	88.65	38.86	559.72	3.27	267.12	157.26	157.40	46.50	571.68	28.95	122.78	157.34
50325	97.13	-9.66	-9.50	42.10	52.20	457.77	47.51	174.92	270.83	60.34	53.09	299.94	55.30	100.49	269.57
50326	96.40	-10.95	-9.50	46.98	52.02	458.09	49.63	182.65	264.17	70.79	51.46	311.93	58.53	105.36	262.57
50327	95.59	-12.19	-9.50	51.24	52.85	460.20	50.16	187.45	257.11	80.49	51.00	326.47	59.64	107.75	255.16
50328	94.69	-13.37	-9.50	54.51	54.66	464.51	49.07	191.26	249.36	88.58	52.33	342.85	58.35	109.49	246.98
50329	93.71	-14.48	-9.50	57.19	56.91	470.59	47.31	196.13	240.82	94.92	55.12	361.06	55.56	112.16	237.88
50330	92.65	-15.53	-9.50	60.28	58.67	477.67	45.80	202.97	230.94	100.18	58.11	381.29	52.45	116.04	227.32
50331	91.52	-16.49	-9.50	64.59	59.12	484.98	44.64	211.31	219.14	105.25	60.02	403.04	49.54	120.22	214.77
50332	90.33	-17.37	-9.50	70.23	57.86	491.88	43.33	220.06	205.52	110.77	60.21	425.12	46.58	123.48	200.44
50333	89.07	-18.17	-9.50	76.67	55.17	498.02	41.22	228.30	190.82	116.83	58.83	446.28	43.05	125.14	185.24
50334	87.77	-18.87	-9.50	83.16	51.64	503.27	38.02	235.56	175.94	123.11	56.44	465.67	38.66	125.08	170.16
50335	86.41	-19.48	-9.50	89.10	47.82	507.68	33.74	241.65	161.60	129.23	53.53	482.84	33.48	123.56	156.02
50336	85.02	-19.99	-9.50	94.15	44.11	511.37	28.55	246.60	148.41	134.86	50.43	497.61	27.82	120.99	143.50
50337	83.59	-20.41	-9.50	98.12	40.77	514.46	22.64	250.49	136.96	139.84	47.31	509.95	22.31	117.90	133.14
50338	82.14	-20.72	-9.50	101.00	37.98	517.09	16.27	253.49	127.88	144.15	44.31	519.83	18.29	114.93	125.44
50339	80.67	-20.93	-9.50	102.77	35.93	519.23	9.87	255.75	121.74	147.91	41.60	527.13	17.90	112.71	120.71
50340	79.19	-21.03	-9.50	103.21	34.95	520.57	4.56	257.13	118.70	151.12	39.50	531.37	21.63	111.72	118.79
50341	98.05	-9.70	-9.50	38.63	59.18	390.05	41.97	142.41	256.81	40.25	60.19	291.45	49.82	103.90	254.23
50342	97.30	-11.08	-9.50	42.94	58.79	395.04	45.17	153.84	249.73	49.99	58.44	295.51	54.27	109.65	246.46
50343	96.46	-12.41	-9.50	47.04	59.00	400.55	46.83	162.26	241.40	59.57	57.15	303.82	56.71	113.19	237.36
50344	95.53														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
50373	99.88	-9.79	-9.50	21.86	74.65	252.37	36.10	108.09	228.68	18.86	72.52	414.37	36.70	107.54	228.37
50374	99.10	-11.34	-9.50	27.88	73.20	261.32	41.65	120.34	220.92	25.79	71.40	382.68	42.93	119.73	219.61
50375	98.21	-12.83	-9.50	34.62	70.64	271.14	46.20	133.64	210.84	33.68	68.61	356.99	47.85	130.01	207.45
50376	97.21	-14.25	-9.50	41.49	66.73	280.56	49.32	145.07	198.30	41.45	64.23	338.42	50.88	137.79	192.21
50377	96.11	-15.59	-9.50	48.92	62.22	289.40	51.64	156.04	185.16	49.07	59.13	324.63	52.45	144.31	175.96
50378	94.92	-16.85	-9.50	57.88	57.90	298.12	54.07	167.39	172.18	57.43	54.50	314.60	53.73	149.75	159.36
50379	93.63	-18.02	-9.50	69.03	53.46	306.89	56.65	178.77	158.75	67.58	50.32	308.88	55.37	153.00	141.80
50380	92.26	-19.09	-9.50	81.98	48.17	315.39	58.48	189.25	144.20	79.82	45.70	307.76	56.85	152.77	122.97
50381	90.82	-20.05	-9.50	95.65	41.79	323.21	58.53	198.15	128.49	93.41	40.09	310.52	57.11	148.45	103.42
50382	89.31	-20.91	-9.50	108.85	34.64	330.07	56.26	205.29	111.94	107.23	33.61	315.93	55.34	140.21	84.11
50383	87.74	-21.65	-9.50	120.75	27.31	335.92	51.63	210.79	94.97	120.31	26.79	322.88	51.27	128.73	66.00
50384	86.12	-22.28	-9.50	130.85	20.41	340.92	44.91	214.87	77.88	131.99	20.21	330.69	45.01	114.95	49.80
50385	84.46	-22.78	-9.50	138.99	14.40	345.46	36.51	217.75	60.89	142.01	14.39	339.18	36.87	100.02	36.03
50386	82.77	-23.17	-9.50	145.37	9.62	350.07	26.86	219.64	44.21	150.42	9.74	348.50	27.24	85.25	25.04
50387	81.05	-23.42	-9.50	150.00	6.37	354.61	16.43	220.79	28.26	157.22	6.58	358.20	16.56	72.57	17.09
50388	79.32	-23.55	-9.50	152.20	4.87	357.68	5.75	221.46	15.04	161.80	5.07	366.46	5.48	66.00	12.92
50389	96.21	-9.62	-10.50	62.31	47.63	567.81	65.98	245.97	307.85	121.18	48.64	358.94	72.17	149.84	307.40
50390	95.51	-10.82	-10.50	68.54	44.57	561.65	67.46	245.74	301.91	131.14	44.40	374.73	74.52	149.34	301.33
50391	94.72	-11.98	-10.50	73.50	42.35	560.06	66.48	242.33	296.36	140.88	41.72	393.19	73.89	145.46	295.64
50392	93.85	-13.08	-10.50	76.25	41.91	563.12	63.05	238.86	290.62	149.04	42.29	413.96	70.04	141.60	289.74
50393	92.91	-14.11	-10.50	77.01	43.31	569.44	58.93	238.08	283.90	155.17	45.75	437.37	64.80	140.48	282.77
50394	91.89	-15.08	-10.50	76.83	44.97	577.34	55.30	240.97	275.00	159.87	49.60	463.40	59.64	142.78	273.52
50395	90.82	-15.98	-10.50	76.46	45.22	585.41	51.99	246.15	263.00	163.76	51.91	490.69	54.64	146.64	261.12
50396	89.68	-16.80	-10.50	76.18	43.46	592.72	48.26	252.14	248.69	167.41	52.21	517.25	49.31	150.29	246.44
50397	88.49	-17.54	-10.50	75.94	40.37	598.86	43.62	257.93	233.75	170.87	51.29	541.65	43.22	152.88	231.26
50398	87.25	-18.19	-10.50	75.49	36.75	603.88	38.13	263.09	219.30	174.05	49.83	563.23	36.71	154.22	216.72
50399	85.97	-18.76	-10.50	74.69	33.11	607.94	32.12	267.51	206.01	176.86	48.10	581.81	30.68	154.46	203.55
50400	84.65	-19.23	-10.50	73.50	29.68	611.19	25.91	271.18	194.28	179.30	46.10	597.35	26.48	153.84	192.14
50401	83.31	-19.62	-10.50	71.99	26.62	613.75	19.66	274.16	184.43	181.38	43.77	609.82	25.68	152.68	182.80
50402	81.94	-19.90	-10.50	70.34	24.02	615.65	13.52	276.58	176.77	183.22	41.11	619.20	28.96	151.38	175.76
50403	80.55	-20.10	-10.50	68.80	22.04	616.89	7.79	278.55	171.62	185.09	38.21	625.37	35.49	150.36	171.19
50404	79.15	-20.20	-10.50	67.55	20.98	617.49	3.79	279.89	169.03	187.33	35.29	628.22	43.80	149.75	169.02
50405	97.13	-9.66	-10.50	44.65	52.85	523.54	59.27	204.07	295.59	80.71	56.85	329.57	67.67	126.58	293.96
50406	96.40	-10.95	-10.50	51.69	50.28	520.41	61.60	209.38	288.53	92.54	52.52	345.17	71.32	130.34	286.58
50407	95.59	-12.19	-10.50	57.47	48.79	520.72	61.38	210.65	280.67	103.91	49.44	363.91	71.91	129.95	278.44
50408	94.69	-13.37	-10.50	61.26	48.73	524.78	58.52	210.84	271.90	113.81	48.73	384.29	69.08	128.66	269.32
50409	93.71	-14.48	-10.50	63.20	50.24	531.59	54.60	212.97	262.59	121.62	50.84	406.31	64.24	129.48	259.49
50410	92.65	-15.53	-10.50	64.21	52.08	539.93	51.22	218.36	251.60	127.58	53.96	430.55	59.21	133.18	247.79
50411	91.52	-16.49	-10.50	65.40	52.32	548.50	48.67	226.19	237.86	132.58	55.65	456.26	54.67	138.27	233.27
50412	90.33	-17.37	-10.50	67.43	50.33	556.33	46.11	234.81	221.81	137.46	55.14	481.73	50.13	142.81	216.53
50413	89.07	-18.17	-10.50	70.20	46.69	562.98	42.76	243.00	204.78	142.57	53.03	505.48	44.94	145.78	199.05
50414	87.77	-18.87	-10.50	73.17	42.36	568.45	38.40	250.19	187.91	147.75	50.23	526.76	38.99	147.05	182.09
50415	86.41	-19.48	-10.50	75.86	37.97	572.87	33.19	256.24	171.97	152.77	47.22	545.25	32.66	146.85	166.47
50416	85.02	-19.99	-10.50	77.95	33.87	576.46	27.39	261.13	157.47	157.46	44.13	560.89	26.73	145.58	152.72
50417	83.59	-20.41	-10.50	79.34	30.24	579.39	21.17	264.95	144.93	161.68	40.97	573.71	22.52	143.73	141.32
50418	82.14	-20.72	-10.50	80.09	27.14	581.83	14.66	267.91	135.00	165.44	37.69	583.78	21.97	141.92	132.77
50419	80.67	-20.93	-10.50	80.43	24.60	583.78	8.12	270.30	128.45	169.00	34.32	591.00	26.10	140.80	127.51
50420	79.19	-21.03	-10.50	80.29	23.04	585.04	2.37	271.99	125.49	172.66	31.15	595.00	33.41	140.64	125.45
50421	98.05	-9.70	-10.50	36.89	59.65	455.22	51.24	162.08	281.66	49.34	65.89	311.38	60.68	114.39	278.66
50422	97.30	-11.08	-10.50	42.56	57.54	458.90	54.57	172.97	273.75	61.20	61.75	321.56	65.64	121.32	270.03
50423	96.46	-12.41	-10.50	47.58	56.33	463.57	55.36	179.45	263.51	72.73	58.32	336.62	67.66	124.15	259.04
50424	95.53	-13.67	-10.50	51.18	55.60	469.83	53.44	184.13	251.49	82.84	55.84	353.45	66.20	125.63	246.18
50425	94.51	-14.85	-10.50	53.54	55.92	477.38	50.33	189.97	239.33	91.15	55.44	371.18	62.48	128.47	232.94
50426	93.40	-15.97	-10.50	55.66	56.80	485.81	47.84	198.35	226.39	97.81	56.62	390.72	58.32	133.29	218.61
50427	92.22	-17.00	-10.50	58.82	56.40	494.39	46.47	208.67	211.38	103.77	57.05	412.10	54.77	138.66	202.08
50428	90.97	-17.94	-10.50	63.71	53.88	502.34	45.38	219.39	194.27	110.11	55.50	434.10	51.53	142.75	183.61
50429	89.65	-18.79	-10.50	69.90	49.64	509.22	43.49	229.28	175.92	117.24	52.27	455.32	47.75	144.57	164.32
50430	88.28	-19.55	-10.50	76.41	44.57	514.94	40.30	237.77	157.28	124.88	48.22	474.80	42.92	144.11	145.37
50431	86.86	-20.20	-10.50	82.40	39.42	519.63	35.84	244.76	139.04	132.54	44.00	492.08	37.03	141.80	127.61
50432	85.39	-20.76	-10.50	87.40	34.62	523.48	30.32	250.28	121.73	139.84	39.94	507.03	30.39	138.27	111.65
50433	83.88	-21.20	-10.50	91.21	30.42	526.81	23.96	254.42	105.96	146.52	36.13	519.71	23.55	134.25	98.09
50434	82.35	-21.54	-10.50	93.95	26.87	529.98	16.92	257.49	92.74	152.48	32.52	530.41	17.90	130.65	87.72
50435	80.80	-21.76	-10.50	95.98	23.94	533.20	9.63	259.93	83.62	158.01	29.07	539.22	16.87	128.44	81.48
50436	79.23	-21.87	-10.50	96.95	22.41	535.89	3.03	261.82	79.49	163.25	26.37	545.30	22.01	128.19	79.29
50437	98.96	-9.75	-10.50	31.74	66.84	367.81	43.57	132.49	266.78	31.72	74.33	340.69	51.73	116.19	263.18
50438	98.20	-11.21	-10.50	36.94	65.04	380.28	47.94	146.58	258.44	41.28	70.65	332.23	57.59	124.94	253.63
50439	97.34	-12.62	-10.50	41.59	63.29	391.32	49.95	156.95	246.38	51.21	66.68	333.15	60.97	130.04	239.92
50440	96.37	-13.96	-10.50	45.25	60.56	400.83	49.33	165.18	231.62	59.99	61.86	339.01	61.09	133.49	223.31
50441	95.31	-15.22	-10.50	48.25	58.16	409.56	47.57	174.03	217.14	67.49	57.81	346.67	58.95	137.62	206.73
50442	94.16	-16.41	-10.50	51.89	56.74	418.17	46.57	184.66	202.92	74.15	55.62	356.46	56		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
50471	74.96	-19.90	-9.50	82.10	42.65	557.57	14.55	264.12	163.46	164.67	44.07	561.73	50.53	125.25	163.98
50472	73.59	-19.62	-9.50	78.41	45.16	555.44	19.37	261.24	170.31	167.93	44.64	552.21	58.85	129.41	170.58
50473	72.25	-19.23	-9.50	74.25	47.91	552.65	23.65	257.60	179.27	172.41	46.02	539.71	67.74	135.58	179.28
50474	70.93	-18.76	-9.50	69.75	50.70	549.17	27.28	253.16	189.91	178.68	48.26	524.29	77.31	143.76	189.92
50475	69.65	-18.19	-9.50	65.19	53.25	544.94	30.17	247.87	201.78	187.53	51.32	506.04	87.88	154.04	202.34
50476	68.41	-17.54	-9.50	60.99	55.25	539.92	32.31	241.73	214.35	199.98	55.10	485.25	100.04	166.71	216.34
50477	67.22	-16.80	-9.50	57.77	56.30	534.17	33.82	234.84	226.90	217.58	59.53	462.52	114.70	182.42	231.59
50478	66.08	-15.98	-9.50	56.24	56.07	527.91	35.19	227.61	238.56	242.55	64.56	438.97	133.52	202.31	247.69
50479	65.01	-15.08	-9.50	57.09	54.64	521.78	37.29	220.74	248.33	278.51	71.54	416.33	158.10	228.41	264.28
50480	63.99	-14.11	-9.50	61.38	52.88	516.81	41.10	215.11	255.82	333.56	80.35	396.43	191.33	262.75	282.55
50481	63.05	-13.08	-9.50	71.71	52.08	514.42	47.69	211.50	261.40	422.19	90.68	380.67	238.28	305.70	303.75
50482	62.18	-11.98	-9.50	94.05	52.98	516.26	58.39	209.17	265.21	570.72	98.79	370.00	304.44	355.22	328.64
50483	61.39	-10.82	-9.50	138.01	53.14	523.43	72.41	206.32	267.69	818.91	90.75	365.42	378.54	404.29	351.51
50484	60.69	-9.62	-9.50	210.22	49.62	535.52	82.55	200.35	269.26	1194.27	63.47	368.24	412.93	439.62	361.74
50485	77.71	-21.03	-9.50	101.94	35.23	520.59	5.35	257.28	118.52	153.64	38.30	531.93	27.70	112.33	119.25
50486	76.23	-20.93	-9.50	98.98	36.73	519.30	10.73	256.00	121.23	155.48	38.20	528.87	34.89	114.91	122.08
50487	74.76	-20.72	-9.50	94.71	39.18	517.20	16.54	253.52	127.08	157.05	39.22	522.87	42.90	119.77	127.63
50488	73.31	-20.41	-9.50	89.43	42.22	514.55	21.92	250.06	135.92	158.86	41.28	514.24	51.52	126.93	136.00
50489	71.88	-19.99	-9.50	83.27	45.61	511.34	26.48	245.66	147.19	161.43	44.37	502.98	60.58	136.16	147.01
50490	70.49	-19.48	-9.50	76.39	49.12	507.46	30.01	240.20	160.20	165.25	48.47	489.02	70.08	147.18	160.43
50491	69.13	-18.87	-9.50	69.10	52.44	502.77	32.40	233.61	174.33	171.01	53.47	472.40	80.31	159.93	176.14
50492	67.83	-18.17	-9.50	61.93	55.16	497.21	33.66	225.86	188.97	179.67	59.26	453.37	91.84	174.71	194.03
50493	66.57	-17.37	-9.50	55.71	56.80	490.82	34.02	217.11	203.37	192.68	65.84	432.50	105.72	192.33	213.98
50494	65.38	-16.49	-9.50	51.43	56.95	483.89	34.21	207.82	216.67	212.17	73.75	410.87	123.68	214.37	235.95
50495	64.25	-15.53	-9.50	50.04	55.75	477.12	35.44	198.82	228.08	242.08	84.33	390.04	148.06	243.05	260.59
50496	63.19	-14.48	-9.50	52.60	54.36	471.70	39.06	191.15	237.38	290.09	99.19	371.62	183.20	280.21	289.73
50497	62.21	-13.37	-9.50	61.80	54.86	469.14	46.72	185.19	244.85	371.11	120.36	356.82	237.53	325.87	325.37
50498	61.31	-12.19	-9.50	85.78	58.78	470.91	61.53	179.99	250.50	522.10	145.13	346.51	324.66	377.16	366.05
50499	60.50	-10.95	-9.50	142.71	62.53	477.82	84.90	173.29	253.86	826.19	150.61	341.55	442.03	428.07	401.89
50500	59.77	-9.66	-9.50	248.76	58.84	489.65	102.80	162.25	255.12	1360.24	108.99	342.44	504.97	455.77	413.45
50501	77.67	-21.87	-9.50	117.92	27.38	469.85	6.10	246.19	79.26	152.54	28.77	481.18	19.62	100.16	80.13
50502	76.10	-21.76	-9.50	114.24	28.91	467.86	12.37	244.89	83.38	153.47	29.29	478.79	27.34	105.53	83.94
50503	74.55	-21.54	-9.50	108.84	31.66	464.87	19.18	242.26	91.49	153.52	31.37	473.75	36.13	114.04	90.97
50504	73.02	-21.20	-9.50	102.17	35.25	461.57	25.41	238.58	103.00	153.36	34.83	466.78	45.40	125.14	101.39
50505	71.51	-20.76	-9.50	94.33	39.35	457.88	30.50	233.84	116.88	153.39	39.52	457.79	54.77	138.15	114.98
50506	70.04	-20.20	-9.50	85.40	43.71	453.58	34.16	227.89	132.18	153.98	45.32	446.58	64.12	152.55	131.52
50507	68.62	-19.55	-9.50	75.71	47.94	448.44	36.24	220.58	148.20	155.74	52.07	433.09	73.67	168.14	150.99
50508	67.25	-18.79	-9.50	65.82	51.54	442.37	36.71	211.88	164.35	159.55	59.67	417.56	83.96	185.24	173.48
50509	65.93	-17.94	-9.50	56.66	53.94	435.42	35.85	201.92	179.96	166.71	68.27	400.56	96.07	204.86	199.23
50510	64.68	-17.00	-9.50	49.41	54.73	427.95	34.50	191.15	194.32	179.20	78.71	383.11	111.74	228.81	228.91
50511	63.50	-15.97	-9.50	45.19	54.14	420.72	34.15	180.44	206.92	200.37	92.85	366.67	133.77	259.38	264.23
50512	62.39	-14.85	-9.50	45.20	53.58	414.87	36.59	170.78	217.77	237.21	113.85	352.92	167.33	298.03	307.94
50513	61.37	-13.67	-9.50	51.42	55.87	411.76	43.94	162.41	227.15	300.67	146.81	343.64	222.05	344.04	362.00
50514	60.44	-12.41	-9.50	71.94	65.09	412.20	62.21	154.19	234.57	428.66	200.59	342.22	325.02	394.34	423.03
50515	59.60	-11.08	-9.50	140.03	78.10	416.21	100.11	143.72	238.66	779.30	246.95	356.13	508.32	445.86	477.98
50516	58.85	-9.70	-9.50	300.89	76.56	424.60	135.44	127.97	238.93	1570.50	195.41	393.60	643.23	461.16	495.67
50517	77.62	-22.71	-9.50	134.54	16.43	412.51	6.25	234.14	43.25	156.13	16.88	424.54	12.29	85.96	43.87
50518	75.98	-22.59	-9.50	130.24	18.08	409.75	14.19	233.03	50.19	155.78	18.08	423.51	21.49	95.10	48.78
50519	74.34	-22.35	-9.50	123.83	21.02	405.82	22.34	230.65	61.97	153.93	20.97	420.41	31.60	108.35	57.47
50520	72.73	-21.99	-9.50	115.96	25.11	401.76	29.66	227.19	76.57	151.34	25.57	416.35	41.71	124.11	69.89
50521	71.15	-21.52	-9.50	106.69	29.93	397.52	35.56	222.67	92.66	148.30	31.56	411.21	51.37	141.40	85.94
50522	69.60	-20.93	-9.50	96.01	35.14	392.71	39.69	216.91	109.41	145.00	38.74	404.57	60.40	159.55	105.56
50523	68.10	-20.23	-9.50	84.24	40.27	387.00	41.80	209.75	126.30	141.92	46.90	396.35	68.90	178.34	128.94
50524	66.66	-19.42	-9.50	71.94	44.75	380.28	41.80	201.05	142.90	139.90	55.93	386.76	77.30	198.12	156.47
50525	65.25	-18.52	-9.50	60.06	47.95	372.64	39.94	190.88	158.72	140.11	66.06	376.41	86.54	219.99	188.96
50526	63.97	-17.51	-9.50	49.83	49.51	364.50	37.02	179.61	173.26	144.16	78.31	366.32	98.30	245.85	227.97
50527	62.74	-16.41	-9.50	42.50	49.75	356.64	34.56	168.04	186.33	154.90	94.97	358.09	115.23	277.79	276.35
50528	61.59	-15.22	-9.50	38.95	50.27	350.12	34.59	157.09	198.19	175.57	120.40	354.12	142.38	316.56	337.50
50529	60.53	-13.96	-9.50	41.60	54.26	345.56	39.63	146.93	209.07	219.79	162.52	359.51	188.73	359.93	412.91
50530	59.56	-12.62	-9.50	49.91	68.22	343.12	54.53	136.45	217.93	281.60	242.34	383.43	274.43	406.24	498.49
50531	58.70	-11.21	-9.50	114.14	103.94	339.56	109.65	123.19	222.37	606.04	393.39	461.73	532.18	454.31	584.09
50532	57.94	-9.75	-9.50	369.58	121.72	334.84	189.41	106.08	220.51	1817.57	405.39	663.79	861.86	471.30	647.64
50533	77.58	-23.55	-9.50	150.89	4.90	357.56	5.81	221.63	15.13	163.19	4.95	371.28	7.30	70.25	13.94
50534	75.85	-23.42	-9.50	146.09	6.42	354.31	16.12	220.94	28.34	161.42	6.45	372.93	18.81	84.18	19.93
50535	74.13	-23.17	-9.50	138.90	9.58	349.66	25.79	219.17	44.12	157.54	9.97	373.47	30.13	102.93	29.88
50536	72.44	-22.78	-9.50	130.02	14.03	344.89	34.28	216.39	60.51	152.33	15.25	374.22	40.85	123.68	43.65
50537	70.78	-22.28	-9.50	119.53	19.42	340.02	41.16	212.62	77.12	145.92	22.00	375.01	50.60	145.41	61.47
50538	69.16	-21.65	-9.50	107.36	25.29	334.53	46.02	207.75	93.74	138.31	29.98	375.32	59.14	167.57	83.64
50539	67.59	-20.91	-9.50	93.74	31.11	328.04	48.53	201.56	110.15	129.84	38.93	374.94	66.34	190.00	110.59
50540	66.08	-20.05	-9.50	79.25	36.22	320.42	48.52	193.86	126.07						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
50569	71.88	-19.99	-10.50	69.02	35.29	576.59	25.84	260.71	156.39	192.75	34.73	562.86	82.35	161.10	154.54
50570	70.49	-19.48	-10.50	65.90	39.31	572.82	30.16	255.43	170.84	199.12	40.86	547.51	94.29	171.04	169.10
50571	69.13	-18.87	-10.50	62.88	43.35	568.15	33.71	249.00	186.72	207.13	48.63	529.23	107.04	182.88	186.21
50572	67.83	-18.17	-10.50	60.39	47.06	562.43	36.43	241.43	203.47	217.51	57.65	508.21	121.03	196.93	205.78
50573	66.57	-17.37	-10.50	58.98	49.85	555.59	38.41	232.85	220.35	231.49	67.49	484.96	137.03	214.03	227.57
50574	65.38	-16.49	-10.50	59.01	51.00	547.79	40.25	223.80	236.20	251.05	77.98	460.57	156.32	235.85	251.10
50575	64.25	-15.53	-10.50	60.37	50.40	539.73	43.09	215.47	249.65	280.21	89.44	436.84	180.74	265.19	276.33
50576	63.19	-14.48	-10.50	63.15	49.55	532.81	48.00	209.49	260.13	327.04	102.44	415.56	214.44	305.03	305.07
50577	62.21	-13.37	-10.50	69.59	51.38	528.89	55.69	206.81	268.45	406.53	118.94	397.31	266.20	357.23	341.28
50578	61.31	-12.19	-10.50	87.92	57.19	529.67	68.03	206.45	275.53	554.89	137.87	381.61	350.72	423.34	386.92
50579	60.50	-10.95	-10.50	136.33	63.16	536.50	87.13	206.06	280.76	855.35	140.23	369.37	468.96	509.82	433.89
50580	59.77	-9.66	-10.50	231.47	62.65	549.79	103.29	203.15	283.88	1404.05	97.01	363.37	544.37	617.15	456.77
50581	77.67	-21.87	-10.50	95.82	22.59	535.86	3.74	262.27	79.42	167.79	24.85	546.28	29.87	130.02	79.75
50582	76.10	-21.76	-10.50	92.56	24.44	533.18	10.08	260.72	83.35	171.20	25.03	542.44	38.84	134.20	82.91
50583	74.55	-21.54	-10.50	88.23	27.57	530.02	16.79	257.86	92.20	174.22	27.21	536.32	49.05	141.10	90.18
50584	73.02	-21.20	-10.50	83.28	31.19	526.83	22.93	254.17	105.27	177.49	31.11	528.35	60.22	150.61	101.67
50585	71.51	-20.76	-10.50	77.50	35.25	523.37	28.05	249.46	120.95	181.09	36.95	518.21	71.90	162.11	116.67
50586	70.04	-20.20	-10.50	70.89	39.65	519.28	32.04	243.43	138.18	184.99	44.66	505.61	83.88	175.09	134.81
50587	68.62	-19.55	-10.50	63.82	44.07	514.29	34.77	235.97	156.29	189.46	53.96	490.51	96.21	189.35	156.04
50588	67.25	-18.79	-10.50	56.97	48.02	508.24	36.21	227.00	174.76	195.05	64.56	473.13	109.19	205.14	180.40
50589	65.93	-17.94	-10.50	51.36	50.83	501.10	36.65	216.66	192.89	202.79	76.24	454.06	123.45	223.38	207.93
50590	64.68	-17.00	-10.50	47.93	51.79	493.14	37.00	205.46	209.74	214.58	89.04	434.39	140.16	245.96	238.84
50591	63.50	-15.97	-10.50	46.89	50.96	485.10	38.75	194.62	224.43	234.07	103.67	415.67	161.58	275.70	274.33
50592	62.39	-14.85	-10.50	48.11	50.17	478.25	43.03	185.68	236.87	268.88	122.24	399.25	192.89	315.00	317.58
50593	61.37	-13.67	-10.50	53.20	52.92	473.90	50.49	179.34	248.07	330.25	149.80	385.48	244.23	364.45	372.67
50594	60.44	-12.41	-10.50	70.26	62.60	472.76	65.44	174.63	258.49	454.69	196.75	375.07	343.30	425.75	440.78
50595	59.60	-11.08	-10.50	129.65	76.29	475.06	97.17	170.20	266.34	797.15	242.29	374.43	527.59	519.36	513.75
50596	58.85	-9.70	-10.50	274.41	78.06	482.61	130.60	165.89	270.06	1626.03	187.41	382.54	688.60	666.64	551.36
50597	77.62	-22.71	-10.50	114.83	15.75	473.46	4.72	249.89	38.68	164.88	16.48	485.18	18.43	115.31	38.72
50598	75.98	-22.59	-10.50	110.39	16.86	469.44	11.82	248.77	46.95	167.54	16.84	482.33	28.39	122.99	44.09
50599	74.34	-22.35	-10.50	104.55	20.00	464.53	19.51	246.08	60.28	169.26	20.05	477.67	39.67	134.00	53.63
50600	72.73	-21.99	-10.50	97.97	23.93	460.43	26.41	242.56	76.94	170.91	25.24	472.89	51.71	147.79	67.74
50601	71.15	-21.52	-10.50	90.18	28.46	456.50	31.96	238.01	95.00	172.15	32.41	467.08	63.89	163.38	85.58
50602	69.60	-20.93	-10.50	81.00	33.42	452.04	35.91	232.11	113.61	172.60	41.48	459.66	75.87	179.99	106.96
50603	68.10	-20.23	-10.50	70.78	38.38	446.68	38.07	224.66	132.39	172.41	52.16	450.54	87.51	197.24	132.09
50604	66.66	-19.42	-10.50	60.17	42.74	440.25	38.34	215.55	151.01	171.98	64.22	439.96	98.89	215.31	161.28
50605	65.28	-18.52	-10.50	50.34	45.79	432.78	36.99	204.77	168.95	172.16	77.49	428.55	110.35	235.12	195.06
50606	63.97	-17.51	-10.50	42.78	46.97	424.62	35.13	192.74	185.58	174.49	92.12	417.34	122.87	258.56	234.57
50607	62.74	-16.41	-10.50	38.45	46.63	416.50	34.54	180.51	200.52	182.32	109.22	407.71	138.61	288.14	282.31
50608	61.59	-15.22	-10.50	37.16	46.85	409.40	36.70	169.46	214.16	199.48	132.16	400.94	162.80	325.17	342.19
50609	60.53	-13.96	-10.50	40.34	51.17	403.54	42.42	160.27	227.67	241.09	169.04	399.67	205.47	368.68	417.04
50610	59.56	-12.62	-10.50	48.10	64.54	398.44	55.06	151.83	240.84	299.18	241.08	409.10	285.97	415.63	506.77
50611	58.70	-11.21	-10.50	103.30	98.02	390.73	102.05	144.27	251.23	602.26	395.81	465.77	534.11	506.08	612.30
50612	57.94	-9.75	-10.50	332.67	118.48	385.65	177.64	144.24	256.03	1923.14	400.92	604.78	925.23	727.85	698.82
50613	77.58	-23.55	-10.50	134.93	5.78	407.55	5.08	235.73	12.21	167.79	5.87	421.80	9.07	97.61	10.09
50614	75.85	-23.42	-10.50	129.83	7.62	402.57	14.13	235.10	27.94	169.01	7.66	421.90	20.71	109.49	17.95
50615	74.13	-23.17	-10.50	122.91	10.39	396.45	22.90	233.21	45.14	169.07	11.15	421.44	33.35	125.57	29.50
50616	72.44	-22.78	-10.50	115.10	14.56	391.46	30.59	230.26	62.70	168.47	17.07	422.53	46.04	143.96	44.63
50617	70.78	-22.28	-10.50	105.93	19.46	387.05	36.81	226.44	80.49	166.69	24.99	424.24	58.51	163.91	63.79
50618	69.16	-21.65	-10.50	94.95	24.85	382.14	41.15	221.45	98.24	162.96	34.82	425.51	70.22	184.50	87.18
50619	67.59	-20.91	-10.50	82.45	30.14	376.27	43.24	215.09	115.84	157.28	46.30	426.13	80.79	205.29	115.28
50620	66.08	-20.05	-10.50	68.98	34.66	369.27	42.87	207.13	133.05	149.93	59.13	426.30	89.93	226.38	148.73
50621	64.64	-19.09	-10.50	55.56	37.74	361.21	40.21	197.39	149.48	141.54	73.02	426.54	97.60	248.53	188.69
50622	63.27	-18.02	-10.50	43.76	39.06	352.50	36.21	186.03	164.75	133.40	88.08	427.76	104.26	273.35	237.41
50623	61.98	-16.85	-10.50	35.10	39.37	343.90	32.70	173.87	178.88	127.43	105.44	431.16	111.75	302.64	298.55
50624	60.79	-15.59	-10.50	30.27	40.79	335.93	31.35	162.14	192.77	128.24	129.11	439.05	123.06	336.35	375.96
50625	59.69	-14.25	-10.50	27.77	45.96	327.99	33.10	151.50	207.69	131.20	168.29	456.93	146.34	370.15	470.17
50626	58.69	-12.83	-10.50	35.21	58.91	315.53	39.12	141.22	222.70	189.17	241.78	511.27	187.60	400.39	576.27
50627	57.80	-11.34	-10.50	16.96	101.11	298.53	55.66	126.36	233.93	64.04	439.48	652.90	255.03	416.80	688.89
50628	57.02	-9.79	-10.50	390.98	283.81	227.99	271.92	136.08	242.65	2132.41	1231.27	1442.55	1325.14	820.25	1034.58
50629	90.14	9.49	-9.50	111.65	34.16	570.05	67.01	339.43	330.65	252.37	48.77	435.07	62.61	214.73	330.94
50630	91.17	9.44	-9.50	106.04	33.89	581.44	68.23	328.04	328.47	233.54	43.36	427.12	64.54	203.05	328.89
50631	92.21	9.39	-9.50	98.00	33.93	586.56	68.03	314.80	324.63	212.18	38.97	415.40	65.33	188.80	325.22
50632	90.36	10.47	-9.50	104.53	33.92	579.41	64.79	324.54	323.40	235.01	47.89	445.10	60.18	199.49	323.84
50633	91.26	10.33	-9.50	99.71	33.79	584.52	65.90	314.71	321.04	219.41	43.21	434.37	62.26	189.38	321.59
50634	92.15	10.18	-9.50	93.40	33.98	585.20	66.12	304.07	317.63	202.47	39.35	421.24	63.63	178.15	318.32
50635	90.56	11.46	-9.50	96.43	34.82	584.04	62.03	307.64	315.60	216.22	47.22	452.62	57.85	182.40	316.21
50636	91.33	11.21	-9.50	92.91	34.71	584.40	63.13	300.18	313.77	204.41	43.46	439.92	59.90	174.93	314.44
50637	92.08	10.96	-9.50	88.62	34.71	582.26	63.69	291.87	310.94	191.51	40.13	426.15	61.74	166.48	311.71
50638	79.02	9.89													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
50667	89.64	11.74	-9.50	99.38	34.96	580.21	59.87	315.11	316.85	228.52	51.91	466.29	54.59	189.59	317.42
50668	79.10	15.28	-9.50	53.24	32.37	559.39	9.16	312.97	289.34	254.41	71.11	578.45	46.86	156.01	289.78
50669	80.40	15.20	-9.50	57.98	32.66	560.06	12.59	312.96	290.67	251.96	71.37	576.89	37.42	161.47	291.10
50670	81.67	15.07	-9.50	64.77	33.28	561.96	18.12	312.93	292.45	249.50	70.90	572.66	29.93	166.86	292.87
50671	82.92	14.90	-9.50	72.29	34.16	564.95	24.41	312.77	294.63	246.69	69.76	565.81	25.80	171.83	295.04
50672	84.16	14.67	-9.50	79.45	35.16	568.73	30.92	312.39	297.09	243.14	68.02	556.39	26.13	176.03	297.50
50673	85.36	14.40	-9.50	85.38	36.15	572.97	37.31	311.51	299.68	238.44	65.69	544.45	30.12	179.04	300.12
50674	86.54	14.08	-9.50	89.45	37.01	577.27	43.28	309.72	302.20	232.24	62.83	530.07	35.86	180.35	302.68
50675	87.69	13.72	-9.50	91.37	37.62	581.07	48.53	306.51	304.34	224.34	59.44	513.37	41.86	179.39	304.88
50676	88.81	13.31	-9.50	91.24	37.87	583.61	52.84	301.46	305.73	214.84	55.52	494.56	47.36	175.80	306.33
50677	89.90	12.86	-9.50	89.50	37.72	584.03	56.21	294.64	305.93	204.10	51.07	474.07	52.11	169.72	306.60
50678	79.12	17.07	-9.50	56.57	34.57	592.43	4.14	296.84	259.53	213.07	61.70	609.04	45.55	147.34	259.59
50679	80.44	16.99	-9.50	59.74	34.88	592.31	8.25	296.49	260.99	211.56	62.89	606.71	36.71	151.08	261.06
50680	81.75	16.84	-9.50	64.13	35.77	592.17	14.00	295.79	263.17	210.11	63.53	600.90	29.31	154.61	263.25
50681	83.04	16.62	-9.50	69.02	37.09	591.92	20.21	294.74	266.06	208.40	63.62	591.68	24.72	157.64	266.15
50682	84.30	16.34	-9.50	73.69	38.65	591.41	26.58	293.28	269.60	206.10	63.18	579.15	24.32	159.90	269.70
50683	85.54	15.99	-9.50	77.53	40.23	590.49	32.88	291.27	273.68	202.88	62.19	563.48	27.81	161.12	273.84
50684	86.74	15.58	-9.50	80.09	41.65	588.97	38.83	288.46	278.13	198.49	60.67	544.85	33.37	160.97	278.38
50685	87.91	15.11	-9.50	81.18	42.69	586.64	44.11	284.54	282.64	192.80	58.60	523.57	39.38	159.14	282.99
50686	89.05	14.58	-9.50	80.87	43.17	583.19	48.47	279.30	286.67	185.88	55.88	500.12	44.95	155.45	287.13
50687	90.14	14.00	-9.50	79.55	42.95	578.33	51.89	272.86	289.62	178.01	52.45	475.28	49.76	150.08	290.16
50688	79.13	18.88	-9.50	70.88	37.74	589.27	2.40	280.47	209.55	176.70	52.81	603.16	38.27	135.22	209.56
50689	80.47	18.79	-9.50	72.26	38.19	588.78	7.01	279.69	211.32	175.10	54.64	600.48	30.98	137.30	211.14
50690	81.81	18.61	-9.50	73.61	39.36	587.67	12.65	278.25	214.50	173.60	56.33	594.29	25.22	139.29	214.11
50691	83.13	18.35	-9.50	74.79	41.07	585.90	18.51	276.27	219.14	172.00	57.77	584.69	22.35	141.00	218.55
50692	84.42	18.01	-9.50	75.61	43.11	583.45	24.39	273.75	225.14	170.04	58.88	571.81	23.25	142.19	224.42
50693	85.68	17.59	-9.50	75.89	45.27	580.30	30.13	270.62	232.34	167.53	59.57	555.81	27.18	142.62	231.59
50694	86.92	17.09	-9.50	75.52	47.31	576.41	35.53	266.79	240.51	164.35	59.78	536.87	32.58	142.07	239.82
50695	88.11	16.51	-9.50	74.48	48.95	571.72	40.35	262.18	249.25	160.48	59.37	515.28	38.24	140.34	248.71
50696	89.26	15.87	-9.50	72.93	49.86	566.18	44.38	256.77	257.95	156.03	58.13	491.48	43.48	137.35	257.60
50697	90.36	15.15	-9.50	71.24	49.74	559.81	47.61	250.85	265.79	151.18	55.82	466.29	48.03	133.32	265.63
50698	95.25	9.56	-9.50	57.72	40.28	546.55	58.49	243.82	296.41	120.14	40.20	353.61	62.05	125.96	297.05
50699	94.64	10.65	-9.50	62.06	40.44	541.90	58.61	242.14	290.48	125.87	39.91	366.63	62.68	125.53	291.03
50700	93.97	11.69	-9.50	65.04	41.69	539.71	57.43	239.21	285.33	130.83	41.27	380.97	61.70	123.65	285.76
50701	94.24	9.48	-9.50	72.14	36.57	571.39	63.03	273.67	308.13	154.31	36.69	379.47	63.98	148.58	309.01
50702	93.82	10.42	-9.50	73.09	36.92	565.59	62.14	267.17	301.78	154.02	37.34	388.86	63.52	143.63	302.61
50703	93.36	11.34	-9.50	73.23	38.12	561.10	60.38	260.30	296.21	153.29	39.11	398.82	62.01	138.35	296.95
50704	93.23	9.40	-9.50	86.17	34.61	583.83	66.22	296.55	317.62	184.96	36.32	399.74	65.07	169.79	318.40
50705	93.00	10.21	-9.50	84.11	34.84	579.59	64.81	287.78	311.18	179.77	37.17	406.40	63.98	161.88	312.01
50706	92.75	11.00	-9.50	81.77	35.71	575.24	62.74	279.56	305.40	175.03	38.66	412.93	62.29	154.72	306.21
50707	91.38	14.37	-9.50	69.73	48.33	553.33	50.25	245.19	272.20	146.39	52.45	441.75	52.01	128.93	272.22
50708	91.10	13.39	-9.50	77.93	41.97	572.99	54.45	266.88	291.47	170.73	48.79	452.33	53.67	144.72	292.09
50709	90.81	12.43	-9.50	87.16	37.29	582.51	58.48	287.85	305.30	194.23	47.09	455.55	55.63	163.13	306.02
50710	92.31	13.54	-9.50	68.57	46.27	547.21	52.79	261.17	277.08	141.81	48.44	419.10	55.76	125.48	277.25
50711	91.93	12.78	-9.50	76.48	40.80	567.57	56.56	262.49	292.60	164.25	45.23	432.14	56.91	140.72	293.25
50712	91.55	12.03	-9.50	84.99	36.84	579.51	59.92	282.49	304.40	185.79	43.83	439.69	58.10	158.06	305.16
50713	93.19	12.66	-9.50	67.23	43.91	541.76	55.25	239.11	280.82	136.47	44.43	398.32	59.22	123.77	281.09
50714	92.73	12.13	-9.50	74.46	39.57	562.02	58.44	259.07	293.09	157.05	41.80	413.14	59.80	137.64	293.76
50715	92.26	11.61	-9.50	82.23	36.65	575.37	61.23	277.35	303.40	176.85	40.99	423.95	60.34	153.04	304.18
50716	90.14	9.49	-10.50	156.77	44.62	589.87	80.81	361.77	345.71	323.17	51.69	453.82	76.51	251.27	345.79
50717	91.17	9.44	-10.50	152.02	44.31	604.13	81.92	352.90	345.59	302.27	45.78	448.77	78.38	241.76	345.82
50718	92.21	9.39	-10.50	144.02	43.77	612.36	81.30	342.85	343.54	278.20	40.90	439.69	78.80	230.67	343.95
50719	90.36	10.47	-10.50	148.44	40.97	601.70	78.74	346.88	340.54	303.47	49.94	465.04	74.06	235.93	340.78
50720	91.26	10.33	-10.50	143.71	40.79	609.26	79.73	339.11	339.60	285.65	44.44	456.70	76.11	227.70	339.95
50721	92.15	10.18	-10.50	136.95	40.78	612.56	79.59	331.15	337.49	266.12	39.88	445.90	77.20	219.12	337.97
50722	90.56	11.46	-10.50	137.90	37.21	609.48	76.01	329.30	335.36	281.39	47.37	474.50	71.62	218.06	335.77
50723	91.33	11.21	-10.50	134.25	37.41	611.75	77.04	323.69	334.37	267.71	42.80	463.46	73.71	212.32	334.82
50724	92.08	10.96	-10.50	128.38	37.78	611.40	77.09	317.23	331.86	251.50	38.93	451.30	75.08	205.65	332.37
50725	79.02	9.89	-10.50	79.96	43.39	414.60	27.22	367.63	323.42	443.45	112.00	436.36	43.86	201.69	324.73
50726	80.15	9.88	-10.50	86.59	43.31	418.61	29.43	367.87	324.42	433.13	107.68	438.47	35.67	210.82	325.37
50727	81.29	9.86	-10.50	97.07	43.26	426.94	34.14	368.54	325.91	423.76	102.74	440.66	32.27	220.17	326.57
50728	82.41	9.83	-10.50	109.65	43.28	439.31	40.39	369.64	327.81	414.95	97.31	442.94	34.13	229.49	328.24
50729	83.53	9.80	-10.50	122.79	43.38	455.37	47.36	371.07	330.06	406.27	91.48	445.34	39.67	238.47	330.32
50730	84.65	9.76	-10.50	135.26	43.56	474.70	54.52	372.63	332.61	397.12	85.31	447.85	46.89	246.71	332.75
50731	85.76	9.71	-10.50	145.93	43.82	496.80	61.49	373.94	335.41	386.84	78.85	450.43	54.50	253.65	335.47
50732	86.87	9.66	-10.50	153.82	44.11	520.97	67.96	374.32	338.38	374.65	72.15	452.93	61.74	258.45	338.38
50733	87.97	9.60	-10.50	158.25	44.41	545.98	73.61	372.83	341.34	359.98	65.27	454.94	68.08	260.08	341.33
50734	89.07	9.54	-10.50	159.08	44.63	569.89	78.03	368.66	343.96	342.65	58.35	455.57	73.13	257.68	343.98
50735	79.05	11.68	-10.50	75.07	41.22	462.50	25.47	345.88	322.94	402.60	102.06	482.60	49.10	189.50	324.09
50736	80.25	11.64	-10.50	82.37	41.27	465.47	28.21	346.63	323.93	395.93					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
50765	79.12	17.07	-10.50	56.26	28.24	620.13	2.70	298.84	274.63	263.56	62.54	634.34	63.79	165.39	274.68
50766	80.44	16.99	-10.50	61.61	28.42	620.25	9.22	298.89	276.10	263.27	63.30	632.46	52.90	169.32	276.17
50767	81.75	16.84	-10.50	69.88	28.58	620.63	16.78	298.95	278.49	263.19	63.25	627.35	43.62	173.29	278.56
50768	83.04	16.62	-10.50	79.47	28.75	621.10	24.62	299.09	281.72	262.96	62.41	619.03	37.20	177.14	281.80
50769	84.30	16.34	-10.50	89.02	29.00	621.51	32.62	299.26	285.76	262.10	60.85	607.55	35.03	180.63	285.85
50770	85.54	15.99	-10.50	97.53	29.44	621.69	40.59	299.32	290.59	260.14	58.68	592.98	37.46	183.51	290.72
50771	86.74	15.58	-10.50	104.25	30.17	621.44	48.22	298.97	296.15	256.59	56.05	575.42	43.08	185.44	296.34
50772	87.91	15.11	-10.50	108.63	31.19	620.50	55.02	297.71	302.21	251.07	53.14	554.97	49.88	185.94	302.46
50773	89.05	14.58	-10.50	110.59	32.31	618.44	60.46	295.02	308.11	243.50	49.98	531.89	56.31	184.50	308.42
50774	90.14	14.00	-10.50	110.47	33.20	614.77	64.32	290.75	312.83	234.17	46.44	506.90	61.58	181.04	313.16
50775	79.13	18.88	-10.50	57.05	19.66	633.40	4.80	288.65	224.95	217.27	44.95	645.51	55.97	158.20	224.95
50776	80.47	18.79	-10.50	60.15	20.19	633.23	8.38	287.97	226.82	216.51	47.06	643.34	46.36	160.15	226.70
50777	81.81	18.61	-10.50	64.84	21.32	632.54	14.29	286.85	230.22	216.13	48.73	637.68	38.07	162.09	229.94
50778	83.13	18.35	-10.50	70.41	23.02	631.24	20.89	285.44	235.14	215.78	49.93	628.54	32.38	163.94	234.69
50779	84.42	18.01	-10.50	76.15	25.17	629.29	27.81	283.75	241.54	215.10	50.61	616.01	30.63	165.49	240.96
50780	85.68	17.59	-10.50	81.45	27.69	626.64	34.85	281.70	249.34	213.79	50.82	600.20	33.15	166.52	248.69
50781	86.92	17.09	-10.50	85.90	30.48	623.20	41.76	279.19	258.45	211.61	50.64	581.21	38.65	166.82	257.79
50782	88.11	16.51	-10.50	89.20	33.35	618.86	48.15	276.09	268.59	208.39	50.19	559.14	45.35	166.16	267.99
50783	89.26	15.87	-10.50	91.29	35.89	613.41	53.55	272.26	279.16	204.08	49.36	534.25	51.86	164.32	278.67
50784	90.36	15.15	-10.50	92.40	37.51	606.74	57.68	267.86	289.00	198.86	47.73	507.24	57.41	161.41	288.63
50785	95.25	9.56	-10.50	86.17	43.97	594.23	71.22	281.19	319.37	165.28	41.51	386.46	74.84	174.76	319.66
50786	94.64	10.65	-10.50	88.99	40.96	586.99	71.73	275.36	313.84	170.24	38.40	399.46	75.85	169.71	314.03
50787	93.97	11.69	-10.50	90.92	38.39	583.92	70.26	267.58	309.44	175.11	36.88	414.52	74.52	162.48	309.51
50788	94.24	9.48	-10.50	110.63	42.70	609.06	75.70	309.32	329.84	209.17	37.72	409.47	76.79	197.86	330.44
50789	93.82	10.42	-10.50	108.64	39.87	602.65	75.26	299.38	324.06	206.98	36.04	418.66	76.70	189.04	324.58
50790	93.36	11.34	-10.50	106.09	37.15	598.51	73.42	288.71	319.56	204.61	35.43	428.89	74.99	179.43	319.97
50791	93.23	9.40	-10.50	130.16	42.95	614.23	79.07	328.46	337.98	246.58	37.72	426.72	78.11	215.67	338.56
50792	93.00	10.21	-10.50	125.05	40.25	610.73	78.03	317.64	332.24	239.01	36.80	433.43	77.31	205.58	332.81
50793	92.75	11.00	-10.50	120.79	37.57	607.63	76.50	306.83	327.22	233.16	36.37	440.21	76.03	195.61	327.75
50794	91.38	14.37	-10.50	92.88	37.77	599.48	60.78	263.68	296.83	193.35	45.02	480.36	62.02	158.13	296.58
50795	91.10	13.39	-10.50	109.40	33.69	610.06	66.89	286.54	315.68	225.28	42.86	483.40	65.61	177.22	316.04
50796	90.81	12.43	-10.50	124.51	34.04	612.66	72.01	308.45	327.62	254.71	44.23	480.98	68.83	197.46	328.13
50797	92.31	13.54	-10.50	93.17	37.31	592.34	63.87	261.78	302.16	187.97	41.43	455.47	66.52	156.53	302.02
50798	91.93	12.78	-10.50	108.41	34.24	604.89	69.09	284.28	317.01	217.46	39.46	462.73	69.09	175.18	317.36
50799	91.55	12.03	-10.50	122.45	34.64	610.83	73.39	305.01	327.15	244.82	40.59	465.84	71.32	194.19	327.64
50800	93.19	12.66	-10.50	92.51	37.24	586.22	67.19	263.03	305.56	181.53	38.17	433.07	71.04	158.03	305.50
50801	92.73	12.13	-10.50	106.25	35.36	599.66	71.23	283.83	317.27	208.58	36.59	443.55	72.41	174.92	317.61
50802	92.26	11.61	-10.50	119.11	35.55	607.88	74.28	301.93	326.01	233.84	37.54	451.05	73.26	191.13	326.50
50803	66.72	9.54	-9.50	130.03	35.35	575.84	56.38	342.30	316.85	646.23	85.61	425.55	189.46	220.36	317.52
50804	65.70	9.48	-9.50	134.81	35.99	587.72	56.93	329.76	314.30	703.47	77.99	430.10	207.69	251.91	314.04
50805	64.67	9.42	-9.50	141.19	36.80	594.42	57.47	314.82	310.21	772.95	69.50	433.39	229.39	289.63	310.88
50806	66.45	10.61	-9.50	118.49	36.50	584.75	53.25	324.10	310.94	584.37	64.11	434.75	199.05	226.16	310.67
50807	65.57	10.44	-9.50	122.16	37.32	589.72	54.34	313.72	308.35	634.22	59.06	433.07	216.42	252.64	308.14
50808	64.70	10.26	-9.50	127.19	38.42	591.44	55.75	302.21	304.75	692.86	53.51	430.94	236.96	283.79	306.29
50809	66.23	11.64	-9.50	105.52	39.12	587.52	50.09	304.75	304.54	515.71	46.67	440.68	201.62	227.77	304.13
50810	65.49	11.36	-9.50	108.74	39.50	587.94	51.62	297.22	302.53	559.66	45.07	434.49	218.19	249.30	303.08
50811	64.76	11.07	-9.50	113.45	40.44	586.47	53.23	288.57	299.64	612.49	42.82	428.70	235.34	275.98	302.39
50812	77.85	9.97	-9.50	64.03	35.13	407.64	21.79	368.00	317.51	380.65	100.63	429.55	46.75	170.44	319.66
50813	76.67	10.05	-9.50	66.97	34.94	414.98	24.96	367.40	316.89	390.61	101.82	428.69	58.70	162.14	319.59
50814	75.51	10.06	-9.50	73.42	34.81	425.18	29.40	367.69	316.65	403.49	102.86	426.50	71.31	155.80	319.93
50815	74.38	10.03	-9.50	81.91	34.73	438.52	34.25	368.27	316.66	418.94	103.43	423.80	84.46	151.52	320.50
50816	73.25	9.99	-9.50	91.18	34.66	454.84	39.06	368.74	316.87	437.26	103.39	421.02	98.09	149.69	321.20
50817	72.15	9.93	-9.50	100.24	34.61	473.74	43.55	368.70	317.23	458.99	102.64	418.56	112.18	150.82	321.88
50818	71.04	9.86	-9.50	108.42	34.59	494.67	47.53	367.64	317.67	484.86	101.08	416.88	126.69	155.41	322.36
50819	69.95	9.78	-9.50	115.33	34.62	516.75	50.89	364.96	318.07	515.73	98.63	416.53	141.57	164.02	322.43
50820	68.86	9.70	-9.50	120.95	34.75	538.76	53.50	360.03	318.26	552.48	95.21	417.92	156.86	177.24	321.81
50821	67.78	9.62	-9.50	125.68	35.01	559.09	55.32	352.46	317.97	596.13	90.71	421.11	172.69	195.87	320.24
50822	77.80	11.83	-9.50	58.93	33.57	457.90	20.51	348.23	313.89	340.45	90.80	478.39	50.92	163.83	315.70
50823	76.52	11.99	-9.50	61.85	33.35	468.35	23.17	346.63	312.82	345.21	90.15	480.88	64.02	156.35	314.96
50824	75.28	12.02	-9.50	68.58	33.33	478.67	27.29	346.51	312.44	353.45	88.92	478.87	77.36	151.50	314.91
50825	74.08	11.96	-9.50	77.13	33.44	489.98	31.88	347.08	312.53	365.04	87.19	474.10	90.84	149.14	315.28
50826	72.91	11.84	-9.50	86.03	33.66	502.69	36.40	347.81	312.89	380.28	85.00	467.65	104.53	149.48	315.83
50827	71.77	11.69	-9.50	94.29	33.97	516.84	40.57	348.18	313.33	399.72	82.34	460.34	118.59	152.80	316.32
50828	70.65	11.50	-9.50	101.32	34.36	532.11	44.24	347.53	313.71	424.13	79.23	452.95	133.14	159.38	316.50
50829	69.56	11.29	-9.50	106.89	34.81	547.79	47.33	345.16	313.84	454.34	75.72	446.25	148.32	169.56	316.14
50830	68.48	11.07	-9.50	111.22	35.32	562.75	49.83	340.44	313.53	491.23	71.86	440.86	164.32	183.84	315.05
50831	67.42	10.82	-9.50	115.02	35.91	575.56	51.80	333.26	312.60	535.89	67.78	437.04	181.52	202.96	313.13
50832	77.79	13.61	-9.50	54.16	32.38	512.47	15.56	329.34	304.82	298.37	80.19	531.28	55.26	156.85	305.96
50833	76.48	13.75	-9.50	56.80	32.50	521.18	18.42	327.80	303.30	300.02	78.25	532.81	67.51	150.96	304.53
50834	75.20	13.76	-9.50	62.89	3										



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
50863	76.42	18.84	-9.50	68.93	39.17	587.27	9.28	279.24	209.14	180.25	48.85	596.75	53.96	131.72	209.28
50864	75.08	18.69	-9.50	68.01	40.90	585.51	14.02	277.53	211.25	183.21	47.10	588.61	62.09	131.59	211.29
50865	73.76	18.45	-9.50	67.08	43.05	583.34	18.59	275.31	215.06	187.51	45.76	577.41	70.60	133.28	214.90
50866	72.46	18.11	-9.50	66.10	45.42	580.68	22.87	272.57	220.47	193.69	45.03	563.19	79.67	137.13	220.07
50867	71.19	17.69	-9.50	65.07	47.77	577.47	26.78	269.23	227.29	202.34	45.09	546.03	89.54	143.34	226.72
50868	69.96	17.19	-9.50	64.05	49.86	573.65	30.22	265.18	235.23	214.24	46.00	526.12	100.62	152.13	234.75
50869	68.77	16.60	-9.50	63.22	51.43	569.14	33.08	260.33	243.87	230.42	47.72	503.84	113.49	163.78	243.96
50870	67.62	15.94	-9.50	62.96	52.20	563.93	35.39	254.67	252.55	252.33	50.22	479.98	129.00	178.78	253.98
50871	66.52	15.21	-9.50	63.82	51.95	558.12	37.46	248.46	260.35	282.42	53.43	455.81	148.13	197.93	264.36
50872	61.65	9.56	-9.50	182.47	44.39	566.81	69.42	235.63	282.30	1062.06	44.20	400.70	343.97	414.50	330.12
50873	62.25	10.66	-9.50	134.19	47.38	555.01	64.08	235.55	279.91	798.94	56.54	392.51	327.66	378.88	323.41
50874	62.92	11.72	-9.50	101.05	48.64	547.22	55.94	233.91	277.35	601.25	67.23	392.69	283.75	336.67	310.95
50875	62.65	9.49	-9.50	162.37	40.50	586.03	62.04	268.33	293.91	947.44	46.38	422.83	293.61	376.59	313.68
50876	63.05	10.46	-9.50	132.24	43.12	575.48	59.64	261.91	290.14	774.56	42.50	412.60	291.38	349.82	309.99
50877	63.51	11.40	-9.50	107.87	45.12	567.03	55.11	255.35	286.66	624.58	48.16	408.96	269.86	319.03	304.56
50878	63.66	9.43	-9.50	149.89	38.21	594.39	58.64	294.03	303.19	855.09	57.92	432.21	256.69	334.14	309.38
50879	63.86	10.27	-9.50	131.15	40.26	587.34	57.15	284.28	298.68	745.19	45.73	425.01	260.84	319.19	305.84
50880	64.10	11.08	-9.50	113.47	42.14	580.47	54.53	275.53	294.65	637.10	41.28	421.05	254.58	299.18	302.43
50881	65.50	14.42	-9.50	66.35	50.99	552.54	39.79	242.39	266.68	322.85	58.31	433.67	170.91	222.69	274.07
50882	65.74	13.52	-9.50	78.54	46.98	572.16	43.11	262.87	283.35	382.79	46.90	440.53	185.88	225.02	286.42
50883	66.00	12.61	-9.50	91.72	42.91	583.32	46.48	283.72	295.63	446.56	40.12	442.73	195.61	226.89	296.16
50884	64.57	13.58	-9.50	71.68	49.80	547.99	43.31	237.79	271.28	380.89	63.26	415.20	200.15	253.78	284.78
50885	64.92	12.88	-9.50	83.76	46.33	568.06	46.09	258.31	284.50	438.66	48.97	425.61	210.01	251.96	291.25
50886	65.28	12.17	-9.50	95.92	42.87	580.97	48.59	278.43	294.72	494.91	40.63	432.35	214.16	249.01	297.15
50887	63.69	12.69	-9.50	81.61	49.00	545.26	48.60	234.94	274.39	466.38	67.88	400.83	237.94	291.52	296.94
50888	64.13	12.20	-9.50	91.99	45.88	564.76	50.16	254.57	284.72	512.79	51.03	413.89	239.72	283.88	297.17
50889	64.58	11.71	-9.50	101.96	42.67	578.33	51.50	273.19	293.46	554.33	40.99	423.84	236.55	275.88	299.36
50890	66.76	9.52	-10.50	170.86	47.62	594.47	72.35	364.63	334.53	729.37	112.76	435.22	232.69	269.95	335.59
50891	65.73	9.46	-10.50	173.30	48.40	609.69	72.58	354.81	334.03	781.97	106.32	439.38	252.77	307.52	334.01
50892	64.69	9.41	-10.50	175.26	49.00	619.81	72.20	343.52	331.68	844.58	98.72	441.89	275.43	354.11	332.39
50893	66.54	10.54	-10.50	159.40	44.90	605.78	69.27	348.16	330.97	660.58	88.23	446.07	241.59	271.61	331.12
50894	65.64	10.39	-10.50	160.52	46.01	614.00	69.93	339.75	329.70	706.84	83.61	444.96	260.32	303.08	329.63
50895	64.75	10.22	-10.50	161.59	47.29	618.81	70.43	331.00	327.29	760.36	77.89	443.06	281.63	341.52	328.64
50896	66.34	11.55	-10.50	145.86	42.70	612.90	65.87	329.39	327.24	586.30	64.50	455.53	244.27	269.08	327.02
50897	65.58	11.29	-10.50	146.79	43.89	615.82	67.00	323.41	325.98	627.51	63.06	449.92	261.60	294.81	326.36
50898	64.83	11.02	-10.50	147.32	45.57	616.38	67.67	316.36	323.18	677.67	59.25	444.39	278.64	326.95	325.38
50899	77.88	9.92	-10.50	78.60	43.43	415.27	28.15	367.53	322.66	454.10	115.39	434.52	55.44	192.99	324.40
50900	76.73	9.94	-10.50	83.25	43.46	420.51	31.67	368.01	322.47	466.71	118.03	432.59	69.39	185.59	324.73
50901	75.60	9.94	-10.50	92.54	43.59	429.70	36.80	369.30	322.73	481.72	120.30	430.54	84.60	180.13	325.53
50902	74.47	9.91	-10.50	104.71	43.81	442.65	42.66	371.19	323.36	499.14	122.03	428.52	100.87	177.06	326.72
50903	73.35	9.88	-10.50	118.17	44.09	459.06	48.67	373.42	324.35	519.26	123.11	426.68	118.08	176.94	328.25
50904	72.24	9.83	-10.50	131.60	44.44	478.60	54.50	375.70	325.71	542.56	123.45	425.21	136.13	180.38	330.02
50905	71.13	9.78	-10.50	143.94	44.86	500.79	59.87	377.53	327.39	569.66	123.00	424.45	154.89	187.99	331.91
50906	70.02	9.72	-10.50	154.29	45.38	524.98	64.57	378.19	329.36	601.35	121.71	424.87	174.16	200.27	333.75
50907	68.92	9.65	-10.50	162.14	46.03	550.00	68.37	376.70	331.47	638.40	119.54	426.92	193.64	217.66	335.26
50908	67.83	9.58	-10.50	167.50	46.83	574.02	71.00	372.20	333.38	681.47	116.41	430.62	213.13	240.74	336.05
50909	77.84	11.74	-10.50	73.49	41.22	464.75	26.08	345.40	322.17	409.14	104.23	482.62	61.70	181.80	323.67
50910	76.64	11.78	-10.50	78.47	41.18	471.10	29.53	345.75	322.10	417.28	105.46	482.13	76.36	175.78	323.97
50911	75.45	11.75	-10.50	88.34	41.21	479.47	34.74	347.29	322.53	427.98	105.93	479.43	92.06	172.07	324.80
50912	74.28	11.69	-10.50	100.92	41.28	490.18	40.66	349.77	323.39	441.39	105.63	475.27	108.53	171.02	326.03
50913	73.12	11.59	-10.50	114.40	41.41	503.35	46.65	352.90	324.58	457.91	104.60	470.15	125.71	173.09	327.53
50914	71.98	11.46	-10.50	127.41	41.62	518.87	52.35	356.24	326.01	478.14	102.88	464.48	143.59	178.78	329.13
50915	70.84	11.31	-10.50	138.84	41.94	536.47	57.50	359.18	327.56	502.91	100.55	458.77	162.18	188.53	330.65
50916	69.73	11.13	-10.50	147.79	42.38	555.55	61.89	360.73	329.08	533.27	97.68	453.64	181.43	202.56	331.85
50917	68.62	10.94	-10.50	153.89	43.01	574.89	65.36	359.70	330.36	570.11	94.46	449.74	201.28	221.02	332.47
50918	67.53	10.73	-10.50	157.59	43.91	592.45	67.83	355.30	331.08	614.22	91.06	447.30	221.74	244.52	332.23
50919	77.83	13.53	-10.50	67.64	38.60	522.67	18.30	325.68	315.25	361.74	91.62	538.84	69.73	172.38	316.19
50920	76.59	13.55	-10.50	72.59	38.37	527.76	22.62	326.16	315.17	366.37	91.29	537.64	83.89	167.70	316.29
50921	75.36	13.50	-10.50	82.24	38.22	534.07	28.78	327.63	315.83	373.39	90.19	533.71	98.81	165.19	317.14
50922	74.14	13.40	-10.50	94.36	38.18	541.67	35.43	329.97	317.15	383.13	88.27	527.34	114.32	165.31	318.61
50923	72.94	13.24	-10.50	107.10	38.27	550.63	42.00	332.95	318.98	396.12	85.59	518.85	130.38	168.53	320.53
50924	71.77	13.04	-10.50	119.13	38.51	560.90	48.16	336.19	321.16	413.07	82.25	508.61	147.07	175.32	322.67
50925	70.61	12.80	-10.50	129.37	38.92	572.32	53.67	339.07	323.49	434.98	78.43	497.12	164.56	186.07	324.80
50926	69.47	12.52	-10.50	137.00	39.52	584.47	58.26	340.57	325.67	463.07	74.33	485.08	183.05	200.86	326.60
50927	68.36	12.21	-10.50	141.81	40.35	596.35	61.75	339.47	327.25	498.32	70.21	473.45	202.74	219.74	327.65
50928	67.27	11.86	-10.50	144.47	41.49	606.28	64.25	335.17	327.78	541.62	66.50	463.08	224.00	243.71	327.67
50929	77.81	15.32	-10.50	61.06	35.00	578.59	9.35	310.28	300.57	312.93	77.57	593.02	75.49	166.12	300.94
50930	76.54	15.31	-10.50	65.52	34.65	581.56	15.50	310.69	300.60	315.32	75.94	590.36	88.55	162.61	300.99
50931	75.27	15.23	-10.50	74.21	34.38	585.07	22.52	311.71	301.51	319.80	73.46	584.58	102.05	160.96	301.91

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
50961	62.93	11.71	-10.50	118.75	49.20	591.44	66.95	264.66	302.88	646.77	57.84	418.71	322.08	392.40	334.04
50962	62.66	9.49	-10.50	178.09	50.13	623.02	73.27	306.89	318.02	1001.57	70.08	434.88	338.09	468.27	338.23
50963	63.08	10.45	-10.50	152.39	49.26	612.68	71.38	296.96	314.63	826.99	52.81	429.45	333.48	421.67	333.78
50964	63.54	11.37	-10.50	132.18	47.50	605.33	67.44	286.45	312.00	677.00	46.33	430.31	311.21	375.32	328.05
50965	63.67	9.42	-10.50	176.28	49.45	624.46	71.89	327.51	326.03	918.03	86.33	441.06	302.57	410.82	332.21
50966	63.90	10.24	-10.50	159.15	48.26	618.74	70.59	316.31	322.20	805.29	66.74	438.45	304.97	384.43	328.83
50967	64.15	11.04	-10.50	143.93	46.62	613.79	68.40	305.36	318.85	694.95	52.10	438.51	297.76	354.03	325.58
50968	65.53	14.40	-10.50	94.04	42.78	599.67	51.31	262.62	292.62	371.69	52.48	468.04	211.47	252.91	298.02
50969	65.81	13.46	-10.50	112.77	41.07	611.35	56.67	285.57	310.00	439.63	41.66	467.57	228.65	258.93	312.00
50970	66.10	12.52	-10.50	129.94	41.30	614.83	61.50	307.78	320.76	510.72	45.34	462.92	238.75	264.31	321.00
50971	64.59	13.56	-10.50	98.42	44.02	594.01	55.08	260.17	297.54	429.27	57.26	447.08	240.69	288.19	308.30
50972	64.98	12.83	-10.50	116.06	42.78	607.30	59.43	282.86	311.07	494.46	43.88	451.30	252.68	290.24	316.14
50973	65.36	12.11	-10.50	132.05	42.85	613.78	63.21	304.00	320.06	557.20	45.75	452.30	257.47	290.56	321.75
50974	63.71	12.68	-10.50	105.02	46.12	590.29	60.34	260.80	300.31	513.55	60.34	430.26	277.44	333.70	319.66
50975	64.18	12.17	-10.50	120.61	45.04	603.90	63.10	281.95	310.86	566.75	45.89	438.10	281.65	329.09	321.13
50976	64.64	11.67	-10.50	134.65	44.32	612.22	65.26	300.54	318.48	614.30	47.46	443.48	280.02	322.85	323.20
50977	90.12	-9.50	-9.50	111.24	34.15	569.79	66.77	339.07	330.66	252.06	48.84	435.28	62.33	214.35	330.95
50978	91.16	-9.45	-9.50	105.72	33.90	581.31	68.03	327.75	328.46	233.29	43.46	427.30	64.32	202.76	328.89
50979	92.20	-9.40	-9.50	97.73	33.97	586.58	67.89	314.56	324.62	211.97	39.10	415.54	65.17	188.57	325.21
50980	90.31	-10.51	-9.50	104.11	33.94	579.22	64.41	324.26	323.35	234.84	48.13	446.08	59.74	199.19	323.79
50981	91.22	-10.36	-9.50	99.40	33.84	584.49	65.61	314.48	321.01	219.29	43.44	435.20	61.93	189.17	321.57
50982	92.12	-10.20	-9.50	93.17	34.06	585.31	65.91	303.88	317.62	202.38	39.57	421.90	63.40	178.00	318.32
50983	90.50	-11.51	-9.50	96.03	34.91	584.09	61.56	307.51	315.47	216.11	47.54	454.21	57.32	182.29	316.08
50984	91.27	-11.26	-9.50	92.61	34.82	584.57	62.76	300.08	313.70	204.36	43.77	441.26	59.48	174.86	314.37
50985	92.04	-10.99	-9.50	88.41	34.84	582.52	63.43	291.76	310.92	191.50	40.42	427.23	61.43	166.40	311.69
50986	79.01	-9.90	-9.50	65.49	35.33	405.81	21.08	368.38	318.68	371.70	98.66	430.74	36.91	180.39	320.31
50987	80.14	-9.89	-9.50	70.38	35.32	409.99	23.12	367.90	319.87	362.11	95.43	433.13	29.96	189.15	321.11
50988	81.26	-9.87	-9.50	77.89	35.31	418.36	27.24	367.50	321.28	352.97	91.72	435.38	26.68	197.96	322.20
50989	82.38	-9.85	-9.50	86.71	35.29	430.63	32.57	367.12	322.86	343.92	87.55	437.50	27.65	206.49	323.53
50990	83.50	-9.82	-9.50	95.66	35.26	446.43	38.46	366.60	324.56	334.55	82.98	439.45	31.82	214.31	325.04
50991	84.62	-9.78	-9.50	103.74	35.21	465.25	44.47	365.67	326.30	324.45	78.01	441.19	37.57	220.95	326.65
50992	85.73	-9.74	-9.50	110.13	35.12	486.45	50.30	363.93	328.00	313.17	72.68	442.55	43.73	225.81	328.26
50993	86.84	-9.69	-9.50	114.24	34.98	509.08	55.70	360.84	329.53	300.36	67.00	443.24	49.65	228.17	329.74
50994	87.95	-9.63	-9.50	115.74	34.76	531.80	60.42	355.83	330.68	285.84	61.01	442.72	54.90	227.27	330.88
50995	89.05	-9.56	-9.50	114.66	34.47	552.79	64.22	348.52	331.16	269.64	54.84	440.24	59.23	222.64	331.40
50996	79.03	-11.69	-9.50	60.65	33.70	453.51	20.17	349.28	315.19	335.18	89.94	476.74	40.32	172.19	316.61
50997	80.20	-11.67	-9.50	65.85	33.83	456.95	22.34	349.02	316.26	328.30	87.97	478.29	32.25	179.94	317.37
50998	81.36	-11.62	-9.50	73.69	33.99	463.80	26.48	349.00	317.54	321.72	85.43	479.02	27.30	187.90	318.42
50999	82.52	-11.55	-9.50	82.69	34.16	473.83	31.73	349.14	318.98	315.03	82.34	478.93	26.53	195.69	319.67
51000	83.67	-11.46	-9.50	91.61	34.33	486.70	37.48	349.24	320.49	307.79	78.75	478.01	29.57	202.88	321.03
51001	84.82	-11.35	-9.50	99.39	34.47	501.97	43.30	348.96	321.97	299.56	74.67	476.21	34.80	208.92	322.41
51002	85.96	-11.21	-9.50	105.22	34.55	519.01	48.89	347.80	323.27	289.88	70.10	473.41	40.77	213.13	323.65
51003	87.09	-11.06	-9.50	108.55	34.53	536.85	54.02	345.12	324.26	278.42	65.04	469.35	46.66	214.69	324.61
51004	88.20	-10.88	-9.50	109.24	34.38	554.08	58.47	340.28	324.73	265.13	59.52	463.59	51.98	212.88	325.08
51005	89.31	-10.68	-9.50	107.58	34.13	568.91	62.07	333.07	324.47	250.26	53.66	455.57	56.50	207.43	324.86
51006	79.05	-13.49	-9.50	55.84	32.41	508.47	15.38	330.16	306.41	295.45	80.67	529.76	44.46	163.64	307.37
51007	80.26	-13.45	-9.50	60.96	32.62	510.77	17.95	329.99	307.44	290.97	79.82	530.08	35.60	170.16	308.25
51008	81.47	-13.37	-9.50	68.54	32.96	515.34	22.58	330.08	308.81	286.65	78.32	528.63	29.07	176.90	309.50
51009	82.66	-13.26	-9.50	77.13	33.40	522.00	28.25	330.33	310.44	282.09	76.21	525.45	26.20	183.49	311.03
51010	83.85	-13.10	-9.50	85.48	33.89	530.48	34.32	330.54	312.20	276.86	73.52	520.53	27.56	189.50	312.73
51011	85.03	-12.91	-9.50	92.61	34.38	540.44	40.39	330.38	313.95	270.50	70.28	513.87	31.99	194.39	314.45
51012	86.19	-12.69	-9.50	97.75	34.79	551.36	46.15	329.31	315.52	262.59	66.52	505.41	37.77	197.48	316.00
51013	87.33	-12.43	-9.50	100.44	35.07	562.44	51.33	326.69	316.66	252.85	62.23	495.06	43.71	198.00	317.14
51014	88.46	-12.13	-9.50	100.66	35.14	572.51	55.73	321.92	317.09	241.30	57.42	482.68	49.16	195.33	317.61
51015	89.56	-11.80	-9.50	98.84	35.01	580.12	59.28	314.93	316.62	228.34	52.22	468.16	53.92	189.37	317.19
51016	79.08	-15.29	-9.50	53.05	32.37	559.80	10.08	312.67	289.25	253.89	71.12	578.96	47.11	155.59	289.67
51017	80.33	-15.23	-9.50	57.49	32.63	560.84	12.21	312.41	290.30	251.21	71.29	577.94	38.03	160.69	290.71
51018	81.57	-15.12	-9.50	63.97	33.21	562.90	17.43	312.23	291.87	248.65	70.80	574.20	30.57	165.86	292.27
51019	82.81	-14.96	-9.50	71.26	34.04	565.83	23.49	312.08	293.86	245.81	69.69	567.78	26.06	170.78	294.26
51020	84.03	-14.75	-9.50	78.31	35.01	569.43	29.85	311.76	296.19	242.28	67.99	558.69	25.76	175.05	296.59
51021	85.23	-14.48	-9.50	84.25	36.00	573.47	36.21	311.01	298.72	237.68	65.72	546.98	29.29	178.23	299.15
51022	86.42	-14.16	-9.50	88.46	36.89	577.58	42.23	309.38	301.26	231.63	62.92	532.70	34.86	179.78	301.74
51023	87.58	-13.80	-9.50	90.57	37.55	581.27	47.60	306.34	303.52	223.90	59.60	515.98	40.90	179.08	304.05
51024	88.72	-13.38	-9.50	90.63	37.87	583.80	52.08	301.44	305.08	214.56	55.76	497.01	46.53	175.72	305.68
51025	89.82	-12.92	-9.50	89.06	37.80	584.29	55.62	294.69	305.49	203.93	51.36	476.24	51.44	169.77	306.15
51026	79.10	-17.08	-9.50	56.51	34.54	592.59	4.12	296.63	259.39	212.77	61.70	609.31	45.70	146.97	259.45
51027	80.39	-17.01	-9.50	59.56	34.85	592.55	8.00	296.10	260.59	211.08	62.81	607.17	37.15	150.49	260.66
51028	81.67	-16.87	-9.50	63.81	35.68	592.47	13.52	295.34	262.56	209.55	63.41	601.63	29.80	153.92	262.63
51029	82.95	-16.66	-9.50	68.57	36.93	592.22	19.53	294.34	265.28	207.82	63.50	592.72	24.96	156.97	265.35
51030	84.20	-16.39	-9.50	73.16	38.43	591.69	25.78	293.01							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
51059	91.89	-12.81	-9.50	76.27	40.96	568.12	56.27	262.63	292.36	164.13	45.48	433.53	56.57	140.88	293.02
51060	91.50	-12.07	-9.50	84.74	37.00	579.92	59.56	282.52	304.24	185.73	44.15	441.25	57.68	158.13	305.00
51061	93.18	-12.67	-9.50	67.05	44.12	542.28	55.11	239.19	280.69	136.21	44.66	399.02	59.05	123.88	280.97
51062	92.70	-12.15	-9.50	74.28	39.78	562.57	58.22	259.14	292.98	156.95	42.08	414.23	59.55	137.74	293.66
51063	92.22	-11.64	-9.50	82.03	36.84	575.81	60.96	277.34	303.33	176.83	41.30	425.19	60.03	153.07	304.11
51064	90.12	-9.50	-10.50	156.24	44.51	589.52	80.52	361.13	345.66	322.79	51.73	453.93	76.17	250.61	345.76
51065	91.16	-9.45	-10.50	151.63	44.17	603.92	81.69	352.36	345.52	302.00	45.80	448.84	78.11	241.21	345.76
51066	92.20	-9.40	-10.50	143.73	43.61	612.33	81.14	342.39	343.45	278.00	40.90	439.75	78.61	230.22	343.86
51067	90.31	-10.51	-10.50	147.82	40.82	601.44	78.28	346.23	340.44	303.23	50.14	465.96	73.53	235.27	340.68
51068	91.22	-10.36	-10.50	143.26	40.63	609.18	79.38	338.55	339.52	285.50	44.58	457.48	75.71	227.16	339.87
51069	92.12	-10.20	-10.50	136.64	40.61	612.65	79.35	330.67	337.43	266.04	39.96	446.51	76.92	218.66	337.91
51070	90.50	-11.51	-10.50	137.25	37.09	609.52	75.44	328.80	335.13	281.21	47.64	476.12	70.98	217.58	335.54
51071	91.27	-11.26	-10.50	133.77	37.27	611.92	76.60	323.23	334.22	267.63	43.01	464.83	73.21	211.90	334.67
51072	92.04	-10.99	-10.50	128.06	37.65	611.68	76.77	316.80	331.77	251.51	39.09	452.40	74.72	205.25	332.29
51073	79.01	-9.90	-10.50	79.63	43.41	414.79	27.34	367.41	323.43	442.60	111.79	436.62	43.86	201.78	324.72
51074	80.14	-9.89	-10.50	85.90	43.31	418.98	29.56	367.36	324.64	432.24	107.39	438.90	35.77	210.40	325.57
51075	81.26	-9.87	-10.50	96.11	43.27	427.29	34.17	367.86	326.23	422.83	102.47	441.18	32.32	219.45	326.88
51076	82.38	-9.85	-10.50	108.50	43.31	439.51	40.25	368.86	328.15	414.01	97.11	443.48	33.98	228.61	328.58
51077	83.50	-9.82	-10.50	121.56	43.42	455.34	47.07	370.26	330.37	405.31	91.35	445.85	39.32	237.53	330.64
51078	84.62	-9.78	-10.50	134.01	43.60	474.46	54.12	371.81	332.87	396.19	85.24	448.30	46.41	245.76	333.01
51079	85.73	-9.74	-10.50	144.75	43.85	496.40	61.04	373.13	335.59	385.96	78.84	450.80	53.97	252.73	335.66
51080	86.84	-9.69	-10.50	152.77	44.12	520.47	67.51	373.53	338.48	373.88	72.18	453.23	61.20	257.58	338.50
51081	87.95	-9.63	-10.50	157.37	44.38	545.47	73.18	372.09	341.39	359.33	65.32	455.17	67.59	259.28	341.39
51082	89.05	-9.56	-10.50	158.38	44.57	569.43	77.67	367.99	343.95	342.14	58.40	455.73	72.70	256.98	343.99
51083	79.03	-11.69	-10.50	74.76	41.21	462.92	25.40	345.61	322.91	401.92	101.89	483.17	49.44	189.41	324.00
51084	80.20	-11.67	-10.50	81.52	41.27	466.40	28.02	345.87	324.04	395.04	98.86	484.70	40.00	197.24	324.86
51085	81.36	-11.62	-10.50	92.32	41.34	473.26	33.06	346.94	325.59	388.90	95.22	485.54	34.55	205.73	326.20
51086	82.52	-11.55	-10.50	105.19	41.42	483.32	39.47	348.77	327.48	383.08	91.04	485.75	34.12	214.56	327.93
51087	83.67	-11.46	-10.50	118.46	41.49	496.37	46.47	351.20	329.62	377.07	86.38	485.36	38.02	223.34	329.96
51088	84.82	-11.35	-10.50	130.80	41.53	512.13	53.56	353.93	331.94	370.26	81.27	484.41	44.39	231.58	332.20
51089	85.96	-11.21	-10.50	141.01	41.51	530.22	60.35	356.43	334.31	361.89	75.74	482.92	51.62	238.60	334.52
51090	87.09	-11.06	-10.50	148.01	41.41	549.94	66.52	357.79	336.60	351.09	69.78	480.78	58.68	243.36	336.78
51091	88.20	-10.88	-10.50	151.22	41.24	569.97	71.77	356.86	338.59	337.37	63.39	477.61	64.95	244.65	338.77
51092	89.31	-10.68	-10.50	150.84	41.02	588.13	75.81	352.81	339.98	320.89	56.62	472.62	70.06	241.71	340.18
51093	79.05	-13.49	-10.50	68.93	38.72	520.90	17.58	325.75	316.02	357.73	90.80	539.30	57.20	178.53	316.74
51094	80.26	-13.45	-10.50	75.70	38.84	523.30	21.17	326.13	317.19	353.85	89.00	539.72	46.74	185.25	317.77
51095	81.47	-13.37	-10.50	86.40	38.90	527.98	27.44	327.36	318.93	350.50	86.49	538.56	39.25	192.69	319.40
51096	82.66	-13.26	-10.50	98.97	38.89	534.84	34.88	329.39	321.14	347.23	83.32	535.87	36.01	200.51	321.54
51097	83.85	-13.10	-10.50	111.73	38.77	543.70	42.70	332.03	323.72	343.50	79.55	531.69	37.46	208.31	324.08
51098	85.03	-12.91	-10.50	123.37	38.56	554.36	50.45	334.97	326.53	338.72	75.23	526.05	42.45	215.62	326.87
51099	86.19	-12.69	-10.50	132.72	38.25	566.51	57.73	337.67	329.41	332.12	70.43	518.97	49.15	221.78	329.75
51100	87.33	-12.43	-10.50	138.76	37.88	579.57	64.14	339.15	332.08	322.84	65.16	510.43	56.10	225.75	332.43
51101	88.46	-12.13	-10.50	141.05	37.49	592.39	69.34	338.21	334.14	310.56	59.42	500.23	62.36	226.32	334.51
51102	89.56	-11.80	-10.50	140.03	37.16	603.08	73.19	334.23	335.17	295.67	53.24	488.07	67.52	222.94	335.58
51103	79.08	-15.29	-10.50	62.23	35.20	577.40	7.85	310.24	301.31	311.12	78.13	593.85	63.33	170.80	301.63
51104	80.33	-15.23	-10.50	68.47	35.31	578.64	13.20	310.47	302.50	309.43	77.53	593.12	52.48	176.13	302.79
51105	81.57	-15.12	-10.50	78.27	35.28	581.05	20.75	311.34	304.39	308.11	76.11	589.93	43.63	181.99	304.67
51106	82.81	-14.96	-10.50	89.70	35.10	584.52	28.88	312.80	306.90	306.69	73.92	584.33	38.05	188.07	307.18
51107	84.03	-14.75	-10.50	101.18	34.80	588.90	37.17	314.66	309.96	304.68	71.03	576.31	36.91	194.02	310.26
51108	85.23	-14.48	-10.50	111.53	34.43	593.98	45.35	316.65	313.48	301.51	67.51	565.88	40.11	199.42	313.81
51109	86.42	-14.16	-10.50	119.74	34.08	599.53	53.09	318.31	317.35	296.54	63.47	553.06	46.07	203.74	317.72
51110	87.58	-13.80	-10.50	124.97	33.84	605.10	59.90	318.84	321.26	289.08	59.04	537.87	52.93	206.16	321.68
51111	88.72	-13.38	-10.50	126.96	33.74	609.91	65.32	317.26	324.64	278.91	54.26	520.38	59.30	205.74	325.12
51112	89.82	-12.92	-10.50	126.13	33.76	612.77	69.16	313.19	326.68	266.41	49.04	500.89	64.55	202.18	327.18
51113	79.10	-17.08	-10.50	56.20	28.20	620.33	2.85	298.69	274.50	263.46	62.55	634.70	64.01	165.09	274.56
51114	80.39	-17.01	-10.50	61.27	28.35	620.56	9.05	298.52	275.81	262.85	63.25	632.98	53.48	168.75	275.87
51115	81.67	-16.87	-10.50	69.21	28.51	620.98	16.24	298.54	278.00	262.57	63.18	628.13	44.27	172.64	278.07
51116	82.95	-16.66	-10.50	78.49	28.67	621.45	23.78	298.75	281.03	262.18	62.37	620.12	37.58	176.54	281.10
51117	84.20	-16.39	-10.50	87.81	28.90	621.83	31.58	299.03	284.87	261.21	60.84	608.98	34.89	180.15	284.96
51118	85.44	-16.04	-10.50	96.22	29.30	621.99	39.47	299.19	289.55	259.21	58.69	594.72	36.80	183.17	289.67
51119	86.65	-15.64	-10.50	102.97	29.97	621.74	47.12	298.91	295.03	255.74	56.06	577.39	42.15	185.23	295.21
51120	87.83	-15.17	-10.50	107.50	30.96	620.82	54.03	297.73	301.09	250.36	53.15	557.07	48.92	185.86	301.33
51121	88.97	-14.63	-10.50	109.66	32.10	618.82	59.64	295.10	307.10	242.97	50.01	534.00	55.45	184.54	307.40
51122	90.08	-14.04	-10.50	109.75	33.06	615.25	63.68	290.84	312.00	233.80	46.51	508.88	60.88	181.12	312.34
51123	79.12	-18.88	-10.50	57.07	19.62	633.39	4.97	288.53	224.85	217.29	44.91	645.60	56.10	158.00	224.84
51124	80.45	-18.79	-10.50	60.07	20.12	633.05	8.55	287.73	226.67	216.41	46.97	643.27	46.64	159.80	226.54
51125	81.78	-18.62	-10.50	64.67	21.24	632.31	14.20	286.61	230.05	215.95	48.65	637.60	38.38	161.73	229.76
51126	83.09	-18.37	-10.50	70.13	22.89	631.01	20.57	285.30	234.90	215.51	49.86	628.56	32.53	163.66	234.45
51127	84.38	-18.03	-10.50	75.75	24.98	629.10	27.33	283.74	241.19	214.73	50.52	616.22	30.49	165.34	240.61
51128	85.65	-17.61	-10.50	80.											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
51157	66.34	-11.46	-9.50	108.29	38.40	587.13	50.85	309.62	306.24	526.09	49.83	439.69	200.28	226.37	305.76
51158	65.57	-11.21	-9.50	111.13	38.87	588.36	52.19	301.30	304.02	568.73	47.54	434.44	216.70	248.10	304.25
51159	64.82	-10.96	-9.50	115.40	39.88	587.47	53.60	291.83	300.85	619.92	44.16	429.15	233.85	275.10	303.02
51160	77.88	-9.89	-9.50	64.30	35.32	405.90	21.72	369.00	317.72	382.22	101.37	428.11	46.38	171.99	319.84
51161	76.75	-9.88	-9.50	67.20	35.30	410.39	24.72	369.73	317.08	394.13	103.57	425.29	57.47	164.34	319.74
51162	75.61	-9.86	-9.50	73.48	35.26	419.23	29.11	370.44	316.73	407.60	105.14	422.45	69.64	157.93	319.98
51163	74.49	-9.83	-9.50	81.89	35.18	432.09	34.05	371.03	316.66	423.07	105.99	419.67	82.62	153.28	320.49
51164	73.37	-9.80	-9.50	91.20	35.09	448.52	39.01	371.33	316.83	441.11	106.08	417.11	96.25	150.97	321.18
51165	72.25	-9.76	-9.50	100.40	34.99	467.95	43.66	371.07	317.20	462.40	105.33	415.03	110.42	151.59	321.91
51166	71.14	-9.71	-9.50	108.76	34.91	489.67	47.79	369.80	317.68	487.76	103.67	413.82	125.06	155.74	322.49
51167	70.03	-9.66	-9.50	115.83	34.88	512.73	51.23	366.94	318.15	518.08	101.03	413.98	140.10	164.02	322.66
51168	68.93	-9.60	-9.50	121.55	34.94	535.80	53.88	361.85	318.41	554.31	97.33	415.91	155.52	177.06	322.13
51169	67.83	-9.54	-9.50	126.29	35.13	557.17	55.69	354.08	318.18	597.46	92.49	419.67	171.50	195.61	320.62
51170	77.85	-11.68	-9.50	59.37	33.61	453.37	20.62	349.91	314.41	343.11	91.34	474.05	50.55	164.93	316.21
51171	76.65	-11.64	-9.50	62.51	33.57	456.80	23.45	350.84	313.97	352.49	92.14	470.27	62.19	158.59	316.19
51172	75.46	-11.58	-9.50	69.15	33.58	464.00	27.65	351.86	313.82	363.40	92.19	465.86	74.67	153.68	316.48
51173	74.29	-11.50	-9.50	77.74	33.64	474.61	32.33	352.85	313.92	376.37	91.48	460.89	87.79	150.69	316.99
51174	73.13	-11.40	-9.50	86.90	33.77	488.18	36.97	353.62	314.18	392.05	89.99	455.50	101.47	150.16	317.07
51175	71.98	-11.28	-9.50	95.57	33.96	504.12	41.27	353.83	314.52	411.27	87.73	449.93	115.68	152.61	318.54
51176	70.85	-11.15	-9.50	103.02	34.22	521.72	45.05	352.94	314.81	434.99	84.73	444.56	130.46	158.50	318.19
51177	69.73	-10.99	-9.50	108.90	34.57	539.97	48.19	350.29	314.89	464.21	81.05	439.92	145.86	168.22	317.79
51178	68.62	-10.82	-9.50	113.35	35.02	557.48	50.67	345.20	314.57	499.96	76.77	436.47	162.02	182.30	316.62
51179	67.53	-10.63	-9.50	117.03	35.60	572.60	52.55	337.41	313.62	543.31	71.96	434.32	179.29	201.55	314.54
51180	77.82	-13.48	-9.50	54.51	32.37	508.21	15.90	330.71	305.85	300.92	80.86	527.26	54.94	157.63	307.01
51181	76.57	-13.42	-9.50	57.51	32.52	510.31	19.15	331.58	305.80	307.78	80.34	522.63	66.48	152.56	307.17
51182	75.34	-13.32	-9.50	63.83	32.86	515.06	23.68	332.52	306.13	316.07	79.00	516.40	78.56	148.94	307.70
51183	74.12	-13.19	-9.50	71.90	33.38	522.17	28.57	333.42	306.76	326.39	76.86	508.64	91.07	147.27	308.49
51184	72.92	-13.03	-9.50	80.30	34.04	531.23	33.32	334.10	307.58	339.47	73.99	499.48	104.02	148.06	309.36
51185	71.75	-12.83	-9.50	88.01	34.79	541.77	37.68	334.23	308.44	356.21	70.44	489.16	117.52	151.81	310.12
51186	70.59	-12.61	-9.50	94.36	35.60	553.17	41.49	333.26	309.16	377.65	66.36	478.09	131.75	158.86	310.54
51187	69.46	-12.35	-9.50	99.11	36.39	564.58	44.64	330.51	309.50	404.88	61.91	466.88	146.98	169.55	310.37
51188	68.35	-12.06	-9.50	102.53	37.13	574.87	47.14	325.39	309.18	439.02	57.30	456.23	163.53	184.36	309.40
51189	67.26	-11.74	-9.50	105.41	37.84	582.75	49.20	317.80	308.00	481.27	52.80	446.72	181.94	204.39	307.60
51190	77.80	-15.28	-9.50	51.67	32.49	559.61	9.94	313.09	288.90	257.41	70.26	576.92	57.27	150.89	289.34
51191	76.50	-15.20	-9.50	53.84	33.00	560.50	13.91	313.60	289.26	262.14	68.66	571.83	68.12	146.97	289.71
51192	75.23	-15.07	-9.50	58.81	33.90	562.66	18.83	314.00	290.15	268.18	66.29	564.05	79.22	144.35	290.56
51193	73.98	-14.90	-9.50	65.31	35.10	565.87	23.87	314.23	291.48	276.13	63.23	553.68	90.55	143.57	291.81
51194	72.74	-14.67	-9.50	72.10	36.48	569.82	28.74	314.15	293.15	286.71	59.62	540.86	102.23	145.15	293.33
51195	71.54	-14.40	-9.50	78.29	37.92	574.18	33.26	313.48	295.03	300.81	55.63	525.82	114.49	149.56	294.96
51196	70.36	-14.08	-9.50	83.31	39.25	578.54	37.25	311.80	296.91	319.46	51.46	508.99	127.69	157.19	296.52
51197	69.21	-13.72	-9.50	86.98	40.35	582.38	40.58	308.54	298.48	343.76	47.39	491.05	142.27	168.32	297.76
51198	68.09	-13.31	-9.50	89.63	41.13	585.02	43.23	303.26	299.34	374.93	43.79	473.01	158.75	183.45	298.42
51199	67.00	-12.86	-9.50	91.99	41.66	585.74	45.45	295.96	299.03	414.44	41.06	455.93	177.71	203.56	298.34
51200	77.78	-17.07	-9.50	55.09	34.87	592.57	5.73	296.91	259.22	215.14	60.11	607.91	54.95	143.65	259.23
51201	76.46	-16.99	-9.50	55.65	35.75	592.60	10.32	296.86	259.99	218.47	57.92	602.92	64.57	140.90	259.90
51202	75.15	-16.84	-9.50	57.93	37.17	592.63	15.22	296.40	261.53	222.93	55.26	594.46	74.29	139.24	261.29
51203	73.86	-16.62	-9.50	61.33	38.98	592.51	20.06	295.52	263.80	229.04	52.30	582.61	84.20	139.26	263.35
51204	72.60	-16.34	-9.50	65.14	40.97	592.09	24.74	294.17	266.76	237.47	49.29	567.53	94.47	141.48	266.05
51205	71.36	-15.99	-9.50	68.75	42.95	591.19	29.14	292.20	270.30	248.98	46.51	549.47	105.39	146.38	269.33
51206	70.16	-15.58	-9.50	71.76	44.67	589.66	33.10	289.35	274.26	264.49	44.22	528.83	117.40	154.32	273.10
51207	68.99	-15.11	-9.50	74.05	45.95	587.30	36.45	285.29	278.31	285.10	42.67	506.29	131.08	165.63	277.16
51208	67.85	-14.58	-9.50	75.88	46.61	583.87	39.16	279.78	281.90	312.16	42.12	482.91	147.12	180.75	281.21
51209	66.76	-14.00	-9.50	77.86	46.62	579.24	41.48	272.89	284.39	347.60	42.89	460.10	166.12	200.61	284.97
51210	77.77	-18.88	-9.50	69.55	38.10	589.32	4.41	280.52	209.37	178.70	51.01	602.55	46.15	133.26	209.49
51211	76.43	-18.79	-9.50	68.34	39.22	588.89	9.14	279.88	210.67	181.34	49.20	598.42	54.24	132.07	210.79
51212	75.09	-18.61	-9.50	67.30	40.97	587.85	13.93	278.48	213.41	184.74	47.49	590.81	62.57	131.99	213.41
51213	73.77	-18.35	-9.50	66.44	43.14	586.14	18.55	276.45	217.61	189.36	46.11	579.80	71.25	133.57	217.40
51214	72.48	-18.01	-9.50	65.69	45.51	583.71	22.90	273.82	223.20	195.74	45.30	565.50	80.43	137.19	222.72
51215	71.22	-17.59	-9.50	65.00	47.86	580.53	26.88	270.56	230.00	204.54	45.25	548.07	90.35	143.18	229.35
51216	69.98	-17.09	-9.50	64.34	49.95	576.57	30.38	266.55	237.78	216.57	46.04	527.78	101.41	151.78	237.19
51217	68.79	-16.51	-9.50	63.83	51.48	571.79	33.30	261.71	246.14	232.87	47.65	505.09	114.20	163.30	246.07
51218	67.64	-15.87	-9.50	63.78	52.20	566.22	35.65	256.01	254.46	254.89	50.03	480.83	129.57	178.23	255.67
51219	66.54	-15.15	-9.50	64.72	51.91	559.99	37.74	249.70	261.87	285.04	53.12	456.33	148.52	197.36	265.59
51220	61.65	-9.56	-9.50	182.60	44.25	566.72	69.38	236.13	282.28	1062.63	44.08	400.68	343.64	414.80	329.84
51221	62.26	-10.65	-9.50	134.55	47.10	555.31	64.08	236.22	280.02	800.63	55.84	392.74	327.08	378.99	322.90
51222	62.93	-11.69	-9.50	101.49	48.32	547.69	56.07	234.61	277.61	603.02	66.23	392.92	283.59	336.46	310.56
51223	62.66	-9.48	-9.50	162.61	40.33	586.15	62.00	269.11	294.04	948.29	46.71	423.01	292.82	376.70	313.48
51224	63.08	-10.42	-9.50	133.07	42.75	576.27	59.64	263.46	290.60	778.02	42.22	413.35	290.07	349.50	309.61
51225	63.54	-11.34	-9.50	109.11	44.62	568.25	55.30	257.25	287.41	629.82	46.74	409.81	269.29	318.58	304.32
51226	63.67	-9.40	-9.50	150.23	38.10	594.47	58.67								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
51255	68.93	-9.60	-10.50	162.88	46.43	548.85	68.82	377.78	331.43	640.09	121.06	425.91	193.46	219.06	335.28
51256	67.83	-9.54	-10.50	168.13	47.21	573.24	71.40	373.21	333.40	682.96	117.74	429.83	213.02	242.05	336.14
51257	77.85	-11.68	-10.50	73.78	41.22	462.67	26.04	346.26	322.23	410.36	104.35	480.60	61.73	182.54	323.67
51258	76.65	-11.64	-10.50	79.13	41.27	465.96	29.70	347.77	322.11	420.66	106.17	477.08	75.98	177.04	323.95
51259	75.46	-11.58	-10.50	89.29	41.36	473.02	35.13	349.90	322.49	432.78	107.17	473.07	91.46	173.41	324.76
51260	74.29	-11.50	-10.50	102.14	41.49	483.58	41.25	352.58	323.33	447.10	107.35	468.61	107.91	172.23	326.02
51261	73.13	-11.40	-10.50	115.88	41.67	497.27	47.40	355.68	324.52	464.16	106.70	463.82	125.18	174.12	327.58
51262	71.98	-11.28	-10.50	129.07	41.92	513.68	53.19	358.91	325.97	484.65	105.24	458.85	143.20	179.69	329.24
51263	70.85	-11.15	-10.50	140.59	42.25	532.34	58.35	361.69	327.55	509.48	103.04	454.05	161.94	189.43	330.82
51264	69.73	-10.99	-10.50	149.51	42.71	552.51	62.70	363.06	329.13	539.74	100.20	449.92	181.30	203.54	332.08
51265	68.62	-10.82	-10.50	155.49	43.34	572.88	66.08	361.83	330.46	576.32	96.88	447.01	201.18	222.14	332.73
51266	67.53	-10.63	-10.50	158.95	44.23	591.39	68.43	357.20	331.24	619.90	93.23	445.45	221.62	245.73	332.50
51267	77.82	-13.48	-10.50	67.98	38.61	520.53	18.43	326.34	315.55	363.00	91.89	536.84	69.80	172.79	316.47
51268	76.57	-13.42	-10.50	73.45	38.52	522.53	23.21	327.81	315.85	370.06	92.19	532.40	83.92	168.44	316.99
51269	75.34	-13.32	-10.50	83.62	38.47	527.27	29.69	329.92	316.79	378.83	91.55	526.54	98.88	166.01	318.17
51270	74.12	-13.19	-10.50	96.21	38.50	534.49	36.57	332.62	318.29	389.78	90.01	519.33	114.50	166.06	319.88
51271	72.92	-13.03	-10.50	109.35	38.63	543.88	43.27	335.78	320.20	403.57	87.62	510.83	130.71	169.22	321.92
51272	71.75	-12.83	-10.50	121.63	38.88	555.11	49.46	339.09	322.38	421.02	84.49	501.20	147.56	176.05	324.09
51273	70.59	-12.61	-10.50	131.94	39.28	567.78	54.92	341.97	324.62	443.20	80.78	490.73	165.18	186.94	326.14
51274	69.46	-12.35	-10.50	139.45	39.85	581.26	59.38	343.36	326.65	471.37	76.68	479.98	183.75	201.93	327.76
51275	68.35	-12.06	-10.50	144.02	40.64	594.38	62.71	342.05	328.05	506.50	72.48	469.71	203.42	221.04	328.60
51276	67.26	-11.74	-10.50	146.33	41.75	605.41	65.03	337.47	328.40	549.31	68.55	460.57	224.54	245.11	328.38
51277	77.80	-15.28	-10.50	61.34	35.03	577.12	9.50	310.69	301.03	313.95	77.91	591.75	75.63	166.27	301.39
51278	76.50	-15.20	-10.50	66.35	34.84	578.06	16.06	311.74	301.67	318.34	76.76	586.82	88.94	162.92	302.08
51279	75.23	-15.07	-10.50	75.61	34.68	580.49	23.38	313.23	303.08	324.28	74.61	579.50	102.71	161.27	303.53
51280	73.98	-14.90	-10.50	86.99	34.63	584.18	30.62	315.10	305.16	332.34	71.55	569.82	116.85	161.91	305.62
51281	72.74	-14.67	-10.50	98.72	34.81	588.86	37.55	317.26	307.82	343.19	67.77	557.86	131.42	165.45	308.21
51282	71.54	-14.40	-10.50	109.52	35.27	594.27	44.01	319.45	310.93	357.70	63.52	543.73	146.56	172.42	311.17
51283	70.36	-14.08	-10.50	118.43	36.04	600.10	49.80	321.17	314.34	376.93	59.08	527.66	162.58	183.21	314.32
51284	69.21	-13.72	-10.50	124.80	37.10	605.91	54.60	321.56	317.74	402.14	54.74	510.15	179.89	197.90	317.40
51285	68.09	-13.31	-10.50	128.60	38.37	610.92	58.16	319.64	320.51	434.38	50.88	492.13	198.92	216.62	319.94
51286	67.00	-12.86	-10.50	130.51	39.88	614.06	60.60	315.06	321.86	474.65	47.77	474.83	220.06	240.18	321.41
51287	77.78	-17.07	-10.50	55.30	28.09	620.26	5.74	299.00	274.36	264.99	61.08	633.11	75.39	161.91	274.39
51288	76.46	-16.99	-10.50	58.99	28.12	620.48	12.34	299.37	275.33	267.76	58.70	628.20	87.31	159.54	275.30
51289	75.15	-16.84	-10.50	66.13	28.32	620.97	18.92	299.72	277.22	271.90	55.41	620.09	99.42	158.52	277.09
51290	73.86	-16.62	-10.50	75.10	28.85	621.54	25.39	300.10	279.97	277.95	51.47	608.81	111.80	159.45	279.70
51291	72.60	-16.34	-10.50	84.49	29.81	622.01	31.72	300.45	283.57	286.57	47.26	594.42	124.58	162.91	283.09
51292	71.36	-15.99	-10.50	93.21	31.26	622.22	37.84	300.62	287.99	298.52	43.30	577.07	138.01	169.42	287.29
51293	70.16	-15.58	-10.50	100.55	33.15	621.99	43.54	300.27	293.17	314.73	40.14	556.95	152.46	179.38	292.27
51294	68.99	-15.11	-10.50	106.04	35.32	621.06	48.48	298.92	298.86	336.30	38.26	534.49	168.50	193.02	297.90
51295	67.85	-14.58	-10.50	109.72	37.48	619.09	52.31	296.01	304.40	364.45	37.95	510.55	186.72	210.64	303.74
51296	66.76	-14.00	-10.50	112.07	39.41	615.72	55.06	291.36	308.70	400.73	39.17	486.65	207.54	233.09	309.05
51297	77.77	-18.88	-10.50	56.06	19.80	633.48	6.60	288.77	224.81	218.99	42.48	644.64	66.04	156.42	224.84
51298	76.43	-18.79	-10.50	57.28	20.60	633.31	11.11	288.31	226.31	221.47	39.45	640.39	76.20	155.29	226.29
51299	75.09	-18.61	-10.50	60.45	22.11	632.68	16.27	287.32	229.36	225.00	36.04	632.73	86.63	155.27	229.18
51300	73.77	-18.35	-10.50	65.02	24.29	631.42	21.63	285.95	233.95	230.04	32.81	621.65	97.50	156.96	233.51
51301	72.48	-18.01	-10.50	70.27	27.04	629.48	27.02	284.26	240.02	237.15	30.56	607.21	108.94	160.82	239.29
51302	71.22	-17.59	-10.50	75.58	30.18	626.81	32.34	282.17	247.53	246.93	30.12	589.52	121.17	167.19	246.56
51303	69.98	-17.09	-10.50	80.50	33.53	623.35	37.44	279.58	256.34	260.11	31.95	568.74	134.54	176.44	255.33
51304	68.79	-16.51	-10.50	84.76	36.83	618.96	42.03	276.32	266.20	277.67	35.82	545.14	149.60	188.93	265.55
51305	67.64	-15.87	-10.50	88.36	39.70	613.55	45.84	272.26	276.48	300.90	41.00	519.34	167.09	205.12	276.85
51306	66.54	-15.15	-10.50	91.57	41.70	607.09	48.87	267.53	285.96	331.99	46.59	492.62	187.78	225.86	288.41
51307	61.65	-9.56	-10.50	185.74	52.12	612.43	77.82	278.25	307.70	1109.90	53.78	419.03	385.97	525.31	357.77
51308	62.26	-10.65	-10.50	145.13	51.59	599.15	73.72	272.58	305.16	845.06	50.51	414.08	366.37	457.12	348.37
51309	62.93	-11.69	-10.50	119.10	49.17	591.36	67.12	265.08	303.02	647.95	57.52	418.47	322.06	392.81	333.95
51310	62.66	-9.48	-10.50	178.32	50.31	622.84	73.27	307.49	318.09	1002.78	70.65	434.83	337.95	469.10	338.23
51311	63.08	-10.42	-10.50	153.00	49.38	612.64	71.50	297.74	314.74	830.23	53.30	429.41	333.36	422.73	333.74
51312	63.54	-11.34	-10.50	132.96	47.55	605.30	67.69	287.24	312.24	680.91	46.33	430.01	311.40	376.42	328.11
51313	63.67	-9.40	-10.50	176.58	49.68	624.34	71.95	328.13	326.16	919.21	87.09	441.03	302.44	411.63	332.29
51314	63.90	-10.21	-10.50	159.90	48.46	618.72	70.75	317.27	322.36	808.95	67.69	438.37	304.76	385.57	328.89
51315	64.15	-11.00	-10.50	144.99	46.76	613.73	68.71	303.48	319.09	700.20	52.86	438.17	297.95	355.40	325.70
51316	65.52	-14.37	-10.50	94.79	42.97	600.37	51.62	262.92	293.40	372.80	52.70	467.70	211.48	252.89	298.73
51317	65.80	-13.39	-10.50	114.11	41.16	611.59	57.27	286.68	311.13	444.12	41.63	466.24	229.61	259.83	313.06
51318	66.09	-12.43	-10.50	131.62	41.44	614.81	62.19	309.53	321.69	517.57	46.17	461.22	239.76	265.84	321.88
51319	64.59	-13.54	-10.50	99.05	44.05	594.39	55.36	260.49	298.13	430.44	57.26	446.64	240.68	288.22	308.77
51320	64.97	-12.78	-10.50	117.21	42.81	607.48	59.92	283.89	311.87	498.87	43.72	450.34	253.45	291.22	316.82
51321	65.35	-12.03	-10.50	133.50	42.97	613.86	63.78	305.55	320.74	563.58	46.45	451.18	258.29	292.06	322.35
51322	63.71	-12.66	-10.50	105.51	46.08	590.35	60.58	261.14	300.67	514.69	60.14	429.85	277.45	333.92	319.85
51323	64.17	-12.13	-10.50	121.55	45.06	603.99	63.48	282.85	311.34	570.82	45.69	437.49	282.		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
51353	93.91	-0.55	-11.67	267.20	90.67	616.99	116.40	404.44	393.46	422.70	59.13	356.95	116.40	311.06	393.47
51354	95.14	-0.55	-11.67	257.26	93.66	651.28	118.30	397.71	395.31	386.80	66.10	358.48	118.30	301.83	395.32
51355	96.38	-0.55	-11.67	230.63	95.18	680.26	116.79	378.67	398.66	333.55	74.46	358.11	116.79	283.17	398.66
51356	97.62	-0.55	-11.67	183.77	93.10	692.44	108.81	337.53	402.54	259.64	81.19	349.73	108.81	247.82	402.55
51357	79.07	0.55	-11.67	103.44	63.32	313.03	0.81	404.40	369.30	651.15	157.00	336.61	6.37	246.47	369.31
51358	80.30	0.55	-11.67	110.31	63.12	318.63	13.19	403.85	370.70	620.28	144.80	338.48	14.29	258.10	370.70
51359	81.54	0.55	-11.67	122.71	63.67	329.68	26.99	403.35	372.48	593.59	132.53	340.31	27.42	269.37	372.48
51360	82.78	0.55	-11.67	138.73	64.94	345.68	40.52	402.93	374.62	570.57	120.28	342.12	40.73	279.96	374.62
51361	84.01	0.55	-11.67	156.76	66.84	366.03	53.53	402.60	377.06	550.74	108.16	343.91	53.65	289.62	377.06
51362	85.25	0.55	-11.67	175.66	69.27	390.07	65.79	402.42	379.74	533.56	96.39	345.68	65.86	298.13	379.74
51363	86.49	0.55	-11.67	194.60	72.07	417.21	77.04	402.43	382.53	518.50	85.23	347.43	77.08	305.31	382.53
51364	87.72	0.55	-11.67	212.96	75.06	446.90	87.04	402.71	385.27	504.96	75.05	349.13	87.07	311.00	385.27
51365	88.96	0.55	-11.67	230.17	78.13	478.65	95.62	403.32	387.77	492.25	66.32	350.77	95.64	315.04	387.77
51366	90.20	0.55	-11.67	245.52	81.19	512.00	102.74	404.25	389.85	479.42	59.65	352.34	102.75	317.29	389.85
51367	91.43	0.55	-11.67	258.01	84.27	546.50	108.47	405.30	391.39	465.10	55.79	353.85	108.48	317.60	391.39
51368	92.67	0.55	-11.67	266.09	87.43	581.68	112.99	405.86	392.48	447.25	55.51	355.36	112.99	315.73	392.48
51369	93.91	0.55	-11.67	267.21	90.69	616.98	116.38	404.45	393.51	422.72	59.16	356.95	116.38	311.07	393.51
51370	95.14	0.55	-11.67	257.27	93.67	651.27	118.28	397.73	395.35	386.81	66.11	358.49	118.28	301.84	395.35
51371	96.38	0.55	-11.67	230.63	95.17	680.26	116.77	378.68	398.69	333.55	74.45	358.11	116.77	283.19	398.69
51372	97.62	0.55	-11.67	183.77	93.08	692.44	108.79	337.54	402.56	259.64	81.17	349.73	108.79	247.83	402.56
51373	79.07	1.65	-11.67	103.59	63.22	317.98	0.95	405.51	361.85	647.94	156.34	341.23	17.73	248.30	361.90
51374	80.30	1.65	-11.67	110.49	62.99	323.48	13.29	404.98	363.25	617.66	144.26	343.09	20.19	259.81	363.29
51375	81.53	1.65	-11.67	122.90	63.49	334.35	27.09	404.51	365.08	591.44	132.08	344.93	30.07	270.98	365.10
51376	82.76	1.65	-11.67	138.89	64.69	350.12	40.62	404.12	367.29	568.82	119.89	346.76	42.15	281.48	367.30
51377	84.00	1.65	-11.67	156.85	66.57	370.19	53.66	403.82	369.86	549.28	107.83	348.59	54.53	291.05	369.86
51378	85.23	1.65	-11.67	175.62	69.01	393.94	65.96	403.65	372.69	532.29	96.09	350.41	66.47	299.48	372.69
51379	86.46	1.65	-11.67	194.39	71.87	420.77	77.24	403.65	375.68	517.31	85.01	352.20	77.56	306.57	375.68
51380	87.70	1.65	-11.67	212.54	74.98	450.13	87.25	403.88	378.66	503.77	74.97	353.95	87.43	312.14	378.65
51381	88.93	1.65	-11.67	229.49	78.16	481.52	95.76	404.40	381.41	490.99	66.49	355.61	95.87	316.05	381.41
51382	90.16	1.65	-11.67	244.60	81.28	514.46	102.71	405.21	383.71	478.07	60.10	357.16	102.76	318.18	383.71
51383	91.39	1.65	-11.67	256.90	84.29	548.50	108.16	406.14	385.40	463.69	56.40	358.61	108.18	318.40	385.40
51384	92.63	1.65	-11.67	264.84	87.21	583.18	112.32	406.61	386.49	445.82	55.95	360.00	112.32	316.48	386.50
51385	93.86	1.65	-11.67	265.95	90.10	617.96	115.34	405.19	387.34	421.39	59.07	361.42	115.34	311.89	387.35
51386	95.09	1.65	-11.67	256.17	92.64	651.82	116.91	398.62	388.76	385.78	65.34	362.76	116.91	302.89	388.77
51387	96.32	1.65	-11.67	229.88	93.76	680.58	115.16	379.94	391.33	333.01	73.08	362.22	115.17	284.63	391.35
51388	97.56	1.65	-11.67	183.72	91.59	692.84	107.20	339.49	394.02	259.94	79.57	353.76	107.25	249.92	394.03
51389	79.07	-1.65	-13.00	120.86	78.43	339.34	8.24	397.15	366.65	751.97	175.07	358.96	28.75	293.89	366.67
51390	80.30	-1.65	-13.00	129.38	78.19	344.39	16.48	396.88	367.55	716.56	161.51	360.36	29.48	302.14	367.56
51391	81.53	-1.65	-13.00	145.29	78.94	354.36	31.03	396.75	368.76	686.84	147.88	361.78	37.91	310.18	368.77
51392	82.76	-1.65	-13.00	166.14	80.68	368.85	46.06	396.79	370.27	662.29	134.28	363.24	50.31	317.80	370.28
51393	84.00	-1.65	-13.00	189.95	83.37	387.38	60.84	397.03	372.07	642.32	120.85	364.73	60.01	324.83	372.07
51394	85.23	-1.65	-13.00	215.44	86.95	409.42	75.04	397.53	374.12	626.32	107.90	366.26	76.67	331.15	374.12
51395	86.46	-1.65	-13.00	241.82	91.31	434.46	88.36	398.37	376.35	613.67	95.88	367.81	89.47	336.65	376.35
51396	87.70	-1.65	-13.00	268.63	96.30	462.04	100.55	399.65	378.66	603.76	85.38	369.39	101.32	341.25	378.66
51397	88.93	-1.65	-13.00	295.62	101.80	491.73	111.44	401.52	380.93	595.94	77.19	370.99	111.96	344.96	380.93
51398	90.16	-1.65	-13.00	322.60	107.74	523.19	121.00	404.15	383.03	589.53	72.13	372.60	121.36	347.86	383.03
51399	91.39	-1.65	-13.00	349.27	114.22	556.15	129.49	407.72	384.89	583.65	70.95	374.28	129.72	350.22	384.89
51400	92.63	-1.65	-13.00	375.00	121.52	590.46	137.40	412.34	386.64	577.15	74.23	376.15	137.52	352.54	386.64
51401	93.86	-1.65	-13.00	398.48	130.02	626.28	145.36	414.08	388.82	568.36	82.25	378.50	145.40	355.65	388.82
51402	95.09	-1.65	-13.00	416.78	139.93	664.37	154.01	424.71	392.73	554.29	94.82	382.01	153.98	360.58	392.74
51403	96.32	-1.65	-13.00	422.64	150.61	706.18	163.32	429.81	402.40	528.15	110.81	387.88	163.24	366.54	402.40
51404	97.56	-1.65	-13.00	399.54	158.43	744.39	164.77	421.32	419.80	474.41	126.12	392.40	164.65	363.22	419.80
51405	79.07	-0.55	-13.00	120.38	78.65	332.46	6.62	387.05	377.57	755.67	175.67	352.47	13.44	283.30	377.57
51406	80.30	-0.55	-13.00	128.92	78.43	337.64	15.62	386.77	378.46	719.55	162.01	353.89	18.84	291.64	378.47
51407	81.54	-0.55	-13.00	144.87	79.20	347.84	30.48	386.63	379.65	689.23	148.31	355.33	31.93	299.76	379.65
51408	82.78	-0.55	-13.00	165.77	80.95	362.65	45.58	386.65	381.12	664.21	134.64	356.79	46.38	307.45	381.12
51409	84.01	-0.55	-13.00	189.67	83.63	381.55	60.36	386.88	382.83	643.87	121.17	358.28	60.86	314.55	382.83
51410	85.25	-0.55	-13.00	215.29	87.14	403.99	74.51	387.38	384.76	627.63	108.17	359.80	74.84	320.93	384.76
51411	86.49	-0.55	-13.00	241.85	91.35	429.45	87.78	388.23	386.84	614.87	96.01	361.34	88.01	326.49	386.84
51412	87.72	-0.55	-13.00	268.92	96.13	457.45	99.96	389.55	388.96	604.97	85.27	362.91	100.12	331.19	388.96
51413	88.96	-0.55	-13.00	296.23	101.42	487.57	110.92	391.50	391.02	597.26	76.69	364.51	111.04	334.99	391.02
51414	90.20	-0.55	-13.00	323.57	107.25	519.48	120.70	394.24	392.92	591.02	71.20	366.14	120.77	338.00	392.92
51415	91.43	-0.55	-13.00	350.59	113.79	552.89	129.53	397.91	394.66	585.33	69.81	367.87	129.58	340.44	394.66
51416	92.67	-0.55	-13.00	376.64	121.38	587.67	137.87	402.63	396.41	578.99	73.33	369.80	137.89	342.82	396.41
51417	93.91	-0.55	-13.00	400.32	130.41	623.96	146.34	408.43	398.75	570.22	82.08	372.26	146.35	345.93	398.75
51418	95.14	-0.55	-13.00	418.39	141.11	662.43	155.57	414.86	403.12	555.75	95.72	375.85	155.56	350.61	403.12
51419	96.38	-0.55	-13.00	423.36	152.88	704.03	165.46	419.11	413.71	528.53	113.01	381.49	165.44	355.71	413.71
51420	97.62	-0.55	-13.00	399.14	162.00	741.46	167.57	409.39	432.89	473.51	129.79	385.36	167.54	351.22	432.89
51421	79.07	0.55	-13.00	120.40	78.66	332.46	6.67	387.05	377.57	755.75	175.69	352			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
51451	96.32	1.65	-13.00	422.64	150.71	706.17	163.28	429.83	402.47	528.14	110.94	387.88	163.20	366.57	402.47
51452	97.56	1.65	-13.00	399.53	158.49	744.38	164.73	421.35	419.84	474.39	126.20	392.40	164.61	363.25	419.84
51453	79.07	-1.65	-14.33	139.82	128.36	357.78	58.36	377.54	369.18	848.57	210.79	375.22	80.88	340.06	369.18
51454	80.30	-1.65	-14.33	150.06	128.50	362.51	60.15	377.46	369.48	807.98	198.02	376.36	78.96	343.33	369.48
51455	81.53	-1.65	-14.33	169.51	129.83	371.81	66.60	377.46	369.90	775.07	185.63	377.53	81.40	346.52	369.90
51456	82.76	-1.65	-14.33	195.21	132.38	385.34	76.42	377.55	370.44	749.19	173.80	378.73	87.63	349.54	370.44
51457	84.00	-1.65	-14.33	224.86	136.12	402.69	88.28	377.76	371.09	729.64	162.83	379.96	96.62	352.35	371.09
51458	85.23	-1.65	-14.33	257.05	141.02	423.39	101.13	378.11	371.85	715.68	153.11	381.23	107.33	354.91	371.85
51459	86.46	-1.65	-14.33	291.03	147.00	446.99	114.24	378.65	372.69	706.58	145.14	382.53	118.84	357.18	372.69
51460	87.70	-1.65	-14.33	326.53	153.93	473.06	127.10	379.44	373.59	701.68	139.39	383.87	130.49	359.16	373.59
51461	88.93	-1.65	-14.33	363.68	161.68	501.22	139.41	380.58	374.50	700.34	136.22	385.23	141.86	360.85	374.49
51462	90.16	-1.65	-14.33	402.86	170.15	531.15	151.14	382.18	375.38	702.07	135.78	386.63	152.83	362.35	375.37
51463	91.39	-1.65	-14.33	444.74	179.48	562.59	162.57	384.41	376.22	706.54	138.18	388.07	163.61	363.84	376.22
51464	92.63	-1.65	-14.33	490.22	190.13	595.36	174.32	387.50	377.11	713.81	143.71	389.61	174.80	365.72	377.11
51465	93.86	-1.65	-14.33	540.57	202.97	629.46	187.44	391.95	378.31	724.72	153.11	391.36	187.43	368.80	378.31
51466	95.09	-1.65	-14.33	597.91	219.16	665.35	203.58	398.97	380.56	741.60	167.61	393.65	203.18	374.89	380.56
51467	96.32	-1.65	-14.33	665.94	240.84	704.80	226.77	412.19	385.73	769.38	189.57	397.55	226.08	388.33	385.73
51468	97.56	-1.65	-14.33	748.05	272.71	749.31	268.76	439.33	419.22	813.82	224.98	404.20	267.93	417.69	419.22
51469	79.07	-0.55	-14.33	137.11	99.23	351.34	15.62	339.55	350.39	852.20	194.77	369.08	23.10	301.89	350.39
51470	80.30	-0.55	-14.33	147.54	98.91	356.18	21.23	339.47	350.70	810.79	180.48	370.24	26.28	305.20	350.70
51471	81.54	-0.55	-14.33	167.27	99.79	365.69	35.26	339.46	351.12	777.20	166.17	371.42	37.99	308.41	351.12
51472	82.78	-0.55	-14.33	193.25	101.89	379.52	51.04	339.55	351.64	750.75	151.96	372.65	52.65	311.46	351.64
51473	84.01	-0.55	-14.33	223.17	105.17	397.22	67.06	339.75	352.26	730.77	138.05	373.90	68.10	314.29	352.26
51474	85.25	-0.55	-14.33	255.63	109.57	418.31	82.80	340.09	352.98	716.51	124.78	375.18	83.50	316.87	352.98
51475	86.49	-0.55	-14.33	289.90	115.03	442.31	97.96	341.63	353.76	707.28	112.68	376.50	98.45	319.16	353.76
51476	87.72	-0.55	-14.33	325.78	121.52	468.79	112.34	340.43	354.57	702.38	102.49	377.85	112.69	321.17	354.57
51477	88.96	-0.55	-14.33	363.36	129.04	497.36	125.89	342.61	355.39	701.20	95.18	379.23	126.13	322.90	355.39
51478	90.20	-0.55	-14.33	403.06	137.76	527.69	138.71	344.24	356.20	703.18	91.83	380.65	138.87	324.44	356.20
51479	91.43	-0.55	-14.33	445.50	148.05	559.52	151.16	346.52	357.00	707.97	93.46	382.13	151.26	325.96	357.00
51480	92.67	-0.55	-14.33	491.55	160.50	592.68	163.90	349.66	357.88	715.58	100.83	383.71	163.95	327.87	357.88
51481	93.91	-0.55	-14.33	542.41	175.98	627.17	178.01	354.14	359.15	726.72	114.40	385.50	178.01	330.97	359.15
51482	95.14	-0.55	-14.33	599.67	195.74	663.44	195.31	361.08	361.66	743.22	134.78	387.85	195.27	336.93	361.66
51483	96.38	-0.55	-14.33	664.97	221.57	702.89	219.28	373.17	367.64	767.97	163.37	391.61	219.22	349.25	367.64
51484	97.62	-0.55	-14.33	738.87	253.56	746.50	258.37	396.31	399.68	803.96	200.31	397.44	258.29	374.63	399.68
51485	79.07	0.55	-14.33	137.14	99.26	351.34	15.68	339.56	350.39	852.28	194.80	369.08	23.16	301.89	350.39
51486	80.30	0.55	-14.33	147.59	98.99	356.18	21.37	339.47	350.70	810.88	180.53	370.24	26.43	305.20	350.70
51487	81.54	0.55	-14.33	167.34	99.92	365.69	35.40	339.47	351.12	777.28	166.25	371.43	38.16	308.41	351.12
51488	82.78	0.55	-14.33	193.33	102.07	379.52	51.19	339.55	351.65	750.84	152.08	372.65	52.82	311.46	351.65
51489	84.01	0.55	-14.33	223.25	105.40	397.22	67.20	339.75	352.27	730.85	138.22	373.90	68.26	314.29	352.27
51490	85.25	0.55	-14.33	255.70	109.85	418.31	82.94	340.10	352.99	716.59	125.02	375.18	83.66	316.87	352.99
51491	86.49	0.55	-14.33	289.97	115.37	442.31	98.09	340.64	353.77	707.35	113.01	376.50	98.60	319.17	353.77
51492	87.72	0.55	-14.33	325.83	121.89	468.79	112.47	341.45	354.59	702.44	102.92	377.85	112.83	321.17	354.59
51493	88.96	0.55	-14.33	363.41	129.44	497.36	126.01	342.61	355.41	701.25	95.71	379.23	126.26	322.90	355.41
51494	90.20	0.55	-14.33	403.10	138.17	527.69	138.82	344.25	356.22	703.22	92.43	380.65	138.99	324.44	356.22
51495	91.43	0.55	-14.33	445.52	148.44	559.52	151.25	346.52	357.01	708.00	94.08	382.13	151.35	325.96	357.01
51496	92.67	0.55	-14.33	491.57	160.86	592.69	163.98	349.66	357.90	715.60	101.40	383.71	164.03	327.87	357.90
51497	93.91	0.55	-14.33	542.42	176.30	627.17	178.07	354.15	359.17	726.73	114.88	385.50	178.07	330.97	359.17
51498	95.14	0.55	-14.33	599.67	196.01	663.44	195.36	361.08	361.67	743.22	135.17	387.85	195.32	336.93	361.67
51499	96.38	0.55	-14.33	664.96	221.79	702.90	219.32	373.17	367.65	767.97	163.67	391.61	219.25	349.25	367.65
51500	97.62	0.55	-14.33	738.86	253.75	746.50	258.40	396.31	399.69	803.96	200.55	397.44	258.31	374.63	399.69
51501	79.07	1.65	-14.33	139.90	128.44	357.78	58.43	377.54	369.18	848.84	210.86	375.22	80.94	340.06	369.18
51502	80.30	1.65	-14.33	150.21	128.68	362.51	60.34	377.47	369.49	808.25	198.16	376.36	79.14	343.34	369.49
51503	81.53	1.65	-14.33	169.70	130.14	371.81	66.88	377.47	369.92	775.34	185.85	377.53	81.68	346.53	369.92
51504	82.76	1.65	-14.33	195.42	132.81	385.34	76.77	377.57	370.46	749.46	174.13	378.73	87.99	349.55	370.46
51505	84.00	1.65	-14.33	225.08	136.69	402.69	88.67	377.77	371.12	729.89	163.29	379.97	97.04	352.36	371.12
51506	85.23	1.65	-14.33	257.27	141.73	423.40	101.54	378.12	371.88	715.91	153.75	381.24	107.76	354.92	371.88
51507	86.46	1.65	-14.33	291.23	147.83	447.00	114.66	378.66	372.73	706.80	145.97	382.54	119.28	357.19	372.73
51508	87.70	1.65	-14.33	326.71	154.87	473.06	127.51	379.45	373.64	701.87	140.41	383.87	130.92	359.17	373.64
51509	88.93	1.65	-14.33	363.83	162.69	501.22	139.81	380.59	374.55	700.50	137.41	385.23	142.27	360.86	374.55
51510	90.16	1.65	-14.33	402.98	171.21	531.15	151.51	382.19	375.43	702.19	137.09	386.63	153.20	362.35	375.43
51511	91.39	1.65	-14.33	444.83	180.53	562.59	162.89	384.41	376.27	706.63	139.53	388.08	163.93	363.84	376.27
51512	92.63	1.65	-14.33	490.27	191.11	595.36	174.60	387.51	377.16	713.87	145.01	389.61	175.08	365.73	377.16
51513	93.86	1.65	-14.33	540.60	203.84	629.46	187.66	391.96	378.35	724.75	154.28	391.36	187.66	368.81	378.35
51514	95.09	1.65	-14.33	597.91	219.91	665.35	203.76	398.98	380.59	741.60	168.59	393.65	203.36	374.90	380.59
51515	96.32	1.65	-14.33	665.93	241.46	704.79	226.91	412.20	385.75	769.35	190.36	397.55	226.21	388.34	385.75
51516	97.56	1.65	-14.33	748.02	273.26	749.31	268.86	439.34	419.23	813.78	225.64	404.20	268.02	417.70	419.23
51517	101.97	-1.65	-11.67	3.73	46.45	301.65	13.46	26.26	341.94	2.51	52.09	601.94	13.89	32.00	341.58
51518	102.02	-0.55	-11.67	3.55	42.67	302.71	11.90	12.16	353.50	1.90	43.35	596.85	11.96	21.33	353.45
51519	102.02	0.55	-11.67	3											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
51549	99.44	-1.65	-13.00	289.36	156.09	749.54	138.17	353.30	446.97	323.54	138.75	370.36	138.01	313.84	446.96
51550	99.50	-0.55	-13.00	284.40	160.04	745.84	140.02	338.01	463.73	318.08	142.84	362.88	139.97	298.65	463.73
51551	99.50	0.55	-13.00	284.39	160.07	745.83	140.02	338.01	463.73	318.08	142.86	362.88	139.97	298.66	463.73
51552	99.44	1.65	-13.00	289.33	156.09	749.53	138.14	353.32	446.98	323.51	138.75	370.36	137.96	313.87	446.97
51553	98.59	-1.65	-13.00	350.42	160.01	760.88	153.92	393.55	436.00	401.60	135.45	387.47	153.78	344.01	436.00
51554	98.65	-0.55	-13.00	348.06	164.27	757.42	156.64	380.29	451.24	398.72	139.86	379.97	156.60	330.78	451.24
51555	98.65	0.55	-13.00	348.06	164.30	757.41	156.64	380.30	451.25	398.71	139.90	379.97	156.60	330.79	451.25
51556	98.59	1.65	-13.00	350.39	160.03	760.87	153.88	393.58	436.03	401.58	135.48	387.47	153.73	344.04	436.03
51557	101.97	-1.65	-14.33	343.88	285.37	586.15	203.30	270.33	633.69	343.57	276.05	380.65	203.12	272.10	633.43
51558	102.02	-0.55	-14.33	303.70	185.03	602.73	168.74	225.01	590.95	303.35	173.74	368.25	168.73	226.90	590.92
51559	102.02	0.55	-14.33	303.69	185.20	602.73	168.73	225.01	590.96	303.35	173.92	368.25	168.72	226.91	590.92
51560	101.97	1.65	-14.33	343.87	285.76	586.15	203.29	270.33	633.70	343.56	276.46	380.65	203.10	272.11	633.43
51561	101.12	-1.65	-14.33	551.09	315.19	772.35	219.69	445.02	535.05	552.36	294.10	372.78	218.89	442.85	535.05
51562	101.18	-0.55	-14.33	503.89	282.01	769.09	182.37	382.03	509.99	504.81	258.69	365.62	182.27	379.97	509.99
51563	101.18	0.55	-14.33	503.88	282.14	769.09	182.39	382.03	509.99	504.80	258.83	365.62	182.29	379.97	509.99
51564	101.12	1.65	-14.33	551.07	315.53	772.35	219.75	445.03	535.05	552.33	294.46	372.78	218.96	442.86	535.05
51565	100.28	-1.65	-14.33	654.29	307.34	798.60	224.72	489.27	517.56	662.13	277.20	392.88	223.58	481.52	517.57
51566	100.34	-0.55	-14.33	625.86	293.10	795.58	201.17	430.00	493.44	633.15	260.03	385.58	201.04	422.33	493.45
51567	100.34	0.55	-14.33	625.85	293.23	795.58	201.20	430.00	493.44	633.14	260.18	385.58	201.07	422.33	493.45
51568	100.28	1.65	-14.33	654.25	307.72	798.59	224.82	489.28	517.56	662.09	277.61	392.88	223.68	481.53	517.57
51569	99.44	-1.65	-14.33	718.32	301.49	793.05	241.32	490.61	507.42	738.44	264.47	401.42	240.16	477.40	507.42
51570	99.50	-0.55	-14.33	702.32	284.62	790.53	224.84	436.90	482.13	721.79	243.64	394.34	224.72	423.74	482.13
51571	99.50	0.55	-14.33	702.31	284.76	790.53	224.87	436.90	482.13	721.78	243.82	394.34	224.74	423.74	482.13
51572	99.44	1.65	-14.33	718.28	301.94	793.05	241.43	490.62	507.43	738.40	264.97	401.42	240.26	477.41	507.43
51573	98.59	-1.65	-14.33	773.75	296.23	780.87	276.40	471.27	475.24	811.47	253.76	406.73	275.41	453.62	475.25
51574	98.65	-0.55	-14.33	759.75	275.95	777.77	262.40	422.57	451.57	796.74	228.61	399.45	262.31	404.93	451.57
51575	98.65	0.55	-14.33	759.74	276.12	777.77	262.43	422.57	451.57	796.73	228.81	399.45	262.33	404.93	451.57
51576	98.59	1.65	-14.33	773.71	296.73	780.87	276.49	471.28	475.25	811.43	254.34	406.73	275.50	453.63	475.26
51577	77.83	-1.65	-11.67	103.74	64.13	318.13	14.43	406.10	360.87	682.50	168.22	339.31	25.21	236.87	360.95
51578	77.83	-0.55	-11.67	103.64	64.23	313.18	14.51	405.00	368.32	686.55	169.06	334.67	16.25	234.89	368.33
51579	77.83	0.55	-11.67	103.65	64.23	313.18	14.50	405.00	368.32	686.63	169.08	334.67	16.22	234.89	368.32
51580	77.83	1.65	-11.67	103.75	64.14	318.12	14.39	406.09	360.87	682.73	168.27	339.32	25.16	236.87	360.95
51581	76.60	-1.65	-11.67	111.22	65.68	323.94	27.91	406.73	360.35	722.16	179.97	337.34	36.90	226.06	360.46
51582	76.60	-0.55	-11.67	111.15	65.81	319.09	28.01	405.62	367.75	727.00	180.98	332.66	29.27	232.92	367.76
51583	76.60	0.55	-11.67	111.14	65.82	319.09	27.99	405.61	367.74	727.07	180.99	332.66	29.22	232.92	367.75
51584	76.60	1.65	-11.67	111.18	65.71	323.93	27.87	406.71	360.33	722.38	180.01	337.34	36.79	226.04	360.44
51585	75.37	-1.65	-11.67	124.71	67.79	335.15	40.95	407.37	360.27	766.94	191.47	335.30	49.63	216.56	360.41
51586	75.36	-0.55	-11.67	124.70	67.97	330.48	41.04	406.24	367.59	772.64	192.66	330.55	42.20	214.27	367.61
51587	75.36	0.55	-11.67	124.67	67.99	330.48	41.02	406.24	367.58	772.71	192.67	330.55	42.14	214.26	367.60
51588	75.37	1.65	-11.67	124.63	67.82	335.13	40.89	407.35	360.24	767.15	191.51	335.30	49.47	216.53	360.37
51589	74.14	-1.65	-11.67	142.41	70.36	351.29	53.32	408.00	360.63	816.95	202.64	333.21	62.38	209.29	360.80
51590	74.12	-0.55	-11.67	142.49	70.61	346.87	53.39	406.84	367.84	823.59	203.99	328.39	54.57	206.87	367.86
51591	74.12	0.55	-11.67	142.45	70.63	346.86	53.36	406.83	367.83	823.66	204.00	328.39	54.49	206.86	367.84
51592	74.14	1.65	-11.67	142.31	70.40	351.27	53.24	407.96	360.57	817.15	202.67	333.21	62.18	209.26	360.74
51593	72.90	-1.65	-11.67	162.76	73.29	371.79	64.81	408.57	361.40	872.08	213.28	331.19	74.64	205.45	361.61
51594	72.89	-0.55	-11.67	162.96	73.59	367.64	64.82	407.40	368.47	879.73	214.77	326.28	66.09	202.93	368.49
51595	72.89	0.55	-11.67	162.93	73.60	367.63	64.79	407.38	368.45	879.79	214.77	326.27	66.00	202.92	368.47
51596	72.90	1.65	-11.67	162.65	73.32	371.76	64.71	408.53	361.32	872.27	213.30	331.18	74.41	205.41	361.53
51597	71.67	-1.65	-11.67	184.59	76.44	396.01	75.14	409.06	362.53	932.01	223.09	329.41	86.03	206.52	362.77
51598	71.65	-0.55	-11.67	184.98	76.75	392.17	75.08	407.87	369.42	940.65	224.64	324.40	76.47	203.98	369.45
51599	71.65	0.55	-11.67	184.94	76.77	392.16	75.04	407.86	369.39	940.71	224.65	324.39	76.37	203.97	369.41
51600	71.67	1.65	-11.67	184.49	76.45	395.98	75.03	409.02	362.43	932.18	223.09	329.39	85.77	206.48	362.66
51601	70.44	-1.65	-11.67	207.10	79.68	423.38	84.02	409.42	363.93	996.07	231.57	328.23	96.18	214.39	364.19
51602	70.41	-0.55	-11.67	207.72	79.96	419.86	83.88	408.25	370.59	1005.67	233.10	323.13	85.41	211.93	370.62
51603	70.41	0.55	-11.67	207.69	79.97	419.84	83.84	408.23	370.55	1005.73	233.10	323.12	85.31	211.92	370.58
51604	70.44	1.65	-11.67	207.00	79.66	423.35	83.91	409.38	363.81	996.22	231.56	328.21	95.90	214.35	364.07
51605	69.20	-1.65	-11.67	229.66	82.85	453.38	91.15	409.66	365.46	1063.34	237.99	328.24	104.67	231.35	365.73
51606	69.18	-0.55	-11.67	230.58	83.06	450.20	90.94	408.52	371.87	1073.78	239.36	323.09	92.64	229.10	371.90
51607	69.18	0.55	-11.67	230.55	83.06	450.19	90.90	408.51	371.82	1073.82	239.36	323.08	92.53	229.09	371.85
51608	69.20	1.65	-11.67	229.57	82.80	453.35	91.05	409.62	365.32	1063.48	237.96	328.21	104.39	231.31	365.58
51609	67.97	-1.65	-11.67	251.75	85.86	485.60	96.27	409.75	366.95	1132.71	241.33	330.36	111.12	260.09	367.20
51610	67.94	-0.55	-11.67	253.00	85.99	482.80	96.03	408.68	373.09	1143.75	242.36	325.26	97.89	258.21	373.12
51611	67.94	0.55	-11.67	252.98	85.98	482.79	96.00	408.67	373.04	1143.79	242.36	325.25	97.79	258.20	373.06
51612	67.97	1.65	-11.67	251.69	85.78	485.57	96.19	409.72	366.79	1132.82	241.29	330.33	110.85	260.06	367.04
51613	66.74	-1.65	-11.67	272.83	88.67	519.75	99.22	409.70	368.20	1203.11	240.19	336.01	115.17	303.60	368.42
51614	66.70	-0.55	-11.67	274.39	88.75	517.37	99.02	408.72	374.11	1214.41	240.66	331.15	101.00	302.25	374.14
51615	66.70	0.55	-11.67	274.38	88.73	517.36	99.00	408.71	374.06	1214.44	240.65	331.13	100.90	302.24	374.08
51616	66.74	1.65	-11.67	272.78	88.55	519.72	99.16	409.67	368.03	1203.20	240.14	335.98	114.91	303.58	368.24
51617	65.51	-1.65	-11.67	292.22											



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
51647	76.60	0.55	-13.00	131.50	81.96	337.84	32.76	387.97	376.64	847.06	202.79	349.65	35.81	267.17	376.64
51648	76.60	1.65	-13.00	131.88	81.72	344.59	33.08	398.07	365.75	841.77	201.95	356.20	48.30	277.96	365.80
51649	75.37	-1.65	-13.00	149.82	84.59	354.71	47.74	398.72	365.81	896.05	215.21	354.82	62.31	271.18	365.88
51650	75.36	-0.55	-13.00	149.48	84.89	348.19	47.42	388.60	376.63	902.57	216.23	348.22	50.12	260.28	376.64
51651	75.36	0.55	-13.00	149.45	84.88	348.19	47.36	388.59	376.62	902.65	216.23	348.22	50.01	260.28	376.63
51652	75.37	1.65	-13.00	149.72	84.61	354.70	47.62	398.70	365.78	896.29	215.24	354.82	62.10	271.17	365.85
51653	74.14	-1.65	-13.00	172.99	88.21	369.37	61.85	399.45	366.19	956.97	228.42	353.43	76.69	266.02	366.27
51654	74.12	-0.55	-13.00	172.76	88.54	363.17	61.50	389.32	376.93	964.63	229.57	346.78	64.10	255.03	376.94
51655	74.12	0.55	-13.00	172.72	88.52	363.16	61.44	389.31	376.91	964.71	229.57	346.78	63.99	255.02	376.92
51656	74.14	1.65	-13.00	172.86	88.21	369.35	61.71	399.43	366.14	957.20	228.43	353.43	76.43	266.00	366.22
51657	72.90	-1.65	-13.00	199.53	92.44	388.09	75.20	400.29	366.89	1023.71	241.46	352.05	90.95	263.38	366.99
51658	72.89	-0.55	-13.00	199.44	92.77	382.26	74.78	390.14	377.52	1032.59	242.72	345.35	77.44	252.32	377.53
51659	72.89	0.55	-13.00	199.40	92.74	382.26	74.71	390.14	377.50	1032.66	242.71	345.34	77.31	252.31	377.51
51660	72.90	1.65	-13.00	199.40	92.42	388.07	75.04	400.26	366.82	1023.92	241.46	352.04	90.65	263.35	366.93
51661	71.67	-1.65	-13.00	228.11	97.17	410.35	87.52	401.23	367.89	1095.22	254.19	350.71	104.65	264.42	368.01
51662	71.65	-0.55	-13.00	228.21	97.46	404.93	87.00	391.09	378.37	1105.31	255.49	343.94	89.80	253.35	378.38
51663	71.65	0.55	-13.00	228.17	97.42	404.92	86.93	391.08	378.34	1105.38	255.47	343.93	89.65	253.34	378.36
51664	71.67	1.65	-13.00	227.97	97.13	410.33	87.36	401.20	367.81	1095.42	254.17	350.70	104.31	264.40	367.93
51665	70.44	-1.65	-13.00	257.83	102.28	435.66	98.52	402.31	369.14	1169.78	266.33	349.46	117.36	270.65	369.28
51666	70.41	-0.55	-13.00	258.18	102.46	430.65	97.87	392.18	379.44	1181.02	267.56	342.62	100.88	259.64	379.45
51667	70.41	0.55	-13.00	258.14	102.41	430.65	97.80	392.17	379.40	1181.07	267.53	342.61	100.73	259.63	379.42
51668	70.44	1.65	-13.00	257.70	102.21	435.64	98.35	402.28	369.04	1169.96	266.28	349.45	117.01	270.62	369.18
51669	69.20	-1.65	-13.00	288.04	107.66	463.55	107.89	403.59	370.56	1244.85	277.39	348.41	128.68	283.95	370.71
51670	69.18	-0.55	-13.00	288.71	107.68	458.98	107.16	393.49	380.64	1257.04	278.42	341.50	110.41	273.10	380.66
51671	69.18	0.55	-13.00	288.68	107.61	458.97	107.09	393.48	380.60	1257.09	278.39	341.50	110.26	273.10	380.62
51672	69.20	1.65	-13.00	287.93	107.55	463.53	107.73	403.57	370.44	1245.01	277.33	348.40	128.32	283.93	370.59
51673	67.97	-1.65	-13.00	318.25	113.21	493.68	115.43	405.19	372.04	1316.98	286.71	347.76	138.22	306.73	372.19
51674	67.94	-0.55	-13.00	319.28	113.05	489.54	114.68	395.15	381.89	1329.81	287.37	340.80	118.18	296.17	381.91
51675	67.94	0.55	-13.00	319.26	112.96	489.54	114.62	395.14	381.85	1329.85	287.33	340.79	118.03	296.16	381.87
51676	67.97	1.65	-13.00	318.16	113.05	493.66	115.29	405.16	371.91	1317.11	286.63	347.74	137.86	306.71	372.06
51677	66.74	-1.65	-13.00	347.96	118.93	525.79	121.04	407.28	373.47	1381.72	293.35	347.81	145.65	341.98	373.61
51678	66.70	-0.55	-13.00	349.37	118.64	522.11	120.37	397.32	383.13	1394.69	293.44	340.85	124.10	331.82	383.15
51679	66.70	0.55	-13.00	349.34	118.54	522.11	120.31	397.32	383.09	1394.73	293.40	340.85	123.96	331.81	383.10
51680	66.74	1.65	-13.00	347.89	118.74	525.77	120.93	407.26	373.33	1381.81	293.27	347.79	145.31	341.96	373.47
51681	65.51	-1.65	-13.00	376.54	124.95	559.78	124.85	410.16	374.83	1433.73	296.12	349.17	150.75	393.40	374.96
51682	65.47	-0.55	-13.00	378.29	124.66	556.58	124.34	400.29	384.39	1446.16	295.38	342.29	128.22	383.74	384.41
51683	65.47	0.55	-13.00	378.27	124.56	556.58	124.31	400.29	384.35	1446.18	295.34	342.29	128.09	383.74	384.36
51684	65.51	1.65	-13.00	376.50	124.74	559.77	124.78	410.14	374.69	1433.79	296.03	349.16	150.45	393.38	374.82
51685	64.27	-1.65	-13.00	403.09	131.59	595.76	127.21	414.24	376.33	1467.17	293.42	352.87	153.39	465.47	376.43
51686	64.23	-0.55	-13.00	405.11	131.46	593.06	126.91	404.46	385.93	1478.18	291.56	346.21	130.77	456.39	385.95
51687	64.23	0.55	-13.00	405.10	131.36	593.06	126.88	404.45	385.89	1478.19	291.52	346.20	130.66	456.39	385.90
51688	64.27	1.65	-13.00	403.07	131.38	595.75	127.18	414.21	376.20	1467.21	293.33	352.86	153.12	465.45	376.30
51689	63.04	-1.65	-13.00	426.15	139.23	634.11	128.58	420.09	378.63	1476.77	283.09	360.66	153.52	463.42	378.72
51690	62.99	-0.55	-13.00	428.29	139.44	631.93	128.48	410.37	388.50	1485.40	279.93	354.40	132.11	454.90	388.51
51691	62.99	0.55	-13.00	428.28	139.35	631.93	128.46	410.36	388.46	1485.40	279.88	354.40	132.02	454.89	388.47
51692	63.04	1.65	-13.00	426.14	139.03	634.11	128.59	420.05	378.51	1476.78	283.00	360.64	153.31	463.39	378.60
51693	61.81	-1.65	-13.00	442.91	148.10	675.61	129.39	428.29	383.36	1460.09	262.04	374.86	151.28	462.46	383.45
51694	61.76	-0.55	-13.00	444.77	148.87	673.86	129.48	418.44	393.88	1465.65	257.77	369.22	132.64	464.17	393.89
51695	61.76	0.55	-13.00	444.78	148.79	673.86	129.48	418.43	393.85	1465.64	257.72	369.21	132.58	464.15	393.86
51696	61.81	1.65	-13.00	442.92	147.93	675.61	129.42	428.26	383.27	1460.08	261.94	374.85	151.13	462.41	383.36
51697	60.58	-1.65	-13.00	446.86	157.66	720.89	129.48	437.49	395.22	1421.95	225.66	395.92	146.70	454.03	395.31
51698	60.52	-0.55	-13.00	447.88	159.25	719.00	129.73	426.92	406.95	1424.24	221.03	390.76	132.21	445.07	406.96
51699	60.52	0.55	-13.00	447.88	159.18	719.00	129.73	426.90	406.92	1424.23	220.97	390.75	132.17	445.06	406.94
51700	60.58	1.65	-13.00	446.89	157.51	720.89	129.52	437.45	395.15	1421.92	225.54	395.91	146.60	453.97	395.24
51701	59.34	-1.65	-13.00	423.34	164.58	760.05	120.55	436.60	417.61	1378.52	166.66	406.38	132.92	403.92	417.68
51702	59.28	-0.55	-13.00	423.33	167.26	757.40	121.04	425.04	431.57	1377.31	162.71	400.96	122.85	402.16	431.59
51703	59.28	0.55	-13.00	423.34	167.20	757.40	121.04	425.03	431.56	1377.30	162.64	400.96	122.83	402.14	431.57
51704	59.34	1.65	-13.00	423.38	164.46	760.06	120.60	436.56	417.56	1378.47	166.51	406.37	132.88	403.86	417.63
51705	77.83	-1.65	-14.33	141.17	129.38	357.80	61.59	377.69	368.97	897.37	223.85	374.12	86.96	336.79	368.98
51706	77.83	-0.55	-14.33	138.47	100.72	351.35	24.89	339.71	350.18	901.94	209.05	367.95	31.15	298.59	350.18
51707	77.83	0.55	-14.33	138.47	100.70	351.35	24.84	339.71	350.18	902.03	209.05	367.95	31.10	298.59	350.18
51708	77.83	1.65	-14.33	141.17	129.35	357.80	61.53	377.69	368.97	897.64	223.86	374.12	86.90	336.79	368.97
51709	76.60	-1.65	-14.33	154.12	131.53	362.55	68.98	377.91	368.87	954.73	237.18	373.04	96.45	333.67	368.87
51710	76.60	-0.55	-14.33	151.64	103.31	356.23	39.43	339.92	350.07	960.40	223.34	366.84	44.52	295.42	350.07
51711	76.60	0.55	-14.33	151.61	103.26	356.23	39.36	339.92	350.06	960.49	223.32	366.84	44.42	295.42	350.06
51712	76.60	1.65	-14.33	154.05	131.39	362.55	68.82	377.91	368.86	954.99	237.12	373.04	96.28	333.67	368.87
51713	75.37	-1.65	-14.33	176.40	134.79	371.88	79.14	378.20	368.88	1020.76	250.82	371.98	108.41	330.88	368.89
51714	75.36	-0.55	-14.33	174.23	106.94	365.77	54.87	340.20	350.07	1027.69	237.71	365.76	59.43	292.58	350.

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
51745	65.51	-1.65	-14.33	472.72	191.81	563.43	162.31	385.40	372.69	1651.95	367.91	364.55	213.36	379.12	372.71
51746	65.47	-0.55	-14.33	473.76	163.14	560.38	149.70	347.49	353.39	1665.88	352.68	358.13	155.91	341.27	353.39
51747	65.47	0.55	-14.33	473.74	162.80	560.38	149.61	347.48	353.37	1665.90	352.52	358.13	155.73	341.27	353.37
51748	65.51	1.65	-14.33	472.67	190.87	563.43	162.03	385.39	372.63	1652.01	367.42	364.55	212.90	379.12	372.65
51749	64.27	-1.65	-14.33	514.91	202.17	596.63	168.83	388.30	373.49	1658.60	380.11	363.89	220.87	410.33	373.51
51750	64.23	-0.55	-14.33	516.40	174.33	593.97	156.64	350.43	354.21	1670.47	363.53	357.47	162.90	372.72	354.21
51751	64.23	0.55	-14.33	516.39	174.01	593.97	156.57	350.42	354.19	1670.48	363.38	357.46	162.74	372.72	354.20
51752	64.27	1.65	-14.33	514.88	201.27	596.63	168.59	388.29	373.44	1658.62	379.63	363.89	220.46	410.32	373.46
51753	63.04	-1.65	-14.33	558.77	214.30	631.38	175.72	392.81	374.76	1605.66	390.73	363.41	226.88	455.27	374.78
51754	62.99	-0.55	-14.33	560.60	187.85	629.12	163.88	354.99	355.59	1614.12	372.58	357.00	169.94	417.93	355.59
51755	62.99	0.55	-14.33	560.60	187.56	629.12	163.83	354.98	355.58	1614.12	372.43	356.99	169.80	417.93	355.58
51756	63.04	1.65	-14.33	558.78	213.47	631.38	175.52	392.79	374.71	1605.65	390.27	363.41	226.53	455.26	374.74
51757	61.81	-1.65	-14.33	606.60	229.21	668.15	184.61	400.53	377.38	1467.03	400.15	363.20	232.87	519.72	377.41
51758	61.76	-0.55	-14.33	608.19	204.86	666.28	173.28	362.65	358.55	1471.10	380.79	356.80	178.89	482.51	358.56
51759	61.76	0.55	-14.33	608.20	204.61	666.28	173.24	362.65	358.54	1471.09	380.65	356.80	178.79	482.51	358.54
51760	61.81	1.65	-14.33	606.62	228.49	668.15	184.46	400.51	377.34	1466.99	399.72	363.20	232.59	519.70	377.38
51761	60.58	-1.65	-14.33	663.62	248.96	708.42	199.84	415.51	383.53	1209.82	410.41	363.24	243.67	611.68	383.61
51762	60.52	-0.55	-14.33	662.44	227.23	706.58	188.71	376.61	365.65	1210.70	390.74	356.82	193.73	573.56	365.66
51763	60.52	0.55	-14.33	662.45	227.01	706.58	188.68	376.60	365.64	1210.68	390.60	356.82	193.66	573.56	365.66
51764	60.58	1.65	-14.33	663.66	248.33	708.42	199.72	415.49	383.50	1209.76	409.99	363.24	243.47	611.65	383.58
51765	59.34	-1.65	-14.33	736.88	278.64	752.92	234.19	445.59	419.23	800.92	425.75	363.03	272.36	737.22	419.37
51766	59.28	-0.55	-14.33	727.54	255.45	750.18	219.88	402.83	400.10	803.04	404.27	356.17	224.15	695.20	400.12
51767	59.28	0.55	-14.33	727.56	255.26	750.18	219.86	402.82	400.09	803.02	404.13	356.17	224.11	695.19	400.11
51768	59.34	1.65	-14.33	736.93	278.09	752.92	234.11	445.57	419.21	800.86	425.33	363.03	272.23	737.19	419.35
51769	54.93	-1.65	-11.67	442.25	159.29	60.87	148.09	273.84	551.03	3094.50	1236.14	3620.82	159.82	2382.05	552.48
51770	55.78	-1.65	-11.67	444.97	132.35	342.27	101.11	239.43	443.15	2898.73	778.59	1131.54	121.96	1737.74	443.29
51771	56.62	-1.65	-11.67	415.91	119.55	546.44	50.85	226.85	414.71	2576.60	534.11	403.55	69.99	1330.45	415.33
51772	57.46	-1.65	-11.67	382.14	113.29	660.10	12.54	260.14	401.28	2289.77	353.02	343.13	29.51	1138.23	401.97
51773	58.31	-1.65	-11.67	357.32	110.08	712.86	25.63	303.97	392.69	2055.37	215.35	451.80	26.73	1029.08	393.14
51774	54.88	-0.55	-11.67	444.10	155.51	41.30	153.39	276.81	569.25	3051.12	1330.56	3457.56	158.38	2299.33	569.30
51775	55.72	-0.55	-11.67	447.80	129.24	340.85	104.54	242.53	459.67	2859.99	838.61	1066.59	110.77	1682.33	459.68
51776	56.56	-0.55	-11.67	419.06	118.27	544.83	53.10	226.58	429.17	2548.33	567.94	381.02	58.61	1294.83	429.14
51777	57.40	-0.55	-11.67	384.68	113.58	659.07	11.26	257.76	414.05	2273.36	371.70	343.60	17.97	1119.04	414.06
51778	58.25	-0.55	-11.67	359.29	111.18	712.46	22.58	301.42	403.88	2048.14	226.26	452.71	23.19	1020.49	403.89
51779	54.88	0.55	-11.67	444.10	155.53	41.30	153.38	276.80	569.24	3051.10	1330.58	3457.47	158.37	2299.30	569.29
51780	55.72	0.55	-11.67	447.80	129.27	340.87	104.53	242.52	459.66	2859.98	838.63	1066.54	110.76	1682.30	459.67
51781	56.56	0.55	-11.67	419.05	118.29	544.84	53.09	226.57	429.16	2548.31	567.96	380.99	58.61	1294.80	429.13
51782	57.40	0.55	-11.67	384.68	113.58	659.08	11.26	257.74	414.04	2273.35	371.72	343.60	18.03	1119.01	414.04
51783	58.25	0.55	-11.67	359.29	111.18	712.47	22.60	301.41	403.86	2048.12	226.27	452.71	23.25	1020.46	403.88
51784	54.93	1.65	-11.67	442.24	159.34	60.87	148.06	273.83	551.00	3094.44	1236.20	3620.56	159.79	2381.96	552.46
51785	55.78	1.65	-11.67	444.96	132.39	342.31	101.07	239.41	443.12	2898.66	778.66	1131.41	121.94	1737.67	443.28
51786	56.62	1.65	-11.67	415.91	119.57	546.47	50.81	226.82	414.68	2576.55	534.17	403.47	69.99	1330.36	415.30
51787	57.46	1.65	-11.67	382.14	113.27	660.13	12.55	260.10	401.24	2289.71	353.07	343.14	29.59	1138.14	401.93
51788	58.31	1.65	-11.67	357.33	110.04	712.88	25.72	303.92	392.64	2055.32	215.37	451.81	26.84	1029.00	393.09
51789	54.93	-1.65	-13.00	41.59	81.75	343.46	11.42	38.96	491.99	153.74	291.19	1228.54	45.43	92.11	521.60
51790	55.78	-1.65	-13.00	93.65	128.20	509.36	28.66	202.22	516.36	746.98	314.83	1162.53	46.95	1110.29	520.16
51791	56.62	-1.65	-13.00	220.44	151.87	674.11	52.57	326.61	489.30	1135.99	183.91	509.54	62.58	1302.75	489.78
51792	57.46	-1.65	-13.00	315.89	162.75	747.25	79.30	386.92	464.13	1281.12	95.77	323.91	87.32	1271.91	464.15
51793	58.31	-1.65	-13.00	375.98	165.92	772.00	100.77	418.28	441.66	1342.13	104.86	376.28	109.84	1178.68	441.67
51794	54.88	-0.55	-13.00	40.92	70.13	349.90	7.44	24.71	511.82	155.20	320.49	1189.37	20.02	81.56	515.15
51795	55.72	-0.55	-13.00	92.63	121.01	507.92	24.86	189.44	536.99	737.02	331.78	1140.20	28.19	1079.80	537.25
51796	56.56	-0.55	-13.00	216.68	152.16	669.44	50.09	310.86	509.31	1130.66	190.98	498.92	51.35	1275.08	509.32
51797	57.40	-0.55	-13.00	312.39	165.77	743.50	78.25	372.74	482.66	1277.62	96.71	315.86	79.37	1251.67	482.66
51798	58.25	-0.55	-13.00	374.40	169.26	768.73	100.87	405.74	458.24	1339.02	102.40	370.15	102.21	1164.39	458.25
51799	54.88	0.55	-13.00	40.92	70.11	349.90	7.44	24.71	511.81	155.20	320.51	1189.34	20.01	81.55	515.15
51800	55.72	0.55	-13.00	92.64	120.98	507.92	24.84	189.43	536.98	737.01	331.79	1140.17	28.18	1079.78	537.24
51801	56.56	0.55	-13.00	216.69	152.13	669.44	50.08	310.85	509.30	1130.64	190.98	498.91	51.35	1275.06	509.31
51802	57.40	0.55	-13.00	312.40	165.73	743.50	78.24	372.73	482.65	1277.60	96.66	315.86	79.37	1251.65	482.65
51803	58.25	0.55	-13.00	374.41	169.21	768.72	100.87	405.72	458.23	1339.01	102.31	370.15	102.21	1164.37	458.24
51804	54.93	1.65	-13.00	41.59	81.82	343.47	11.45	38.95	491.95	153.74	291.25	1228.46	45.42	92.09	521.58
51805	55.78	1.65	-13.00	93.67	128.19	509.38	28.69	202.19	516.33	746.95	314.89	1162.45	46.94	1110.24	520.15
51806	56.62	1.65	-13.00	220.47	151.83	674.12	52.59	326.58	489.27	1135.94	183.95	509.49	62.58	1302.69	489.76
51807	57.46	1.65	-13.00	315.93	162.69	747.26	79.33	386.88	464.10	1281.06	95.72	323.90	87.32	1271.84	464.12
51808	58.31	1.65	-13.00	376.02	165.83	772.01	100.81	418.23	441.62	1342.07	104.71	376.28	109.83	1178.61	441.63
51809	54.93	-1.65	-14.33	343.71	293.00	592.86	194.15	268.31	651.24	321.83	228.46	529.55	207.81	225.32	659.31
51810	55.78	-1.65	-14.33	555.22	317.76	761.91	201.47	444.18	551.24	535.50	324.62	443.04	241.69	527.52	552.49
51811	56.62	-1.65	-14.33	651.95	309.90	785.76	195.32	495.47	530.78	318.08	376.43	392.45	243.78	812.66	530.84
51812	57.46	-1.65	-14.33	708.96	304.95	789.06	205.13	500.00	515.22	67.15	41				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
51843	100.20	2.50	-13.00	197.55	140.60	703.28	110.74	293.86	429.29	218.04	131.26	344.87	111.04	266.33	429.18
51844	100.13	3.10	-13.00	198.45	138.57	700.80	110.30	295.43	426.60	219.48	129.06	343.16	110.79	267.69	426.39
51845	99.36	2.50	-13.00	292.70	151.97	750.19	135.60	359.76	423.49	327.57	134.58	373.61	135.80	320.18	423.44
51846	99.28	3.10	-13.00	291.62	151.47	746.99	134.03	360.15	421.27	327.15	133.98	372.26	134.71	320.46	421.18
51847	98.51	2.50	-13.00	349.81	155.69	761.50	150.01	398.74	414.70	401.76	131.03	391.28	150.13	349.18	414.69
51848	98.43	3.10	-13.00	347.75	156.18	757.99	148.35	398.74	412.91	400.45	131.62	390.31	148.50	349.16	412.88
51849	101.90	2.50	-14.33	427.41	344.01	573.40	231.24	353.00	673.44	427.34	333.91	387.30	231.06	354.58	673.14
51850	101.82	3.10	-14.33	435.65	331.48	571.77	244.15	353.15	668.78	435.83	321.00	380.98	244.37	354.46	668.70
51851	101.05	2.50	-14.33	598.93	288.34	774.05	206.37	539.30	556.39	600.70	265.86	376.74	205.42	536.98	556.40
51852	100.97	3.10	-14.33	600.48	271.96	771.00	197.74	538.46	552.28	602.74	248.89	373.58	198.86	535.97	552.24
51853	100.20	2.50	-14.33	674.51	287.15	799.43	211.83	574.14	541.63	683.01	255.44	397.36	210.46	566.28	541.63
51854	100.13	3.10	-14.33	669.86	274.52	795.70	204.81	570.93	538.76	679.08	241.44	394.33	206.26	562.95	538.75
51855	99.36	2.50	-14.33	728.31	284.59	793.71	231.87	570.69	532.87	749.27	245.78	406.08	230.40	557.41	532.87
51856	99.28	3.10	-14.33	721.44	268.19	789.77	224.34	567.58	529.97	743.35	226.68	403.22	225.76	554.24	529.96
51857	98.51	2.50	-14.33	788.50	283.31	782.86	272.42	544.57	498.84	827.19	239.33	412.31	271.17	526.90	498.84
51858	98.43	3.10	-14.33	779.50	258.88	778.84	263.73	542.12	496.20	819.33	209.96	409.94	264.80	524.43	496.19
51859	97.48	2.50	-11.67	183.47	89.88	692.18	105.44	341.61	388.63	260.19	77.69	357.70	105.59	252.23	388.66
51860	97.39	3.10	-11.67	182.83	88.90	690.53	104.35	341.96	386.93	260.05	76.50	360.41	104.67	252.79	386.97
51861	96.25	2.50	-11.67	228.61	92.40	680.11	113.16	381.14	387.00	332.03	71.85	366.55	113.21	286.09	387.05
51862	96.17	3.10	-11.67	227.15	91.45	678.78	111.67	380.70	386.00	330.86	70.96	369.72	111.77	285.91	386.07
51863	95.02	2.50	-11.67	254.52	91.95	651.89	115.13	399.45	385.29	384.20	65.25	367.48	115.12	303.93	385.34
51864	94.95	3.10	-11.67	252.67	91.36	651.26	113.66	398.72	384.92	382.44	65.15	371.16	113.64	303.41	384.99
51865	93.79	2.50	-11.67	264.13	90.13	618.68	113.96	405.88	384.37	419.48	60.21	366.47	113.93	312.70	384.41
51866	93.73	3.10	-11.67	262.22	90.09	618.81	112.80	405.12	384.43	417.47	61.10	370.53	112.71	312.06	384.49
51867	92.57	2.50	-11.67	263.09	87.85	584.60	111.44	407.35	383.75	443.81	57.97	365.30	111.41	317.24	383.77
51868	92.50	3.10	-11.67	261.30	88.30	585.44	110.75	406.67	383.99	441.77	59.57	369.62	110.61	316.58	384.02
51869	91.34	2.50	-11.67	255.35	85.27	550.59	107.78	407.01	382.62	461.72	58.61	364.07	107.77	319.21	382.63
51870	91.28	3.10	-11.67	253.79	85.98	552.06	107.55	406.49	382.81	459.75	60.33	368.55	107.39	318.63	382.82
51871	90.11	2.50	-11.67	243.35	82.29	517.13	102.71	406.25	380.70	476.23	61.89	362.70	102.76	319.14	380.70
51872	90.06	3.10	-11.67	242.10	83.00	519.15	102.83	405.92	380.63	474.39	63.23	367.23	102.70	318.71	380.62
51873	88.88	2.50	-11.67	228.59	78.96	484.69	96.00	405.60	378.04	489.28	67.60	361.15	96.14	317.18	378.04
51874	88.84	3.10	-11.67	227.69	79.47	487.15	96.29	405.44	377.61	487.59	68.38	365.67	96.25	316.94	377.59
51875	87.66	2.50	-11.67	211.97	75.45	453.73	87.55	405.20	374.91	502.15	75.48	359.44	87.86	313.44	374.90
51876	87.62	3.10	-11.67	211.42	75.67	456.55	87.89	405.15	374.09	500.57	75.78	363.90	88.00	313.36	374.06
51877	86.43	2.50	-11.67	194.12	72.00	424.75	77.53	405.04	371.57	515.70	85.08	357.62	78.07	308.01	371.56
51878	86.39	3.10	-11.67	193.86	71.96	427.87	77.84	405.03	370.41	514.11	85.07	361.99	78.18	308.06	370.39
51879	85.20	2.50	-11.67	175.58	68.87	398.27	66.19	405.05	368.29	530.55	95.90	355.75	67.12	301.04	368.29
51880	85.17	3.10	-11.67	175.52	68.65	401.65	66.46	405.03	366.86	528.82	95.69	360.03	67.18	301.19	366.85
51881	83.97	2.50	-11.67	156.96	66.26	374.84	53.84	405.19	365.24	547.27	107.45	353.86	55.43	292.72	365.24
51882	83.95	3.10	-11.67	157.01	65.94	378.48	54.11	405.13	363.60	545.26	107.10	358.05	55.51	292.95	363.61
51883	82.75	2.50	-11.67	139.08	64.29	355.07	40.77	405.44	362.52	566.41	119.38	351.97	43.62	283.25	362.54
51884	82.73	3.10	-11.67	139.19	63.95	358.94	41.11	405.33	360.73	563.96	118.90	356.10	43.85	283.57	360.77
51885	81.52	2.50	-11.67	123.12	63.04	339.55	27.25	405.79	360.19	588.48	131.42	350.10	32.78	272.87	360.24
51886	81.51	3.10	-11.67	123.23	62.71	343.62	27.76	405.62	358.31	585.48	130.80	354.19	33.43	273.30	358.38
51887	80.29	2.50	-11.67	110.71	62.53	328.87	13.53	406.22	358.30	614.02	143.44	348.25	25.34	261.84	358.38
51888	80.28	3.10	-11.67	110.79	62.22	333.09	14.54	406.00	356.37	610.32	142.65	352.30	26.89	262.42	356.49
51889	79.06	2.50	-11.67	103.78	62.76	323.47	2.06	406.72	356.87	643.49	155.34	346.39	25.28	250.50	357.00
51890	79.06	3.10	-11.67	103.81	62.45	327.76	5.49	406.47	354.93	638.98	154.36	350.43	27.89	251.24	355.11
51891	97.48	2.50	-13.00	397.50	154.70	744.81	160.69	426.38	402.08	473.08	122.34	396.49	160.73	368.39	402.08
51892	97.39	3.10	-13.00	394.40	155.95	741.47	158.44	425.80	401.04	470.69	124.13	396.15	158.50	367.93	401.06
51893	96.25	2.50	-13.00	420.53	148.14	706.17	160.00	434.21	387.24	526.53	108.53	391.87	160.00	371.14	387.25
51894	96.17	3.10	-13.00	416.91	150.49	703.53	157.63	433.48	387.20	523.41	112.27	392.23	157.62	370.62	387.22
51895	95.02	2.50	-13.00	413.95	138.62	664.40	151.30	428.42	378.55	551.72	94.08	385.99	151.29	364.48	378.56
51896	94.95	3.10	-13.00	410.54	142.47	662.44	149.31	427.93	379.20	548.56	100.47	386.74	149.30	364.17	379.22
51897	93.79	2.50	-13.00	395.75	129.74	626.81	143.43	421.77	375.19	565.63	82.98	382.65	143.44	359.46	375.20
51898	93.73	3.10	-13.00	392.84	135.03	625.35	142.01	421.49	376.22	562.72	91.91	383.59	142.03	359.29	376.24
51899	92.57	2.50	-13.00	372.70	121.99	591.50	136.21	416.15	373.22	574.62	75.99	380.43	136.25	356.38	373.22
51900	92.50	3.10	-13.00	370.34	128.39	590.44	135.46	416.03	374.40	572.02	86.63	381.48	135.55	356.29	374.41
51901	91.34	2.50	-13.00	347.49	115.11	557.67	129.00	411.68	371.44	581.42	73.00	378.64	129.09	354.15	371.43
51902	91.28	3.10	-13.00	345.69	121.98	556.98	128.91	411.72	372.54	579.16	83.86	379.76	129.10	354.16	372.53
51903	90.11	2.50	-13.00	321.37	108.67	525.17	121.04	408.28	369.36	587.64	73.73	377.01	121.21	351.92	369.36
51904	90.06	3.10	-13.00	320.14	115.31	524.80	121.44	408.49	370.19	585.72	83.34	378.16	121.77	352.07	370.18
51905	88.88	2.50	-13.00	294.92	102.48	494.12	111.76	405.80	366.94	594.35	78.01	375.40	112.06	349.17	366.93
51906	88.84	3.10	-13.00	294.22	108.33	494.02	112.41	406.15	367.38	592.73	85.50	376.55	112.96	349.46	367.37
51907	87.66	2.50	-13.00	268.39	96.60	464.80	100.94	404.03	364.31	602.37	85.52	373.80	101.42	345.60	364.30
51908	87.62	3.10	-13.00	268.16	101.40	464.92	101.62	404.49	364.36	600.93	90.77	374.92	102.49	346.02	364.34
51909	86.43	2.50	-13.00	241.94	91.25	437.58	88.66	402.81	361.65	612.33	95.59	372.19	89.42	341.11	361.64
51910	86.39	3.10	-13.00	242.05	94.95	437.88	89.25	403.30	361.35	610.93	99.00	373.28	90.57	341.62	361.34
51911	85.20	2.50	-13.00	215.80	86.66	412.86									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
51941	86.43	2.50	-14.33	291.53	139.33	450.67	109.73	438.30	392.39	705.41	137.37	387.53	115.93	414.83	392.39
51942	86.39	3.10	-14.33	290.12	112.00	449.64	106.58	437.10	393.07	703.40	109.48	387.09	101.75	415.64	393.06
51943	85.20	2.50	-14.33	257.77	132.13	427.46	95.61	435.79	391.47	714.33	145.05	386.24	104.07	412.61	391.47
51944	85.17	3.10	-14.33	256.29	107.77	426.57	92.80	436.65	392.06	712.11	123.21	385.80	86.12	413.51	392.06
51945	83.97	2.50	-14.33	225.68	126.19	407.12	81.47	435.45	390.65	727.91	154.76	384.98	93.05	410.10	390.65
51946	83.95	3.10	-14.33	223.98	104.80	406.37	79.09	436.37	391.19	725.27	137.79	384.55	69.73	411.09	391.19
51947	82.75	2.50	-14.33	196.06	121.62	390.10	68.03	435.25	389.97	746.88	165.89	383.76	83.94	407.34	389.97
51948	82.73	3.10	-14.33	193.99	102.97	389.46	66.13	436.23	390.48	743.65	152.62	383.33	52.78	408.43	390.48
51949	81.52	2.50	-14.33	170.34	118.45	376.85	56.39	435.17	389.41	772.01	177.98	382.57	77.98	404.38	389.42
51950	81.51	3.10	-14.33	167.82	102.14	376.30	54.97	436.20	389.91	768.00	167.34	382.14	35.41	405.56	389.91
51951	80.29	2.50	-14.33	150.84	116.71	367.76	48.28	435.17	389.00	803.99	190.66	381.42	76.37	401.25	389.00
51952	80.28	3.10	-14.33	147.85	102.19	367.28	47.20	436.26	389.50	799.06	181.80	380.99	17.77	402.53	389.50
51953	79.06	2.50	-14.33	140.51	116.37	363.13	45.78	435.25	388.70	843.48	203.71	380.31	79.67	398.03	388.71
51954	79.06	3.10	-14.33	137.16	103.02	362.69	44.77	436.38	389.22	837.47	195.94	379.88	3.53	399.40	389.23
51955	77.84	3.10	-11.67	103.86	63.35	327.90	15.05	407.03	353.99	671.88	165.87	348.56	36.14	240.18	354.25
51956	76.62	3.10	-11.67	111.14	64.86	333.51	27.96	407.66	353.56	709.38	177.16	346.67	48.16	229.76	353.92
51957	75.39	3.10	-11.67	124.43	66.91	344.36	40.76	408.34	353.65	751.74	188.18	344.75	61.78	220.67	354.12
51958	74.17	3.10	-11.67	141.89	69.44	360.02	53.04	409.03	354.26	799.10	198.89	342.84	76.00	213.76	354.84
51959	72.95	3.10	-11.67	161.92	72.38	379.96	64.55	409.68	355.37	851.43	209.17	341.02	90.29	210.19	356.07
51960	71.73	3.10	-11.67	183.30	75.64	403.58	75.01	410.23	356.95	908.49	218.77	339.48	104.19	211.35	357.77
51961	70.51	3.10	-11.67	205.19	79.13	430.31	84.11	410.61	358.94	969.79	227.31	338.53	117.22	219.03	359.83
51962	69.28	3.10	-11.67	226.99	82.70	459.60	91.47	410.77	361.19	1034.59	234.15	338.68	128.79	235.40	362.09
51963	68.06	3.10	-11.67	248.21	86.16	491.00	96.75	410.69	363.45	1102.00	238.38	340.72	138.27	263.09	364.30
51964	66.84	3.10	-11.67	268.40	89.32	524.16	99.69	410.38	365.40	1171.27	238.73	345.86	144.98	305.09	366.11
51965	65.62	3.10	-11.67	287.00	92.09	558.88	100.26	409.83	366.75	1242.37	233.51	355.87	148.17	364.49	367.25
51966	64.40	3.10	-11.67	303.21	94.57	595.13	98.62	408.73	367.41	1316.87	220.39	373.22	146.91	443.93	367.67
51967	63.17	3.10	-11.67	316.01	97.06	632.83	94.91	406.16	367.69	1399.43	196.00	400.65	139.86	544.44	367.76
51968	61.95	3.10	-11.67	324.43	99.83	671.27	88.68	399.66	368.60	1499.88	155.84	439.11	125.28	663.51	368.58
51969	60.73	3.10	-11.67	328.90	102.75	705.76	77.71	383.52	371.12	1635.31	99.13	480.68	101.25	792.37	371.31
51970	59.51	3.10	-11.67	335.72	105.69	722.93	58.73	350.61	375.64	1826.70	91.84	494.56	67.63	920.51	376.88
51971	77.84	2.50	-11.67	103.89	63.67	323.61	14.35	407.29	355.92	677.34	167.07	344.50	32.92	239.25	356.09
51972	76.61	2.50	-11.67	111.24	65.21	329.31	27.74	407.91	355.44	715.92	178.59	342.57	44.45	228.63	355.67
51973	75.38	2.50	-11.67	124.60	67.30	340.31	40.72	408.57	355.44	759.49	189.87	340.59	57.46	219.32	355.75
51974	74.15	2.50	-11.67	142.16	69.87	356.18	53.09	409.22	355.92	808.18	200.82	338.60	70.89	212.23	356.30
51975	72.93	2.50	-11.67	162.32	72.82	376.36	64.61	409.82	356.85	861.91	211.29	336.68	84.19	208.51	357.32
51976	71.70	2.50	-11.67	183.92	76.04	400.25	75.02	410.33	358.21	920.41	221.02	335.02	96.91	209.62	358.75
51977	70.47	2.50	-11.67	206.11	79.42	427.26	84.02	410.69	359.90	983.11	229.55	333.95	108.60	217.39	360.49
51978	69.24	2.50	-11.67	228.29	82.80	456.87	91.28	410.88	361.78	1049.18	236.22	334.03	118.74	234.06	362.38
51979	68.02	2.50	-11.67	249.96	86.04	488.65	96.48	410.89	363.65	1117.60	240.04	336.10	126.81	262.29	364.21
51980	66.79	2.50	-11.67	270.61	89.02	522.27	99.42	410.72	365.23	1187.51	239.70	341.47	132.24	305.07	365.71
51981	65.56	2.50	-11.67	289.63	91.74	557.58	100.08	410.30	366.34	1258.67	233.42	352.07	134.43	365.47	366.69
51982	64.33	2.50	-11.67	306.17	94.36	594.52	98.55	409.32	366.99	1332.41	218.74	370.50	132.65	446.00	367.19
51983	63.11	2.50	-11.67	319.20	97.14	633.02	94.81	406.81	367.56	1413.19	192.29	399.53	125.90	547.55	367.62
51984	61.88	2.50	-11.67	327.69	100.25	672.32	88.26	400.30	369.07	1510.89	149.96	439.98	112.82	667.38	369.06
51985	60.65	2.50	-11.67	332.03	103.37	707.60	76.47	383.92	372.52	1643.15	93.28	483.31	91.51	796.39	372.59
51986	59.42	2.50	-11.67	338.67	106.33	725.04	55.96	350.40	378.21	1832.28	96.49	497.22	60.94	923.90	378.84
51987	77.84	3.10	-13.00	122.12	79.30	344.93	16.57	402.16	349.30	781.63	186.60	362.85	45.47	291.93	349.43
51988	76.62	3.10	-13.00	132.15	81.37	349.97	31.77	402.69	349.11	827.01	199.58	361.50	59.06	284.47	349.28
51989	75.39	3.10	-13.00	149.82	84.35	359.81	46.64	403.34	349.31	878.62	212.48	360.16	74.72	277.95	349.54
51990	74.17	3.10	-13.00	172.77	88.16	374.11	60.97	404.12	349.91	936.32	225.34	358.84	91.41	273.04	350.21
51991	72.95	3.10	-13.00	199.03	92.75	392.40	74.59	405.01	350.94	999.65	238.17	357.54	108.55	270.58	351.30
51992	71.73	3.10	-13.00	227.20	98.08	414.19	87.25	406.00	352.37	1067.70	250.88	356.29	125.69	271.68	352.79
51993	70.51	3.10	-13.00	256.34	104.05	438.98	98.64	407.08	354.17	1138.98	263.29	355.16	142.32	277.76	354.65
51994	69.28	3.10	-13.00	285.77	110.50	466.32	108.39	408.29	356.27	1211.23	275.01	354.22	157.84	290.61	356.77
51995	68.06	3.10	-13.00	315.04	117.21	495.84	116.13	409.72	358.49	1281.32	285.41	353.65	171.57	312.57	358.99
51996	66.84	3.10	-13.00	343.74	123.87	527.25	121.65	411.58	360.61	1345.26	293.62	353.72	182.81	346.62	361.06
51997	65.62	3.10	-13.00	371.35	130.33	560.44	125.05	414.18	362.42	1398.23	298.54	354.91	190.94	396.48	362.79
51998	64.40	3.10	-13.00	397.07	136.72	595.51	126.84	417.98	363.95	1434.99	298.72	358.16	195.29	466.73	364.23
51999	63.17	3.10	-13.00	419.50	143.50	632.86	127.76	423.53	365.72	1450.74	292.03	365.06	195.03	562.74	365.92
52000	61.95	3.10	-13.00	436.06	151.14	673.24	128.33	431.45	369.18	1442.92	274.83	377.81	189.18	689.98	369.30
52001	60.73	3.10	-13.00	440.80	159.37	717.69	128.57	440.86	378.74	1414.97	241.22	397.09	177.19	850.75	378.79
52002	59.51	3.10	-13.00	418.18	165.19	756.61	120.09	440.34	396.55	1382.46	182.05	406.57	154.92	1030.08	396.51
52003	77.84	2.50	-13.00	121.84	79.39	343.94	16.74	401.87	350.46	787.72	187.57	361.90	37.72	290.83	350.55
52004	76.61	2.50	-13.00	131.94	81.44	349.03	31.92	402.39	350.21	834.41	200.73	360.54	51.06	283.22	350.33
52005	75.38	2.50	-13.00	149.69	84.26	358.96	46.75	403.02	350.32	887.49	213.79	359.18	66.17	276.56	350.47
52006	74.15	2.50	-13.00	172.74	87.78	373.36	61.02	403.77	350.80	946.80	226.76	357.83	81.95	271.51	350.99
52007	72.93	2.50	-13.00	199.13	91.93	391.79	74.53	404.62	351.64	1011.85	239.60	356.50	97.85	268.95	351.88
52008	71.70	2.50	-13.00	227.50	96.64	413.74	87.03	405.57	352.84	1081.64	252.21	355.21	113.43	270.02	353.12
52009	70.47	2.50	-13.00	256.93	101.81	438									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
52039	72.93	2.50	-14.33	238.11	133.68	407.26	96.51	436.64	388.83	1163.75	273.28	375.10	145.97	385.54	388.87
52040	71.70	2.50	-14.33	273.77	140.60	427.64	109.67	437.15	389.27	1249.86	288.47	374.14	163.61	385.69	389.31
52041	70.47	2.50	-14.33	311.23	148.49	450.91	122.11	437.77	389.84	1339.62	304.16	373.20	181.30	387.81	389.89
52042	69.24	2.50	-14.33	349.87	157.18	476.65	133.44	438.54	390.52	1429.32	320.24	372.30	198.47	392.71	390.56
52043	68.02	2.50	-14.33	389.34	166.46	504.51	143.36	439.53	391.25	1513.54	336.47	371.42	214.50	401.42	391.29
52044	66.79	2.50	-14.33	429.45	176.13	534.19	151.78	440.87	391.98	1584.59	352.46	370.59	228.78	415.34	392.02
52045	65.56	2.50	-14.33	470.21	186.19	565.48	158.94	442.77	392.69	1631.91	367.84	369.83	240.77	436.37	392.73
52046	64.33	2.50	-14.33	511.85	196.99	598.27	165.46	445.59	393.45	1641.11	382.26	369.17	250.09	467.19	393.50
52047	63.11	2.50	-14.33	555.25	209.32	632.61	172.35	449.99	394.57	1592.67	395.51	368.68	256.72	511.70	394.62
52048	61.88	2.50	-14.33	602.89	224.37	668.99	181.17	457.59	396.89	1460.38	407.68	368.45	261.65	575.70	396.96
52049	60.65	2.50	-14.33	661.29	242.71	708.93	195.11	473.04	401.81	1209.77	418.54	368.44	268.41	667.84	401.93
52050	59.42	2.50	-14.33	745.88	270.04	754.47	231.16	508.65	437.97	798.62	431.83	368.31	293.96	798.79	438.14
52051	58.39	2.50	-11.67	354.62	109.22	712.17	30.16	306.90	384.79	2058.09	206.30	450.86	29.69	1034.65	386.72
52052	58.47	3.10	-11.67	351.70	108.63	710.45	35.18	307.86	381.17	2053.04	200.88	450.45	34.38	1032.32	384.93
52053	57.54	2.50	-11.67	378.97	112.94	660.28	15.58	263.27	392.00	2299.78	340.84	343.92	22.76	1152.23	396.06
52054	57.62	3.10	-11.67	376.02	112.45	659.40	20.53	264.69	387.57	2294.84	340.15	346.46	19.50	1150.96	396.15
52055	56.70	2.50	-11.67	412.20	120.22	547.76	48.15	228.31	403.82	2596.49	513.37	418.25	57.57	1357.89	411.01
52056	56.77	3.10	-11.67	409.13	119.82	548.30	46.65	229.83	398.62	2591.85	518.24	412.91	47.85	1357.70	416.20
52057	55.85	2.50	-11.67	441.48	134.32	344.05	97.22	237.23	430.00	2925.81	738.79	1172.21	104.49	1778.92	442.10
52058	55.93	3.10	-11.67	438.41	133.79	346.79	94.00	237.50	423.93	2923.05	746.89	1152.99	93.97	1780.19	458.05
52059	55.01	2.50	-11.67	439.80	162.45	78.85	142.10	272.50	535.75	3130.17	1176.35	3724.64	142.30	2449.69	571.52
52060	55.08	3.10	-11.67	437.04	162.79	88.03	138.82	272.48	527.98	3133.39	1183.03	3684.89	146.07	2460.56	625.75
52061	58.39	2.50	-13.00	375.17	162.41	772.47	100.14	422.77	418.53	1347.64	106.77	378.84	114.35	1182.63	418.53
52062	58.47	3.10	-13.00	373.19	166.20	768.85	101.71	422.27	415.14	1351.77	116.75	377.20	127.11	1178.65	415.25
52063	57.54	2.50	-13.00	318.25	159.47	748.05	80.04	392.43	438.34	1285.83	96.17	327.44	91.95	1280.65	438.79
52064	57.62	3.10	-13.00	317.24	162.96	744.98	82.23	392.22	434.05	1290.84	103.23	326.70	104.61	1278.53	435.36
52065	56.70	2.50	-13.00	224.08	150.14	675.91	54.44	334.49	461.87	1141.55	184.10	513.35	70.14	1318.80	464.68
52066	56.77	3.10	-13.00	224.79	152.56	674.01	57.64	335.29	456.77	1146.28	191.47	509.01	86.19	1319.70	462.93
52067	55.85	2.50	-13.00	95.28	134.17	511.23	35.76	209.68	488.27	759.51	307.31	1170.55	63.61	1132.02	501.40
52068	55.93	3.10	-13.00	97.17	136.48	512.25	39.75	213.33	483.06	765.63	317.12	1158.61	92.10	1139.07	506.90
52069	55.01	2.50	-13.00	47.59	101.23	337.42	23.35	57.23	456.68	137.89	285.96	1259.28	59.27	100.26	519.63
52070	55.08	3.10	-13.00	45.67	106.09	339.71	18.67	71.32	451.01	130.23	301.37	1249.42	95.39	122.18	536.65
52071	58.39	2.50	-14.33	775.87	289.09	784.46	235.86	552.92	501.32	380.80	433.09	364.13	298.42	919.94	501.39
52072	58.47	3.10	-14.33	767.00	257.38	780.39	227.47	550.31	497.92	399.58	419.25	361.79	250.78	915.37	497.92
52073	57.54	2.50	-14.33	719.17	289.42	789.80	196.48	579.67	539.59	75.95	408.24	359.85	268.93	973.56	539.59
52074	57.62	3.10	-14.33	712.21	262.76	785.93	188.00	576.42	535.75	79.11	392.32	357.12	207.42	969.32	535.76
52075	56.70	2.50	-14.33	672.21	291.28	786.81	181.87	580.19	553.68	325.19	362.93	396.37	254.91	899.61	554.11
52076	56.77	3.10	-14.33	667.22	266.76	783.30	172.84	576.92	549.77	304.14	339.83	393.37	184.01	897.28	550.68
52077	55.85	2.50	-14.33	602.92	292.39	763.88	187.06	538.49	571.58	573.24	296.39	444.33	245.59	625.20	574.40
52078	55.93	3.10	-14.33	603.98	263.22	761.13	175.66	537.72	566.61	562.37	257.68	440.61	168.79	628.24	572.15
52079	55.01	2.50	-14.33	427.11	349.33	580.37	221.07	351.05	690.53	399.62	250.03	541.37	239.63	312.47	702.10
52080	55.08	3.10	-14.33	435.07	320.52	578.94	232.02	351.48	685.49	402.03	185.24	534.80	216.36	317.77	694.44
52081	97.31	7.26	-11.67	126.63	79.20	663.20	85.09	300.89	358.32	189.20	71.46	383.97	87.89	222.64	358.01
52082	97.69	6.18	-11.67	127.55	81.72	668.63	87.70	294.63	376.16	187.52	75.02	371.31	89.73	216.24	375.95
52083	98.01	5.08	-11.67	128.47	82.47	671.24	90.27	290.18	386.03	186.24	76.68	356.67	91.78	211.59	385.90
52084	98.27	3.96	-11.67	129.25	83.14	674.90	91.73	288.09	385.89	185.30	78.19	346.53	92.72	209.24	385.80
52085	98.20	7.26	-11.67	80.91	81.20	628.39	76.83	245.60	350.85	125.10	80.26	355.39	80.94	179.86	349.91
52086	98.57	6.18	-11.67	79.53	80.87	630.75	77.58	236.35	370.57	121.37	81.03	343.67	80.69	170.83	369.89
52087	98.87	5.08	-11.67	78.74	77.55	631.38	78.19	229.57	381.65	118.67	78.65	330.18	80.53	164.01	381.17
52088	99.12	3.96	-11.67	77.79	75.91	633.68	77.85	225.22	381.81	116.23	77.79	321.11	79.39	159.40	381.51
52089	99.09	7.26	-11.67	38.76	83.36	553.76	65.09	177.17	340.55	63.44	88.58	329.13	70.57	131.16	338.68
52090	99.44	6.18	-11.67	35.38	78.81	552.16	63.63	165.19	361.57	58.62	84.90	321.74	67.95	119.56	360.14
52091	99.74	5.08	-11.67	32.30	70.33	550.13	61.93	155.26	373.15	54.50	77.46	312.66	65.15	109.35	372.15
52092	99.98	3.96	-11.67	28.54	66.11	549.64	59.66	146.51	373.08	49.94	74.06	307.17	61.75	99.72	372.46
52093	99.98	7.26	-11.67	23.69	86.84	427.93	49.25	120.02	324.66	25.62	96.06	366.90	55.47	104.01	321.60
52094	100.32	6.18	-11.67	19.81	77.80	424.02	45.20	106.33	346.09	20.78	86.73	370.94	50.14	91.18	343.76
52095	100.60	5.07	-11.67	16.66	64.23	419.40	40.86	91.96	356.95	15.93	74.02	373.62	44.39	77.39	355.42
52096	100.83	3.96	-11.67	15.32	56.96	414.00	36.57	75.81	355.68	11.59	68.01	379.44	38.91	61.69	354.78
52097	100.87	7.26	-11.67	14.49	87.81	312.13	36.24	102.65	307.18	15.73	98.07	534.30	40.50	102.55	304.05
52098	101.20	6.17	-11.67	10.98	78.08	309.78	29.72	90.39	326.18	11.32	85.92	548.67	32.71	90.82	323.84
52099	101.47	5.07	-11.67	7.68	62.40	306.92	23.56	75.62	334.38	7.21	69.90	565.07	25.50	77.04	333.14
52100	101.69	3.96	-11.67	5.33	53.56	303.41	19.04	59.47	331.60	4.51	62.78	585.61	20.39	62.15	330.91
52101	97.31	7.26	-13.00	309.49	138.70	745.54	127.05	396.01	398.50	372.03	110.64	445.45	127.70	346.03	398.36
52102	97.69	6.18	-13.00	321.52	148.69	748.27	136.57	383.41	423.41	380.70	121.77	427.17	136.85	333.60	423.32
52103	98.01	5.08	-13.00	331.55	154.03	747.39	144.34	381.64	434.11	387.93	127.90	404.64	145.20	331.95	434.04
52104	98.27	3.96	-13.00	342.17	156.07	751.80	148.13	393.65	428.24	396.30	130.84	392.06	148.85	344.04	428.20
52105	98.20	7.26	-13.00	260.67	143.66	739.97	121.41	360.52	400.40	304.93	123.43	427.31	122.61	319.09	400.40
52106	98.57	6.18	-13.00	266.42	150.56	740.62	127.77	345.34	429.53	307.63	131.11	409.13	128.48	304.55	429.25
52107	98.87	5.08	-13.00	274.10	153.03	738.25									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
52137	100.87	7.26	-14.33	327.71	272.91	607.07	183.92	299.29	568.91	329.76	266.71	402.85	183.37	298.24	567.07
52138	101.20	6.17	-14.33	297.68	191.45	615.10	167.53	251.05	548.89	299.05	183.13	386.09	167.76	250.73	547.78
52139	101.47	5.07	-14.33	306.93	197.52	609.42	178.65	238.03	563.61	307.66	188.07	374.94	178.95	238.41	563.25
52140	101.69	3.96	-14.33	356.06	282.05	586.66	224.55	273.59	619.27	356.41	272.80	374.26	224.99	274.51	619.33
52141	79.06	3.95	-11.67	103.85	61.83	335.59	8.06	404.36	354.24	630.75	152.52	357.84	33.84	250.93	354.53
52142	80.27	3.95	-11.67	110.93	61.61	340.79	15.76	403.95	355.71	603.59	141.21	359.73	31.21	261.81	355.90
52143	81.48	3.95	-11.67	123.45	62.10	351.09	28.37	403.66	357.73	580.01	129.71	361.69	35.87	272.46	357.84
52144	82.69	3.95	-11.67	139.43	63.37	366.07	41.46	403.50	360.30	559.54	118.13	363.72	45.12	282.55	360.35
52145	83.90	3.95	-11.67	157.21	65.46	385.23	54.36	403.45	363.40	541.66	106.64	365.82	56.20	291.80	363.40
52146	85.12	3.95	-11.67	175.55	68.36	408.00	66.70	403.49	366.99	525.80	95.55	367.99	67.64	299.94	366.97
52147	86.33	3.96	-11.67	193.57	72.02	433.78	78.15	403.57	371.00	511.39	85.35	370.18	78.57	306.69	370.97
52148	87.54	3.96	-11.67	210.63	76.22	461.99	88.28	403.66	375.28	497.88	76.69	372.32	88.39	311.82	375.24
52149	88.75	3.96	-11.67	226.25	80.61	492.01	96.66	403.77	379.53	484.70	70.20	374.30	96.56	315.14	379.49
52150	89.96	3.96	-11.67	239.96	84.64	523.26	102.95	403.93	383.29	471.17	66.11	375.97	102.72	316.58	383.27
52151	91.18	3.96	-11.67	251.00	87.78	555.18	107.10	404.14	386.03	456.21	64.00	377.23	106.82	316.18	386.04
52152	92.39	3.96	-11.67	258.00	89.74	587.33	109.48	404.00	387.42	438.02	63.18	378.04	109.23	313.94	387.46
52153	93.60	3.96	-11.67	258.59	90.68	619.27	110.69	402.25	387.56	413.70	63.57	378.43	110.52	309.41	387.65
52154	94.81	3.96	-11.67	249.02	90.95	650.14	110.98	395.82	387.27	378.98	65.80	378.26	110.94	300.92	387.39
52155	96.02	3.96	-11.67	224.19	90.37	676.16	109.04	378.27	387.34	328.45	70.06	375.81	109.21	283.97	387.46
52156	97.23	3.96	-11.67	181.08	87.87	687.17	102.49	340.85	387.27	259.23	75.08	365.65	103.01	252.05	387.33
52157	79.05	5.05	-11.67	103.80	61.13	349.88	11.72	401.35	354.04	617.74	149.79	371.40	40.59	250.71	354.47
52158	80.24	5.05	-11.67	111.05	60.81	354.90	17.94	401.04	355.51	592.93	139.08	373.36	36.23	261.15	355.78
52159	81.44	5.06	-11.67	123.72	61.09	364.84	29.45	400.94	357.62	571.38	128.09	375.46	38.80	271.46	357.77
52160	82.63	5.06	-11.67	139.81	62.10	379.32	41.99	401.03	360.36	552.61	116.90	377.71	46.57	281.32	360.43
52161	83.83	5.06	-11.67	157.61	63.92	397.90	54.60	401.28	363.75	536.10	105.71	380.12	56.88	290.45	363.75
52162	85.03	5.06	-11.67	175.82	66.65	420.05	66.85	401.63	367.79	521.25	94.81	382.67	67.99	298.53	367.75
52163	86.22	5.06	-11.67	193.46	70.31	445.21	78.35	401.98	372.46	507.44	84.73	385.33	78.87	305.26	372.39
52164	87.42	5.07	-11.67	209.82	74.79	472.78	88.64	402.18	377.65	494.06	76.28	388.02	88.76	310.27	377.57
52165	88.61	5.07	-11.67	224.43	79.69	502.05	97.11	402.14	383.08	480.58	70.29	390.54	96.95	313.31	383.00
52166	89.81	5.07	-11.67	236.93	84.31	532.25	103.17	401.85	388.16	466.45	67.05	392.65	102.81	314.26	388.10
52167	91.00	5.07	-11.67	246.79	87.77	562.64	106.57	401.41	392.04	450.84	65.76	394.02	106.13	313.31	392.03
52168	92.20	5.07	-11.67	252.84	89.43	592.68	107.69	400.68	393.96	432.18	65.01	394.47	107.27	310.69	394.02
52169	93.39	5.08	-11.67	252.82	89.38	622.07	107.48	398.63	393.72	407.72	64.19	393.95	107.19	306.14	393.85
52170	94.59	5.08	-11.67	243.15	88.40	650.14	106.72	392.28	392.12	373.42	64.29	392.36	106.65	298.00	392.31
52171	95.78	5.08	-11.67	219.22	87.11	673.56	104.67	375.54	390.31	324.38	66.81	388.20	104.94	281.99	390.50
52172	96.98	5.08	-11.67	178.19	85.29	683.22	99.25	340.29	388.47	257.84	71.81	376.65	100.06	252.06	388.56
52173	79.04	6.15	-11.67	103.41	61.13	368.11	16.16	397.61	346.13	601.83	146.76	388.77	45.70	250.32	346.72
52174	80.21	6.15	-11.67	110.91	60.59	372.91	21.02	397.46	347.57	579.86	136.84	390.81	39.92	260.24	347.94
52175	81.39	6.16	-11.67	123.83	60.47	382.44	31.05	397.62	349.71	560.78	126.50	393.09	40.82	270.19	349.91
52176	82.56	6.16	-11.67	140.15	60.88	396.37	42.67	398.09	352.56	544.14	115.81	395.62	47.27	279.86	352.64
52177	83.74	6.16	-11.67	158.12	61.99	414.31	54.68	398.83	356.15	529.41	104.92	398.41	56.81	288.96	356.13
52178	84.91	6.16	-11.67	176.37	63.97	435.82	66.59	399.75	360.51	515.97	94.08	401.49	67.57	297.18	360.43
52179	86.09	6.16	-11.67	193.80	66.96	460.41	77.99	400.68	365.71	503.12	83.77	404.84	78.40	304.13	365.58
52180	87.26	6.17	-11.67	209.56	70.98	487.48	88.40	401.34	371.73	490.14	74.80	408.39	88.44	309.35	371.58
52181	88.44	6.17	-11.67	223.06	75.78	516.22	97.08	401.44	378.37	476.42	68.23	411.91	96.83	312.37	378.22
52182	89.61	6.17	-11.67	234.03	80.62	545.61	103.17	400.78	385.00	461.49	64.74	414.96	102.68	312.94	384.88
52183	90.79	6.17	-11.67	242.23	84.37	574.47	106.07	399.53	390.46	444.87	63.62	416.92	105.43	311.28	390.41
52184	91.96	6.17	-11.67	246.87	85.99	601.93	105.98	397.92	393.37	425.38	62.94	417.19	105.35	308.01	393.43
52185	93.14	6.18	-11.67	245.91	85.34	627.77	104.12	395.43	392.95	400.58	61.41	415.48	103.68	303.36	393.13
52186	94.31	6.18	-11.67	236.00	83.51	651.89	101.94	389.39	389.81	366.69	60.04	411.86	101.83	295.85	390.08
52187	95.49	6.18	-11.67	213.04	81.97	671.89	99.41	373.92	385.44	319.33	61.47	405.37	99.79	281.24	385.70
52188	96.66	6.18	-11.67	174.57	81.48	679.95	94.90	341.45	380.76	256.11	67.25	392.14	96.01	253.85	380.87
52189	79.03	7.25	-11.67	102.49	60.00	384.42	22.61	392.03	332.10	583.14	142.68	404.43	47.75	248.54	332.84
52190	80.18	7.25	-11.67	110.28	59.40	389.01	26.14	392.08	333.45	564.41	133.78	406.54	40.87	257.90	333.92
52191	81.33	7.25	-11.67	123.53	59.08	398.16	34.17	392.58	335.52	548.16	124.38	408.99	40.58	267.48	335.79
52192	82.48	7.25	-11.67	140.18	59.16	411.60	44.26	393.55	338.34	533.99	114.55	411.79	46.13	276.99	338.44
52193	83.63	7.25	-11.67	158.46	59.81	428.98	55.14	394.95	341.93	521.42	104.40	414.96	55.14	286.17	341.91
52194	84.78	7.26	-11.67	176.95	61.21	449.95	66.22	396.70	346.33	509.81	94.14	418.56	65.61	294.72	346.22
52195	85.93	7.26	-11.67	194.46	63.57	474.11	77.10	398.59	351.67	498.38	84.12	422.62	76.36	302.22	351.48
52196	87.08	7.26	-11.67	209.91	67.02	500.94	87.31	400.21	358.03	486.24	75.01	427.14	86.56	308.11	357.80
52197	88.23	7.26	-11.67	222.46	71.45	529.64	96.15	400.98	365.39	472.57	67.84	431.94	95.32	311.66	365.14
52198	89.38	7.26	-11.67	231.75	76.28	558.87	102.53	400.36	373.23	456.83	63.59	436.43	101.57	312.24	373.01
52199	90.53	7.26	-11.67	237.82	80.30	586.79	105.45	398.29	380.24	438.84	61.99	439.58	104.36	309.90	380.11
52200	91.68	7.26	-11.67	240.48	82.19	611.74	104.71	395.41	384.45	418.08	61.10	440.07	103.67	305.63	384.48
52201	92.83	7.26	-11.67	238.20	81.47	633.23	101.54	392.13	384.34	392.62	59.13	437.11	100.81	300.54	384.55
52202	93.98	7.26	-11.67	227.82	79.25	652.07	97.94	386.48	380.07	359.01	56.74	430.86	97.74	293.76	380.43
52203	95.13	7.26	-11.67	205.72	77.39	667.48	94.67	372.76	373.29	313.35	56.93	421.26	95.23	281.04	373.65
52204	96.28	7.26	-11.67	170.15	77.34	673.52	90.74	343.67	365.60	253.92	62.39	405.79	92.33	256.74	365.74
52205	79.06	3.95	-13.00	121.54	77.14	350.39	14.02	398.20	362.12	733.22	171.75	369.49	34.10	297.4	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
52235	95.78	5.08	-13.00	395.78	145.00	699.71	146.65	415.38	412.40	504.77	107.16	411.51	146.81	353.45	412.47
52236	96.98	5.08	-13.00	375.10	150.68	732.37	149.68	406.75	422.91	454.87	117.69	412.17	150.14	349.42	422.94
52237	79.04	6.15	-13.00	123.41	75.34	391.54	11.77	387.03	359.90	701.69	166.13	408.86	59.66	290.42	360.16
52238	80.21	6.15	-13.00	132.89	74.82	395.88	19.54	387.11	361.04	676.53	154.37	410.38	52.85	297.68	361.20
52239	81.39	6.16	-13.00	149.77	75.06	404.41	33.21	387.59	362.88	655.61	142.19	412.10	53.30	305.05	362.95
52240	82.56	6.16	-13.00	171.47	76.32	416.88	47.96	388.49	365.43	638.49	129.75	414.01	60.07	312.35	365.43
52241	83.74	6.16	-13.00	195.89	78.92	432.99	62.98	389.80	368.72	624.60	117.34	416.14	70.76	319.41	368.68
52242	84.91	6.16	-13.00	221.47	83.26	452.41	77.95	391.51	372.86	613.23	105.53	418.52	83.40	326.03	372.78
52243	86.09	6.16	-13.00	247.01	89.70	474.78	92.61	393.52	377.98	603.51	95.42	421.16	96.67	331.97	377.87
52244	87.26	6.17	-13.00	271.49	98.52	499.70	106.44	395.64	384.23	594.44	88.78	424.08	109.53	336.89	384.10
52245	88.44	6.17	-13.00	294.21	109.52	526.64	118.50	397.59	391.61	585.11	87.69	427.18	120.79	340.41	391.47
52246	89.61	6.17	-13.00	314.93	121.57	554.87	127.34	399.22	399.63	574.94	92.52	430.20	128.91	342.34	399.49
52247	90.79	6.17	-13.00	334.03	132.31	583.55	131.74	400.82	406.93	563.86	100.26	432.68	132.70	343.08	406.83
52248	91.96	6.17	-13.00	351.85	139.05	612.15	132.05	403.25	411.62	551.79	105.96	434.18	132.55	343.84	411.60
52249	93.14	6.18	-13.00	367.70	140.90	640.93	130.94	407.26	412.53	537.79	106.66	434.69	131.13	346.02	412.59
52250	94.31	6.18	-13.00	379.10	140.45	671.07	132.13	412.30	410.89	519.37	104.52	434.93	132.08	350.03	411.00
52251	95.49	6.18	-13.00	380.79	141.63	703.73	137.11	415.20	411.27	491.59	105.36	435.98	136.96	353.92	411.38
52252	96.66	6.18	-13.00	361.43	144.82	733.69	140.04	406.95	416.62	443.81	111.68	435.10	140.02	349.97	416.66
52253	79.03	7.25	-13.00	123.06	77.27	411.69	22.23	390.87	338.18	681.25	163.86	428.27	59.17	296.80	338.51
52254	80.18	7.25	-13.00	133.12	76.31	415.82	27.03	391.21	339.39	660.27	152.94	429.86	51.45	303.79	339.59
52255	81.33	7.25	-13.00	150.72	75.66	423.96	37.62	392.15	341.45	643.03	141.34	431.77	51.46	311.13	341.54
52256	82.48	7.25	-13.00	173.22	75.62	435.92	50.51	393.72	344.37	629.16	129.18	433.98	58.24	318.66	344.36
52257	83.63	7.25	-13.00	198.50	76.61	451.44	64.32	395.95	348.17	618.19	116.68	436.53	69.19	326.23	348.10
52258	84.78	7.26	-13.00	224.99	79.17	470.26	78.57	398.85	352.99	609.43	104.29	439.48	82.22	333.69	352.86
52259	85.93	7.26	-13.00	251.38	83.93	492.16	92.99	402.33	359.05	601.99	92.93	442.93	96.11	340.83	358.88
52260	87.08	7.26	-13.00	276.39	91.55	516.86	107.22	406.15	366.71	594.64	84.41	446.98	110.00	347.27	366.49
52261	88.23	7.26	-13.00	298.70	102.44	543.94	120.37	409.76	376.34	585.94	81.67	451.67	122.74	352.38	376.10
52262	89.38	7.26	-13.00	317.38	115.98	572.51	130.51	412.45	387.83	574.70	86.91	456.74	132.31	355.39	387.58
52263	90.53	7.26	-13.00	332.52	129.55	601.03	135.06	413.91	399.57	560.64	97.72	461.27	136.23	356.14	399.36
52264	91.68	7.26	-13.00	345.11	138.66	627.84	132.94	415.15	408.16	544.32	106.90	463.88	133.56	355.94	408.08
52265	92.83	7.26	-13.00	355.56	140.13	652.55	127.05	418.01	410.13	525.87	108.15	463.54	127.28	357.23	410.20
52266	93.98	7.26	-13.00	362.33	136.27	677.19	123.43	422.71	405.48	503.79	102.27	460.94	123.40	361.12	405.66
52267	95.13	7.26	-13.00	361.49	133.48	704.76	125.65	425.60	399.89	474.47	97.63	458.38	125.53	365.03	400.06
52268	96.28	7.26	-13.00	343.72	134.25	731.44	128.29	417.76	397.96	429.21	100.18	454.65	128.44	361.16	398.02
52269	79.06	3.95	-14.33	136.77	113.44	369.40	59.53	381.36	370.85	827.61	200.38	386.33	7.09	344.84	370.86
52270	80.27	3.95	-14.33	147.70	112.13	373.85	61.30	381.18	371.11	791.25	186.61	387.43	21.23	347.81	371.12
52271	81.48	3.95	-14.33	167.96	111.18	382.61	67.24	381.05	371.54	761.96	172.30	388.58	38.71	350.68	371.55
52272	82.69	3.95	-14.33	194.39	110.73	395.39	76.36	381.02	372.16	739.08	157.47	389.77	56.05	353.41	372.16
52273	83.90	3.95	-14.33	224.57	110.99	411.83	87.54	381.12	372.97	721.88	142.24	391.01	72.98	355.96	372.97
52274	85.12	3.95	-14.33	256.96	112.23	431.52	99.89	381.36	373.98	709.59	126.92	392.28	89.39	358.27	373.98
52275	86.33	3.96	-14.33	290.67	114.75	454.02	112.68	381.76	375.20	701.39	112.10	393.59	105.08	360.29	375.19
52276	87.54	3.96	-14.33	325.26	118.81	478.95	125.29	382.33	376.59	696.50	98.86	394.93	119.80	361.96	376.58
52277	88.75	3.96	-14.33	360.71	124.58	505.92	137.09	383.14	378.08	694.27	88.75	396.28	133.16	363.29	378.08
52278	89.96	3.96	-14.33	397.45	131.99	534.62	147.62	384.32	379.54	694.29	83.38	397.64	144.91	364.37	379.53
52279	91.18	3.96	-14.33	436.26	140.96	564.79	156.86	386.08	380.77	696.48	83.58	399.02	155.17	365.45	380.77
52280	92.39	3.96	-14.33	478.21	151.74	596.29	165.62	388.71	381.71	701.14	89.36	400.45	164.82	366.98	381.71
52281	93.60	3.96	-14.33	524.65	165.27	629.09	175.57	392.66	382.56	709.24	100.91	402.05	175.54	369.72	382.56
52282	94.81	3.96	-14.33	577.58	182.91	663.62	188.95	398.96	384.09	722.95	119.15	404.15	189.53	375.21	384.09
52283	96.02	3.96	-14.33	640.51	206.02	701.34	209.31	410.78	387.94	746.91	145.16	407.56	210.33	387.29	387.94
52284	97.23	3.96	-14.33	717.22	235.68	743.47	248.29	435.31	416.55	786.98	180.00	412.84	249.62	413.89	416.56
52285	79.05	5.05	-14.33	140.02	93.66	386.90	21.51	346.74	352.99	812.67	188.45	403.11	44.56	310.92	353.02
52286	80.24	5.05	-14.33	151.12	92.99	391.10	26.72	346.64	353.33	779.73	174.78	404.22	39.52	313.83	353.35
52287	81.44	5.06	-14.33	171.50	93.36	399.35	39.39	346.65	353.91	753.36	160.78	405.39	44.83	316.69	353.92
52288	82.63	5.06	-14.33	198.07	95.06	411.40	54.56	346.79	354.74	732.93	146.61	406.62	56.89	319.47	354.74
52289	83.83	5.06	-14.33	228.41	98.42	426.94	70.57	347.09	355.83	717.76	132.66	407.90	71.86	322.10	355.82
52290	85.03	5.06	-14.33	260.89	103.81	445.61	86.79	347.54	357.20	707.08	119.66	409.23	87.81	324.53	357.19
52291	86.22	5.06	-14.33	294.47	111.56	467.04	102.80	348.15	358.89	699.97	108.88	410.63	103.77	326.68	358.88
52292	87.42	5.07	-14.33	328.48	121.82	490.87	118.07	348.90	360.92	695.49	102.21	412.07	119.00	328.47	360.91
52293	88.61	5.07	-14.33	362.64	134.27	516.71	131.85	349.77	363.25	692.81	101.39	413.54	132.67	329.83	363.23
52294	89.81	5.07	-14.33	397.17	147.87	544.23	143.30	350.86	365.64	691.40	106.33	414.99	143.93	330.83	365.63
52295	91.00	5.07	-14.33	432.96	160.98	573.14	152.04	352.40	367.72	691.34	114.37	416.38	152.47	331.75	367.70
52296	92.20	5.07	-14.33	471.35	172.34	603.29	159.06	354.82	369.07	693.29	122.27	417.74	159.28	333.15	369.07
52297	93.39	5.08	-14.33	513.90	182.69	634.72	166.89	358.61	369.74	698.43	129.40	419.18	166.91	335.84	369.74
52298	94.59	5.08	-14.33	562.35	195.17	667.84	178.83	364.59	370.62	708.71	139.25	421.05	178.66	341.08	370.63
52299	95.78	5.08	-14.33	618.49	213.65	703.77	198.25	374.75	374.05	726.95	157.15	424.00	197.96	351.53	374.05
52300	96.98	5.08	-14.33	683.00	239.79	743.16	231.79	393.99	397.85	755.68	186.07	428.42	231.54	372.72	397.85
52301	79.04	6.15	-14.33	144.40	93.83	408.84	1.45	349.88	352.25	794.77	186.70	424.24	78.09	314.90	352.29
52302	80.21	6.15	-14.33	155.84	94.38	412.75	17.61	350.04	352.81	766.18	174.29	425.35	70.27	317.90	352.83
52303	81.39	6.16	-14.33	176.55	96.72										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
52333	59.67	3.96	-11.67	329.35	105.09	718.61	63.31	349.24	374.71	1809.75	84.13	488.45	85.75	910.55	377.26
52334	60.88	3.96	-11.67	322.40	102.12	702.08	79.65	381.14	371.97	1614.62	111.09	475.02	124.81	781.75	372.54
52335	62.09	3.96	-11.67	317.89	99.62	669.26	89.14	396.92	370.94	1474.40	165.63	437.33	151.77	653.46	370.94
52336	63.30	3.96	-11.67	309.82	97.49	632.63	94.87	403.46	371.07	1370.10	201.24	402.95	166.88	536.22	371.10
52337	64.51	3.96	-11.67	297.61	95.52	596.53	98.63	406.18	371.21	1285.48	221.96	378.66	172.90	438.00	371.55
52338	65.72	3.96	-11.67	282.16	93.18	561.65	100.51	407.52	370.43	1210.54	232.55	363.28	172.36	360.87	371.15
52339	66.94	3.96	-11.67	264.45	90.19	528.00	100.10	408.38	368.53	1140.21	236.09	354.26	167.00	303.49	369.61
52340	68.15	3.96	-11.67	245.18	86.57	495.64	97.13	408.93	365.82	1072.54	234.69	349.44	157.91	263.05	367.15
52341	69.36	3.96	-11.67	224.81	82.62	464.86	91.67	409.14	362.81	1007.30	229.89	347.35	145.99	236.37	364.23
52342	70.57	3.96	-11.67	203.70	78.66	436.08	84.08	408.99	359.92	945.04	222.84	347.00	132.05	220.52	361.31
52343	71.78	3.95	-11.67	182.32	74.93	409.82	74.81	408.52	357.42	886.45	214.39	347.71	116.87	212.97	358.69
52344	73.00	3.95	-11.67	161.27	71.56	386.63	64.27	407.85	355.45	832.12	205.07	349.01	101.12	211.67	356.55
52345	74.21	3.95	-11.67	141.47	68.62	367.10	52.80	407.08	354.06	782.43	195.21	350.62	85.32	214.95	354.97
52346	75.42	3.95	-11.67	124.15	66.15	351.79	40.67	406.29	353.24	737.54	184.97	352.37	69.93	221.48	353.97
52347	76.63	3.95	-11.67	110.98	64.16	341.19	28.16	405.55	353.01	697.42	174.43	354.17	55.48	230.18	353.56
52348	77.84	3.95	-11.67	103.79	62.70	335.72	15.89	404.90	353.34	661.92	163.61	355.99	42.85	240.22	353.75
52349	59.92	5.08	-11.67	317.73	101.10	712.68	69.73	348.21	374.47	1771.23	76.90	478.45	120.54	894.10	380.01
52350	61.12	5.08	-11.67	310.85	98.32	697.48	81.96	378.41	374.66	1569.28	129.42	467.71	171.99	762.81	376.48
52351	62.31	5.08	-11.67	306.75	96.73	667.65	89.38	393.55	376.10	1423.75	176.82	437.30	198.04	635.81	376.37
52352	63.51	5.08	-11.67	299.60	95.72	634.25	94.54	400.03	377.83	1316.45	204.99	409.96	209.53	522.16	377.81
52353	64.70	5.07	-11.67	288.62	94.57	601.04	98.54	402.99	378.50	1231.14	220.65	390.73	211.25	428.26	378.86
52354	65.90	5.07	-11.67	274.63	92.49	568.48	100.85	404.81	377.23	1157.30	228.06	378.24	206.54	355.33	378.23
52355	67.09	5.07	-11.67	258.51	89.23	536.51	100.62	406.20	374.19	1089.33	229.66	370.41	197.21	301.50	375.80
52356	68.29	5.07	-11.67	240.82	85.15	505.31	97.49	407.11	370.14	1024.91	227.15	365.77	184.28	263.66	372.16
52357	69.48	5.07	-11.67	221.79	80.83	475.35	91.67	407.41	365.89	963.56	221.88	363.37	168.65	238.57	368.07
52358	70.68	5.06	-11.67	201.70	76.72	447.27	83.73	407.12	362.02	905.59	214.90	362.54	151.28	223.44	364.14
52359	71.87	5.06	-11.67	180.99	73.06	421.67	74.24	406.39	358.79	851.48	206.91	362.76	133.08	215.99	360.72
52360	73.07	5.06	-11.67	160.37	69.92	399.15	63.67	405.42	356.29	801.60	198.30	363.62	114.79	214.39	357.96
52361	74.27	5.06	-11.67	140.82	67.27	380.25	52.36	404.38	354.51	756.13	189.27	364.86	96.93	217.14	355.89
52362	75.46	5.06	-11.67	123.66	65.08	365.47	40.59	403.39	353.42	715.14	179.90	366.32	79.94	223.05	354.52
52363	76.66	5.05	-11.67	110.62	63.31	355.28	28.70	402.53	352.98	678.55	170.20	367.90	64.28	231.11	353.83
52364	77.85	5.05	-11.67	103.57	61.99	350.01	17.63	401.85	353.19	646.18	160.17	369.59	50.68	240.54	353.81
52365	60.24	6.18	-11.67	300.57	93.60	706.33	75.91	348.58	366.13	1694.68	90.43	466.73	201.56	868.01	378.37
52366	61.41	6.18	-11.67	294.84	91.56	692.98	83.69	376.57	370.24	1489.40	146.06	461.47	237.95	734.22	374.97
52367	62.59	6.18	-11.67	292.16	91.08	667.22	89.10	390.69	374.67	1344.80	181.23	440.92	253.57	610.77	375.73
52368	63.76	6.18	-11.67	286.74	91.19	638.36	93.89	396.93	378.11	1240.19	201.49	422.34	255.78	503.19	378.09
52369	64.94	6.17	-11.67	277.73	90.78	609.14	98.29	400.26	379.01	1158.44	212.75	408.81	250.20	415.82	379.35
52370	66.11	6.17	-11.67	265.90	88.89	579.46	101.00	402.84	376.75	1088.68	217.78	399.03	239.77	348.87	378.02
52371	67.29	6.17	-11.67	252.03	85.53	549.23	100.75	404.90	372.11	1025.21	218.18	391.87	225.64	299.81	374.29
52372	68.46	6.17	-11.67	236.34	81.39	518.98	97.23	406.08	366.44	965.71	215.27	386.87	208.39	265.19	369.22
52373	69.64	6.17	-11.67	218.84	77.27	489.64	90.93	406.20	360.89	909.71	210.24	383.79	188.84	241.85	363.89
52374	70.81	6.16	-11.67	199.76	73.63	462.13	82.65	405.43	356.09	857.39	204.00	382.24	168.02	227.35	359.01
52375	71.99	6.16	-11.67	179.64	70.61	437.18	73.09	404.13	352.23	808.98	197.06	381.83	146.93	219.81	354.88
52376	73.16	6.16	-11.67	159.33	68.14	415.36	62.71	402.63	349.30	764.59	189.67	382.16	126.29	217.69	351.58
52377	74.34	6.16	-11.67	139.94	66.13	397.16	51.83	401.15	347.21	724.27	181.90	382.97	106.58	217.92	349.10
52378	75.51	6.16	-11.67	122.86	64.47	383.00	40.73	399.85	345.89	687.97	173.76	384.09	88.13	224.81	347.40
52379	76.69	6.15	-11.67	109.90	63.10	373.25	29.87	398.81	345.29	655.60	165.21	385.44	71.34	232.08	346.44
52380	77.86	6.15	-11.67	102.98	61.98	368.22	20.42	398.06	345.38	626.98	156.22	386.99	56.80	240.77	346.22
52381	60.62	7.26	-11.67	276.31	86.87	696.02	81.76	349.35	351.84	1553.98	113.44	453.02	299.42	819.89	376.87
52382	61.77	7.26	-11.67	274.09	85.93	685.24	85.21	374.83	359.51	1364.83	152.02	454.67	309.66	691.08	369.31
52383	62.92	7.26	-11.67	274.42	86.35	664.86	88.78	387.61	366.48	1234.72	175.38	445.09	306.69	576.45	368.97
52384	64.07	7.26	-11.67	271.78	87.05	641.97	93.27	393.57	371.05	1141.47	189.76	435.50	296.48	478.45	371.16
52385	65.22	7.26	-11.67	265.56	86.81	617.59	97.89	397.64	371.62	1068.55	198.10	427.03	282.58	400.25	371.95
52386	66.37	7.26	-11.67	256.69	84.75	590.80	100.60	401.34	368.02	1006.11	201.78	418.93	266.16	341.23	369.56
52387	67.52	7.26	-11.67	245.64	81.14	561.75	99.92	404.10	361.76	949.29	201.86	411.58	247.27	297.98	364.52
52388	68.67	7.26	-11.67	232.19	76.99	531.82	95.80	405.18	354.77	896.39	199.32	405.78	225.90	266.86	358.29
52389	69.82	7.26	-11.67	216.15	73.16	502.65	89.09	404.58	348.38	847.22	195.22	401.88	202.78	245.13	352.15
52390	70.97	7.26	-11.67	197.85	70.00	475.46	80.78	402.85	343.10	801.82	190.29	399.68	179.06	230.99	346.75
52391	72.12	7.26	-11.67	178.10	67.53	451.02	71.55	400.62	338.98	760.17	184.87	398.74	155.69	223.09	342.28
52392	73.27	7.25	-11.67	157.96	65.61	429.83	61.80	398.34	335.87	722.15	179.03	398.66	133.29	220.24	338.72
52393	74.42	7.25	-11.67	138.62	64.07	412.26	51.83	396.27	333.64	687.68	172.76	399.15	112.21	221.36	336.01
52394	75.57	7.25	-11.67	121.57	62.80	398.67	41.94	394.55	332.20	656.67	166.03	400.04	92.70	225.50	334.09
52395	76.72	7.25	-11.67	108.64	61.72	389.35	32.72	393.26	331.48	629.02	158.79	401.22	75.03	231.85	332.93
52396	77.87	7.25	-11.67	101.84	60.78	384.54	25.42	392.42	331.45	604.58	151.02	402.67	59.71	239.72	332.52
52397	59.67	3.96	-13.00	411.27	164.95	750.32	122.40	433.37	409.20	1380.76	195.90	405.45	175.91	1013.00	409.22
52398	60.88	3.96	-13.00	432.38	158.59	713.58	128.44	434.48	392.92	1404.20	252.74	397.83	202.70	835.27	392.90
52399	62.09	3.96	-13.00	428.47	150.67	671.17	127.61	426.42	385.06	1421.85	282.13	381.08	217.39	677.61	385.13
52400	63.30	3.96	-13.00	412.80	143.78	632.07	127.10	419.11	382.55	1422.04	295.50	369.97	223.20	553.07	382.73
52401	64.51	3.96	-13.00	391.28	137.71	595									



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
52431	62.59	6.18	-13.00	401.47	148.43	679.11	122.48	415.20	400.91	1314.12	284.13	419.36	349.51	628.35	401.10
52432	63.76	6.18	-13.00	389.54	146.79	646.43	124.32	409.18	402.69	1297.77	289.42	414.79	343.79	517.34	402.70
52433	64.94	6.17	-13.00	372.59	143.60	615.78	127.98	405.16	402.07	1268.88	289.19	411.94	331.17	435.28	402.44
52434	66.11	6.17	-13.00	353.00	136.65	585.95	130.17	403.11	397.83	1227.94	284.15	409.58	313.89	376.64	398.76
52435	67.29	6.17	-13.00	331.52	126.62	556.51	128.28	401.94	391.10	1177.69	275.23	407.45	292.37	335.60	392.51
52436	68.46	6.17	-13.00	308.05	115.74	527.81	121.88	400.64	383.74	1121.81	264.10	405.78	267.14	307.29	385.40
52437	69.64	6.17	-13.00	282.48	105.86	500.57	112.08	398.83	377.08	1063.67	252.34	404.70	239.53	288.30	378.77
52438	70.81	6.16	-13.00	255.26	97.78	475.43	100.27	396.66	371.63	1005.88	240.85	404.21	211.17	276.38	373.21
52439	71.99	6.16	-13.00	227.25	91.51	452.89	87.38	394.41	367.40	950.16	229.90	404.17	183.38	269.96	368.78
52440	73.16	6.16	-13.00	199.55	86.73	433.34	73.92	392.32	364.21	897.65	219.37	404.45	156.95	267.79	365.37
52441	74.34	6.16	-13.00	173.45	83.07	417.13	60.11	390.51	361.92	849.12	209.07	404.97	132.31	268.84	362.86
52442	75.51	6.16	-13.00	150.57	80.26	404.59	46.11	389.06	360.40	805.08	198.76	405.68	109.75	272.24	361.13
52443	76.69	6.15	-13.00	133.05	78.09	395.99	32.16	388.00	359.58	765.81	188.27	406.55	89.61	277.32	360.13
52444	77.86	6.15	-13.00	123.39	76.46	391.58	19.05	387.32	359.42	731.40	177.42	407.59	72.52	283.53	359.81
52445	60.62	7.26	-13.00	366.36	144.64	741.73	116.95	426.42	389.10	1248.09	230.54	442.16	403.50	886.07	400.69
52446	61.77	7.26	-13.00	382.67	142.83	713.70	117.30	429.81	390.71	1235.17	255.48	444.79	413.63	733.55	394.90
52447	62.92	7.26	-13.00	382.61	143.33	683.73	117.38	424.82	396.19	1223.66	266.25	443.93	407.60	605.77	397.11
52448	64.07	7.26	-13.00	374.59	144.83	656.87	122.38	419.47	400.86	1204.44	271.60	443.44	392.53	506.92	400.86
52449	65.22	7.26	-13.00	362.48	142.15	630.53	129.64	416.64	399.16	1174.51	271.99	441.39	373.12	434.56	399.54
52450	66.37	7.26	-13.00	347.76	133.29	602.70	133.56	415.71	391.04	1134.77	266.74	437.54	349.93	383.24	392.26
52451	67.52	7.26	-13.00	330.12	120.99	573.58	131.14	414.62	379.87	1088.26	257.49	433.23	322.27	346.63	381.79
52452	68.67	7.26	-13.00	308.81	109.07	544.65	123.15	412.23	369.00	1038.43	246.72	429.62	290.79	320.16	371.25
52453	69.82	7.26	-13.00	283.94	99.57	517.33	111.98	408.77	360.02	988.04	236.23	427.15	257.53	301.35	362.28
52454	70.97	7.26	-13.00	256.57	92.76	492.46	99.52	404.91	353.11	938.75	226.64	425.70	224.59	288.77	355.19
52455	72.12	7.26	-13.00	228.11	88.08	470.45	86.64	401.23	347.89	891.52	217.81	424.96	193.26	281.36	349.70
52456	73.27	7.25	-13.00	199.92	84.87	451.56	73.66	398.01	344.00	847.06	209.39	424.74	164.09	278.11	345.51
52457	74.42	7.25	-13.00	173.37	82.62	436.02	60.75	395.36	341.18	805.91	201.03	424.89	137.31	278.11	342.40
52458	75.57	7.25	-13.00	150.12	80.93	424.06	48.09	393.32	339.26	768.55	192.48	425.33	113.03	280.55	340.21
52459	76.72	7.25	-13.00	132.37	79.57	415.90	36.18	391.90	338.14	735.27	183.54	426.04	91.47	284.81	338.86
52460	77.87	7.25	-13.00	122.72	78.37	411.73	26.36	391.09	337.78	706.19	174.04	427.00	73.14	290.36	338.29
52461	59.67	3.96	-14.33	707.89	238.34	746.78	220.47	441.08	414.63	849.27	432.94	373.56	278.77	723.14	414.70
52462	60.88	3.96	-14.33	639.81	212.18	704.66	188.33	413.88	384.71	1216.08	419.72	374.75	266.02	602.09	384.83
52463	62.09	3.96	-14.33	586.81	192.02	666.18	174.36	400.48	380.42	1437.74	402.80	375.01	260.83	513.68	380.51
52464	63.30	3.96	-14.33	542.00	176.75	630.85	166.50	393.55	378.81	1550.18	385.05	375.37	253.69	451.95	378.89
52465	64.51	3.96	-14.33	500.76	165.01	597.45	161.21	389.54	378.03	1586.27	367.65	375.90	242.98	409.22	378.12
52466	65.72	3.96	-14.33	461.12	155.63	565.58	156.40	387.09	377.24	1570.75	350.98	376.55	228.66	379.88	377.34
52467	66.94	3.96	-14.33	422.25	147.77	535.17	150.56	385.54	376.21	1521.67	334.94	377.26	211.15	360.07	376.33
52468	68.15	3.96	-14.33	383.75	141.06	506.32	142.97	384.52	375.00	1452.18	319.47	378.01	191.02	347.08	375.13
52469	69.36	3.96	-14.33	345.48	135.42	479.25	133.63	383.77	373.80	1371.82	304.63	378.79	169.07	339.00	373.92
52470	70.57	3.96	-14.33	307.58	130.77	454.26	122.97	383.17	372.73	1287.39	290.49	379.61	146.20	334.49	372.84
52471	71.78	3.95	-14.33	270.45	126.95	431.70	111.53	382.67	371.86	1203.61	277.02	380.47	123.21	332.57	371.95
52472	73.00	3.95	-14.33	234.82	123.80	411.97	99.81	381.26	371.21	1123.65	264.09	381.37	100.63	332.51	371.29
52473	74.21	3.95	-14.33	201.74	121.13	395.49	88.33	381.94	370.78	1049.54	251.49	382.30	78.77	333.78	370.84
52474	75.42	3.95	-14.33	172.84	118.83	382.67	77.65	381.72	370.55	982.49	239.02	383.26	57.74	335.96	370.60
52475	76.63	3.95	-14.33	150.48	116.81	373.89	68.58	381.58	370.51	923.11	226.46	384.25	37.61	338.71	370.55
52476	77.84	3.95	-14.33	137.68	115.01	369.41	62.17	381.50	370.65	871.53	213.62	385.27	18.66	341.77	370.67
52477	59.92	5.08	-14.33	676.03	248.15	746.21	209.88	399.46	394.91	889.09	455.04	392.20	378.83	669.83	394.92
52478	61.12	5.08	-14.33	619.81	222.55	706.79	182.57	377.69	370.43	1213.00	436.63	393.19	374.70	556.24	370.46
52479	62.31	5.08	-14.33	572.59	204.13	670.17	168.54	366.05	366.87	1405.03	413.76	393.58	368.93	472.26	366.90
52480	63.51	5.08	-14.33	531.14	191.27	636.31	161.03	359.51	366.02	1498.74	391.93	394.03	357.31	413.35	366.08
52481	64.70	5.07	-14.33	492.81	180.62	604.34	156.89	356.66	365.47	1524.05	371.89	394.56	340.36	372.72	365.57
52482	65.90	5.07	-14.33	456.01	169.48	573.84	153.12	353.40	364.28	1503.65	352.73	395.09	319.07	345.03	364.43
52483	67.09	5.07	-14.33	419.72	157.20	544.71	147.32	352.04	362.42	1454.04	333.82	395.60	294.07	326.43	362.60
52484	68.29	5.07	-14.33	383.24	144.72	517.05	138.58	351.09	360.27	1387.21	315.38	396.12	266.17	314.22	360.48
52485	69.48	5.07	-14.33	346.31	133.26	491.12	127.24	350.26	358.23	1311.70	297.93	396.67	236.57	306.52	358.43
52486	70.68	5.06	-14.33	309.16	123.51	467.24	114.12	349.49	356.50	1233.41	281.82	397.29	206.58	302.08	356.68
52487	71.87	5.06	-14.33	272.42	115.59	445.76	99.94	348.77	355.14	1156.29	267.01	397.97	177.31	300.04	355.30
52488	73.07	5.06	-14.33	237.00	109.29	427.05	85.17	348.15	354.12	1082.97	253.22	398.70	149.41	299.76	354.25
52489	74.27	5.06	-14.33	204.10	104.31	411.48	70.11	347.65	353.41	1015.14	240.12	399.49	123.26	300.76	353.51
52490	75.46	5.06	-14.33	175.38	100.40	399.40	55.07	347.27	352.96	953.84	227.35	400.31	99.07	302.66	353.04
52491	76.66	5.05	-14.33	153.26	97.39	391.13	40.53	347.02	352.77	899.62	214.62	401.19	77.16	305.16	352.83
52492	77.85	5.05	-14.33	140.71	95.16	386.91	27.91	346.87	352.80	852.62	201.71	402.11	58.30	307.99	352.84
52493	60.24	6.18	-14.33	650.33	268.42	747.89	207.49	403.64	396.89	909.95	468.10	415.70	490.35	653.66	397.04
52494	61.41	6.18	-14.33	598.29	247.87	710.57	182.81	383.60	377.01	1191.23	445.86	416.57	486.34	546.21	377.04
52495	62.59	6.18	-14.33	555.25	237.36	676.05	170.02	372.63	375.62	1352.59	422.59	417.23	474.00	467.90	375.62
52496	63.76	6.18	-14.33	518.31	231.79	644.30	165.14	366.15	376.25	1426.79	402.94	417.97	454.42	413.14	376.27
52497	64.94	6.17	-14.33	484.88	223.64	614.35	164.48	362.42	375.71	1441.11	384.39	418.51	429.75	375.60	375.81
52498	66.11	6.17	-14.33	452.84	209.08	585.60	163.00	360.42	373.13	1416.19	363.81	418.76	400.81		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
52529	58.63	3.96	-11.67	345.48	108.33	706.84	42.77	307.56	378.56	2036.20	188.36	449.08	46.63	1022.51	385.36
52530	55.43	5.07	-11.67	424.02	154.42	111.27	130.97	277.51	516.38	3068.80	1378.31	3269.18	155.13	2380.21	713.14
52531	56.30	5.07	-11.67	424.33	129.71	365.04	83.35	242.15	412.00	2852.79	873.96	993.96	83.82	1721.59	474.49
52532	57.16	5.08	-11.67	394.11	118.01	552.15	44.97	234.13	387.40	2533.03	556.60	385.58	46.85	1322.39	421.26
52533	58.03	5.08	-11.67	359.57	110.28	655.42	39.41	266.84	378.87	2247.49	316.82	360.49	36.97	1122.69	398.68
52534	58.89	5.08	-11.67	334.03	105.01	701.96	53.90	308.34	375.69	2004.63	151.62	444.36	75.38	1011.16	387.11
52535	55.70	6.17	-11.67	414.76	160.11	142.30	125.02	276.53	489.79	3094.36	1418.33	3226.47	127.28	2431.59	654.81
52536	56.58	6.18	-11.67	411.91	134.26	380.55	78.47	240.95	385.09	2866.02	847.75	995.41	96.62	1761.58	432.95
52537	57.46	6.18	-11.67	379.50	116.63	557.43	51.89	236.77	365.40	2527.54	479.22	409.31	50.71	1346.77	402.96
52538	58.33	6.18	-11.67	342.78	104.28	654.23	54.84	270.37	362.18	2210.14	229.28	367.38	81.97	1132.59	393.02
52539	59.21	6.18	-11.67	316.28	97.55	696.89	65.79	311.07	363.29	1941.16	92.00	436.05	146.12	996.28	385.14
52540	56.03	7.26	-11.67	404.08	180.65	188.56	119.60	270.17	432.85	3177.43	1340.80	3271.79	140.25	2551.85	635.67
52541	56.92	7.26	-11.67	393.25	140.73	397.88	80.33	239.76	339.84	2879.42	675.69	1020.56	87.81	1814.87	425.35
52542	57.81	7.26	-11.67	353.22	109.91	561.95	70.30	240.23	333.99	2448.31	301.33	437.98	153.03	1347.28	418.77
52543	58.70	7.26	-11.67	313.88	95.45	650.13	73.28	274.84	339.06	2080.06	116.32	373.37	225.72	1104.29	407.38
52544	59.59	7.26	-11.67	288.53	89.66	687.93	77.88	314.50	345.01	1793.51	72.09	425.37	272.23	952.30	391.19
52545	55.21	3.96	-13.00	34.95	100.13	352.99	27.46	87.08	472.93	127.08	350.34	1190.62	120.16	164.79	591.63
52546	56.07	3.96	-13.00	99.87	134.39	515.09	52.37	213.86	494.72	772.05	347.21	1126.25	112.72	1136.40	532.66
52547	56.92	3.96	-13.00	221.82	153.81	670.97	68.73	329.26	468.82	1156.62	198.52	502.45	98.44	1308.05	479.45
52548	57.78	3.96	-13.00	311.57	164.28	739.70	89.46	386.31	446.63	1300.44	101.18	331.40	116.72	1265.30	449.34
52549	58.63	3.96	-13.00	367.98	166.90	762.22	107.18	416.41	427.80	1356.16	125.58	377.92	143.26	1163.44	428.31
52550	55.43	5.07	-13.00	28.75	100.91	370.88	37.89	105.75	474.81	104.40	435.01	1119.33	165.78	208.74	647.21
52551	56.30	5.07	-13.00	101.90	133.35	523.00	63.26	208.85	491.94	789.71	380.13	1092.00	147.13	1130.97	542.40
52552	57.16	5.08	-13.00	216.33	155.37	671.09	78.00	315.47	466.75	1174.82	196.61	507.43	132.47	1289.48	481.45
52553	58.03	5.08	-13.00	302.61	164.54	736.93	96.59	372.57	446.37	1312.64	95.12	350.17	156.31	1240.41	451.41
52554	58.89	5.08	-13.00	358.07	164.97	757.49	111.86	403.14	429.97	1357.26	142.73	388.27	191.43	1132.22	431.90
52555	55.70	6.17	-13.00	22.26	113.67	383.17	45.31	121.89	452.48	77.19	481.31	1086.62	226.62	251.05	681.12
52556	56.58	6.18	-13.00	103.32	140.34	535.54	69.88	214.02	465.41	816.79	364.45	1087.50	204.29	1151.22	529.91
52557	57.46	6.18	-13.00	212.40	158.41	678.61	84.60	316.45	443.01	1189.68	161.60	529.49	201.57	1288.88	467.30
52558	58.33	6.18	-13.00	295.32	162.94	740.06	101.87	372.84	427.41	1308.55	101.29	380.90	237.37	1220.15	440.40
52559	59.21	6.18	-13.00	347.93	160.47	757.58	113.93	402.53	416.28	1333.85	170.02	408.15	279.32	1097.56	423.77
52560	56.03	7.26	-13.00	17.90	136.51	384.97	59.20	134.61	406.90	58.74	464.08	1066.21	286.78	274.57	687.21
52561	56.92	7.26	-13.00	104.19	148.87	549.97	81.43	229.45	417.85	830.09	298.36	1066.43	286.82	1164.58	524.54
52562	57.81	7.26	-13.00	210.18	154.74	687.13	93.83	330.29	402.88	1166.23	110.19	534.69	304.04	1264.38	464.34
52563	58.70	7.26	-13.00	287.71	152.75	740.82	106.12	383.59	394.93	1252.73	119.96	405.97	343.72	1169.38	434.41
52564	59.59	7.26	-13.00	334.40	148.49	754.08	113.24	411.29	390.53	1260.58	184.83	425.37	378.32	1037.20	414.08
52565	55.21	3.96	-14.33	355.20	266.52	594.12	210.98	272.51	635.41	313.53	147.61	518.36	187.54	248.66	646.70
52566	56.07	3.96	-14.33	556.01	275.52	759.17	191.37	441.13	534.28	492.03	245.51	443.14	169.15	538.52	544.10
52567	56.92	3.96	-14.33	637.12	273.41	780.54	183.44	486.71	516.01	247.03	334.97	398.55	196.20	807.79	517.90
52568	57.78	3.96	-14.33	686.12	268.16	782.74	195.07	490.93	501.17	127.43	397.79	363.97	229.16	880.72	501.25
52569	58.63	3.96	-14.33	731.15	258.65	775.25	225.59	472.93	467.06	458.14	428.58	368.28	269.44	832.86	467.01
52570	55.43	5.07	-14.33	305.78	201.98	617.22	162.39	237.45	578.28	247.65	128.20	503.42	181.21	225.08	605.27
52571	56.30	5.07	-14.33	498.53	270.22	760.85	159.78	376.28	498.39	400.47	217.07	454.76	234.02	483.71	514.17
52572	57.16	5.08	-14.33	596.41	280.18	781.64	167.70	425.72	480.75	171.64	338.64	415.68	291.49	748.01	484.13
52573	58.03	5.08	-14.33	652.35	273.44	783.05	185.69	436.04	465.88	207.37	413.40	384.40	332.12	820.15	466.25
52574	58.89	5.08	-14.33	693.90	266.08	773.85	213.38	424.23	437.17	529.59	449.80	387.86	366.12	774.07	437.16
52575	55.70	6.17	-14.33	296.14	220.81	623.36	149.16	250.45	561.12	215.19	193.69	506.71	206.10	249.89	605.28
52576	56.58	6.18	-14.33	479.00	300.30	765.70	161.13	375.21	487.19	340.65	237.55	471.90	327.19	493.02	510.15
52577	57.46	6.18	-14.33	578.75	302.17	786.05	177.02	425.91	469.55	126.39	358.34	438.59	401.85	747.87	475.46
52578	58.33	6.18	-14.33	632.08	288.09	785.52	191.63	437.64	456.27	280.97	430.93	409.83	443.49	810.01	457.81
52579	59.21	6.18	-14.33	668.00	282.19	774.84	212.51	426.89	432.31	587.35	465.42	412.20	475.79	757.71	432.85
52580	56.03	7.26	-14.33	326.09	314.22	614.92	164.87	298.21	578.05	218.77	263.54	522.28	282.09	310.82	632.89
52581	56.92	7.26	-14.33	505.64	338.23	774.01	193.02	429.08	493.90	319.20	267.90	484.87	442.56	556.38	523.01
52582	57.81	7.26	-14.33	583.59	310.46	791.90	196.07	476.40	476.16	122.65	356.15	459.73	520.51	788.09	488.26
52583	58.70	7.26	-14.33	617.60	297.28	788.36	202.29	483.77	467.03	345.76	423.43	436.65	567.64	827.66	472.70
52584	59.59	7.26	-14.33	642.32	299.26	776.39	217.30	471.53	447.74	629.19	456.93	438.86	601.76	766.38	450.60
52585	96.97	8.10	-11.67	125.74	75.62	655.42	83.99	305.99	347.19	190.60	66.88	390.84	87.63	227.79	346.78
52586	97.87	8.10	-11.67	82.48	78.02	623.65	76.90	253.69	338.46	128.74	76.13	361.76	82.04	187.62	337.29
52587	98.78	8.10	-11.67	42.30	81.64	553.84	66.49	188.13	327.28	68.51	86.13	332.66	72.98	141.35	325.07
52588	99.68	8.10	-11.67	26.84	87.68	431.51	51.63	131.64	310.36	29.97	97.18	360.90	58.48	114.35	307.01
52589	100.59	8.10	-11.67	17.16	88.81	315.60	40.71	111.71	293.68	20.00	101.93	517.94	45.21	110.93	290.77
52590	96.69	8.70	-11.67	124.64	73.90	647.66	85.21	307.68	341.65	191.32	64.40	394.64	89.80	229.46	341.17
52591	97.61	8.70	-11.67	83.84	76.41	618.24	79.09	257.71	332.22	131.63	73.79	365.40	85.47	191.35	330.88
52592	98.52	8.70	-11.67	46.09	80.81	553.06	69.67	195.21	320.67	73.47	84.62	334.79	77.50	147.75	318.20
52593	99.44	8.70	-11.67	30.06	87.36	436.51	55.29	140.49	303.90	34.86	96.15	354.54	63.39	121.85	300.44
52594	100.36	8.70	-11.67	20.33	93.04	320.28	44.50	119.95	285.35	24.02	106.80	501.11	50.14	118.90	282.78
52595	96.97	8.10	-13.00	294.72	131.21	734.17	121.36	399.08	371.40	360.31	102.39	447.71	123.64	348.96	371.17
52596	97.87	8.10	-13.00	253.22	136.66	730.29	118.96	364.64	369.42	300.25	116.02	428.90	122.16	322.68	368.82</

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
52627	89.18	8.10	-11.67	230.40	72.96	567.11	101.22	399.83	364.02	453.45	64.54	450.15	99.53	311.51	363.73
52628	89.01	8.70	-11.67	229.71	69.38	571.31	100.20	397.57	358.94	451.25	65.05	457.97	97.37	309.11	358.63
52629	88.05	8.10	-11.67	222.35	68.31	537.67	94.59	400.06	356.06	469.68	69.43	444.50	92.82	310.53	355.76
52630	87.90	8.70	-11.67	222.28	65.21	541.73	93.63	397.09	351.40	467.53	70.61	451.75	90.31	307.37	351.09
52631	86.92	8.10	-11.67	210.28	64.21	508.89	85.89	398.38	348.90	482.99	76.66	438.84	83.84	306.19	348.63
52632	86.79	8.70	-11.67	210.24	61.68	513.08	85.41	394.48	344.71	480.23	77.90	445.75	81.24	302.19	344.45
52633	85.79	8.10	-11.67	194.82	61.10	482.26	76.18	395.76	342.86	494.13	85.31	433.73	73.68	299.54	342.66
52634	85.67	8.70	-11.67	194.58	59.05	486.79	76.45	391.01	339.09	490.41	86.19	440.46	71.12	294.87	338.90
52635	84.66	8.10	-11.67	177.09	58.97	458.48	66.06	392.99	337.85	504.18	94.57	429.28	63.13	291.49	337.73
52636	84.56	8.70	-11.67	176.61	57.27	463.46	67.26	387.56	334.39	499.34	94.89	435.90	60.59	286.39	334.29
52637	83.53	8.10	-11.67	158.33	57.67	437.97	55.94	390.52	333.72	514.18	103.95	425.41	52.95	282.64	333.70
52638	83.45	8.70	-11.67	157.66	56.20	443.41	58.19	384.59	330.48	508.12	103.63	431.97	50.32	277.35	330.49
52639	82.40	8.10	-11.67	139.80	57.04	421.06	46.19	388.57	330.35	524.92	113.18	422.05	44.35	273.40	330.48
52640	82.34	8.70	-11.67	138.96	55.70	426.91	49.65	382.26	327.27	517.52	112.20	428.55	41.46	268.10	327.42
52641	81.27	8.10	-11.67	122.91	56.91	408.03	37.44	387.21	327.71	537.02	122.09	419.11	39.41	264.03	328.02
52642	81.23	8.70	-11.67	121.93	55.64	414.23	42.25	380.63	324.74	528.13	120.45	425.57	36.19	258.88	325.08
52643	80.14	8.10	-11.67	109.44	57.15	399.18	30.84	386.44	325.78	550.96	130.57	416.58	40.50	254.78	326.33
52644	80.12	8.70	-11.67	108.33	55.89	405.64	36.91	379.68	322.90	540.40	128.26	423.00	37.21	249.88	323.48
52645	79.01	8.10	-11.67	101.44	57.65	394.77	28.05	386.23	324.56	567.04	138.53	414.44	48.10	245.89	325.39
52646	79.01	8.70	-11.67	100.21	56.35	401.37	34.70	379.35	321.73	554.63	135.52	420.84	45.04	241.35	322.62
52647	95.95	8.10	-13.00	324.31	127.04	720.71	120.14	421.26	376.58	412.57	92.20	459.05	121.35	364.98	376.64
52648	95.68	8.70	-13.00	307.60	130.03	705.60	115.47	420.19	373.29	398.06	96.41	455.05	117.01	364.15	373.34
52649	94.82	8.10	-13.00	342.21	127.61	697.50	117.31	429.93	384.96	457.16	91.74	466.55	117.71	369.97	385.20
52650	94.56	8.70	-13.00	326.64	132.80	685.39	112.98	429.62	384.09	443.09	99.22	465.54	113.54	370.09	384.35
52651	93.69	8.10	-13.00	346.74	132.12	675.72	117.51	427.41	395.52	489.31	98.86	473.59	117.53	366.40	395.76
52652	93.45	8.70	-13.00	335.70	137.72	669.35	115.32	426.89	396.19	479.07	106.90	476.43	115.33	366.28	396.44
52653	92.56	8.10	-13.00	345.74	136.94	657.10	125.48	423.33	401.89	516.39	105.65	479.28	125.36	362.97	401.95
52654	92.34	8.70	-13.00	339.31	141.65	656.52	125.85	423.73	402.48	510.41	112.82	484.59	125.54	363.72	402.50
52655	91.43	8.10	-13.00	341.40	134.33	635.72	134.87	421.84	397.38	540.17	102.66	479.70	134.80	362.84	397.21
52656	91.23	8.70	-13.00	340.86	137.93	637.64	136.68	424.09	395.75	539.38	109.26	484.69	136.38	365.26	395.49
52657	90.30	8.10	-13.00	334.07	122.85	609.06	137.72	421.22	384.21	560.92	90.95	474.94	137.82	363.47	383.87
52658	90.12	8.70	-13.00	337.82	124.72	610.05	138.67	423.48	379.98	563.69	97.02	477.75	138.49	365.76	379.56
52659	89.18	8.10	-13.00	321.95	107.88	579.08	132.11	418.64	368.49	577.22	79.88	467.65	132.20	361.48	368.11
52660	89.01	8.70	-13.00	326.92	108.98	578.17	131.71	419.09	363.03	580.64	86.46	468.25	131.36	361.86	362.60
52661	88.05	8.10	-13.00	303.99	94.74	549.04	121.13	413.69	354.64	588.40	77.08	460.33	120.73	356.14	354.29
52662	87.90	8.70	-13.00	308.55	95.58	546.85	120.18	411.74	349.26	590.77	83.48	459.62	119.09	354.06	348.88
52663	86.92	8.10	-13.00	281.02	85.39	521.09	108.30	407.61	343.88	595.60	82.60	454.13	106.78	348.62	343.60
52664	86.79	8.70	-13.00	284.41	85.69	518.38	107.51	403.58	339.14	596.09	87.35	452.84	105.00	344.48	338.84
52665	85.79	8.10	-13.00	254.87	79.62	496.02	95.43	401.67	335.67	600.83	92.71	449.10	92.15	340.21	335.44
52666	85.67	8.70	-13.00	257.16	78.86	493.24	95.10	396.10	331.56	599.38	95.19	447.56	90.60	334.65	331.33
52667	84.66	8.10	-13.00	227.33	76.57	474.04	83.07	396.51	329.25	605.97	104.62	444.98	77.49	331.62	329.09
52668	84.56	8.70	-13.00	228.80	74.37	471.37	83.20	389.85	325.64	602.71	104.91	443.33	76.28	325.13	325.48
52669	83.53	8.10	-13.00	199.83	75.43	455.27	71.45	392.33	324.16	612.33	116.96	441.54	63.17	323.16	324.07
52670	83.45	8.70	-13.00	200.71	71.64	452.78	71.96	384.87	320.94	607.31	115.37	439.85	62.41	316.08	320.86
52671	82.40	8.10	-13.00	173.66	75.51	439.85	60.90	389.12	320.14	620.76	129.06	438.63	50.03	314.94	320.14
52672	82.34	8.70	-13.00	174.09	70.24	437.56	61.72	381.09	317.23	613.92	125.95	436.92	49.95	307.54	317.23
52673	81.27	8.10	-13.00	150.34	76.30	428.00	52.02	386.84	317.07	631.86	140.63	436.14	40.11	307.08	317.16
52674	81.23	8.70	-13.00	150.41	69.78	425.88	53.06	378.40	314.40	623.03	136.28	434.43	41.15	299.56	314.50
52675	80.14	8.10	-13.00	132.00	77.39	419.94	45.82	385.42	314.90	646.01	151.48	434.05	37.46	299.68	315.13
52676	80.12	8.70	-13.00	131.78	69.95	417.96	46.91	376.73	312.43	634.98	146.15	432.32	39.92	292.21	312.68
52677	79.01	8.10	-13.00	121.34	78.52	415.88	43.47	384.81	313.68	663.49	161.50	432.34	44.78	292.84	314.08
52678	79.01	8.70	-13.00	120.91	70.54	414.01	44.46	375.98	311.38	650.03	155.35	430.61	48.09	285.57	311.80
52679	95.95	8.10	-14.33	581.80	254.31	743.67	193.34	508.87	440.86	665.85	212.81	482.29	189.64	488.10	440.88
52680	95.68	8.70	-14.33	526.81	191.18	729.93	169.03	508.95	440.17	614.25	132.41	476.91	172.02	488.28	440.19
52681	94.82	8.10	-14.33	522.97	263.03	711.05	170.46	493.22	436.13	639.08	227.69	481.67	166.88	470.91	436.18
52682	94.56	8.70	-14.33	474.14	192.51	700.14	135.44	505.72	447.61	592.77	142.20	479.33	136.20	483.62	447.68
52683	93.69	8.10	-14.33	489.95	291.60	684.03	167.56	485.82	449.38	640.04	263.75	483.63	165.80	463.19	449.44
52684	93.45	8.70	-14.33	456.80	224.52	677.02	132.33	507.07	472.23	608.62	188.41	484.31	132.12	484.62	472.30
52685	92.56	8.10	-14.33	474.49	312.00	660.18	180.34	481.18	457.02	659.18	286.90	485.55	181.27	459.02	457.03
52686	92.34	8.70	-14.33	470.64	248.81	657.87	162.44	504.86	482.40	656.83	216.57	488.48	162.68	482.91	482.39
52687	91.43	8.10	-14.33	465.35	297.57	635.68	193.62	478.96	450.90	684.03	270.79	484.78	197.07	457.56	450.84
52688	91.23	8.70	-14.33	479.61	219.96	634.40	185.69	498.95	467.27	699.11	181.34	486.67	186.06	477.65	467.17
52689	90.30	8.10	-14.33	451.12	256.32	609.06	192.44	476.53	436.45	703.01	227.34	481.30	198.11	455.84	436.36
52690	90.12	8.70	-14.33	470.76	169.50	606.53	187.73	489.39	442.84	722.92	122.16	480.95	186.98	468.74	442.71
52691	89.18	8.10	-14.33	427.15	209.70	581.84	177.46	472.42	421.22	712.00	180.93	476.83	185.09	452.18	421.12
52692	89.01	8.70	-14.33	444.67	130.63	577.81	177.61	477.00	420.22	729.53	80.76	474.55	173.87	456.75	420.09
52693	88.05	8.10	-14.33	394.68	170.24	555.82	155.64	467.13	408.86	712.81	146.30	472.68	164.92	446.92	408.78
52694	87.90	8.70	-14.33	406.69	115.74	550.73	165.41	464.06	403.48	724.53	82.10	469.12	156.49	443.80	403.39
52695	86.92	8.10	-14.33	357.38	141.05	532.01	133.13	461.76							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
52725	76.76	8.10	-11.67	107.34	59.17	399.58	35.81	387.47	324.08	606.45	152.69	411.32	76.30	230.47	325.68
52726	77.89	8.10	-11.67	100.64	58.34	394.92	30.05	386.57	323.99	585.46	145.91	412.71	60.58	237.66	325.19
52727	61.22	8.70	-11.67	233.87	82.11	673.53	88.20	346.70	340.50	1260.58	107.57	436.25	406.04	711.02	383.39
52728	62.34	8.70	-11.67	241.26	81.93	667.49	87.52	368.56	349.81	1136.73	132.52	446.16	377.14	607.77	365.84
52729	63.45	8.70	-11.67	247.94	82.01	656.18	89.40	379.15	357.44	1048.43	149.92	449.17	351.73	514.38	361.64
52730	64.56	8.70	-11.67	250.13	81.72	642.93	93.32	385.59	361.65	981.94	161.59	448.81	328.69	433.95	361.95
52731	65.67	8.70	-11.67	248.62	80.42	625.51	97.04	391.70	361.15	928.04	167.64	444.54	300.71	372.84	361.50
52732	66.78	8.70	-11.67	244.64	77.56	601.87	98.48	397.49	356.54	879.21	171.55	437.25	283.05	326.83	358.35
52733	67.89	8.70	-11.67	237.81	73.77	573.44	96.70	400.74	349.80	833.91	172.92	429.41	259.37	292.11	353.01
52734	69.00	8.70	-11.67	227.06	69.94	543.41	92.04	400.63	342.84	792.28	172.20	423.11	233.90	265.52	346.85
52735	70.11	8.70	-11.67	212.33	66.68	514.43	85.61	398.16	336.87	754.34	170.64	419.00	207.74	245.44	341.07
52736	71.23	8.70	-11.67	194.54	64.15	487.89	78.24	394.59	332.09	719.87	168.43	416.71	181.94	231.45	336.12
52737	72.34	8.70	-11.67	174.99	62.22	464.37	70.40	390.82	328.36	688.46	165.65	415.69	157.18	222.93	332.01
52738	73.45	8.70	-11.67	154.94	60.73	444.20	62.37	387.36	325.52	659.81	162.28	415.51	133.84	219.05	328.67
52739	74.56	8.70	-11.67	135.70	59.54	427.61	54.43	384.44	323.45	633.76	158.26	415.89	112.08	218.93	326.07
52740	75.67	8.70	-11.67	118.74	58.56	414.84	46.96	382.16	322.06	610.27	153.59	416.68	92.01	221.76	324.18
52741	76.78	8.70	-11.67	105.92	57.72	406.10	40.56	380.56	321.32	589.30	148.24	417.77	73.80	226.85	322.97
52742	77.89	8.70	-11.67	99.29	56.98	401.55	36.11	379.64	321.22	570.81	142.20	419.13	57.82	233.55	322.46
52743	60.95	8.10	-13.00	345.58	136.61	729.71	112.31	427.43	368.94	1158.62	213.77	443.92	450.91	821.61	389.90
52744	62.08	8.10	-13.00	361.90	136.40	705.07	111.38	432.69	376.83	1149.52	233.38	451.22	447.77	690.63	384.32
52745	63.21	8.10	-13.00	364.96	138.63	681.06	112.66	428.66	387.03	1139.25	243.99	456.16	432.28	579.40	388.81
52746	64.34	8.10	-13.00	362.04	141.17	660.39	120.91	424.15	393.29	1119.57	251.00	458.55	411.11	492.32	393.33
52747	65.47	8.10	-13.00	355.53	137.69	637.57	131.03	422.70	389.06	1089.53	252.12	455.62	387.38	429.25	389.49
52748	66.60	8.10	-13.00	345.81	126.91	610.09	135.45	422.33	376.41	1051.45	246.99	449.07	359.84	384.18	377.93
52749	67.72	8.10	-13.00	331.19	113.53	579.69	131.83	420.11	361.26	1009.06	238.33	442.05	327.34	350.31	363.63
52750	68.85	8.10	-13.00	310.80	102.11	549.40	122.79	415.49	347.95	965.60	228.96	436.58	291.15	324.21	350.67
52751	69.98	8.10	-13.00	285.59	94.05	521.26	111.69	409.58	337.79	922.80	220.58	433.04	254.19	304.57	340.46
52752	71.11	8.10	-13.00	257.43	88.85	496.07	100.29	403.64	330.27	881.37	213.31	430.93	218.66	290.79	332.71
52753	72.24	8.10	-13.00	228.18	85.62	474.03	89.12	398.34	324.66	841.65	206.67	429.76	185.52	282.17	326.77
52754	73.37	8.10	-13.00	199.32	83.62	455.24	78.33	393.90	320.46	804.09	200.21	429.23	155.01	277.78	322.23
52755	74.50	8.10	-13.00	172.23	82.29	439.87	68.10	390.37	317.39	769.19	193.57	429.17	127.13	276.73	318.81
52756	75.63	8.10	-13.00	148.53	81.31	428.08	58.77	387.71	315.25	737.42	186.53	429.48	101.83	278.26	316.37
52757	76.76	8.10	-13.00	130.45	80.43	420.06	50.90	385.91	313.94	709.11	178.93	430.11	79.20	281.76	314.78
52758	77.89	8.10	-13.00	120.72	79.53	415.94	45.41	384.96	313.39	684.48	170.63	431.05	59.71	286.75	314.00
52759	61.22	8.70	-13.00	327.72	140.40	713.79	109.58	424.40	366.83	1079.67	197.97	439.73	481.01	763.62	392.34
52760	62.34	8.70	-13.00	345.14	141.39	692.12	108.30	431.22	376.97	1079.18	217.86	450.49	468.57	652.82	385.99
52761	63.45	8.70	-13.00	352.20	143.76	673.93	110.89	427.45	388.60	1071.12	229.89	459.27	447.04	554.98	390.78
52762	64.56	8.70	-13.00	353.46	145.48	659.12	121.10	424.04	394.79	1052.38	237.89	462.75	422.79	476.76	394.84
52763	65.67	8.70	-13.00	352.51	140.90	638.97	132.47	424.42	388.43	1022.55	238.70	458.07	397.55	422.42	388.93
52764	66.78	8.70	-13.00	346.91	128.15	610.79	136.06	424.09	373.22	985.83	233.34	448.99	368.02	381.57	374.89
52765	67.89	8.70	-13.00	333.65	113.49	578.65	131.03	420.15	356.78	947.88	224.91	440.21	333.22	348.93	359.33
52766	69.00	8.70	-13.00	313.12	101.27	547.15	121.31	413.18	343.47	910.36	216.31	434.11	295.37	322.58	346.30
52767	70.11	8.70	-13.00	287.04	92.25	518.55	110.19	405.22	333.89	874.04	209.03	430.54	257.56	302.04	336.61
52768	71.23	8.70	-13.00	258.07	85.91	493.32	99.10	397.78	326.95	838.85	202.77	428.56	221.79	287.40	329.42
52769	72.34	8.70	-13.00	228.27	81.41	471.43	88.30	391.42	321.79	804.83	196.96	427.55	188.69	278.03	323.93
52770	73.45	8.70	-13.00	199.08	78.17	452.86	77.85	386.24	317.92	772.38	191.15	427.17	158.30	272.95	319.71
52771	74.56	8.70	-13.00	171.79	75.78	437.71	67.94	382.17	315.08	742.05	185.08	427.23	130.54	271.25	316.52
52772	75.67	8.70	-13.00	147.97	73.97	426.11	58.92	379.15	313.08	714.33	178.57	427.65	105.34	272.19	314.22
52773	76.78	8.70	-13.00	129.85	72.55	418.22	51.38	377.13	311.83	689.61	171.49	428.35	82.79	275.17	312.69
52774	77.89	8.70	-13.00	120.15	71.42	414.13	46.17	376.10	311.23	668.15	163.78	429.32	63.27	279.74	311.86
52775	60.95	8.10	-14.33	585.10	262.99	745.74	187.45	511.15	437.98	899.70	404.67	454.42	648.93	694.68	440.64
52776	62.08	8.10	-14.33	533.27	267.24	712.87	170.04	494.07	432.72	1111.21	398.10	458.38	640.24	610.61	433.67
52777	63.21	8.10	-14.33	504.75	290.21	685.24	169.01	485.95	445.29	1217.21	403.97	462.59	619.45	552.04	445.51
52778	64.34	8.10	-14.33	490.59	306.37	660.77	181.02	481.03	452.48	1249.04	410.36	464.82	590.37	510.17	452.48
52779	65.47	8.10	-14.33	480.59	290.84	635.84	193.87	478.68	446.42	1236.18	395.30	463.84	554.11	481.73	446.56
52780	66.60	8.10	-14.33	464.62	250.83	609.01	193.70	476.27	432.31	1202.23	361.70	460.97	507.83	461.26	432.67
52781	67.72	8.10	-14.33	438.65	206.47	581.71	180.54	472.30	417.38	1159.58	325.17	458.03	454.04	444.91	417.87
52782	68.85	8.10	-14.33	404.11	169.60	555.64	160.66	467.15	405.25	1113.54	294.64	455.89	397.82	431.70	405.75
52783	69.98	8.10	-14.33	364.68	142.95	531.77	139.92	461.86	396.52	1066.05	272.03	454.63	344.18	421.48	396.97
52784	71.11	8.10	-14.33	323.88	124.44	510.44	120.49	457.21	390.16	1017.82	255.32	453.98	295.50	414.19	390.54
52785	72.24	8.10	-14.33	283.81	111.72	491.72	102.28	453.37	385.34	970.01	242.18	453.71	251.91	409.45	385.65
52786	73.37	8.10	-14.33	245.71	103.11	475.72	84.91	450.29	381.66	923.99	231.06	453.72	213.03	406.73	381.92
52787	74.50	8.10	-14.33	210.75	97.35	462.61	68.14	447.88	378.90	880.97	220.97	453.94	178.50	405.59	379.10
52788	75.63	8.10	-14.33	180.53	93.49	452.57	51.83	446.09	376.91	841.92	211.20	454.36	148.10	405.66	377.06
52789	76.76	8.10	-14.33	157.47	90.85	445.77	36.04	444.89	375.58	807.54	201.31	454.94	121.80	406.69	375.69
52790	77.89	8.10	-14.33	144.81	89.02	442.31	21.51	444.29	374.87	778.36	190.94	455.68	100.03	408.53	374.95
52791	61.22	8.70	-14.33	532.83	198.25	731.95	160.71	510.05	437.56	897.73	327.45	451.39	574.91	665.47	441.28
52792	62.34	8.70	-14.33	487.06	197.84	701.83	133.80	505.19	443.91	1087.23	323.34	458.35	576.35	603.98	445.24
52793	63.45	8.													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
52823	57.46	8.70	-13.00	106.21	147.01	567.84	94.27	241.91	364.12	758.48	216.05	836.45	438.60	1013.07	608.29
52824	58.38	8.70	-13.00	201.19	142.98	681.20	103.20	328.76	359.69	992.26	88.50	466.07	465.47	1061.42	526.49
52825	59.29	8.70	-13.00	265.12	142.40	720.40	108.86	377.10	359.20	1056.73	121.01	407.85	479.87	979.41	461.62
52826	60.21	8.70	-13.00	301.94	141.33	726.71	110.47	406.21	360.75	1074.61	166.80	424.23	485.33	875.05	416.50
52827	56.31	8.10	-14.33	407.76	356.04	607.82	190.14	371.11	590.42	270.09	218.32	523.85	298.41	402.30	638.45
52828	57.22	8.10	-14.33	533.32	287.81	775.01	173.17	505.55	493.49	297.85	199.72	477.94	438.15	640.92	527.28
52829	58.12	8.10	-14.33	576.25	263.94	789.52	168.42	542.74	482.16	123.76	296.35	462.11	528.94	834.59	503.24
52830	59.03	8.10	-14.33	592.47	256.69	783.94	176.88	547.22	477.51	390.53	365.78	446.46	593.49	852.92	489.20
52831	59.93	8.10	-14.33	610.71	261.28	771.30	193.15	534.61	462.02	650.24	397.55	450.10	635.62	788.48	468.15
52832	56.54	8.70	-14.33	411.75	325.81	607.25	253.19	350.07	558.61	260.17	130.01	502.04	207.52	394.47	596.22
52833	57.46	8.70	-14.33	514.09	262.86	765.49	191.36	482.33	470.86	228.95	166.50	460.64	305.17	626.72	512.57
52834	58.38	8.70	-14.33	541.79	252.55	778.26	183.54	517.52	464.82	130.45	255.53	447.12	419.70	782.25	493.28
52835	59.29	8.70	-14.33	550.90	233.99	770.66	180.68	527.02	463.32	422.39	310.14	438.93	498.09	792.84	479.59
52836	60.21	8.70	-14.33	561.02	212.77	756.66	180.41	522.57	452.35	668.70	326.11	444.40	550.52	738.89	460.89
52837	79.15	20.20	-11.67	54.72	40.06	684.76	20.29	290.86	194.62	235.09	51.10	694.29	70.17	184.17	194.62
52838	80.55	20.10	-11.67	59.30	39.27	685.03	20.42	289.55	197.46	235.29	51.63	692.49	58.84	184.48	197.23
52839	81.94	19.90	-11.67	67.22	37.62	684.52	22.58	287.81	202.85	236.23	51.45	687.02	49.11	185.08	202.23
52840	83.31	19.62	-11.67	76.91	35.06	683.03	26.63	285.88	210.44	237.36	50.24	677.81	42.13	186.01	209.40
52841	84.65	19.23	-11.67	87.11	31.53	680.71	32.09	283.62	220.12	238.29	47.69	665.12	38.93	186.89	218.69
52842	85.97	18.76	-11.67	97.09	27.30	677.58	38.65	280.91	231.74	238.88	43.88	649.03	40.22	187.41	230.04
52843	87.25	18.19	-11.67	106.41	23.28	673.52	45.94	277.79	245.25	239.00	39.28	629.55	45.40	187.41	243.41
52844	88.49	17.54	-11.67	114.71	21.36	668.32	53.39	274.34	260.56	238.45	34.91	606.62	52.79	186.82	258.73
52845	89.68	16.80	-11.67	121.72	23.56	661.58	60.12	270.68	277.39	237.04	32.42	580.14	60.48	185.60	275.70
52846	90.82	15.98	-11.67	127.18	28.95	652.88	65.33	267.26	294.68	234.59	32.65	550.31	67.09	184.01	293.26
52847	91.89	15.08	-11.67	130.66	34.47	642.32	69.21	265.34	309.75	230.70	33.55	518.45	72.64	183.20	308.65
52848	92.91	14.11	-11.67	131.53	39.35	631.19	73.41	267.19	319.77	224.47	33.53	487.55	78.51	185.73	319.99
52849	93.85	13.08	-11.67	129.40	46.66	622.48	79.35	274.94	324.89	215.49	36.00	460.89	85.71	194.22	324.29
52850	94.72	11.98	-11.67	125.49	56.93	619.14	85.34	286.91	329.23	205.06	44.43	438.23	92.16	207.11	328.66
52851	95.51	10.82	-11.67	122.47	65.45	623.07	87.77	298.58	333.98	196.38	53.52	417.85	94.18	219.71	333.38
52852	96.21	9.62	-11.67	122.51	71.00	635.37	86.39	305.41	336.86	191.82	60.52	402.44	91.77	227.17	336.31
52853	79.19	21.03	-11.67	55.48	21.64	664.47	15.43	287.54	150.50	211.77	32.15	673.53	55.35	179.73	150.47
52854	80.67	20.93	-11.67	58.62	19.94	664.62	15.64	285.55	153.51	209.98	32.86	671.15	44.32	179.06	152.96
52855	82.14	20.72	-11.67	63.88	18.13	663.58	18.68	283.26	160.03	208.66	33.54	664.72	35.76	179.21	158.59
52856	83.59	20.41	-11.67	70.14	16.34	661.64	23.46	280.63	169.72	207.15	33.77	654.73	31.07	179.95	167.26
52857	85.02	19.99	-11.67	76.56	14.55	659.04	29.10	277.17	181.97	205.23	33.14	641.48	31.02	180.53	178.61
52858	86.41	19.48	-11.67	82.82	13.82	655.68	35.30	272.69	196.34	203.01	31.97	624.97	35.21	180.45	192.33
52859	87.77	18.87	-11.67	88.68	15.78	651.38	41.76	267.25	212.54	200.50	31.11	605.16	42.00	179.46	208.19
52860	89.07	18.17	-11.67	93.97	20.91	645.88	47.98	260.94	230.27	197.66	31.68	582.04	49.65	177.37	225.92
52861	90.33	17.37	-11.67	98.60	27.91	638.86	53.29	253.95	249.03	194.43	34.29	555.65	56.84	174.08	244.99
52862	91.52	16.49	-11.67	102.29	34.67	630.04	57.47	246.96	267.56	190.54	37.71	526.47	63.08	169.97	264.08
52863	92.65	15.53	-11.67	104.17	39.28	619.74	61.50	241.64	283.57	185.10	39.49	495.97	69.23	166.59	280.80
52864	93.71	14.48	-11.67	103.01	42.45	609.43	67.10	240.48	295.18	176.69	39.48	466.70	76.58	166.83	293.05
52865	94.69	13.37	-11.67	98.48	48.45	601.58	74.27	244.46	303.46	164.97	42.78	440.57	84.57	172.33	301.70
52866	95.59	12.19	-11.67	92.61	58.14	597.99	80.60	251.29	312.47	152.41	52.02	416.11	90.69	181.09	310.77
52867	96.40	10.95	-11.67	87.97	66.32	599.87	83.12	257.37	321.46	142.29	61.20	392.28	92.24	189.09	319.77
52868	97.13	9.66	-11.67	84.95	72.36	608.94	81.17	258.96	326.53	134.98	68.71	374.12	88.72	192.12	324.98
52869	79.23	21.87	-11.67	65.94	5.16	622.90	9.37	280.28	98.00	192.04	17.18	631.72	38.19	170.49	97.90
52870	80.80	21.76	-11.67	66.80	4.55	620.95	10.41	277.86	100.30	187.61	19.50	626.59	27.88	169.32	98.92
52871	82.35	21.54	-11.67	68.68	7.07	618.33	15.51	275.52	109.05	183.40	22.15	618.15	22.09	169.82	105.42
52872	83.88	21.20	-11.67	70.71	10.52	615.70	21.46	272.68	122.33	178.52	24.65	607.37	22.51	171.39	116.34
52873	85.39	20.76	-11.67	72.32	14.73	612.89	27.39	268.46	138.31	173.06	26.91	594.08	27.43	172.83	130.39
52874	86.86	20.20	-11.67	73.54	19.79	609.45	33.22	262.72	156.10	167.40	29.42	577.95	34.45	173.47	146.91
52875	88.28	19.55	-11.67	74.45	25.74	605.14	38.75	255.53	175.19	161.66	32.70	558.92	41.99	172.92	165.44
52876	89.65	18.79	-11.67	75.22	32.41	599.71	43.62	246.93	195.17	155.96	37.02	537.06	49.12	170.75	185.53
52877	90.97	17.94	-11.67	76.14	39.07	592.95	47.55	237.06	215.39	150.43	41.84	512.62	55.40	166.66	206.48
52878	92.22	17.00	-11.67	77.17	44.34	584.77	50.92	226.59	234.70	144.85	45.72	486.32	61.14	160.87	226.98
52879	93.40	15.97	-11.67	77.33	47.08	575.65	55.14	217.18	251.54	138.07	47.28	459.63	67.49	154.85	245.19
52880	94.51	14.85	-11.67	75.13	48.76	566.75	61.30	211.04	265.23	128.50	47.98	434.28	74.94	151.24	260.11
52881	95.53	13.67	-11.67	70.23	53.78	559.44	68.34	208.76	277.77	115.97	52.87	410.64	82.05	151.57	273.46
52882	96.46	12.41	-11.67	64.36	62.81	553.87	74.02	208.47	292.57	103.11	62.88	386.37	86.74	154.40	288.73
52883	97.30	11.08	-11.67	58.42	70.16	550.38	75.94	207.57	306.81	91.77	71.68	361.31	87.10	156.51	303.41
52884	98.05	9.70	-11.67	51.20	76.06	551.10	72.87	201.91	314.45	80.50	79.12	342.68	82.04	153.32	311.59
52885	79.28	22.71	-11.67	86.72	8.18	553.93	3.22	268.10	43.53	178.51	12.48	562.80	19.44	155.23	43.12
52886	80.92	22.59	-11.67	84.82	11.64	546.39	8.07	265.24	48.18	171.18	16.10	551.12	11.66	154.06	43.74
52887	82.56	22.35	-11.67	83.61	15.45	540.90	15.91	263.53	62.88	163.52	19.61	539.51	15.90	156.07	52.75
52888	84.17	21.99	-11.67	82.32	18.97	537.37	22.93	261.12	81.53	154.95	22.65	528.35	24.11	159.84	66.79
52889	85.75	21.52	-11.67	79.65	23.51	534.43	29.19	256.96	101.24	145.68	26.31	516.25	32.28	163.89	83.36
52890	87.30	20.93	-11.67	75.82	28.82	531.03	34.69	251.05	121.48	136.24	30.66	502.27	39.77	167.34	101.87
52891	88.80	20.23	-11.67	71.06	34.74	526.85	39.20	243.47	142.03	126.82	35.75	486.38	46.23	169.53	122.00
52892	90.24</														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
52921	84.65	19.23	-13.00	153.54	147.92	746.82	60.59	292.59	258.08	334.46	149.04	729.76	74.14	228.22	257.55
52922	85.97	18.76	-13.00	173.22	136.41	744.15	65.75	292.02	267.75	341.13	135.92	713.67	72.37	229.72	267.09
52923	87.25	18.19	-13.00	192.14	122.39	740.58	72.63	291.61	279.44	347.21	119.46	694.09	74.94	231.31	278.71
52924	88.49	17.54	-13.00	209.51	106.40	735.84	80.74	291.57	293.56	352.22	99.74	670.94	81.07	233.13	292.82
52925	89.68	16.80	-13.00	224.58	89.63	729.37	88.72	292.12	310.71	355.57	77.28	643.87	88.72	235.35	310.02
52926	90.82	15.98	-13.00	236.28	75.45	720.08	94.16	293.87	331.14	356.34	55.00	612.29	94.80	238.49	330.59
52927	91.89	15.08	-13.00	242.30	69.68	707.25	95.40	298.92	352.05	352.44	41.13	576.72	97.41	244.59	351.71
52928	92.91	14.11	-13.00	239.57	74.26	692.36	95.17	310.84	367.08	340.62	42.58	540.68	99.10	257.37	366.97
52929	93.85	13.08	-13.00	228.20	88.73	680.36	99.49	331.35	370.21	320.96	56.00	510.35	105.12	278.80	370.23
52930	94.72	11.98	-13.00	218.36	108.72	678.19	107.33	352.84	368.11	303.33	76.01	488.01	113.42	301.16	368.03
52931	95.51	10.82	-13.00	227.40	121.57	684.29	115.31	370.83	374.92	305.31	89.83	464.80	121.02	319.96	374.66
52932	96.21	9.62	-13.00	255.09	127.75	699.29	118.41	389.25	375.47	326.85	97.72	445.00	122.97	338.94	375.15
52933	79.19	21.03	-13.00	81.60	139.00	745.70	48.60	301.90	203.14	278.42	141.31	754.04	96.85	229.89	203.14
52934	80.67	20.93	-13.00	87.81	140.40	747.39	47.88	299.81	208.54	282.16	142.20	753.31	82.83	228.68	208.38
52935	82.14	20.72	-13.00	100.74	139.02	747.48	48.51	298.10	215.20	286.61	140.61	747.89	71.78	228.51	214.71
52936	83.59	20.41	-13.00	116.80	133.72	746.16	50.39	296.59	222.95	290.64	134.94	738.14	64.04	229.03	222.05
52937	85.02	19.99	-13.00	133.75	125.15	744.13	53.36	294.45	232.45	294.30	125.55	724.82	59.73	229.30	231.18
52938	86.41	19.48	-13.00	150.68	114.00	741.39	57.61	291.66	243.85	297.76	113.02	708.04	59.46	229.11	242.29
52939	87.77	18.87	-13.00	166.88	100.65	737.82	63.15	288.47	257.22	300.83	97.56	687.83	63.10	228.57	255.49
52940	89.07	18.17	-13.00	181.65	85.70	733.17	69.38	285.12	272.68	303.09	79.39	664.15	69.35	227.80	270.93
52941	90.33	17.37	-13.00	194.27	70.85	727.01	74.87	281.91	290.36	304.01	59.63	636.89	75.97	226.99	288.74
52942	91.52	16.49	-13.00	203.46	60.14	718.77	77.94	279.77	309.58	302.44	42.39	606.07	80.83	226.95	308.27
52943	92.65	15.53	-13.00	206.50	58.71	708.49	79.21	280.95	327.39	295.80	36.00	572.79	84.49	229.93	326.54
52944	93.71	14.48	-13.00	200.58	67.09	697.78	83.46	288.61	339.23	281.13	42.86	539.85	91.17	239.25	338.83
52945	94.69	13.37	-13.00	187.67	84.20	690.13	93.04	302.51	343.68	260.11	59.47	510.43	101.97	254.89	343.44
52946	95.59	12.19	-13.00	180.01	105.28	688.52	104.18	315.79	348.52	244.92	80.92	483.96	112.76	269.95	348.07
52947	96.40	10.95	-13.00	192.53	120.91	690.44	115.88	329.84	363.19	250.80	97.73	453.54	123.63	285.67	362.45
52948	97.13	9.66	-13.00	219.94	128.71	700.47	120.12	351.10	370.22	272.42	106.52	428.09	126.38	308.21	369.39
52949	97.23	21.87	-13.00	63.91	94.60	723.46	35.30	302.42	162.24	248.25	96.04	731.72	70.42	228.97	162.24
52950	80.80	21.76	-13.00	70.45	93.96	726.27	33.99	299.27	168.34	249.35	95.15	731.56	56.31	226.42	168.02
52951	82.35	21.54	-13.00	81.43	92.48	725.14	35.19	297.90	175.48	249.43	93.92	724.42	46.83	226.35	174.36
52952	83.88	21.20	-13.00	93.69	87.99	723.60	37.19	295.91	184.76	248.31	89.34	714.08	41.10	226.65	182.71
52953	85.39	20.76	-13.00	106.49	81.04	721.83	39.77	292.23	196.22	247.08	81.83	700.68	39.38	225.98	193.33
52954	86.86	20.20	-13.00	119.42	72.32	719.49	43.42	287.20	209.63	246.13	72.08	684.00	42.15	224.37	206.08
52955	88.28	19.55	-13.00	131.81	62.15	716.48	48.16	281.17	224.77	245.20	60.27	664.12	48.30	221.97	220.83
52956	89.65	18.79	-13.00	143.17	51.47	712.61	53.41	274.33	241.43	244.02	47.01	641.07	55.91	218.77	237.40
52957	90.97	17.94	-13.00	152.92	42.71	707.59	58.12	266.99	259.28	242.19	34.40	614.95	63.25	214.92	255.50
52958	92.22	17.00	-13.00	159.73	40.04	701.26	61.93	260.09	277.20	238.51	27.85	586.17	69.81	211.15	273.98
52959	93.40	15.97	-13.00	160.99	45.36	693.96	66.96	255.64	292.93	230.39	31.68	555.85	77.43	209.48	290.46
52960	94.51	14.85	-13.00	154.54	57.43	686.93	76.10	255.88	304.34	215.43	43.27	525.80	88.12	212.36	302.53
52961	95.53	13.67	-13.00	143.11	76.27	681.89	88.05	260.08	313.01	196.12	62.05	497.06	99.99	219.32	311.49
52962	96.46	12.41	-13.00	136.67	98.79	678.83	100.19	264.12	326.43	182.59	85.21	467.50	110.86	226.24	324.80
52963	97.30	11.08	-13.00	146.48	118.75	674.67	113.54	273.27	350.57	186.40	106.27	431.19	122.93	238.02	348.86
52964	98.05	9.70	-13.00	165.17	129.67	677.39	117.67	294.67	364.75	200.07	117.60	400.34	125.34	261.39	363.19
52965	79.28	22.71	-13.00	53.70	42.24	673.59	20.17	294.32	100.23	222.23	43.37	682.03	40.98	219.21	100.22
52966	80.92	22.59	-13.00	59.21	31.24	668.43	19.43	292.88	99.52	218.35	33.33	673.10	27.95	217.73	98.40
52967	82.56	22.35	-13.00	66.08	31.23	663.20	21.17	293.24	109.89	212.20	34.06	661.43	20.71	218.97	106.35
52968	84.17	21.99	-13.00	72.49	28.65	661.58	22.96	291.01	123.82	204.31	31.91	651.04	19.45	219.68	117.81
52969	85.75	21.52	-13.00	79.58	24.75	659.91	25.21	285.97	140.03	197.22	27.76	638.15	24.29	218.77	131.94
52970	87.30	20.93	-13.00	86.75	20.18	657.90	28.81	279.12	157.89	190.74	22.56	622.61	32.49	216.81	148.29
52971	88.80	20.23	-13.00	93.42	15.73	655.35	33.74	270.70	176.74	184.55	16.96	604.41	41.62	213.69	166.32
52972	90.24	19.42	-13.00	99.40	14.46	652.12	39.39	260.75	196.18	178.61	13.86	583.65	50.57	209.14	185.64
52973	91.62	18.52	-13.00	104.55	18.99	648.07	45.30	249.41	215.65	172.85	17.23	560.61	58.98	202.97	205.64
52974	92.93	17.51	-13.00	108.11	26.84	643.22	51.98	237.30	234.18	166.51	24.84	535.83	67.43	195.51	225.23
52975	94.16	16.41	-13.00	108.07	36.10	637.94	60.83	225.89	250.61	157.50	34.03	510.27	77.08	188.16	242.96
52976	95.31	15.22	-13.00	102.71	48.97	632.90	71.71	216.96	264.91	143.89	46.94	484.82	87.50	182.91	258.47
52977	96.37	13.96	-13.00	93.69	68.01	628.38	82.44	210.49	280.09	127.28	66.22	459.18	96.60	180.17	274.59
52978	97.34	12.62	-13.00	87.07	92.11	622.33	92.70	204.35	302.49	114.25	90.63	430.76	104.54	177.99	297.85
52979	98.20	11.21	-13.00	89.97	117.48	609.22	105.47	203.95	336.51	112.28	116.22	393.98	115.39	180.96	330.02
52980	98.96	9.75	-13.00	91.77	132.87	596.51	109.41	213.05	358.85	110.50	131.50	363.49	117.48	192.13	356.34
52981	79.32	23.55	-13.00	76.68	1.17	554.50	8.78	274.31	17.69	196.63	4.32	563.54	10.60	196.44	17.47
52982	81.05	23.42	-13.00	72.35	19.91	521.60	10.78	269.76	27.61	193.29	20.04	525.54	16.97	192.03	18.90
52983	82.77	23.17	-13.00	73.78	17.70	510.96	14.20	273.94	51.21	176.10	17.81	508.57	25.86	196.17	36.61
52984	84.46	22.78	-13.00	73.63	20.92	509.87	19.96	271.60	72.09	160.31	20.84	500.86	35.16	198.34	52.82
52985	86.12	22.28	-13.00	72.34	24.00	508.30	25.59	266.91	92.57	146.06	24.04	492.30	43.38	199.97	69.78
52986	87.74	21.65	-13.00	69.94	28.02	506.82	30.90	260.53	112.83	132.58	28.56	483.50	50.28	201.15	87.88
52987	89.31	20.91	-13.00	66.47	32.72	504.98	35.74	252.56	132.77	119.70	34.07	474.22	55.97	201.35	107.04
52988	90.82	20.05	-13.00	62.18	37.80	502.75	39.92	242.90	152.27	107.55	40.18	464.64	60.54	199.91	127.05
52989	92.26	19.09	-13.00	57.93	42.76	500.07	43.73	231.37	171.02	96.65	46.39	455.07	64.43	196.16	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
53019	87.77	18.87	-14.33	300.35	301.11	781.39	126.09	317.76	311.04	444.77	290.01	730.36	126.16	296.09	310.87
53020	89.07	18.17	-14.33	326.23	269.09	779.52	131.91	317.58	318.80	456.02	253.91	709.15	130.61	296.90	318.63
53021	90.33	17.37	-14.33	348.66	233.33	776.98	135.11	318.00	328.21	464.50	212.74	685.06	133.70	298.26	328.07
53022	91.52	16.49	-14.33	364.56	196.53	773.46	132.50	319.68	339.32	467.37	168.82	658.14	131.98	300.83	339.25
53023	92.65	15.53	-14.33	368.54	167.32	768.94	122.71	324.14	350.43	459.39	131.36	628.96	124.20	306.10	350.45
53024	93.71	14.48	-14.33	356.22	156.64	764.22	112.36	333.38	357.56	436.12	114.46	599.01	117.08	316.11	357.70
53025	94.69	13.37	-14.33	334.86	169.45	761.37	113.44	346.37	357.13	404.64	124.86	570.52	120.64	329.84	357.31
53026	95.59	12.19	-14.33	335.15	192.54	761.58	126.13	355.99	354.86	395.50	146.45	543.37	133.08	340.12	354.94
53027	96.40	10.95	-14.33	383.50	206.73	762.38	147.94	358.65	367.08	435.54	159.46	513.36	154.37	343.39	367.02
53028	97.13	9.66	-14.33	477.47	232.02	762.96	191.97	419.72	414.07	522.37	189.83	479.43	200.42	404.99	413.96
53029	79.23	21.87	-14.33	157.83	301.48	793.49	74.18	317.81	269.45	341.90	301.62	801.26	114.11	290.62	269.46
53030	80.80	21.76	-14.33	160.26	327.88	795.43	77.45	315.23	280.57	348.40	326.78	800.44	101.62	288.40	280.58
53031	82.35	21.54	-14.33	175.87	334.27	795.87	81.03	315.10	284.67	355.56	332.37	794.85	94.51	288.81	284.61
53032	83.88	21.20	-14.33	196.41	324.89	795.40	86.83	314.92	287.54	362.36	321.80	785.25	92.20	289.49	287.43
53033	85.39	20.76	-14.33	219.18	310.27	794.81	93.14	313.67	291.22	370.46	305.56	772.44	93.17	289.32	291.06
53034	86.86	20.20	-14.33	243.47	292.07	794.02	99.54	312.09	295.61	379.61	285.45	756.48	96.83	288.95	295.40
53035	88.28	19.55	-14.33	268.12	270.44	793.00	105.68	310.37	300.79	389.20	261.49	737.49	102.14	288.53	300.56
53036	89.65	18.79	-14.33	291.96	246.05	791.66	110.73	308.66	306.81	398.56	234.23	715.59	107.62	288.19	306.58
53037	90.97	17.94	-14.33	313.48	219.96	789.90	113.24	307.22	313.70	406.48	204.58	690.94	111.32	288.13	313.51
53038	92.22	17.00	-14.33	329.87	195.29	787.61	111.50	306.62	321.07	410.41	175.67	663.80	111.39	288.91	320.96
53039	93.40	15.97	-14.33	336.99	178.32	784.96	106.45	307.95	327.51	406.28	154.25	634.80	108.87	291.57	327.52
53040	94.51	14.85	-14.33	332.84	175.67	782.54	104.49	312.13	331.08	391.95	147.79	604.97	109.67	297.05	331.20
53041	95.53	13.67	-14.33	325.31	186.87	781.15	111.88	317.82	331.96	375.07	155.93	575.17	118.46	304.00	332.09
53042	96.46	12.41	-14.33	334.86	201.02	780.58	127.64	322.22	335.63	376.10	167.29	544.79	134.12	309.58	335.65
53043	97.30	11.08	-14.33	381.35	213.77	778.59	151.62	324.97	353.66	415.17	178.65	510.38	158.35	313.41	353.53
53044	98.05	9.70	-14.33	471.96	252.48	776.05	200.80	396.62	407.86	499.50	222.16	472.12	209.43	386.01	407.71
53045	79.28	22.71	-14.33	137.73	220.70	790.23	69.78	310.98	230.39	313.85	220.45	798.03	90.84	283.31	230.41
53046	80.92	22.59	-14.33	140.27	275.48	794.15	68.08	308.11	252.52	319.95	274.54	798.64	76.63	280.09	252.53
53047	82.56	22.35	-14.33	155.36	279.77	791.54	72.15	311.77	253.26	318.03	278.80	789.54	71.94	283.93	253.06
53048	84.17	21.99	-14.33	172.01	270.31	791.41	74.53	310.54	257.06	319.34	268.64	779.71	68.11	283.68	256.73
53049	85.75	21.52	-14.33	191.40	260.64	790.88	76.34	307.85	261.41	323.15	258.26	766.36	67.19	282.22	260.91
53050	87.30	20.93	-14.33	212.24	247.83	790.30	78.79	304.51	266.74	328.13	244.64	749.92	69.80	280.37	266.10
53051	88.80	20.23	-14.33	233.42	232.99	789.53	81.76	300.58	272.80	333.85	228.85	730.43	74.74	278.14	272.04
53052	90.24	19.42	-14.33	254.10	216.61	788.53	84.76	296.24	279.53	339.93	211.30	708.06	80.51	275.62	278.70
53053	91.62	18.52	-14.33	273.14	200.03	787.26	86.87	291.71	286.69	345.57	193.26	683.03	85.60	272.99	285.87
53054	92.93	17.51	-14.33	288.37	186.03	785.72	87.57	287.48	293.76	348.83	177.46	655.71	89.30	270.69	293.02
53055	94.16	16.41	-14.33	296.67	178.65	784.08	88.75	284.34	299.87	346.59	167.99	626.65	93.27	269.47	299.26
53056	95.31	15.22	-14.33	296.84	180.30	782.66	94.56	282.79	304.56	337.49	167.33	596.50	100.88	269.82	304.06
53057	96.37	13.96	-14.33	294.63	187.91	781.61	106.91	282.03	309.30	327.10	172.37	565.55	113.42	270.90	308.82
53058	97.34	12.62	-14.33	302.55	195.73	779.95	125.05	280.57	318.39	327.87	177.48	533.05	130.98	271.20	317.92
53059	98.20	11.21	-14.33	340.62	211.03	774.16	153.31	277.92	342.21	359.88	191.14	494.84	159.32	270.17	341.73
53060	98.96	9.75	-14.33	436.55	267.78	766.91	213.79	353.94	404.57	451.11	250.16	452.13	220.95	347.57	404.27
53061	79.32	23.55	-14.33	131.96	102.25	770.57	64.25	306.59	149.81	337.57	101.99	778.32	65.70	284.94	149.71
53062	81.05	23.42	-14.33	112.63	191.75	697.27	83.26	351.05	149.30	285.55	191.72	701.45	73.67	319.73	148.72
53063	82.77	23.17	-14.33	118.93	178.05	701.52	81.24	350.93	159.61	272.41	178.06	698.64	62.47	320.21	158.28
53064	84.46	22.78	-14.33	133.60	177.56	700.07	74.73	346.46	169.68	269.28	177.57	687.91	50.31	316.68	167.28
53065	86.12	22.28	-14.33	150.84	173.93	699.97	67.02	339.83	183.57	268.07	174.05	675.90	41.05	311.60	180.11
53066	87.74	21.65	-14.33	168.40	169.38	699.63	59.03	331.45	198.67	267.49	169.78	661.20	36.42	305.20	194.28
53067	89.31	20.91	-14.33	185.14	163.71	699.29	52.43	321.43	214.83	267.15	164.60	644.17	37.94	297.48	209.73
53068	90.82	20.05	-14.33	200.44	157.44	698.86	48.97	309.89	231.37	266.92	159.00	624.94	44.43	288.43	225.84
53069	92.26	19.09	-14.33	213.87	151.65	698.38	49.75	296.95	247.73	266.69	153.98	603.75	53.50	278.06	242.07
53070	93.63	18.02	-14.33	224.57	148.11	697.89	55.27	282.93	263.32	265.69	151.14	580.89	64.11	266.62	257.78
53071	94.92	16.85	-14.33	230.77	148.25	697.43	66.09	268.48	277.80	262.10	151.70	556.68	76.67	254.67	272.57
53072	96.11	15.59	-14.33	231.07	151.09	696.91	81.90	254.26	291.67	254.34	154.42	531.28	91.55	242.86	286.89
53073	97.21	14.25	-14.33	227.13	152.95	695.82	101.35	240.33	306.80	243.87	155.43	504.64	108.70	231.25	302.61
53074	98.21	12.83	-14.33	225.37	153.79	693.00	124.35	226.24	326.83	236.99	154.52	476.09	129.37	219.35	323.47
53075	99.10	11.34	-14.33	232.90	173.46	679.76	154.91	205.62	362.88	240.55	171.82	440.43	158.38	200.90	360.91
53076	99.88	9.79	-14.33	312.04	282.70	635.87	238.81	244.63	462.69	317.12	279.33	396.31	242.23	241.27	462.25
53077	60.69	9.62	-11.67	196.16	81.42	650.97	93.13	308.58	329.16	1145.13	66.68	412.99	472.68	702.79	421.58
53078	61.39	10.82	-11.67	159.27	77.00	633.96	88.70	298.07	328.68	832.37	61.09	422.36	437.03	565.70	402.04
53079	62.18	11.98	-11.67	142.03	68.17	626.05	81.05	285.18	325.22	623.82	67.89	439.74	373.28	461.34	370.82
53080	63.05	13.08	-11.67	137.32	56.85	626.36	72.50	273.35	321.48	493.15	70.15	458.78	317.42	382.60	346.11
53081	63.99	14.11	-11.67	136.24	47.54	633.01	65.29	266.10	316.77	411.75	67.76	480.84	277.43	324.80	330.00
53082	65.01	15.08	-11.67	133.81	40.96	642.93	60.40	264.73	307.17	360.15	60.54	508.11	247.20	283.96	314.09
53083	66.08	15.98	-11.67	129.03	34.78	652.89	56.81	267.08	292.47	325.68	50.01	538.35	221.96	255.55	295.66
53084	67.22	16.80	-11.67	122.36	29.16	661.30	52.74	270.85	275.45	300.71	39.88	568.16	199.94	235.08	276.21
53085	68.41	17.54	-11.67	114.40	25.84	667.89	47.64	274.76	258.85	282.10	31.68	595.44	180.68	219.49	258.21
53086	69.65	18.19	-11.67	105.43	25.77	673.01	41.98	278.35	243.79	268.10	27.57	619.52	163.35	207.50	24

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
53117	67.25	18.79	-11.67	70.59	31.45	598.96	37.69	245.94	193.98	233.32	62.52	547.09	146.10	228.69	195.92
53118	68.62	19.55	-11.67	68.84	25.66	604.42	34.13	254.82	174.24	227.08	47.48	567.19	130.46	215.65	171.92
53119	70.04	20.20	-11.67	67.48	20.29	608.79	30.04	262.24	155.39	221.23	33.95	584.62	115.30	204.29	151.02
53120	71.51	20.76	-11.67	66.32	15.52	612.26	25.63	268.21	137.87	215.46	22.15	599.22	100.54	194.35	133.17
53121	73.02	21.20	-11.67	65.23	11.36	615.11	21.02	272.71	122.19	209.80	12.44	610.98	86.18	185.74	118.41
53122	74.55	21.54	-11.67	64.19	7.83	617.76	16.32	276.06	109.22	204.65	7.13	620.15	72.46	178.74	107.01
53123	76.10	21.76	-11.67	63.90	5.10	620.46	12.28	278.99	100.70	200.44	9.36	627.14	60.09	174.16	99.95
53124	77.67	21.87	-11.67	64.96	5.24	622.67	10.62	281.13	98.26	196.40	13.93	631.68	49.16	172.04	98.25
53125	57.94	9.75	-11.67	197.05	112.46	443.91	126.48	192.65	301.65	1378.81	345.36	644.80	741.97	977.31	750.19
53126	58.70	11.21	-11.67	80.70	89.80	467.76	85.60	169.03	289.54	541.65	322.13	466.63	471.10	519.42	624.24
53127	59.56	12.62	-11.67	50.13	67.68	480.08	62.34	169.89	268.35	320.05	221.14	435.77	288.39	410.49	495.71
53128	60.53	13.96	-11.67	46.73	53.66	487.10	54.06	175.98	248.24	262.16	170.26	442.11	220.60	364.62	406.57
53129	61.59	15.22	-11.67	48.16	46.08	492.93	48.02	184.24	231.95	229.18	144.64	451.92	186.57	324.70	336.22
53130	62.74	16.41	-11.67	49.96	43.93	499.61	42.45	195.25	216.68	215.61	126.46	463.48	167.72	292.70	282.15
53131	63.97	17.51	-11.67	50.88	43.29	506.99	38.67	208.08	199.97	211.49	109.10	476.58	154.25	268.39	238.47
53132	65.28	18.52	-11.67	52.48	41.20	514.19	36.91	220.88	181.36	211.44	91.41	490.64	141.42	249.76	200.93
53133	66.66	19.42	-11.67	55.93	37.37	520.54	35.67	232.35	161.52	211.88	74.12	504.48	127.85	234.09	167.77
53134	68.10	20.23	-11.67	60.75	32.65	525.84	33.69	242.03	141.22	211.30	58.10	517.15	113.48	219.71	138.50
53135	69.60	20.93	-11.67	65.91	27.79	530.14	30.63	249.95	120.93	209.25	43.91	528.10	98.59	206.01	112.87
53136	71.15	21.52	-11.67	70.70	23.20	533.65	26.52	256.23	100.93	205.63	31.93	537.12	83.49	193.00	90.68
53137	72.73	21.99	-11.67	74.73	19.11	536.68	21.51	260.88	81.47	200.58	22.41	544.18	68.42	180.88	71.71
53138	74.34	22.35	-11.67	77.73	15.81	540.25	15.59	264.17	63.17	194.80	16.08	550.03	53.77	170.22	56.05
53139	75.98	22.59	-11.67	81.10	12.06	545.76	8.84	267.08	49.04	189.90	12.05	556.34	40.54	162.24	45.68
53140	77.62	22.71	-11.67	85.49	8.38	553.59	4.52	269.56	44.13	185.77	10.41	564.16	29.92	157.93	43.72
53141	57.02	9.79	-11.67	168.93	181.70	299.95	144.78	178.58	302.12	1161.46	841.05	1380.14	826.76	1002.62	901.71
53142	57.80	11.34	-11.67	32.98	89.51	355.22	56.41	147.30	271.09	168.22	384.53	593.68	271.35	360.17	642.44
53143	58.69	12.83	-11.67	32.33	61.22	379.91	43.41	155.96	248.02	173.27	234.34	520.35	189.47	377.21	544.83
53144	59.69	14.25	-11.67	31.76	48.01	393.06	39.33	163.85	224.53	145.43	175.32	489.97	158.72	352.46	449.00
53145	60.79	15.59	-11.67	33.88	39.26	400.66	36.14	173.75	206.14	145.07	145.23	484.50	143.10	325.39	363.45
53146	61.98	16.85	-11.67	36.10	34.74	407.24	33.87	185.90	190.61	151.49	125.47	481.57	136.94	298.84	293.64
53147	63.27	18.02	-11.67	40.06	33.03	414.20	33.96	198.92	175.23	163.25	107.66	480.03	132.33	276.37	238.13
53148	64.64	19.09	-11.67	47.36	31.31	420.63	35.90	211.14	158.71	175.53	89.42	479.25	125.64	257.45	192.69
53149	66.08	20.05	-11.67	57.23	28.21	426.63	37.51	221.63	141.05	185.74	71.24	478.81	115.77	240.11	154.27
53150	67.59	20.91	-11.67	67.72	23.89	431.73	37.37	230.24	122.69	192.73	54.16	478.15	103.17	223.09	121.32
53151	69.16	21.65	-11.67	77.50	19.02	435.93	35.19	237.20	104.00	196.30	38.99	476.95	88.69	206.05	93.12
53152	70.78	22.28	-11.67	85.95	14.22	439.44	31.19	242.71	85.17	196.59	26.24	475.13	73.15	189.24	69.18
53153	72.44	22.78	-11.67	92.79	9.83	442.53	25.64	246.83	66.25	193.85	16.00	472.80	57.19	173.14	49.08
53154	74.13	23.17	-11.67	97.79	6.51	446.80	18.97	249.68	47.05	188.61	8.57	471.04	41.40	158.46	32.07
53155	75.85	23.42	-11.67	103.91	2.74	455.87	11.21	252.42	29.02	185.10	2.93	474.37	27.17	146.84	18.98
53156	77.58	23.55	-11.67	110.68	4.15	466.25	3.94	252.87	11.38	180.82	4.40	480.07	13.47	137.55	8.37
53157	60.69	9.62	-13.00	273.56	137.07	706.40	111.98	393.30	371.56	932.56	134.22	431.21	498.10	749.20	427.92
53158	61.39	10.82	-13.00	242.05	129.55	690.06	108.03	370.82	372.31	763.09	90.49	457.28	476.63	600.00	412.02
53159	62.18	11.98	-13.00	229.09	117.35	682.30	99.48	351.50	365.69	629.57	66.75	484.16	432.32	494.90	385.00
53160	63.05	13.08	-13.00	235.98	97.58	682.82	91.31	330.36	367.66	523.15	58.38	504.46	385.65	415.69	375.05
53161	63.99	14.11	-13.00	246.14	82.15	693.49	85.96	310.46	364.89	446.44	55.18	529.43	352.95	355.10	368.43
53162	65.01	15.08	-13.00	248.21	76.53	707.60	85.56	298.97	350.45	395.95	53.58	561.67	327.66	313.49	352.30
53163	66.08	15.98	-13.00	241.42	80.76	720.05	85.14	294.29	329.94	362.90	62.48	596.11	303.37	286.21	330.65
53164	67.22	16.80	-13.00	228.95	92.97	729.15	81.36	292.89	309.73	339.81	81.05	628.29	279.16	267.47	309.61
53165	68.41	17.54	-13.00	213.29	107.96	735.49	75.29	292.59	292.79	323.45	101.07	656.70	256.24	253.51	292.22
53166	69.65	18.19	-13.00	195.52	122.59	740.13	69.10	292.73	278.92	312.05	119.12	681.42	234.68	243.05	278.21
53167	70.93	18.76	-13.00	176.35	135.63	743.60	63.96	293.14	267.52	304.28	134.54	702.66	214.38	235.42	266.86
53168	72.25	19.23	-13.00	156.51	146.52	746.19	60.18	293.60	258.18	299.34	147.16	720.49	195.14	230.00	257.68
53169	73.59	19.62	-13.00	136.81	154.82	748.06	57.66	294.00	250.58	296.91	156.82	734.88	176.87	226.34	250.27
53170	74.96	19.90	-13.00	118.57	160.03	749.14	56.16	294.44	244.31	296.97	163.15	745.68	159.72	224.25	244.17
53171	76.35	20.10	-13.00	104.20	161.93	749.26	55.47	295.17	238.87	299.34	165.89	752.72	143.97	223.73	238.84
53172	77.75	20.20	-13.00	96.25	161.77	748.87	55.08	295.99	234.82	303.20	165.97	756.40	129.23	224.31	234.84
53173	59.77	9.66	-13.00	237.63	136.92	705.33	113.08	358.59	368.20	881.98	92.22	417.42	498.76	806.71	476.34
53174	60.50	10.95	-13.00	205.31	127.55	695.50	108.01	330.90	362.21	679.37	67.28	448.59	468.83	608.44	441.79
53175	61.31	12.19	-13.00	189.10	113.51	692.28	96.21	314.35	347.37	542.69	71.35	482.18	413.21	488.81	390.41
53176	62.21	13.37	-13.00	194.35	93.14	692.42	85.67	300.99	342.12	448.68	79.43	508.24	361.33	412.80	361.57
53177	63.19	14.48	-13.00	206.59	75.40	698.86	75.73	287.68	337.64	384.34	80.01	534.54	327.18	356.18	346.91
53178	64.25	15.53	-13.00	212.45	66.25	708.80	70.34	280.53	326.05	344.38	72.74	564.41	303.34	316.29	330.94
53179	65.38	16.49	-13.00	209.12	66.63	718.69	69.04	279.75	308.49	320.32	67.11	596.13	281.67	289.88	310.79
53180	66.57	17.37	-13.00	199.40	75.46	726.75	67.16	282.23	289.45	304.55	72.02	626.74	259.66	272.05	289.98
53181	67.83	18.17	-13.00	186.22	88.35	732.82	63.39	285.68	271.93	293.39	84.42	654.55	237.94	259.16	271.35
53182	69.13	18.87	-13.00	171.01	101.69	737.40	59.02	289.17	256.66	285.33	98.61	679.11	217.04	249.51	255.55
53183	70.49	19.48	-13.00	154.48	113.86	740.91	55.22	292.38	243.54	279.46	111.97	700.37	196.99	242.33	242.34
53184	71.88	19.99	-13.00	137.27	124.22	743.60	52.42	295.11	232.42	275.22	123.52	718.28	177.73	237.04	231.41
53185	73.31	20.41	-13.00	119.99	132.34	745.60	50.49	297.15	223.19	272.41	132.78	732.75	159.		



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
53215	69.60	20.93	-13.00	87.59	22.14	657.43	26.58	279.00	157.41	244.31	46.42	633.99	141.03	247.44	152.44
53216	71.15	21.52	-13.00	80.15	25.45	659.48	24.10	285.99	139.71	240.90	36.55	647.20	122.85	241.05	134.31
53217	72.73	21.99	-13.00	72.77	28.58	661.19	22.80	291.18	123.68	235.63	31.82	657.82	104.73	235.21	119.15
53218	74.34	22.35	-13.00	65.77	30.79	662.86	21.67	293.82	109.93	228.73	30.96	665.72	86.28	229.08	107.13
53219	75.98	22.59	-13.00	58.41	30.79	668.03	21.12	295.31	99.77	223.10	31.22	674.21	69.09	223.52	98.79
53220	77.62	22.71	-13.00	53.40	41.97	673.22	22.92	297.46	100.57	219.44	42.98	681.61	55.03	221.25	100.34
53221	57.02	9.79	-13.00	32.27	135.68	401.00	74.34	164.74	349.28	219.42	364.58	785.11	307.96	373.21	613.99
53222	57.80	11.34	-13.00	40.58	109.21	447.06	71.09	168.04	315.31	247.83	300.02	574.78	253.26	346.69	554.27
53223	58.69	12.83	-13.00	35.88	86.04	475.34	62.43	168.95	268.71	183.01	224.51	517.15	191.74	313.35	474.42
53224	59.69	14.25	-13.00	39.27	68.33	484.89	61.32	177.15	239.73	181.59	191.19	519.83	172.74	311.02	399.26
53225	60.79	15.59	-13.00	44.61	53.97	489.38	58.60	188.43	219.91	186.44	173.98	523.20	167.22	297.40	331.73
53226	61.98	16.85	-13.00	48.54	44.21	492.74	52.56	202.08	203.66	199.96	158.35	526.49	166.47	284.81	277.45
53227	63.27	18.02	-13.00	50.38	39.27	496.01	45.65	216.49	187.53	216.61	139.01	528.96	163.59	274.75	232.93
53228	64.64	19.09	-13.00	52.20	36.25	499.18	40.22	230.00	170.20	231.71	116.57	531.14	155.37	266.16	194.62
53229	66.08	20.05	-13.00	55.29	33.06	502.02	36.16	241.76	151.69	242.39	93.51	532.96	141.99	257.57	160.69
53230	67.59	20.91	-13.00	59.10	29.52	504.41	32.33	251.67	132.40	247.92	71.97	534.22	124.97	248.44	130.45
53231	69.16	21.65	-13.00	62.73	26.06	506.36	28.17	259.89	112.63	248.58	53.30	534.75	105.84	238.94	103.60
53232	70.78	22.28	-13.00	65.73	22.96	507.93	23.62	266.55	92.50	244.85	38.18	534.46	85.82	229.42	79.80
53233	72.44	22.78	-13.00	67.93	20.52	509.53	18.72	271.64	72.18	237.12	27.26	533.59	65.86	220.27	58.77
53234	74.13	23.17	-13.00	69.20	17.65	510.74	13.63	274.53	51.26	225.04	19.45	531.65	46.13	211.27	39.76
53235	75.85	23.42	-13.00	68.50	20.00	521.08	10.02	274.49	28.53	209.06	20.01	536.01	26.18	200.95	20.44
53236	77.58	23.55	-13.00	75.70	2.65	553.78	10.07	280.39	20.01	212.65	1.53	565.58	21.67	199.67	17.78
53237	60.69	9.62	-14.33	475.22	206.91	745.59	167.89	437.19	414.09	701.50	258.65	460.68	561.04	598.20	424.04
53238	61.39	10.82	-14.33	374.51	200.93	740.40	127.89	391.37	382.85	729.16	176.89	496.33	592.14	491.17	389.02
53239	62.18	11.98	-14.33	325.41	184.45	735.68	111.58	393.59	382.62	698.72	116.61	524.73	542.96	453.18	384.09
53240	63.05	13.08	-14.33	346.35	153.43	734.99	111.10	376.48	391.56	606.21	71.12	547.52	482.43	410.03	391.42
53241	63.99	14.11	-14.33	390.71	144.23	741.74	118.21	350.55	385.41	507.65	65.53	574.43	457.10	367.02	385.41
53242	65.01	15.08	-14.33	414.14	162.73	750.28	135.26	332.53	366.48	439.84	105.66	605.14	441.69	336.94	366.56
53243	66.08	15.98	-14.33	414.86	206.35	757.40	147.29	321.35	345.18	397.47	171.79	635.73	423.36	317.07	345.19
53244	67.22	16.80	-14.33	399.79	257.00	762.44	149.85	314.21	327.12	371.97	236.72	663.96	400.42	303.47	327.06
53245	68.41	17.54	-14.33	376.43	301.86	765.83	147.66	309.10	313.76	357.07	290.43	689.04	375.68	293.33	313.65
53246	69.65	18.19	-14.33	347.99	340.78	768.35	144.73	305.21	303.40	349.27	334.96	711.23	350.97	285.65	303.28
53247	70.93	18.76	-14.33	316.45	373.74	770.28	141.95	302.31	295.14	346.59	371.57	730.53	326.73	279.97	295.04
53248	72.25	19.23	-14.33	283.56	400.68	771.76	139.61	300.12	288.54	347.92	400.87	746.89	303.22	275.84	288.47
53249	73.59	19.62	-14.33	251.09	421.08	772.83	137.68	298.46	283.29	352.78	422.73	760.20	280.59	272.91	283.25
53250	74.96	19.90	-14.33	221.54	433.60	773.45	136.10	297.29	278.96	361.32	436.09	770.30	259.16	271.05	278.95
53251	76.35	20.10	-14.33	198.89	437.25	773.58	134.89	296.75	274.96	373.79	440.08	777.10	239.34	270.28	274.96
53252	77.75	20.20	-14.33	186.88	435.84	773.54	134.20	296.72	271.73	389.09	438.42	780.85	221.06	270.32	271.74
53253	59.77	9.66	-14.33	479.80	228.33	763.61	176.34	421.88	413.67	474.27	236.41	456.23	517.97	620.05	433.50
53254	60.50	10.95	-14.33	391.61	210.51	763.56	135.05	358.58	367.28	526.94	139.20	495.68	565.39	479.35	380.82
53255	61.31	12.19	-14.33	345.87	199.56	762.59	115.69	354.99	354.71	520.24	100.50	529.15	531.72	427.11	359.53
53256	62.21	13.37	-14.33	345.32	177.39	762.05	104.33	345.55	356.54	475.39	91.15	557.67	482.23	389.46	357.52
53257	63.19	14.48	-14.33	366.05	163.86	764.56	102.44	332.99	356.91	423.95	93.85	586.08	448.29	358.74	357.17
53258	64.25	15.53	-14.33	378.09	173.20	769.05	112.08	324.06	349.96	388.21	116.57	615.87	424.56	336.78	350.15
53259	65.38	16.49	-14.33	373.75	200.79	773.44	122.75	319.82	339.01	367.23	159.28	645.53	400.42	322.61	339.10
53260	66.57	17.37	-14.33	357.28	235.97	776.90	127.05	318.32	327.97	354.77	207.89	673.42	373.17	313.39	327.94
53261	67.83	18.17	-14.33	334.20	270.27	779.40	125.68	318.04	318.65	347.33	252.38	698.74	344.27	306.99	318.53
53262	69.13	18.87	-14.33	307.69	301.02	781.24	121.61	318.28	311.01	343.10	290.44	721.26	315.21	302.42	310.86
53263	70.49	19.48	-14.33	279.56	327.78	782.65	116.31	318.80	304.66	341.02	322.32	740.90	286.63	299.25	304.51
53264	71.88	19.99	-14.33	251.20	350.17	783.72	110.45	319.40	299.39	340.55	348.19	757.57	258.88	297.10	299.27
53265	73.31	20.41	-14.33	223.89	367.63	784.52	104.47	319.83	295.06	341.33	367.85	771.14	232.14	295.59	294.98
53266	74.76	20.72	-14.33	199.09	377.87	784.95	98.92	320.03	291.39	344.07	379.37	781.38	206.87	294.52	291.36
53267	76.23	20.93	-14.33	180.54	376.39	784.67	94.42	320.54	286.90	350.90	378.52	787.95	184.27	294.34	286.90
53268	77.71	21.03	-14.33	172.51	366.57	783.98	91.20	321.62	281.45	361.51	368.51	791.15	164.62	295.18	281.45
53269	58.85	9.70	-14.33	472.73	242.30	774.56	181.88	398.76	408.74	210.90	186.61	456.41	438.58	603.41	444.17
53270	59.60	11.08	-14.33	386.20	215.75	779.14	134.11	325.18	354.88	313.87	92.07	494.77	500.79	454.14	381.25
53271	60.44	12.41	-14.33	342.44	208.94	781.30	112.80	321.39	336.24	342.95	97.90	531.30	484.57	400.94	347.77
53272	61.37	13.67	-14.33	333.86	196.64	781.62	99.33	316.95	331.98	335.26	120.97	563.13	448.48	369.54	336.03
53273	62.39	14.85	-14.33	341.86	185.08	782.76	92.88	311.58	330.83	320.38	131.73	593.63	417.94	346.63	332.29
53274	63.50	15.97	-14.33	346.45	186.28	785.00	95.11	307.71	327.22	312.21	142.57	623.89	394.18	329.30	327.86
53275	64.68	17.00	-14.33	339.54	201.40	787.55	101.13	306.62	320.81	310.64	164.84	653.50	370.43	317.30	321.08
53276	65.93	17.94	-14.33	323.01	224.23	789.80	104.50	307.39	313.46	311.70	196.11	681.51	343.87	309.12	313.50
53277	67.25	18.79	-14.33	301.12	248.68	791.55	103.85	308.96	306.60	313.35	228.87	707.20	315.25	303.35	306.49
53278	68.62	19.55	-14.33	276.81	271.66	792.87	100.63	310.73	300.64	315.01	258.83	730.19	285.94	299.14	300.47
53279	70.04	20.20	-14.33	251.63	292.17	793.88	96.14	312.45	295.55	316.44	284.69	750.28	256.80	296.09	295.37
53280	71.51	20.76	-14.33	226.71	309.55	794.66	91.10	313.99	291.27	317.53	305.90	767.33	228.41	293.91	291.12
53281	73.02	21.20	-14.33	203.13	323.65	795.25	85.73	315.12	287.69	318.01	322.54	781.24	201.02	292.26	287.59
53282	74.55	21.54	-14.33	181.35	332.91	795.74	80.11	315.17	284.90	317.28	333.27	791.82	174.16	290.34	284.85
53283	76.10														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
53313	72.44	22.78	-14.33	139.75	177.96	700.05	74.36	346.63	169.51	241.69	178.84	696.78	167.19	326.59	167.70
53314	74.13	23.17	-14.33	124.23	178.05	701.34	80.97	351.30	159.67	243.73	178.27	704.92	146.70	326.83	158.37
53315	75.85	23.42	-14.33	116.33	191.64	697.66	82.56	350.95	148.90	234.27	191.61	704.44	124.44	323.47	148.68
53316	77.58	23.55	-14.33	126.79	102.61	768.90	61.57	325.75	149.98	182.85	102.80	775.73	78.58	287.72	149.72
53317	98.51	-2.50	-11.67	129.45	84.21	679.52	92.98	286.11	388.53	183.83	80.11	339.45	93.27	206.96	388.50
53318	98.43	-3.10	-11.67	129.69	83.58	678.07	92.62	287.50	386.27	184.65	79.20	341.85	93.24	208.46	386.22
53319	99.36	-2.50	-11.67	75.77	75.88	636.84	77.19	220.64	385.01	112.79	78.52	315.12	77.65	154.40	384.90
53320	99.28	-3.10	-11.67	76.71	75.82	635.95	77.51	223.02	382.45	114.21	78.18	317.08	78.49	156.95	382.27
53321	100.20	-2.50	-11.67	23.59	64.71	549.77	57.23	136.56	376.25	44.39	73.25	304.70	57.93	88.17	376.00
53322	100.13	-3.10	-11.67	25.46	65.63	549.84	58.27	140.72	373.55	46.37	73.92	305.29	59.63	92.99	373.17
53323	101.05	-2.50	-11.67	14.90	53.77	408.82	32.51	54.90	358.04	7.92	65.21	387.63	33.43	39.48	357.59
53324	100.97	-3.10	-11.67	15.56	55.72	409.82	34.01	63.04	355.30	9.49	67.02	385.22	35.70	48.70	354.70
53325	101.90	-2.50	-11.67	2.73	48.01	301.16	15.88	37.62	333.86	3.14	57.93	602.49	16.24	41.50	333.33
53326	101.82	-3.10	-11.67	3.63	52.10	301.56	17.50	46.53	330.92	4.14	62.61	598.19	18.78	49.74	330.34
53327	98.51	-2.50	-13.00	349.86	155.67	761.52	150.13	398.70	414.67	401.80	131.00	391.28	150.26	349.13	414.66
53328	98.43	-3.10	-13.00	347.81	155.99	758.01	148.49	398.68	412.86	400.51	131.41	390.31	148.65	349.10	412.83
53329	99.36	-2.50	-13.00	292.74	151.98	750.20	135.71	359.72	423.46	327.61	134.59	373.61	135.91	320.14	423.42
53330	99.28	-3.10	-13.00	291.67	151.34	747.01	134.57	360.10	421.24	327.20	133.83	372.27	134.85	320.40	421.15
53331	100.20	-2.50	-13.00	197.59	140.65	703.30	110.84	293.82	429.27	218.08	131.32	344.87	111.15	266.29	429.17
53332	100.13	-3.10	-13.00	198.50	138.50	700.82	110.42	295.38	426.58	219.53	128.99	343.16	110.92	267.64	426.38
53333	101.05	-2.50	-13.00	70.92	122.27	577.63	79.04	169.79	430.40	80.27	121.50	340.47	79.59	155.19	430.11
53334	100.97	-3.10	-13.00	73.40	119.90	577.04	79.57	174.45	427.60	83.17	119.02	337.28	80.26	159.67	427.22
53335	101.90	-2.50	-13.00	40.84	100.63	337.33	21.83	46.62	393.23	38.71	107.65	607.65	23.78	48.16	392.41
53336	101.82	-3.10	-13.00	39.27	94.55	337.71	9.92	60.13	388.97	36.82	102.69	602.23	11.07	61.45	388.41
53337	98.51	-2.50	-14.33	788.56	282.83	782.86	272.37	544.56	498.83	827.26	238.77	412.31	271.14	526.88	498.83
53338	98.43	-3.10	-14.33	779.58	258.93	778.84	263.94	542.09	496.18	819.41	210.03	409.94	265.02	524.40	496.17
53339	99.36	-2.50	-14.33	728.36	284.19	793.71	231.81	570.67	532.86	749.32	245.32	406.08	230.35	557.40	532.86
53340	99.28	-3.10	-14.33	721.52	268.32	789.77	224.55	567.56	529.96	743.43	226.84	403.22	225.98	554.22	529.95
53341	100.20	-2.50	-14.33	674.56	286.82	799.44	211.78	574.13	541.63	683.06	255.07	397.36	210.42	566.26	541.63
53342	100.13	-3.10	-14.33	669.92	274.66	795.70	205.01	570.91	538.75	679.15	241.61	394.33	206.47	562.94	538.74
53343	101.05	-2.50	-14.33	598.97	288.08	774.05	206.35	539.29	556.40	600.73	265.58	376.74	205.40	536.97	556.41
53344	100.97	-3.10	-14.33	600.52	272.12	771.00	197.91	538.44	552.28	602.79	249.06	373.58	199.03	535.95	552.24
53345	101.90	-2.50	-14.33	427.43	343.74	573.40	231.28	352.98	673.44	427.35	333.63	387.30	231.10	354.57	673.14
53346	101.82	-3.10	-14.33	435.67	331.67	571.78	244.26	353.13	668.78	435.85	321.19	380.98	244.48	354.44	668.71
53347	79.06	-2.50	-11.67	103.67	62.75	323.46	2.11	406.70	356.86	643.14	155.26	346.37	25.23	250.48	356.99
53348	79.06	-3.10	-11.67	103.66	62.44	327.75	5.56	406.45	354.91	638.54	154.26	350.41	27.83	251.21	355.10
53349	80.29	-2.50	-11.67	110.52	62.54	328.85	13.49	406.18	358.27	613.67	143.38	348.22	25.18	261.80	358.36
53350	80.28	-3.10	-11.67	110.55	62.22	333.06	14.52	405.95	356.33	609.89	142.57	352.26	26.72	262.36	356.46
53351	81.52	-2.50	-11.67	122.89	63.06	339.52	27.17	405.74	360.13	588.15	131.38	350.07	32.58	272.81	360.19
53352	81.51	-3.10	-11.67	122.93	62.72	343.58	27.70	405.55	358.25	585.06	130.74	354.14	33.21	273.23	358.32
53353	82.75	-2.50	-11.67	138.82	64.30	355.02	40.66	405.38	362.43	566.09	119.35	351.93	43.41	283.18	362.46
53354	82.73	-3.10	-11.67	138.86	63.95	358.88	41.00	405.24	360.63	563.57	118.86	356.04	43.61	283.49	360.66
53355	83.97	-2.50	-11.67	156.70	66.24	374.79	53.70	405.12	365.12	546.98	107.43	353.81	55.21	292.65	365.13
53356	83.95	-3.10	-11.67	156.69	65.91	378.41	53.97	405.04	363.45	544.89	107.07	357.99	55.26	292.86	363.46
53357	85.20	-2.50	-11.67	175.34	68.81	398.21	66.04	404.98	368.14	530.29	95.87	355.70	66.90	300.97	368.13
53358	85.17	-3.10	-11.67	175.21	68.57	401.57	66.29	404.94	366.66	528.49	95.64	359.95	66.93	301.10	366.65
53359	86.43	-2.50	-11.67	193.90	71.88	424.69	77.37	404.97	371.38	515.46	85.01	357.57	77.86	307.94	371.37
53360	86.39	-3.10	-11.67	193.58	71.81	427.79	77.66	404.94	370.17	513.81	84.97	361.91	77.93	307.97	370.15
53361	87.66	-2.50	-11.67	211.77	75.26	453.68	87.41	405.14	374.68	501.95	75.33	359.38	87.67	313.38	374.67
53362	87.62	-3.10	-11.67	211.17	75.43	456.47	87.72	405.06	373.80	500.31	75.59	363.81	87.78	313.28	373.78
53363	88.88	-2.50	-11.67	228.42	78.72	484.64	95.87	405.54	377.79	489.11	67.35	361.09	95.98	317.13	377.78
53364	88.84	-3.10	-11.67	227.48	79.15	487.08	96.15	405.35	377.29	487.38	68.06	365.58	96.07	316.86	377.27
53365	90.11	-2.50	-11.67	243.22	82.00	517.09	102.63	406.20	380.43	476.09	61.53	362.64	102.65	319.09	380.43
53366	90.06	-3.10	-11.67	241.93	82.63	519.09	102.73	405.84	380.28	474.21	62.77	367.15	102.58	318.64	380.28
53367	91.34	-2.50	-11.67	255.24	84.96	550.56	107.74	406.96	382.35	461.61	58.17	364.02	107.71	319.17	382.36
53368	91.28	-3.10	-11.67	253.66	85.58	552.03	107.51	406.43	382.46	459.62	59.77	368.48	107.33	318.57	382.47
53369	92.57	-2.50	-11.67	263.01	87.57	584.60	111.46	407.30	383.50	443.73	57.53	365.27	111.42	317.19	383.52
53370	92.50	-3.10	-11.67	261.20	87.93	585.43	110.78	406.61	383.67	441.67	59.00	369.57	110.62	316.52	383.70
53371	93.79	-2.50	-11.67	264.07	89.89	618.69	114.02	405.83	384.16	419.42	59.85	366.44	113.99	312.65	384.19
53372	93.73	-3.10	-11.67	262.14	89.78	618.82	112.90	405.05	384.15	417.40	60.63	370.49	112.79	311.99	384.20
53373	95.02	-2.50	-11.67	254.48	91.79	651.91	115.23	399.40	385.12	384.17	65.01	367.47	115.22	303.87	385.17
53374	94.95	-3.10	-11.67	252.63	91.14	651.28	113.79	398.64	384.70	382.40	64.83	371.14	113.77	303.34	384.77
53375	96.25	-2.50	-11.67	228.60	92.31	680.14	113.28	381.08	386.88	332.02	71.72	366.54	113.32	286.03	386.92
53376	96.17	-3.10	-11.67	227.14	91.31	678.81	111.82	380.62	385.84	330.85	70.78	369.71	111.93	285.83	385.91
53377	97.48	-2.50	-11.67	183.48	89.84	692.21	105.56	341.55	388.56	260.20	77.65	357.70	105.71	252.17	388.58
53378	97.39	-3.10	-11.67	182.84	88.84	690.57	104.51	341.88	386.83	260.07	76.44	360.41	104.84	252.70	386.87
53379	79.06	-2.50	-13.00	121.04	78.19	343.88	2.74	401.47	351.05	746.90	174.21	363.26	28.71	298.87	351.11
53380	79.06	-3.10	-13.00	121.36	78.18	344.87	2.61	401.77	349.87	741.85	173.45	364.20	36.05	299.83	349.96
53381	80.29	-2.50	-13.00	129.59	77.91	348.84	14.75	401.21	351.97	712.45	160.78	364.64	28		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
53411	79.06	-2.50	-14.33	140.39	116.31	363.13	45.71	435.25	388.70	843.06	203.63	380.30	79.61	398.02	388.70
53412	79.06	-3.10	-14.33	137.00	103.06	362.69	44.85	436.37	389.22	836.94	195.90	379.88	3.66	399.40	389.23
53413	80.29	-2.50	-14.33	150.61	116.56	367.75	48.07	435.16	388.98	803.57	190.53	381.42	76.17	401.24	388.99
53414	80.28	-3.10	-14.33	147.56	102.29	367.27	47.33	436.24	389.48	798.53	181.81	380.99	17.73	402.52	389.49
53415	81.52	-2.50	-14.33	170.05	118.18	376.85	56.07	435.15	389.39	771.59	177.78	382.57	77.66	404.36	389.39
53416	81.51	-3.10	-14.33	167.45	102.31	376.30	55.10	436.18	389.88	767.48	167.42	382.14	35.35	405.53	389.89
53417	82.75	-2.50	-14.33	195.73	121.22	390.10	67.64	435.24	389.93	746.48	165.60	383.76	83.53	407.33	389.94
53418	82.73	-3.10	-14.33	193.57	103.19	389.46	66.23	436.20	390.43	743.14	152.76	383.32	52.71	408.40	390.43
53419	83.97	-2.50	-14.33	225.34	125.67	407.12	81.04	435.43	390.61	727.51	154.34	384.98	92.58	410.09	390.61
53420	83.95	-3.10	-14.33	223.54	105.06	406.36	79.15	436.35	391.13	724.77	138.00	384.54	69.65	411.07	391.13
53421	85.20	-2.50	-14.33	257.43	131.47	427.45	95.16	435.77	391.41	713.96	144.47	386.24	103.57	412.59	391.41
53422	85.17	-3.10	-14.33	255.86	108.02	426.56	92.83	436.63	391.99	711.64	123.46	385.80	86.02	413.49	391.99
53423	86.43	-2.50	-14.33	291.21	138.53	450.66	109.27	436.28	392.32	705.07	136.59	387.53	115.43	414.81	392.32
53424	86.39	-3.10	-14.33	289.71	112.22	449.63	106.59	437.08	392.98	702.98	109.75	387.08	101.66	415.61	392.97
53425	87.66	-2.50	-14.33	326.39	146.67	476.33	122.88	437.03	393.31	700.16	131.28	388.85	127.38	416.72	393.31
53426	87.62	-3.10	-14.33	324.78	117.73	475.14	119.91	437.74	394.07	698.07	97.81	388.40	116.33	417.42	394.07
53427	88.88	-2.50	-14.33	363.06	155.62	504.09	135.66	438.10	394.32	698.62	128.90	390.20	138.88	418.35	394.32
53428	88.84	-3.10	-14.33	361.13	124.58	502.72	132.38	438.71	395.21	696.31	88.92	389.74	129.81	418.92	395.21
53429	90.11	-2.50	-14.33	401.64	165.13	533.61	147.54	439.63	395.30	699.98	129.40	391.57	149.75	419.76	395.30
53430	90.06	-3.10	-14.33	399.20	132.79	532.06	143.79	440.11	396.30	697.27	84.42	391.10	142.03	420.21	396.30
53431	91.34	-2.50	-14.33	442.81	175.14	564.65	158.85	441.77	396.20	703.98	132.54	392.99	160.20	421.18	396.20
53432	91.28	-3.10	-14.33	439.69	142.50	562.90	154.37	442.11	397.28	700.72	85.24	392.51	153.27	421.51	397.28
53433	92.57	-2.50	-14.33	487.51	186.00	597.03	170.29	444.78	397.08	710.74	138.34	394.50	170.92	423.00	397.08
53434	92.50	-3.10	-14.33	483.58	154.17	595.07	164.85	444.98	398.15	706.86	91.79	393.99	164.35	423.22	398.15
53435	93.79	-2.50	-14.33	537.10	198.63	630.74	183.01	449.13	398.19	721.19	147.49	396.20	183.01	426.04	398.19
53436	93.73	-3.10	-14.33	532.23	168.66	628.57	176.55	449.19	399.17	716.61	104.41	395.67	176.55	426.15	399.17
53437	95.02	-2.50	-14.33	593.96	214.40	666.25	198.63	456.10	400.24	737.93	161.53	398.45	198.11	432.09	400.24
53438	94.95	-3.10	-14.33	587.97	187.06	663.85	191.32	455.92	401.06	732.50	123.58	397.88	191.72	432.00	401.06
53439	96.25	-2.50	-14.33	663.21	234.00	705.38	220.13	469.89	404.35	767.27	181.41	402.29	219.25	446.13	404.35
53440	96.17	-3.10	-14.33	655.72	209.57	702.62	211.98	469.23	404.84	760.65	149.12	401.62	212.64	445.57	404.84
53441	97.48	-2.50	-14.33	756.78	262.78	750.93	263.70	474.57	408.57	823.47	213.69	409.58	262.66	481.15	408.57
53442	97.39	-3.10	-14.33	747.67	237.61	747.43	254.82	474.57	408.57	815.46	182.27	408.24	255.65	479.63	408.57
53443	77.84	-2.50	-11.67	103.86	63.65	323.62	14.39	407.30	355.92	676.99	166.99	344.49	32.97	239.25	355.92
53444	76.61	-2.50	-11.67	111.30	65.18	329.32	27.80	407.94	355.46	715.58	178.52	342.56	44.59	228.65	355.46
53445	75.38	-2.50	-11.67	124.72	67.27	340.34	40.81	408.61	355.49	759.17	189.81	340.59	57.67	219.36	355.49
53446	74.15	-2.50	-11.67	142.31	69.85	356.22	53.20	409.27	355.99	807.87	200.78	338.61	71.16	212.29	355.99
53447	72.93	-2.50	-11.67	162.49	72.82	376.41	64.75	409.88	356.97	861.63	211.28	336.70	84.51	208.57	356.97
53448	71.70	-2.50	-11.67	184.08	76.08	400.31	75.18	410.40	358.36	920.16	221.03	335.05	97.27	209.69	358.36
53449	70.47	-2.50	-11.67	206.26	79.50	427.32	84.18	410.76	360.09	982.88	229.59	333.99	108.97	217.46	360.09
53450	69.24	-2.50	-11.67	228.42	82.94	456.93	91.43	410.95	362.01	1048.97	236.28	334.07	119.13	234.12	362.01
53451	68.02	-2.50	-11.67	250.07	86.24	488.70	96.60	410.95	363.90	1117.43	240.13	336.15	127.19	262.34	363.90
53452	66.79	-2.50	-11.67	270.69	89.26	522.32	99.51	410.78	365.50	1187.37	239.80	341.53	132.59	305.12	365.50
53453	65.56	-2.50	-11.67	289.68	92.02	557.61	100.12	410.36	366.62	1258.55	233.53	352.13	134.75	365.50	366.62
53454	64.33	-2.50	-11.67	306.20	94.64	594.53	98.53	409.38	367.25	1332.33	218.86	370.55	132.92	446.04	367.25
53455	63.11	-2.50	-11.67	319.21	97.41	633.02	94.74	406.88	367.78	1413.15	192.41	399.57	126.11	547.61	367.78
53456	61.88	-2.50	-11.67	327.68	100.48	672.30	88.15	400.38	369.26	1510.88	150.12	440.01	112.97	667.46	369.26
53457	60.65	-2.50	-11.67	332.01	103.57	707.57	76.35	384.01	372.66	1643.18	93.50	483.32	91.58	796.49	372.66
53458	59.42	-2.50	-11.67	338.64	106.49	725.01	55.82	350.48	378.31	1832.34	96.62	497.22	60.93	924.02	378.31
53459	77.84	-3.10	-11.67	103.82	63.32	327.91	15.09	407.04	353.99	671.44	165.77	348.55	36.20	240.19	353.99
53460	76.62	-3.10	-11.67	111.22	64.82	333.53	28.01	407.70	353.59	708.95	177.06	346.66	48.32	229.80	353.59
53461	75.39	-3.10	-11.67	124.59	66.87	344.40	40.84	408.40	353.71	751.33	188.11	344.75	62.01	220.72	353.71
53462	74.17	-3.10	-11.67	142.09	69.41	360.08	53.16	409.11	354.35	798.72	198.85	342.85	76.31	213.84	354.35
53463	72.95	-3.10	-11.67	162.13	72.38	380.03	64.70	409.77	355.51	851.07	209.15	341.05	90.66	210.27	355.51
53464	71.73	-3.10	-11.67	183.51	75.69	403.66	75.18	410.32	357.15	908.16	218.79	339.52	104.60	211.44	357.15
53465	70.51	-3.10	-11.67	205.39	79.24	430.39	84.29	410.70	359.18	969.50	227.36	338.58	117.65	219.12	360.08
53466	69.28	-3.10	-11.67	227.16	82.88	459.68	91.65	410.86	361.47	1034.32	234.23	338.75	129.24	235.49	361.47
53467	68.06	-3.10	-11.67	248.35	86.41	491.07	96.90	410.77	363.77	1101.78	238.49	340.80	138.71	263.16	363.77
53468	66.84	-3.10	-11.67	268.51	89.63	524.22	99.80	410.46	365.75	1171.10	238.86	345.94	145.39	305.15	365.75
53469	65.62	-3.10	-11.67	287.07	92.45	558.92	100.30	409.90	367.11	1242.24	233.66	355.95	148.54	364.55	367.11
53470	64.40	-3.10	-11.67	303.24	94.94	595.15	98.59	408.81	367.74	1316.77	220.54	373.29	147.22	443.99	367.74
53471	63.17	-3.10	-11.67	316.02	97.40	632.83	94.81	406.25	367.99	1399.38	196.16	400.70	140.12	544.51	368.05
53472	61.95	-3.10	-11.67	324.42	100.13	671.25	88.54	399.77	368.84	1499.88	156.03	439.15	125.47	663.61	368.84
53473	60.73	-3.10	-11.67	328.87	103.01	705.73	77.54	383.63	371.30	1635.35	99.39	480.70	101.36	792.49	371.30
53474	59.51	-3.10	-11.67	335.69	105.89	722.88	58.55	350.73	375.77	1826.78	92.02	494.55	67.65	920.67	375.77
53475	77.84	-2.50	-13.00	121.83	79.37	343.95	16.82	401.88	350.47	787.33	187.50	361.89	37.80	290.83	350.47
53476	76.61	-2.50	-13.00	132.04	81.41	349.04	32.01	402.41	350.24	834.04	200.67	360.54	51.24	283.24	350.24
53477	75.38	-2.50	-13.00	149.86	84.22	358.97	46.87	403.05	350.37	887.13	213.75	359.18	66.43	276.59	350.37
53478	74.15	-2.50	-13.00	172.94	87.75	373.38	61.17	403.81	350.87	946.46	226.74	357.84	82.28	271.55	351.07
53479	72.93	-2.50	-13.00	199.35	91.93										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
53509	75.38	-2.50	-14.33	176.77	123.32	376.92	70.39	435.89	388.41	1010.77	244.48	377.11	113.35	388.98	388.43
53510	74.15	-2.50	-14.33	205.45	128.14	390.21	83.45	436.23	388.57	1083.32	258.76	376.10	129.33	386.80	388.59
53511	72.93	-2.50	-14.33	238.37	134.12	407.26	96.89	436.65	388.88	1163.38	273.50	375.11	146.44	385.56	388.91
53512	71.70	-2.50	-14.33	274.03	141.17	427.65	110.07	437.17	389.33	1249.51	288.75	374.14	164.13	385.71	389.37
53513	70.47	-2.50	-14.33	311.48	149.18	450.92	122.53	437.79	389.91	1339.31	304.51	373.21	181.87	387.83	389.95
53514	69.24	-2.50	-14.33	350.09	157.98	476.66	133.85	438.56	390.59	1429.06	320.65	372.30	199.07	392.73	390.64
53515	68.02	-2.50	-14.33	389.52	167.35	504.51	143.75	439.55	391.33	1513.32	336.92	371.43	215.11	401.44	391.38
53516	66.79	-2.50	-14.33	429.58	177.08	534.19	152.12	440.89	392.07	1584.44	352.95	370.60	229.37	415.35	392.12
53517	65.56	-2.50	-14.33	470.29	187.15	565.48	159.23	442.79	392.78	1631.82	368.33	369.83	241.32	436.38	392.82
53518	64.33	-2.50	-14.33	511.89	197.91	598.27	165.68	445.60	393.54	1641.07	382.74	369.17	250.57	467.20	393.58
53519	63.11	-2.50	-14.33	555.24	210.16	632.61	172.51	450.01	394.64	1592.69	395.97	368.68	257.14	511.72	394.69
53520	61.88	-2.50	-14.33	602.84	225.11	668.99	181.27	457.62	396.95	1460.45	408.11	368.46	261.98	575.73	397.01
53521	60.65	-2.50	-14.33	661.22	243.35	708.93	195.17	473.07	401.86	1209.87	418.97	368.44	268.66	667.88	401.98
53522	59.42	-2.50	-14.33	745.80	270.62	754.46	231.18	508.68	438.01	798.72	432.28	368.31	294.11	798.83	438.18
53523	77.84	-3.10	-14.33	138.25	104.58	362.70	48.44	436.53	389.02	883.27	209.73	378.79	19.48	398.24	389.04
53524	76.62	-3.10	-14.33	151.29	106.82	367.32	56.82	436.69	388.90	937.66	223.38	377.73	38.04	393.17	388.92
53525	75.39	-3.10	-14.33	173.76	109.67	376.37	67.98	436.91	388.92	1000.27	236.94	376.69	57.05	390.40	388.95
53526	74.17	-3.10	-14.33	202.72	113.13	389.57	80.44	437.20	389.11	1070.92	250.54	375.67	76.40	388.22	389.15
53527	72.95	-3.10	-14.33	235.86	117.21	406.52	93.32	437.56	389.45	1148.92	264.31	374.68	96.02	386.95	389.50
53528	71.73	-3.10	-14.33	271.63	121.95	426.77	106.04	438.02	389.97	1232.95	278.43	373.72	115.74	387.05	390.03
53529	70.51	-3.10	-14.33	309.04	127.40	449.89	118.14	438.58	390.64	1320.73	292.97	372.79	135.28	389.08	390.71
53530	69.28	-3.10	-14.33	347.46	133.61	475.47	129.19	439.27	391.44	1408.74	307.97	371.88	154.19	393.83	391.51
53531	68.06	-3.10	-14.33	386.53	140.62	503.15	138.83	440.16	392.31	1491.79	323.34	371.01	171.89	402.30	392.39
53532	66.84	-3.10	-14.33	426.11	148.47	532.64	146.84	441.38	393.17	1562.52	338.91	370.18	187.75	415.89	393.24
53533	65.62	-3.10	-14.33	466.26	157.35	563.72	153.39	443.15	393.94	1610.73	354.49	369.41	201.22	436.52	394.01
53534	64.40	-3.10	-14.33	507.26	167.72	596.29	159.15	445.84	394.68	1622.44	369.93	368.74	211.97	466.86	394.74
53535	63.17	-3.10	-14.33	549.98	180.35	630.41	165.31	450.10	395.64	1578.60	385.02	368.23	219.98	510.82	395.71
53536	61.95	-3.10	-14.33	596.80	196.26	666.52	173.64	457.46	397.70	1453.32	399.50	367.95	226.09	574.14	397.78
53537	60.73	-3.10	-14.33	653.96	215.76	706.08	187.09	472.38	402.12	1212.12	412.16	367.85	233.25	665.30	402.25
53538	59.51	-3.10	-14.33	736.95	240.38	750.88	222.63	507.00	436.54	811.79	422.85	367.06	255.54	794.84	436.66
53539	55.01	-2.50	-11.67	439.82	162.40	78.86	142.16	272.53	535.80	3130.26	1176.27	3725.00	142.35	2449.82	571.58
53540	55.08	-3.10	-11.67	437.07	162.72	88.04	138.89	272.52	528.04	3133.50	1182.93	3685.30	146.14	2460.72	625.85
53541	55.85	-2.50	-11.67	441.50	134.28	343.99	97.28	237.26	430.05	2925.90	738.70	1172.41	104.54	1779.09	442.14
53542	55.93	-3.10	-11.67	438.43	133.75	346.72	94.08	237.54	423.98	2923.15	746.78	1153.23	94.05	1780.34	458.11
53543	56.70	-2.50	-11.67	412.21	120.23	547.71	48.21	228.37	403.87	2596.58	513.29	418.37	57.59	1358.02	411.05
53544	56.77	-3.10	-11.67	409.14	119.83	548.24	46.70	229.91	398.68	2591.96	518.14	413.04	47.91	1357.85	416.27
53545	57.54	-2.50	-11.67	378.97	113.00	660.24	15.52	263.35	392.06	2299.87	340.78	343.91	22.69	1152.37	396.13
53546	57.62	-3.10	-11.67	376.01	112.54	659.35	20.42	264.79	387.64	2294.95	340.08	346.44	19.44	1151.13	396.23
53547	58.39	-2.50	-11.67	354.61	109.33	712.13	30.02	306.98	384.86	2058.17	206.28	450.83	29.59	1034.79	386.80
53548	58.47	-3.10	-11.67	351.68	108.77	710.39	34.99	307.97	381.26	2053.14	200.87	450.42	34.30	1032.50	385.04
53549	55.01	-2.50	-13.00	47.60	101.11	337.41	23.32	57.23	456.72	137.88	285.86	1259.40	59.28	100.30	519.67
53550	55.08	-3.10	-13.00	45.67	106.14	339.70	18.67	71.32	451.05	130.22	301.31	1249.55	95.40	122.22	536.72
53551	55.85	-2.50	-13.00	95.26	134.17	511.19	35.66	209.73	488.31	759.56	307.21	1170.66	63.63	1122.11	501.43
53552	55.93	-3.10	-13.00	97.14	136.58	512.20	39.65	213.39	483.11	765.70	317.04	1158.74	92.13	1139.17	506.95
53553	56.70	-2.50	-13.00	224.03	150.18	675.88	54.33	334.55	461.91	1141.62	184.02	513.41	70.14	1318.90	464.72
53554	56.77	-3.10	-13.00	224.72	152.73	673.97	57.51	335.36	456.82	1146.38	191.46	509.09	86.21	1319.82	462.98
53555	57.54	-2.50	-13.00	318.19	159.56	748.03	79.92	392.49	438.39	1285.92	96.23	327.45	91.94	1280.75	438.84
53556	57.62	-3.10	-13.00	317.15	163.20	744.95	82.09	392.30	434.11	1290.95	103.48	326.71	104.63	1278.66	435.42
53557	58.39	-2.50	-13.00	375.11	162.54	772.46	100.01	422.83	418.60	1347.72	106.97	378.84	114.36	1182.73	418.59
53558	58.47	-3.10	-13.00	373.10	166.49	768.83	101.55	422.36	415.22	1351.89	117.16	377.20	127.15	1178.79	415.33
53559	55.01	-2.50	-14.33	427.10	349.61	580.37	221.03	351.05	690.55	399.62	250.51	541.38	239.58	312.47	702.11
53560	55.08	-3.10	-14.33	435.06	320.41	578.94	231.91	351.50	685.50	402.02	185.17	534.82	216.28	318.77	694.45
53561	55.85	-2.50	-14.33	602.89	292.70	763.87	187.07	538.50	571.59	573.22	296.82	444.35	245.59	625.23	574.41
53562	55.93	-3.10	-14.33	603.94	263.18	761.12	175.49	537.74	566.62	562.34	257.77	440.63	168.72	628.27	572.17
53563	56.70	-2.50	-14.33	672.16	291.66	786.80	181.91	580.21	553.69	325.14	363.36	396.38	254.96	899.64	554.13
53564	56.77	-3.10	-14.33	667.15	266.74	783.29	172.63	576.95	549.79	304.07	339.97	393.39	183.98	897.32	550.70
53565	57.54	-2.50	-14.33	719.10	289.87	789.80	196.53	579.69	539.61	75.94	408.69	359.85	269.01	973.61	539.61
53566	57.62	-3.10	-14.33	712.13	262.76	785.92	187.76	576.45	535.77	79.15	392.47	357.13	207.43	969.38	535.79
53567	58.39	-2.50	-14.33	775.80	289.61	784.45	235.89	552.94	501.34	380.88	433.55	364.13	298.52	919.99	501.41
53568	58.47	-3.10	-14.33	766.90	257.46	780.39	227.24	550.34	497.95	399.69	419.44	361.79	250.79	915.42	497.95
53569	97.31	-7.26	-11.67	126.85	79.16	663.43	85.39	300.42	358.19	189.42	71.45	383.97	88.23	222.17	357.89
53570	98.20	-7.26	-11.67	81.12	81.24	628.60	77.10	245.20	350.79	125.31	80.31	355.39	81.24	179.47	349.87
53571	99.09	-7.26	-11.67	38.91	83.48	553.94	65.31	176.87	340.56	63.60	88.66	329.08	70.82	130.88	338.70
53572	99.98	-7.26	-11.67	23.70	87.04	428.08	49.41	119.87	324.69	25.69	96.19	366.78	55.64	103.92	321.66
53573	100.87	-7.26	-11.67	14.52	88.03	312.18	36.33	102.65	307.24	15.76	98.21	534.14	40.58	102.59	304.16
53574	97.69	-6.18	-11.67	127.70	81.73	668.78	87.98	294.32	376.03	187.67	75.05	371.31	90.05	215.92	375.83
53575	98.57	-6.18	-11.67	79.67	80.96	630.89	77.83	236.08	370.51	121.51	81.12	343.66	80.97	170.55	369.84
53576	99.44	-6.18	-11.67	35.49	78.98	552.29	63.85	164.97	361.55	58.74	85.04	321.69	68.18	119.35	360.

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
53607	100.83	-3.96	-13.00	76.34	117.24	577.27	85.06	178.12	443.66	86.60	116.29	336.54	86.91	161.02	443.09
53608	101.69	-3.96	-13.00	25.80	88.80	348.54	23.90	75.05	413.64	23.33	95.32	570.28	26.08	75.28	413.36
53609	97.31	-7.26	-14.33	646.94	284.30	775.11	229.41	465.78	450.74	700.27	244.53	472.15	224.96	447.86	450.73
53610	98.20	-7.26	-14.33	622.04	280.64	790.42	216.48	477.00	469.07	655.60	242.57	466.90	211.88	462.85	469.04
53611	99.09	-7.26	-14.33	585.00	291.87	799.94	212.37	471.36	475.68	603.33	260.58	458.44	208.23	461.94	475.69
53612	99.98	-7.26	-14.33	503.12	315.01	779.68	210.64	429.43	490.09	511.10	294.84	436.13	207.82	424.93	489.99
53613	100.87	-7.26	-14.33	327.78	272.45	607.08	184.07	299.24	568.92	329.83	266.25	402.85	183.52	298.19	567.08
53614	97.69	-6.18	-14.33	675.75	269.39	773.57	231.95	419.78	434.99	724.59	223.99	449.55	229.99	401.95	434.98
53615	98.57	-6.18	-14.33	638.66	276.10	788.50	213.27	429.68	457.09	668.26	234.76	444.42	211.34	415.82	457.07
53616	99.44	-6.18	-14.33	580.95	290.12	796.12	199.76	420.32	466.72	596.08	257.01	435.54	198.30	411.41	466.70
53617	100.32	-6.18	-14.33	476.41	284.79	773.04	182.58	375.57	480.51	482.31	262.83	413.05	182.11	371.77	480.31
53618	101.20	-6.17	-14.33	297.73	191.25	615.11	167.69	251.01	548.89	299.10	182.92	386.09	167.93	250.69	547.79
53619	98.01	-5.08	-14.33	703.99	259.17	772.51	240.14	416.31	438.48	749.00	209.91	429.20	240.04	398.54	438.47
53620	98.87	-5.08	-14.33	660.43	269.81	786.55	214.46	427.42	464.31	686.74	226.86	423.70	214.72	413.79	464.29
53621	99.74	-5.08	-14.33	599.11	278.76	792.95	195.82	419.86	474.63	611.69	244.76	414.31	196.68	411.35	474.59
53622	100.60	-5.07	-14.33	495.77	269.84	769.44	182.74	376.71	488.37	500.03	246.94	392.23	183.87	373.46	488.23
53623	101.47	-5.07	-14.33	306.97	197.62	609.43	178.80	238.00	563.62	307.70	188.18	374.94	179.10	238.38	563.27
53624	98.27	-3.96	-14.33	742.96	260.74	773.79	258.26	464.71	466.58	784.87	211.98	413.78	259.97	447.00	466.57
53625	99.12	-3.96	-14.33	695.17	275.28	786.48	228.31	482.07	497.04	718.85	234.54	407.67	230.57	468.62	497.02
53626	99.98	-3.96	-14.33	640.04	283.84	792.57	213.14	480.73	506.83	650.62	251.91	398.50	215.63	472.55	506.80
53627	100.83	-3.96	-14.33	553.00	288.30	768.59	212.80	441.71	521.48	556.05	266.70	377.27	214.84	438.92	521.39
53628	101.69	-3.96	-14.33	356.09	282.37	586.67	224.69	273.57	619.28	356.43	273.13	374.25	225.13	274.49	619.34
53629	79.06	-3.95	-11.67	103.66	61.82	335.57	8.12	404.33	354.23	630.17	152.37	357.80	33.77	250.89	354.52
53630	79.05	-5.05	-11.67	103.54	61.11	349.86	11.80	401.30	354.02	616.98	149.56	371.35	40.52	250.65	354.46
53631	79.04	-6.15	-11.67	103.09	61.10	368.08	16.25	397.53	346.14	600.87	146.41	388.70	45.63	250.22	346.73
53632	79.03	-7.25	-11.67	102.12	59.95	384.41	22.72	391.92	332.14	582.00	142.19	404.36	47.67	248.40	332.88
53633	80.27	-3.95	-11.67	110.61	61.62	340.75	15.78	403.88	355.67	603.02	141.08	359.68	31.03	261.73	355.86
53634	80.24	-5.05	-11.67	110.63	60.82	354.85	18.02	400.93	355.47	592.19	138.88	373.29	36.02	261.02	355.76
53635	80.21	-6.15	-11.67	110.37	60.59	372.85	21.18	397.28	347.58	578.93	136.54	390.71	39.72	260.05	347.96
53636	80.18	-7.25	-11.67	109.64	59.37	388.97	26.38	391.82	333.56	563.30	133.35	406.45	40.69	257.63	334.04
53637	81.48	-3.95	-11.67	123.05	62.11	351.02	28.32	403.56	357.65	579.47	129.62	361.62	35.61	272.35	357.77
53638	81.44	-5.06	-11.67	123.20	61.12	364.74	29.44	400.78	357.54	570.66	127.95	375.36	38.50	271.29	357.71
53639	81.39	-6.16	-11.67	123.17	60.50	382.31	31.11	397.36	349.68	559.88	126.28	392.94	40.50	269.93	349.90
53640	81.33	-7.25	-11.67	122.74	59.08	398.03	34.33	392.21	335.64	547.09	124.04	408.84	40.30	267.11	335.92
53641	82.69	-3.95	-11.67	139.00	63.37	365.99	41.35	403.38	360.17	559.03	118.06	363.63	44.81	282.43	360.22
53642	82.63	-5.06	-11.67	139.24	62.12	379.18	41.88	400.83	360.22	551.93	116.82	377.57	46.21	281.12	360.29
53643	82.56	-6.16	-11.67	139.43	60.93	396.16	42.60	397.78	352.46	543.28	115.67	395.41	46.87	279.55	352.55
53644	82.48	-7.25	-11.67	139.31	59.19	411.36	44.26	393.11	338.39	532.97	114.32	411.55	45.77	276.55	338.51
53645	83.90	-3.95	-11.67	156.78	65.41	385.13	54.19	403.32	363.20	541.18	106.59	365.72	55.88	291.66	363.22
53646	83.83	-5.06	-11.67	157.04	63.90	397.72	54.41	401.06	363.52	535.45	105.65	379.95	56.48	290.23	363.53
53647	83.74	-6.16	-11.67	157.39	62.03	414.04	54.50	398.49	355.94	528.59	104.85	398.15	56.37	288.62	355.94
53648	83.63	-7.25	-11.67	157.56	59.86	428.63	55.01	394.46	341.86	520.43	104.26	414.63	54.71	285.69	341.86
53649	85.12	-3.95	-11.67	175.14	68.25	407.88	66.50	403.34	366.73	525.35	95.48	367.87	67.31	299.80	366.71
53650	85.03	-5.06	-11.67	175.26	66.57	419.84	66.61	401.40	367.47	520.65	94.74	382.47	67.58	298.30	367.43
53651	84.91	-6.16	-11.67	175.64	63.98	435.50	66.33	399.38	360.19	515.20	94.03	401.18	67.10	296.82	360.12
53652	84.78	-7.26	-11.67	176.05	61.26	449.52	65.99	396.17	346.14	508.85	94.04	418.15	65.14	294.19	346.04
53653	86.33	-3.96	-11.67	193.19	71.81	433.65	77.93	403.42	370.68	510.99	85.21	370.05	78.26	306.55	370.65
53654	86.22	-5.06	-11.67	192.93	70.14	444.99	78.09	401.73	372.05	506.89	84.61	385.11	78.47	305.02	371.98
53655	86.09	-6.16	-11.67	193.11	66.89	460.05	77.70	400.29	365.27	502.40	83.70	404.49	77.93	303.74	365.15
53656	85.93	-7.26	-11.67	193.58	63.58	473.62	76.81	398.01	351.35	497.47	84.04	422.15	75.88	301.65	351.18
53657	87.54	-3.96	-11.67	210.29	75.92	461.86	88.07	403.51	374.90	497.53	76.43	372.19	88.10	311.68	374.87
53658	87.42	-5.07	-11.67	209.35	74.50	472.55	88.37	401.94	377.16	493.58	76.04	387.78	88.39	310.03	377.08
53659	87.26	-6.17	-11.67	208.93	70.81	487.10	88.09	400.93	371.19	489.50	74.65	408.00	87.99	308.94	371.04
53660	87.08	-7.26	-11.67	209.09	66.96	500.42	87.00	399.59	357.60	485.41	74.91	426.62	86.09	307.50	357.38
53661	88.75	-3.96	-11.67	225.97	80.19	491.89	96.48	403.63	379.10	484.41	69.78	374.16	96.32	315.01	379.07
53662	88.61	-5.07	-11.67	224.04	79.26	501.83	96.86	401.90	382.52	480.18	69.87	390.30	96.62	313.07	382.44
53663	88.44	-6.17	-11.67	222.53	75.47	515.85	96.79	401.02	377.74	475.87	67.94	411.49	96.42	311.96	377.59
53664	88.23	-7.26	-11.67	221.76	71.29	529.10	95.84	400.33	364.86	471.84	67.67	431.37	94.88	311.01	364.62
53665	89.96	-3.96	-11.67	239.73	84.14	523.16	102.81	403.81	382.83	470.94	65.51	375.84	102.54	316.46	382.81
53666	89.81	-5.07	-11.67	236.63	83.76	532.05	102.98	401.63	387.54	466.14	66.43	392.40	102.56	314.05	387.48
53667	89.61	-6.17	-11.67	233.62	80.17	545.25	102.92	400.39	384.29	461.08	64.26	414.53	102.34	312.55	384.17
53668	89.38	-7.26	-11.67	231.20	75.98	558.33	102.24	399.71	372.60	456.27	63.29	435.83	101.17	311.60	372.38
53669	91.18	-3.96	-11.67	250.83	87.23	555.11	107.04	404.03	385.56	456.04	63.27	377.12	106.73	316.08	385.57
53670	91.00	-5.07	-11.67	246.57	87.14	562.48	106.47	401.22	391.39	450.62	64.97	393.79	105.98	313.12	391.38
53671	90.79	-6.17	-11.67	241.95	83.80	574.16	105.90	399.18	389.68	444.59	62.94	416.50	105.20	310.94	389.63
53672	90.53	-7.26	-11.67	237.45	79.87	586.30	105.22	397.69	379.51	438.46	61.52	438.95	104.06	309.31	379.38
53673	92.39	-3.96	-11.67	257.87	89.22	587.30	109.51	403.89	386.97	437.89	62.43	377.94	109.24	313.84	387.01
53674	92.20	-5.07	-11.67	252.69	88.80	592.59	107.71	400.51	393.32	432.03	64.16	394.27	107.26	310.52	393.38
53675	91.96	-6.17	-11.67	246.69	85.38	601.72	105.94	397.61	392.58	425.21</					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
53705	82.69	-3.95	-13.00	167.14	80.02	378.51	47.90	398.14	366.44	652.48	132.87	373.88	49.34	320.25	366.46
53706	82.63	-5.06	-13.00	168.39	78.04	393.71	48.90	388.83	372.49	645.53	131.13	389.91	52.07	311.73	372.51
53707	82.56	-6.16	-13.00	170.55	76.34	416.72	47.68	388.20	365.16	637.40	129.70	413.85	59.42	312.06	365.18
53708	82.48	-7.25	-13.00	172.03	75.67	435.64	50.33	393.20	344.12	627.78	129.07	433.70	57.53	318.13	344.12
53709	83.90	-3.95	-13.00	190.95	83.33	396.25	62.48	398.57	368.79	634.58	120.21	375.50	62.90	327.07	368.79
53710	83.83	-5.06	-13.00	192.37	80.91	410.70	63.31	389.55	375.22	629.35	118.43	391.71	64.82	318.56	375.20
53711	83.74	-6.16	-13.00	194.94	78.88	432.78	62.57	389.48	368.32	623.55	117.31	415.93	70.04	319.09	368.28
53712	83.63	-7.25	-13.00	197.25	76.67	451.05	63.96	395.35	347.71	616.82	116.66	436.16	68.39	325.63	347.65
53713	85.12	-3.95	-13.00	216.16	87.93	417.43	76.77	399.24	371.60	620.00	108.31	377.18	76.82	333.21	371.58
53714	85.03	-5.06	-13.00	217.62	85.28	431.05	77.69	390.55	378.59	616.10	106.35	393.64	78.52	324.77	378.55
53715	84.91	-6.16	-13.00	220.52	83.08	452.16	77.47	391.15	372.31	612.22	105.44	418.27	82.65	325.68	372.24
53716	84.78	-7.26	-13.00	223.73	79.17	469.80	78.10	398.17	352.32	608.10	104.29	439.03	81.38	333.02	352.20
53717	86.33	-3.96	-13.00	241.85	93.82	441.55	90.38	400.15	374.86	608.08	97.94	378.92	90.27	338.50	374.84
53718	86.22	-5.06	-13.00	243.08	91.31	454.33	91.60	391.77	382.65	605.01	95.82	395.71	92.12	330.17	382.59
53719	86.09	-6.16	-13.00	246.10	89.34	474.50	92.09	393.13	377.30	602.56	95.15	420.88	95.93	331.59	377.20
53720	85.93	-7.26	-13.00	250.16	83.79	491.65	92.46	401.58	358.20	600.73	92.82	442.41	95.28	340.09	358.04
53721	87.54	-3.96	-13.00	267.48	100.81	468.14	102.84	401.33	378.49	598.17	90.11	380.69	102.65	342.80	378.46
53722	87.42	-5.07	-13.00	268.03	98.98	480.07	104.49	393.15	387.40	595.31	88.25	397.86	104.80	334.52	387.34
53723	87.26	-6.17	-13.00	270.66	97.92	499.41	105.91	395.23	383.45	593.59	88.20	423.77	108.82	336.48	383.32
53724	87.08	-7.26	-13.00	275.25	91.20	516.32	106.66	405.33	365.72	593.48	84.06	446.41	109.19	346.46	365.51
53725	88.75	-3.96	-13.00	292.79	108.50	496.73	113.62	402.87	382.29	589.69	85.72	382.44	113.38	346.06	382.26
53726	88.61	-5.07	-13.00	292.09	107.91	507.76	115.58	394.65	392.67	586.36	85.03	400.02	115.72	337.66	392.60
53727	88.44	-6.17	-13.00	293.50	108.64	526.35	117.97	397.17	390.73	584.40	86.69	426.86	120.11	339.99	390.59
53728	88.23	-7.26	-13.00	297.69	101.79	543.38	119.78	408.89	375.23	584.93	80.91	451.06	121.94	351.51	374.99
53729	89.96	-3.96	-13.00	317.74	116.20	526.91	122.34	404.94	385.90	582.14	84.81	384.11	122.08	348.41	385.87
53730	89.81	-5.07	-13.00	315.26	117.10	536.88	124.05	396.37	397.95	577.73	86.26	402.04	124.03	339.67	397.89
53731	89.61	-6.17	-13.00	314.41	120.40	554.58	126.85	398.81	398.65	574.42	91.09	429.86	128.31	341.94	398.52
53732	89.38	-7.26	-13.00	316.60	114.97	571.94	129.90	411.55	386.58	573.92	85.68	456.08	131.54	354.50	386.33
53733	91.18	-3.96	-13.00	342.22	123.21	558.37	129.03	407.84	388.89	574.91	86.33	385.70	128.79	350.23	388.88
53734	91.00	-5.07	-13.00	337.65	125.14	566.98	129.52	398.69	402.42	569.08	89.93	403.78	129.41	341.01	402.38
53735	90.79	-6.17	-13.00	333.72	130.91	583.30	131.37	400.46	405.87	563.54	98.49	432.34	132.26	347.73	405.78
53736	90.53	-7.26	-13.00	332.05	128.16	600.47	134.50	413.07	398.16	560.17	96.01	460.58	135.56	355.31	397.96
53737	92.39	-3.96	-13.00	365.76	129.28	590.98	134.39	411.81	391.03	567.07	89.13	387.30	134.23	352.15	391.04
53738	92.20	-5.07	-13.00	359.03	130.97	597.87	132.71	402.07	405.29	559.74	93.37	405.21	132.60	342.52	405.29
53739	91.96	-6.17	-13.00	351.73	137.58	611.96	131.90	402.94	410.56	551.67	104.05	433.87	132.35	343.53	410.54
53740	91.68	-7.26	-13.00	344.98	137.04	627.37	132.61	414.43	406.65	544.18	104.88	463.20	133.16	355.22	406.57
53741	93.60	-3.96	-13.00	387.13	134.96	624.93	139.68	416.94	392.64	557.06	93.24	389.17	139.61	354.96	392.67
53742	93.39	-5.08	-13.00	378.26	134.91	629.81	135.52	406.73	406.49	548.28	95.70	406.57	135.46	345.09	406.53
53743	93.14	-6.18	-13.00	367.73	139.61	640.83	131.04	406.98	411.58	537.82	104.90	434.44	131.21	345.74	411.64
53744	92.83	-7.26	-13.00	355.69	138.58	652.26	127.07	417.38	408.68	526.00	106.15	462.97	127.27	356.61	408.76
53745	94.81	-3.96	-13.00	403.58	141.30	660.89	146.11	422.84	395.02	542.10	100.02	391.91	146.15	359.43	395.06
53746	94.59	-5.08	-13.00	392.56	138.87	663.52	140.05	412.02	407.46	531.88	99.07	408.45	140.08	349.14	407.52
53747	94.31	-6.18	-13.00	379.25	139.50	671.07	132.42	412.00	410.16	519.52	103.19	434.78	132.38	349.73	410.27
53748	93.98	-7.26	-13.00	362.66	135.13	677.12	123.76	422.10	404.34	504.12	100.71	460.56	123.74	360.51	404.52
53749	96.02	-3.96	-13.00	408.66	148.68	700.06	154.03	427.22	401.92	516.12	110.46	396.40	154.22	364.72	401.95
53750	95.78	-5.08	-13.00	395.89	144.56	699.75	146.97	415.21	412.10	504.87	106.54	411.49	147.15	353.27	412.17
53751	95.49	-6.18	-13.00	381.03	141.03	703.79	137.47	414.89	410.80	491.83	104.53	435.91	137.34	353.60	410.90
53752	95.13	-7.26	-13.00	361.95	132.79	704.86	126.10	425.00	399.18	474.95	96.67	458.20	126.01	364.42	399.34
53753	97.23	-3.96	-13.00	387.45	154.50	735.74	156.19	419.24	415.21	465.07	122.15	398.78	156.62	361.59	415.23
53754	96.98	-5.08	-13.00	375.25	150.40	732.42	149.99	406.58	422.74	455.02	117.34	412.17	150.47	349.25	422.77
53755	96.66	-6.18	-13.00	361.71	144.45	733.77	140.37	406.65	416.36	444.09	111.22	435.08	140.38	349.67	416.40
53756	96.28	-7.26	-13.00	344.24	133.85	731.60	128.71	417.22	397.60	429.73	99.69	454.61	128.91	360.61	397.65
53757	79.06	-3.95	-14.33	136.56	113.49	369.39	59.61	381.35	370.84	826.91	200.32	386.32	7.20	344.82	370.86
53758	79.05	-5.05	-14.33	139.74	93.67	386.89	21.61	346.73	352.98	811.73	188.31	403.11	44.46	310.90	353.01
53759	79.04	-6.15	-14.33	144.04	93.81	408.83	1.48	349.85	352.24	793.54	186.47	424.23	77.95	314.87	352.28
53760	79.03	-7.25	-14.33	148.46	103.13	432.72	25.40	389.88	365.93	772.27	188.95	447.33	115.02	355.84	365.98
53761	80.27	-3.95	-14.33	147.31	112.28	373.84	61.45	381.16	371.08	790.54	186.64	387.43	21.22	347.79	371.10
53762	80.24	-5.05	-14.33	150.59	93.02	391.09	26.77	346.61	353.30	778.78	174.70	404.21	39.19	313.79	353.32
53763	80.21	-6.15	-14.33	155.14	94.33	412.73	17.34	349.97	352.76	764.93	174.12	425.32	69.88	317.82	352.78
53764	80.18	-7.25	-14.33	159.93	104.68	436.30	31.84	390.16	366.68	748.77	178.31	448.39	105.15	358.75	366.70
53765	81.48	-3.95	-14.33	167.45	111.43	382.60	67.41	381.02	371.50	761.27	172.43	388.57	38.67	350.65	371.50
53766	81.44	-5.06	-14.33	170.81	93.41	399.34	39.31	346.59	353.85	752.41	160.76	405.38	44.33	316.64	353.85
53767	81.39	-6.16	-14.33	175.61	96.58	420.38	34.89	350.31	353.60	742.22	161.91	426.49	69.20	320.85	353.61
53768	81.33	-7.25	-14.33	180.92	108.42	443.36	45.52	390.82	367.89	730.49	168.35	449.57	101.37	361.92	367.89
53769	82.69	-3.95	-14.33	193.82	111.07	395.38	76.50	380.99	372.10	738.40	157.71	389.76	55.98	353.37	372.10
53770	82.63	-5.06	-14.33	197.28	95.07	411.38	54.36	346.73	354.63	731.98	146.63	406.59	56.31	319.40	354.63
53771	82.56	-6.16	-14.33	202.42	100.80	431.59	52.58	350.86	354.76	724.97	150.20	427.74	75.24	323.89	354.76
53772	82.48	-7.25	-14.33	208.44	114.58	453.74	62.01	391.84	369.56	717.16	159.56	450.87	103.53	365.25	369.56
53773	83.90	-3.95	-14.33	223.98	111.41	411.82	87.64</								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
53803	91.96	-6.17	-14.33	464.75	219.06	613.42	164.11	361.50	378.69	685.43	182.90	440.16	165.48	339.90	378.68
53804	91.68	-7.26	-14.33	461.94	287.42	627.28	185.65	408.45	412.59	681.15	260.72	467.52	188.81	386.94	412.56
53805	93.60	-3.96	-14.33	524.62	165.28	629.09	175.88	392.63	382.41	709.20	100.89	402.05	175.84	369.69	382.41
53806	93.39	-5.08	-14.33	513.92	181.57	634.71	167.00	358.55	369.47	698.46	127.76	419.16	167.02	335.78	369.47
53807	93.14	-6.18	-14.33	501.36	225.88	642.91	167.43	365.21	379.40	685.79	187.20	441.29	167.62	342.62	379.40
53808	92.83	-7.26	-14.33	487.33	294.32	654.13	181.58	411.54	414.56	671.60	267.05	468.27	182.23	389.17	414.57
53809	94.81	-3.96	-14.33	577.62	182.95	663.63	189.29	398.93	383.97	722.99	119.18	404.14	189.89	375.18	383.97
53810	94.59	-5.08	-14.33	562.48	194.34	667.85	179.05	364.52	370.42	708.84	138.03	421.04	178.90	341.02	370.42
53811	94.31	-6.18	-14.33	544.03	229.43	674.04	175.52	371.24	378.95	691.54	186.69	442.65	174.65	348.02	378.96
53812	93.98	-7.26	-14.33	519.37	285.33	681.98	181.50	417.38	411.07	668.11	254.76	468.35	179.75	394.48	411.10
53813	96.02	-3.96	-14.33	640.60	206.05	701.35	209.65	410.74	387.86	747.00	145.20	407.56	210.69	387.25	387.86
53814	95.78	-5.08	-14.33	618.69	213.06	703.78	198.50	374.68	373.92	727.14	156.33	424.00	198.24	351.46	373.92
53815	95.49	-6.18	-14.33	594.80	237.86	707.95	192.55	380.97	380.49	705.69	191.29	445.07	190.92	358.06	380.50
53816	95.13	-7.26	-14.33	563.27	275.92	712.86	192.83	426.89	407.23	676.87	239.97	469.21	189.32	404.30	407.25
53817	97.23	-3.96	-14.33	717.34	235.70	743.48	248.60	435.27	416.51	787.10	180.05	412.84	249.95	413.85	416.51
53818	96.98	-5.08	-14.33	683.22	239.33	743.18	232.03	393.92	397.77	755.90	185.50	428.42	231.81	372.65	397.78
53819	96.66	-6.18	-14.33	654.70	256.46	745.21	222.76	398.81	400.28	730.94	209.41	449.00	220.88	377.71	400.28
53820	96.28	-7.26	-14.33	621.85	281.52	747.83	219.25	444.37	421.19	702.18	242.42	472.08	215.09	423.45	421.20
53821	59.67	-3.96	-11.67	329.30	105.37	718.54	63.09	349.41	374.88	1809.86	84.41	488.43	85.83	910.77	377.44
53822	59.92	-5.08	-11.67	317.66	101.42	712.57	69.47	348.46	374.69	1771.40	77.27	478.42	127.80	894.41	380.26
53823	60.24	-6.18	-11.67	300.47	93.91	706.17	75.64	348.96	366.40	1694.91	90.76	466.71	201.89	868.44	378.69
53824	60.62	-7.26	-11.67	276.17	87.20	695.77	81.51	349.92	352.13	1554.28	113.77	453.04	299.84	820.50	377.25
53825	60.88	-3.96	-11.67	322.36	102.46	702.03	79.44	381.30	372.22	1614.69	111.42	475.04	124.99	781.93	372.80
53826	61.12	-5.08	-11.67	310.79	98.72	697.39	81.71	378.66	375.00	1569.38	129.74	467.73	172.28	763.08	376.83
53827	61.41	-6.18	-11.67	294.74	91.94	692.86	83.42	376.95	370.67	1489.54	146.35	461.54	238.35	734.61	375.43
53828	61.77	-7.26	-11.67	273.96	86.33	685.06	84.97	375.39	359.99	1365.02	152.33	454.81	310.11	691.65	369.84
53829	62.09	-3.96	-11.67	317.87	100.04	669.23	88.96	397.07	371.27	1474.40	165.88	437.38	152.02	653.60	371.27
53830	62.31	-5.08	-11.67	306.72	97.22	667.61	89.17	393.78	376.57	1423.77	177.09	437.39	198.39	636.03	376.84
53831	62.59	-6.18	-11.67	292.10	91.56	667.19	88.89	391.04	375.28	1344.85	181.50	441.11	254.01	611.11	376.35
53832	62.92	-7.26	-11.67	274.34	86.82	664.85	88.61	388.13	367.14	1234.79	175.70	445.45	307.17	576.95	369.65
53833	63.30	-3.96	-11.67	309.83	97.97	632.63	94.76	403.59	371.48	1370.04	201.46	403.03	167.20	536.33	371.51
53834	63.51	-5.08	-11.67	299.61	96.29	634.27	94.42	400.23	378.41	1316.39	205.26	410.12	209.94	522.34	378.39
53835	63.76	-6.18	-11.67	286.74	91.75	638.46	93.79	397.25	378.85	1240.13	201.78	422.67	256.27	503.49	378.84
53836	64.07	-7.26	-11.67	271.78	87.57	642.18	93.24	394.06	371.84	1141.41	190.09	436.05	297.01	478.92	371.95
53837	64.51	-3.96	-11.67	297.66	96.02	596.57	98.60	406.29	371.67	1285.37	222.18	378.77	173.28	438.09	372.01
53838	64.70	-5.07	-11.67	288.68	95.17	601.13	98.54	403.19	379.14	1231.00	220.92	390.95	211.72	428.43	379.50
53839	64.94	-6.17	-11.67	277.80	91.35	609.37	98.35	400.59	379.81	1158.28	213.05	409.23	250.77	416.11	380.15
53840	65.22	-7.26	-11.67	265.66	87.29	618.00	98.03	398.16	372.43	1068.34	198.39	427.68	283.20	400.77	372.76
53841	65.72	-3.96	-11.67	282.25	93.68	561.72	100.57	407.64	370.91	1210.38	232.76	363.41	172.80	360.96	371.63
53842	65.90	-5.07	-11.67	274.75	93.05	568.64	100.96	405.02	377.89	1157.08	228.32	378.49	207.09	355.50	378.89
53843	66.11	-6.17	-11.67	266.08	89.39	579.79	101.19	403.20	377.54	1088.39	218.04	399.48	240.42	349.20	378.81
53844	66.37	-7.26	-11.67	256.95	85.11	591.33	100.86	401.95	368.77	1005.72	202.01	419.59	266.86	341.83	370.31
53845	66.94	-3.96	-11.67	264.59	90.62	528.10	102.24	408.50	368.99	1139.98	236.29	354.39	167.49	303.60	370.08
53846	67.09	-5.07	-11.67	258.72	89.69	536.72	100.83	406.42	374.82	1089.02	229.88	370.67	197.81	301.70	376.43
53847	67.29	-6.17	-11.67	252.32	85.89	549.60	101.03	405.30	372.84	1024.79	218.37	392.30	226.34	300.20	375.02
53848	67.52	-7.26	-11.67	246.07	81.35	562.32	100.25	404.76	362.40	948.72	202.00	412.18	247.99	298.65	365.18
53849	68.15	-3.96	-11.67	245.37	86.90	495.77	97.32	409.06	366.25	1072.25	234.85	349.57	158.44	263.17	367.58
53850	68.29	-5.07	-11.67	241.09	85.49	505.54	97.75	407.35	370.70	1024.51	227.31	366.01	184.91	263.89	372.73
53851	68.46	-6.17	-11.67	236.74	81.60	519.37	97.55	406.50	367.08	965.17	215.39	387.27	209.10	265.61	369.87
53852	68.67	-7.26	-11.67	232.76	77.07	532.40	96.16	405.84	355.31	895.66	199.36	406.32	226.61	267.54	358.86
53853	69.36	-3.96	-11.67	225.04	82.85	464.99	91.90	409.28	363.19	1006.96	230.00	347.47	146.52	236.51	364.62
53854	69.48	-5.07	-11.67	222.13	81.04	475.59	91.96	407.65	366.38	963.08	221.99	363.58	169.27	238.82	368.57
53855	69.64	-6.17	-11.67	219.32	77.35	490.04	91.26	406.61	361.43	909.07	210.29	384.13	189.52	242.27	364.45
53856	69.82	-7.26	-11.67	216.81	73.13	503.22	89.45	405.21	348.82	846.38	195.19	402.34	203.44	245.78	352.62
53857	70.57	-3.96	-11.67	203.97	78.80	436.21	84.31	409.13	360.23	944.64	222.90	347.09	132.56	220.66	361.64
53858	70.68	-5.06	-11.67	202.09	76.82	447.49	84.01	407.36	362.42	905.05	214.95	362.71	151.88	223.69	364.56
53859	70.81	-6.16	-11.67	200.29	73.62	462.51	82.98	405.82	356.52	856.68	203.99	382.52	168.66	227.75	359.46
53860	70.97	-7.26	-11.67	198.55	69.93	476.00	81.12	403.43	343.43	800.92	190.21	400.04	179.65	231.59	347.11
53861	71.78	-3.95	-11.67	182.61	74.99	409.94	75.03	408.66	357.67	886.02	214.41	347.78	117.35	213.11	358.96
53862	71.87	-5.06	-11.67	181.40	73.08	421.88	74.50	406.62	359.09	850.90	206.91	362.88	133.63	216.22	361.05
53863	71.99	-6.16	-11.67	180.18	70.55	437.52	73.38	404.49	352.54	808.22	197.01	382.03	147.52	220.17	355.22
53864	72.12	-7.26	-11.67	178.82	67.44	451.50	71.84	401.15	339.18	759.24	184.74	398.99	156.22	223.63	342.51
53865	73.00	-3.95	-11.67	161.56	71.57	386.74	64.46	407.98	355.63	831.66	205.05	349.06	101.54	211.80	356.75
53866	73.07	-5.06	-11.67	160.78	69.89	399.32	63.89	405.63	356.50	800.98	198.25	363.71	115.28	214.60	358.19
53867	73.16	-6.16	-11.67	159.87	68.06	415.64	62.93	402.95	349.49	763.80	189.57	382.29	126.81	218.01	351.80
53868	73.27	-7.25	-11.67	158.64	65.52	430.21	62.00	398.81	335.94	721.20	178.85	398.79	133.75	220.71	338.82
53869	74.21	-3.95	-11.67	141.74	68.60	367.18	52.94	407.19	354.18	781.94	195.15	350.65	85.67	215.07	355.10
53870	74.27	-5.06	-11.67	141.20	67.21	380.38	52.51	404.56	354.64	755.48	189.17	364.91	97.34	217.32	356.04
53871	74.34	-6.16													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
53901	64.51	-3.96	-13.00	391.33	138.47	595.83	126.76	413.99	381.58	1401.59	299.79	364.06	222.39	459.54	381.92
53902	64.70	-5.07	-13.00	382.51	139.45	602.32	126.82	404.41	396.67	1344.54	296.77	382.59	272.63	443.73	397.05
53903	64.94	-6.17	-13.00	372.63	144.97	615.97	126.16	405.48	403.15	1268.81	289.91	412.30	332.08	435.59	403.51
53904	65.22	-7.26	-13.00	362.54	143.67	631.02	130.02	417.37	400.69	1174.44	272.87	442.13	374.37	435.29	401.07
53905	65.72	-3.96	-13.00	366.68	132.29	561.72	125.80	410.50	379.88	1362.67	297.73	361.23	215.78	391.38	380.40
53906	65.90	-5.07	-13.00	359.85	133.38	570.10	127.31	401.49	394.29	1303.71	292.84	380.26	261.33	379.46	395.01
53907	66.11	-6.17	-13.00	353.22	137.92	586.21	130.56	403.48	398.90	1227.67	284.83	409.95	314.94	377.00	399.83
53908	66.37	-7.26	-13.00	348.13	134.54	603.27	134.16	416.56	392.46	1134.37	267.46	438.26	351.33	384.09	393.68
53909	66.94	-3.96	-13.00	340.21	125.39	529.33	122.95	408.20	377.42	1309.47	291.45	360.12	204.94	343.24	378.10
53910	67.09	-5.07	-13.00	335.47	125.51	539.18	125.14	399.73	390.32	1251.18	285.13	379.00	245.64	334.38	391.33
53911	67.29	-6.17	-13.00	331.94	127.63	556.80	128.79	402.36	392.09	1177.21	275.77	407.80	293.49	336.01	393.50
53912	67.52	-7.26	-13.00	330.78	121.84	574.16	131.80	415.51	381.15	1087.53	257.95	433.87	323.69	347.54	383.07
53913	68.15	-3.96	-13.00	312.64	117.91	498.57	117.57	406.59	374.44	1246.70	282.25	359.97	190.65	310.46	375.20
53914	68.29	-5.07	-13.00	309.77	116.71	509.54	119.62	398.42	385.61	1190.98	274.88	378.39	226.29	303.69	386.78
53915	68.46	-6.17	-13.00	308.63	116.45	528.12	122.43	401.07	384.64	1121.13	264.47	406.09	268.24	307.72	386.30
53916	68.67	-7.26	-13.00	309.67	109.55	545.22	123.78	413.12	370.14	1037.46	246.96	430.20	292.12	321.07	372.40
53917	69.36	-3.96	-13.00	284.32	110.37	469.59	109.67	405.27	371.35	1178.75	271.20	360.37	173.72	289.30	372.13
53918	69.48	-5.07	-13.00	282.87	108.16	481.50	111.11	397.10	380.97	1127.03	263.31	378.28	204.30	283.68	382.17
53919	69.64	-6.17	-13.00	283.17	106.30	500.87	112.64	399.25	377.88	1062.86	252.56	404.98	240.57	288.72	379.58
53920	69.82	-7.26	-13.00	284.92	99.79	517.88	112.59	409.59	361.05	986.92	236.32	427.67	258.74	302.19	363.32
53921	70.57	-3.96	-13.00	255.58	103.28	442.71	99.68	404.05	368.50	1109.33	259.20	361.12	155.05	276.82	369.24
53922	70.68	-5.06	-13.00	255.03	100.58	455.49	100.46	395.65	376.91	1062.52	251.33	378.55	180.88	271.64	378.04
53923	70.81	-6.16	-13.00	256.01	98.02	475.72	100.81	397.04	372.32	1004.98	240.97	404.45	212.13	276.78	373.91
53924	70.97	-7.26	-13.00	257.62	92.79	492.99	100.10	405.67	353.99	937.53	226.64	426.14	225.69	289.53	356.09
53925	71.78	-3.95	-13.00	226.88	96.94	418.35	88.12	402.87	366.09	1041.23	246.81	362.09	135.50	270.82	366.75
53926	71.87	-5.06	-13.00	226.84	94.24	431.98	88.40	394.15	373.60	999.79	239.43	379.10	157.17	265.60	374.60
53927	71.99	-6.16	-13.00	228.02	91.60	453.15	87.89	394.76	367.96	949.20	229.94	404.36	184.25	270.32	369.35
53928	72.12	-7.26	-13.00	229.16	88.01	470.93	87.16	401.91	348.60	890.24	217.76	425.32	194.23	282.04	350.43
53929	73.00	-3.95	-13.00	198.94	91.46	396.96	75.45	401.76	364.19	976.46	234.34	363.19	115.78	269.60	364.74
53930	73.07	-5.06	-13.00	199.13	89.08	411.42	75.48	392.70	371.03	940.44	227.72	379.84	133.95	264.04	371.88
53931	73.16	-6.16	-13.00	200.30	86.72	433.56	74.35	392.63	364.63	896.65	219.35	404.59	157.71	268.10	365.81
53932	73.27	-7.25	-13.00	200.93	84.79	451.95	74.08	398.61	344.50	845.75	209.28	424.99	164.93	278.71	346.03
53933	74.21	-3.95	-13.00	172.77	86.87	379.03	62.02	400.75	362.80	916.32	221.88	364.36	96.40	271.81	363.25
53934	74.27	-5.06	-13.00	173.04	84.94	394.25	62.02	391.40	369.15	885.49	216.15	380.72	111.74	265.79	369.84
53935	74.34	-6.16	-13.00	174.13	83.01	417.30	60.43	390.79	362.19	848.10	208.98	405.05	132.94	269.10	363.14
53936	74.42	-7.25	-13.00	174.29	82.56	436.30	61.01	395.88	341.46	804.61	200.87	425.02	137.99	278.60	342.70
53937	75.42	-3.95	-13.00	149.81	83.13	365.03	48.14	399.88	361.91	861.61	209.43	365.59	77.75	276.43	362.26
53938	75.46	-5.06	-13.00	150.11	81.66	380.89	48.33	390.31	367.91	835.57	204.61	381.71	90.91	269.89	368.44
53939	75.51	-6.16	-13.00	151.12	80.18	404.70	46.29	389.28	360.54	804.04	198.59	405.71	110.22	272.44	361.28
53940	75.57	-7.25	-13.00	150.86	80.91	424.23	48.14	393.73	339.35	767.25	192.24	425.37	113.52	280.93	340.32
53941	76.63	-3.95	-13.00	132.08	80.25	355.39	34.21	399.15	361.50	812.71	196.95	366.85	60.33	282.63	361.77
53942	76.66	-5.05	-13.00	132.40	79.14	371.69	34.86	389.44	367.26	791.01	192.96	382.78	71.88	275.58	367.67
53943	76.69	-6.15	-13.00	133.38	78.02	396.05	32.18	388.14	359.63	764.74	188.01	406.55	89.90	277.44	360.18
53944	76.72	-7.25	-13.00	132.83	79.56	415.97	36.02	392.17	338.11	733.96	183.18	426.01	91.75	285.04	338.84
53945	77.84	-3.95	-13.00	121.98	78.23	350.45	21.31	398.58	361.56	769.74	184.36	368.14	45.04	289.79	361.76
53946	77.85	-5.05	-13.00	122.36	77.32	366.97	22.88	388.80	367.19	751.89	181.11	383.93	55.42	282.28	367.48
53947	77.86	-6.15	-13.00	123.40	76.41	391.60	21.01	387.36	359.43	730.29	177.11	407.56	72.60	283.54	359.83
53948	77.87	-7.25	-13.00	122.76	78.34	411.74	19.20	391.18	337.75	704.84	173.57	426.95	73.21	290.42	338.27
53949	59.67	-3.96	-14.33	707.73	238.46	746.77	220.14	441.13	414.69	849.46	433.13	373.56	278.91	723.22	414.76
53950	59.92	-5.08	-14.33	675.75	248.74	746.19	209.63	399.55	395.00	889.42	455.50	392.21	379.20	669.95	395.01
53951	60.24	-6.18	-14.33	649.85	269.41	747.87	207.32	403.79	397.03	910.54	468.79	415.73	490.96	653.83	397.17
53952	60.62	-7.26	-14.33	620.05	294.82	750.08	210.98	448.42	418.24	911.57	461.02	441.97	614.49	665.79	419.43
53953	60.88	-3.96	-14.33	639.67	212.27	704.65	187.97	413.94	384.80	1216.28	419.84	374.75	266.29	602.16	384.91
53954	61.12	-5.08	-14.33	619.55	223.23	706.78	182.32	377.78	370.57	1213.33	437.04	393.21	375.21	556.34	370.60
53955	61.41	-6.18	-14.33	597.81	249.14	710.55	182.65	383.76	377.26	1191.82	446.59	416.61	487.12	546.38	377.30
53956	61.77	-7.26	-14.33	568.69	286.26	714.98	189.79	429.29	404.68	1151.56	443.47	443.68	605.77	568.56	405.11
53957	62.09	-3.96	-14.33	586.71	192.07	666.18	174.01	400.53	380.54	1437.88	402.85	375.02	261.22	513.73	380.63
53958	62.31	-5.08	-14.33	572.39	204.99	670.16	168.32	366.13	367.08	1405.29	414.19	393.60	369.57	472.35	367.11
53959	62.59	-6.18	-14.33	554.87	239.12	676.05	169.95	372.77	376.02	1353.09	423.54	417.31	474.94	468.05	376.02
53960	62.92	-7.26	-14.33	531.21	293.22	683.64	181.76	418.89	409.08	1282.61	432.96	445.75	586.35	499.11	409.18
53961	63.30	-3.96	-14.33	541.97	176.77	630.85	166.19	393.59	378.96	1550.25	385.06	375.38	254.18	451.99	379.04
53962	63.51	-5.08	-14.33	531.05	192.33	636.31	160.92	359.58	366.30	1498.88	392.43	394.06	358.07	413.42	366.35
53963	63.76	-6.18	-14.33	518.10	234.06	644.33	165.28	366.28	376.79	1427.09	404.21	418.07	455.53	413.26	376.81
53964	64.07	-7.26	-14.33	503.45	300.30	655.38	183.80	412.77	413.03	1335.33	426.38	447.25	559.74	450.61	413.03
53965	64.51	-3.96	-14.33	500.81	165.01	597.45	160.98	389.58	378.21	1586.24	367.65	375.91	243.57	409.25	378.30
53966	64.70	-5.07	-14.33	492.86	181.82	604.36	156.96	355.73	365.79	1524.04	372.47	394.59	341.24	372.78	365.89
53967	64.94	-6.17	-14.33	484.91	226.18	614.41	164.92	362.56	376.33	1441.14	385.87	418.63	431.04	375.73	376.43
53968	65.22	-7.26	-14.33	480.21	292.02	628.25	189.58	409.79	411.29	1336.28	412.06	447.46	528.33	417.82	411



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
53999	74.34	-6.16	-14.33	208.68	107.26	431.74	69.07	351.86	353.84	971.85	236.48	421.02	162.11	306.49	353.99
54000	74.42	-7.25	-14.33	213.51	118.32	453.95	76.93	392.97	368.97	922.59	235.78	444.52	203.99	349.29	369.15
54001	75.42	-3.95	-14.33	173.17	118.60	382.68	77.59	381.74	370.59	981.83	238.86	383.26	58.09	335.98	370.64
54002	75.46	-5.06	-14.33	175.85	100.33	399.42	55.24	347.32	353.03	952.95	227.24	400.32	99.55	302.71	353.11
54003	75.51	-6.16	-14.33	179.81	101.56	420.49	52.15	351.05	352.91	917.59	223.73	421.70	135.52	307.81	353.02
54004	75.57	-7.25	-14.33	184.25	111.26	443.50	60.07	391.66	367.39	876.55	223.41	445.02	175.48	349.96	367.53
54005	76.63	-3.95	-14.33	150.67	116.67	373.89	68.52	381.60	370.53	922.43	226.31	384.25	37.85	338.72	370.57
54006	76.66	-5.05	-14.33	153.54	97.33	391.14	40.63	347.05	352.80	898.71	214.48	401.19	77.47	305.18	352.86
54007	76.69	-6.15	-14.33	157.54	97.47	412.79	35.03	350.43	352.33	869.68	211.25	422.44	112.13	309.76	352.41
54008	76.72	-7.25	-14.33	161.78	106.42	436.37	44.21	390.69	366.32	835.98	211.56	445.65	150.87	351.38	366.42
54009	77.84	-3.95	-14.33	137.68	114.97	369.41	62.17	381.50	370.65	870.84	213.51	385.27	18.83	341.77	370.68
54010	77.85	-5.05	-14.33	140.72	95.13	386.91	27.98	346.88	352.81	851.70	201.55	402.10	58.43	307.99	352.85
54011	77.86	-6.15	-14.33	144.82	94.88	408.85	17.75	350.01	352.09	828.34	198.86	423.27	92.54	312.14	352.15
54012	77.87	-7.25	-14.33	149.05	103.71	432.74	31.00	390.07	365.79	801.22	200.07	446.41	130.51	353.35	365.86
54013	55.21	-3.96	-11.67	431.78	157.84	96.16	135.71	274.07	522.76	3103.19	1257.85	3494.83	167.95	2421.27	703.53
54014	55.43	-5.07	-11.67	424.07	154.34	111.22	131.07	277.58	516.44	3068.99	1378.18	3269.73	155.21	2380.48	713.39
54015	55.70	-6.17	-11.67	414.82	160.05	142.23	125.11	276.62	489.85	3094.62	1418.20	3227.14	127.37	2431.98	655.07
54016	56.03	-7.26	-11.67	404.16	180.64	188.45	119.68	270.28	432.89	3177.77	1340.63	3272.61	140.29	2552.39	635.98
54017	56.07	-3.96	-11.67	433.16	131.03	353.50	88.97	240.03	419.54	2890.10	803.59	1074.39	91.09	1749.01	482.21
54018	56.30	-5.07	-11.67	424.38	129.69	364.91	83.44	242.25	412.07	2852.99	873.79	994.29	83.92	1721.85	474.64
54019	56.58	-6.18	-11.67	411.97	134.26	380.37	78.55	241.08	385.15	2866.29	847.54	995.79	96.69	1761.95	433.11
54020	56.92	-7.26	-11.67	393.33	140.79	397.65	80.35	239.94	339.88	2879.78	675.39	1020.99	87.85	1815.37	425.56
54021	56.92	-3.96	-11.67	403.74	118.89	549.18	44.53	231.76	394.33	2563.10	543.38	393.63	42.87	1336.27	425.26
54022	57.16	-5.08	-11.67	394.14	118.09	552.03	44.97	234.29	387.48	2533.25	556.43	385.75	46.88	1322.67	421.39
54023	57.46	-6.18	-11.67	379.53	116.73	557.27	51.83	237.00	365.48	2527.84	478.97	409.51	50.68	1347.16	403.12
54024	57.81	-7.26	-11.67	353.26	110.07	561.74	70.21	240.55	334.04	2448.68	300.99	438.21	153.14	1347.79	418.99
54025	57.78	-3.96	-11.67	370.18	112.40	657.38	27.29	265.31	383.97	2274.20	341.23	352.51	23.61	1138.46	398.86
54026	58.03	-5.08	-11.67	359.56	110.45	655.31	39.22	267.05	378.98	2247.70	316.68	360.46	36.94	1130.00	398.82
54027	58.33	-6.18	-11.67	342.76	104.47	654.07	54.64	270.68	362.29	2210.43	229.07	367.36	82.08	1130.31	393.20
54028	58.70	-7.26	-11.67	313.85	95.68	649.90	73.11	275.28	339.16	2080.44	116.10	373.39	225.97	1104.85	407.62
54029	58.63	-3.96	-11.67	345.45	108.54	706.76	42.55	307.71	378.68	2036.34	188.36	449.04	46.61	1022.73	385.50
54030	58.89	-5.08	-11.67	333.98	105.26	701.84	53.65	308.59	375.84	2004.84	151.60	444.31	75.47	1011.48	387.29
54031	59.21	-6.18	-11.67	316.21	97.80	696.72	65.55	311.43	363.46	1941.45	92.02	436.00	146.35	996.72	385.37
54032	59.59	-7.26	-11.67	288.44	89.94	687.68	77.66	315.02	345.18	1793.87	72.32	425.34	272.58	952.88	391.47
54033	55.21	-3.96	-13.00	34.96	100.14	352.97	27.42	87.09	472.97	127.07	350.24	1190.77	120.17	164.85	591.74
54034	55.43	-5.07	-13.00	28.75	100.84	370.84	37.84	105.76	474.86	104.38	434.86	1119.52	165.78	208.83	647.39
54035	55.70	-6.17	-13.00	22.27	113.65	383.12	45.27	121.92	452.54	77.16	481.12	1086.84	226.63	251.19	681.36
54036	56.03	-7.26	-13.00	17.91	136.49	384.90	59.16	134.64	406.95	58.71	463.80	1066.46	286.79	274.75	687.52
54037	56.07	-3.96	-13.00	99.82	134.48	515.02	52.22	213.96	494.77	772.14	347.08	1126.41	112.76	1136.54	532.73
54038	56.30	-5.07	-13.00	101.83	133.42	522.90	63.10	208.98	492.00	789.83	379.95	1092.19	147.19	1131.15	542.50
54039	56.58	-6.18	-13.00	103.23	140.48	535.41	69.73	214.20	465.47	816.98	364.22	1087.74	204.38	1151.49	530.04
54040	56.92	-7.26	-13.00	104.06	149.05	549.80	81.27	229.70	417.89	830.36	298.02	1066.70	286.94	1164.94	524.72
54041	56.92	-3.96	-13.00	221.73	153.99	670.92	68.52	329.37	468.88	1156.75	198.46	502.54	98.47	1308.21	479.52
54042	57.16	-5.08	-13.00	216.20	155.57	671.01	77.76	315.63	466.82	1175.02	196.49	507.55	132.55	1289.71	481.54
54043	57.46	-6.18	-13.00	212.20	158.68	678.50	84.39	316.68	443.07	1189.98	161.47	529.63	201.73	1289.20	467.41
54044	57.81	-7.26	-13.00	209.90	155.05	686.99	93.62	330.63	402.94	1166.66	110.07	534.86	304.29	1264.80	463.49
54045	57.78	-3.96	-13.00	311.45	164.54	739.66	89.22	386.43	446.71	1300.60	101.44	331.42	116.75	1265.48	449.41
54046	58.03	-5.08	-13.00	302.43	164.83	736.87	96.32	372.75	446.46	1312.88	95.41	350.20	156.43	1240.66	451.51
54047	58.33	-6.18	-13.00	295.06	163.31	739.97	101.64	373.11	427.52	1308.92	101.73	380.95	237.62	1220.50	440.54
54048	58.70	-7.26	-13.00	287.32	153.14	740.68	105.88	384.01	395.03	1253.27	120.42	406.04	344.12	1169.87	434.60
54049	58.63	-3.96	-13.00	367.85	167.22	762.19	106.93	416.54	427.90	1356.33	126.02	377.91	143.34	1163.62	428.42
54050	58.89	-5.08	-13.00	357.87	165.32	757.44	111.56	403.35	430.10	1357.52	143.18	388.27	191.63	1132.49	432.04
54051	59.21	-6.18	-13.00	347.63	160.91	757.49	113.67	402.84	416.45	1334.25	170.51	408.17	279.69	1097.94	423.97
54052	59.59	-7.26	-13.00	333.92	148.94	753.93	112.96	411.80	390.72	1261.20	185.31	425.42	378.87	1037.76	414.35
54053	55.21	-3.96	-14.33	355.18	266.29	594.11	210.85	272.53	635.42	313.51	147.23	518.38	187.43	248.67	646.72
54054	55.43	-5.07	-14.33	305.75	202.03	617.21	162.24	237.47	578.29	247.63	128.11	503.45	181.11	225.10	605.30
54055	55.70	-6.17	-14.33	296.08	221.14	623.35	149.00	250.49	561.13	215.15	193.82	506.74	206.01	249.93	605.33
54056	56.03	-7.26	-14.33	326.02	314.74	614.89	164.72	298.26	578.06	218.72	263.89	522.30	282.02	310.88	632.96
54057	56.07	-3.96	-14.33	555.95	275.43	759.16	191.15	441.16	534.30	491.98	245.55	443.16	169.07	538.55	544.12
54058	56.30	-5.07	-14.33	498.43	270.42	760.82	159.58	376.32	498.41	400.38	217.45	454.79	234.02	483.76	514.21
54059	56.58	-6.18	-14.33	478.86	300.77	765.67	160.98	375.26	487.21	340.52	238.22	471.93	327.27	493.10	510.19
54060	56.92	-7.26	-14.33	505.43	338.88	773.97	192.98	429.16	493.91	319.00	268.73	484.91	442.70	556.48	523.06
54061	56.92	-3.96	-14.33	637.02	273.37	780.53	183.16	486.74	516.03	246.93	335.11	398.57	196.19	807.84	517.92
54062	57.16	-5.08	-14.33	596.25	280.48	781.61	167.48	425.78	480.78	171.49	339.09	415.70	291.60	748.10	484.16
54063	57.46	-6.18	-14.33	578.51	302.73	786.02	176.90	425.99	469.57	126.23	359.02	438.62	402.07	747.98	475.50
54064	57.81	-7.26	-14.33	583.21	311.23	791.86	196.10	476.53	476.18	122.61	357.03	459.76	520.84	788.25	488.31
54065	57.78	-3.96	-14.33	685.99	268.14	782.73	194.77	490.97	501.20	127.54	397.96	363.98	229.20	880.79	501.29
54066	58.03	-5.08	-14.33	652.14	273.81	783.03	185.48	436.11	465.92	207.59	413.86	384.41			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
54097	96.97	-8.10	-14.33	612.92	249.14	769.94	203.91	530.17	464.39	670.33	204.98	480.82	200.66	512.16	464.36
54098	100.36	-8.70	-14.33	415.14	344.99	602.86	275.59	351.17	552.97	419.49	340.63	385.50	277.69	348.48	552.24
54099	99.44	-8.70	-14.33	513.45	279.06	769.12	214.23	482.30	468.22	525.57	259.57	434.67	219.43	476.55	468.11
54100	98.52	-8.70	-14.33	543.30	262.52	782.48	204.61	513.73	464.47	567.15	230.89	456.98	211.51	503.49	464.39
54101	97.61	-8.70	-14.33	553.12	237.20	771.01	198.68	522.57	464.48	593.43	194.03	466.08	205.51	507.96	464.39
54102	96.69	-8.70	-14.33	561.96	209.03	755.21	195.24	519.10	454.12	623.02	154.66	473.13	200.46	501.01	454.08
54103	95.95	-8.10	-11.67	166.35	73.96	665.28	89.04	344.50	355.60	252.05	58.40	413.42	91.19	258.10	355.74
54104	94.82	-8.10	-11.67	199.53	74.53	661.22	92.71	370.52	364.51	308.31	54.23	430.68	93.49	279.57	364.91
54105	93.69	-8.10	-11.67	221.03	76.54	649.94	96.40	382.63	372.01	352.63	54.93	442.72	96.10	290.57	372.40
54106	92.56	-8.10	-11.67	231.72	78.51	635.68	100.52	388.11	376.31	385.96	57.73	450.92	99.40	296.93	376.52
54107	91.43	-8.10	-11.67	235.11	78.90	617.60	103.83	392.38	375.96	411.95	60.13	454.66	102.23	302.74	375.94
54108	90.30	-8.10	-11.67	234.14	76.80	594.22	104.27	396.41	371.08	433.78	61.79	453.73	102.51	307.94	370.88
54109	89.18	-8.10	-11.67	229.71	72.81	566.51	100.91	398.97	363.65	452.74	64.37	449.51	99.13	310.66	363.37
54110	88.05	-8.10	-11.67	221.49	68.27	537.09	94.28	399.23	355.78	468.79	69.32	443.92	92.39	309.71	355.49
54111	86.92	-8.10	-11.67	209.31	64.24	508.34	85.58	397.61	348.71	482.00	76.57	438.31	83.40	305.44	348.45
54112	85.79	-8.10	-11.67	193.80	61.16	481.74	75.89	395.06	342.78	493.07	85.21	433.26	73.24	298.85	342.59
54113	84.66	-8.10	-11.67	176.06	59.05	458.04	65.84	392.35	337.89	503.10	94.44	428.88	62.70	290.86	337.78
54114	83.53	-8.10	-11.67	157.32	57.74	437.65	55.81	389.94	333.88	513.08	103.75	425.11	52.58	282.07	333.88
54115	82.40	-8.10	-11.67	138.84	57.08	420.86	46.22	388.05	330.61	523.80	112.88	421.85	44.07	272.88	330.75
54116	81.27	-8.10	-11.67	122.05	56.92	407.96	37.64	386.76	328.00	535.87	121.68	419.02	39.20	263.59	328.32
54117	80.14	-8.10	-11.67	108.75	57.12	399.20	31.10	386.11	326.02	549.74	130.04	416.56	40.36	254.45	326.56
54118	79.01	-8.10	-11.67	101.05	57.60	394.79	28.16	386.09	324.64	565.79	137.93	414.41	48.02	245.73	325.47
54119	95.68	-8.70	-11.67	163.01	72.29	657.13	89.47	343.25	350.80	250.25	56.15	417.68	92.21	257.20	350.93
54120	94.56	-8.70	-11.67	194.88	72.87	654.78	92.89	366.97	360.10	304.56	52.46	436.06	93.89	276.57	360.52
54121	93.45	-8.70	-11.67	216.05	74.37	646.98	96.61	377.79	367.60	347.94	53.19	449.68	96.16	286.19	368.00
54122	92.34	-8.70	-11.67	227.12	75.59	636.44	100.79	383.66	371.63	381.39	55.98	459.19	99.23	292.84	371.82
54123	91.23	-8.70	-11.67	231.47	75.34	620.91	103.73	388.93	370.88	407.85	58.69	463.48	101.49	299.39	370.83
54124	90.12	-8.70	-11.67	231.99	73.04	598.46	103.59	393.92	365.95	430.61	61.28	462.27	100.98	305.40	365.72
54125	89.01	-8.70	-11.67	228.89	69.31	570.75	99.91	396.58	358.77	450.41	64.91	457.42	96.99	308.13	358.46
54126	87.90	-8.70	-11.67	221.30	65.23	541.20	93.34	396.15	351.28	466.53	70.49	451.25	89.91	306.45	350.98
54127	86.79	-8.70	-11.67	209.17	61.75	512.57	85.12	393.64	344.66	479.14	77.79	445.29	80.84	301.36	344.41
54128	85.67	-8.70	-11.67	193.47	59.15	486.32	76.18	390.25	339.13	489.27	86.06	440.05	70.71	294.12	338.95
54129	84.56	-8.70	-11.67	175.51	57.37	463.07	67.06	386.88	334.54	498.19	94.72	435.57	60.21	285.71	334.45
54130	83.45	-8.70	-11.67	156.59	56.29	443.15	58.11	383.96	330.74	506.96	103.40	431.73	50.01	276.73	330.76
54131	82.34	-8.70	-11.67	137.96	55.76	426.79	49.73	381.69	327.62	516.37	111.87	428.43	41.24	267.53	327.78
54132	81.23	-8.70	-11.67	121.04	55.65	414.25	42.48	380.13	325.11	526.96	120.00	425.56	36.04	258.38	325.45
54133	80.12	-8.70	-11.67	107.62	55.87	405.73	37.19	379.31	323.19	539.16	127.69	423.06	37.09	249.52	323.76
54134	79.01	-8.70	-11.67	99.80	56.31	401.42	34.83	379.20	321.85	553.29	134.89	420.86	44.97	241.20	322.72
54135	95.95	-8.10	-13.00	325.10	126.58	720.98	120.72	420.40	376.13	413.37	91.67	458.99	121.99	364.12	376.19
54136	94.82	-8.10	-13.00	342.95	126.86	697.66	117.93	428.95	384.03	457.90	90.74	466.25	118.36	368.98	384.27
54137	93.69	-8.10	-13.00	347.26	130.94	675.56	117.93	426.38	394.07	489.83	97.31	472.93	117.95	365.37	394.30
54138	92.56	-8.10	-13.00	345.95	135.44	656.55	125.46	422.21	400.13	516.59	103.80	478.32	125.30	361.85	400.19
54139	91.43	-8.10	-13.00	341.18	132.93	634.91	134.45	420.52	395.68	539.95	100.99	478.63	134.29	361.52	395.50
54140	90.30	-8.10	-13.00	333.38	121.84	608.20	137.16	419.72	382.75	560.23	89.74	473.93	137.11	361.98	382.42
54141	89.18	-8.10	-13.00	320.88	107.29	578.27	131.59	417.12	367.26	576.15	79.13	466.73	131.49	359.98	366.89
54142	88.05	-8.10	-13.00	302.69	94.45	548.28	120.68	412.26	353.55	587.10	76.69	459.50	120.05	354.73	353.21
54143	86.92	-8.10	-13.00	279.61	85.30	520.35	107.89	406.30	342.92	594.16	82.44	453.36	106.08	347.33	342.64
54144	85.79	-8.10	-13.00	253.38	79.64	495.33	95.05	400.48	334.88	599.29	92.67	448.40	91.42	339.03	334.66
54145	84.66	-8.10	-13.00	225.81	76.62	473.42	82.76	395.45	328.68	604.37	104.57	444.38	76.75	330.57	328.53
54146	83.53	-8.10	-13.00	198.34	75.43	454.77	71.27	391.40	323.84	610.70	116.82	441.06	62.48	322.23	323.76
54147	82.40	-8.10	-13.00	172.26	75.43	439.51	60.91	388.34	320.07	619.14	128.78	438.28	49.44	314.15	320.07
54148	81.27	-8.10	-13.00	149.12	76.14	427.82	52.25	386.21	317.20	630.25	140.16	435.94	39.69	306.44	317.31
54149	80.14	-8.10	-13.00	131.06	77.21	419.90	46.15	384.99	315.13	644.42	150.85	433.97	37.22	299.22	315.36
54150	79.01	-8.10	-13.00	120.85	78.41	415.88	43.61	384.64	313.79	661.93	160.81	432.31	44.66	292.66	314.19
54151	95.68	-8.70	-13.00	308.61	129.35	706.04	116.05	419.04	372.83	399.09	95.64	455.01	117.64	363.00	372.89
54152	94.56	-8.70	-13.00	327.55	131.95	685.69	113.56	428.29	383.16	444.01	98.20	465.21	114.16	368.76	383.42
54153	93.45	-8.70	-13.00	336.31	136.64	669.20	115.63	425.52	394.78	479.68	105.63	475.63	115.64	364.91	395.03
54154	92.34	-8.70	-13.00	339.48	140.51	655.82	125.65	422.22	400.90	510.56	111.54	483.45	125.31	362.21	400.92
54155	91.23	-8.70	-13.00	340.46	137.07	636.69	136.12	422.29	394.40	538.97	108.34	483.52	135.75	363.45	394.15
54156	90.12	-8.70	-13.00	336.85	124.28	609.14	138.08	421.53	378.97	562.72	96.52	476.73	137.78	363.82	378.56
54157	89.01	-8.70	-13.00	325.59	108.84	577.37	131.20	417.24	362.25	579.29	86.20	467.39	130.72	360.03	361.82
54158	87.90	-8.70	-13.00	307.04	95.61	546.13	119.71	410.07	348.59	589.24	83.35	458.87	118.48	352.40	348.21
54159	86.79	-8.70	-13.00	282.81	85.79	517.70	107.01	402.08	338.59	594.46	87.29	452.16	104.36	343.00	338.29
54160	85.67	-8.70	-13.00	255.50	79.01	492.62	94.57	394.76	331.18	597.67	95.16	446.97	89.92	333.32	330.96
54161	84.56	-8.70	-13.00	227.12	74.52	470.85	82.70	388.68	325.48	600.94	104.84	442.86	75.60	323.96	325.33
54162	83.45	-8.70	-13.00	199.08	71.75	452.40	71.56	383.87	321.02	605.53	115.21	439.51	61.82	315.08	320.95
54163	82.34	-8.70	-13.00	172.60	70.27	437.35	61.51	380.25	317.54	612.18	125.65	436.72	49.52	306.70	317.55
54164	81.23	-8.70	-13.00	149.15	69.74	425.86	53.09	377.73	314.87	621.37	135.79	434.38	40.96	298.88	314.99
54165	80.12	-8.70	-13.00	130.83	69.87	418.06	47.13	376.25	312.92	633.37	145.44				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
54195	82.34	-8.70	-14.33	204.13	164.40	456.50	145.16	423.72	365.91	702.55	198.88	454.78	87.15	397.71	365.90
54196	81.23	-8.70	-14.33	172.59	172.34	446.47	144.14	420.70	363.07	709.45	214.60	453.21	72.33	392.63	363.08
54197	80.12	-8.70	-14.33	147.79	178.27	439.68	143.68	418.78	361.10	720.74	227.83	451.86	56.77	388.48	361.13
54198	79.01	-8.70	-14.33	133.47	182.33	436.22	143.70	417.97	359.84	736.37	238.84	450.67	41.30	385.33	359.90
54199	77.89	-8.10	-11.67	100.62	58.26	394.89	29.91	386.64	323.91	584.27	145.31	412.58	60.58	327.67	325.10
54200	76.76	-8.10	-11.67	107.67	59.09	399.55	35.59	387.73	323.88	605.36	152.14	411.09	76.38	230.66	325.49
54201	75.63	-8.10	-11.67	120.78	60.05	408.63	43.49	389.35	324.59	629.18	158.38	409.98	94.52	225.21	326.68
54202	74.50	-8.10	-11.67	137.94	61.19	421.92	52.37	391.50	326.05	655.83	164.04	409.26	114.55	221.95	328.66
54203	73.37	-8.10	-11.67	157.33	62.57	439.11	61.53	394.14	328.29	685.42	169.12	409.01	136.26	221.66	331.44
54204	72.24	-8.10	-11.67	177.45	64.31	459.90	70.58	397.17	331.38	718.05	173.66	409.37	159.47	225.20	335.02
54205	71.11	-8.10	-11.67	197.05	66.58	483.97	79.26	400.34	335.42	753.88	177.71	410.61	183.96	233.53	339.45
54206	69.98	-8.10	-11.67	214.91	69.55	510.94	87.26	403.13	340.60	793.17	181.28	413.14	209.26	247.61	344.78
54207	68.85	-8.10	-11.67	229.93	73.30	540.11	94.02	404.72	347.00	836.21	184.25	417.49	234.54	268.29	350.95
54208	67.72	-8.10	-11.67	241.51	77.58	570.11	98.57	404.10	354.32	883.14	186.10	423.91	258.58	296.67	357.44
54209	66.60	-8.10	-11.67	249.90	81.61	598.68	99.83	400.84	361.31	933.80	185.70	431.78	280.54	334.86	363.05
54210	65.47	-8.10	-11.67	255.81	84.26	623.39	97.57	395.84	365.85	988.89	182.45	439.37	300.96	386.34	366.18
54211	64.34	-8.10	-11.67	259.27	84.98	643.46	93.06	390.66	365.89	1052.06	175.56	444.89	320.44	455.42	366.14
54212	63.21	-8.10	-11.67	259.12	84.51	660.62	88.71	384.76	361.22	1131.04	163.48	448.24	339.41	543.68	364.93
54213	62.08	-8.10	-11.67	255.27	83.84	675.72	86.19	373.29	353.30	1239.87	145.27	449.55	357.56	647.43	367.53
54214	60.95	-8.10	-11.67	252.71	83.90	683.83	85.57	349.97	344.08	1397.88	118.14	442.51	373.04	764.54	381.31
54215	77.89	-8.70	-11.67	99.29	56.91	401.49	36.02	379.75	321.14	569.65	141.56	418.99	57.80	233.60	322.37
54216	76.78	-8.70	-11.67	106.27	57.63	405.99	40.37	380.91	321.13	588.26	147.63	417.48	73.79	227.10	322.80
54217	75.67	-8.70	-11.67	119.34	58.46	414.81	46.87	382.66	321.84	609.25	153.05	416.36	92.08	222.20	323.99
54218	74.56	-8.70	-11.67	136.46	59.43	427.73	54.51	385.04	323.28	632.70	157.80	415.64	112.23	219.50	325.95
54219	73.45	-8.70	-11.67	155.81	60.60	444.48	62.60	388.03	325.45	658.70	161.90	415.39	134.06	219.72	328.66
54220	72.34	-8.70	-11.67	175.91	62.07	464.79	70.73	391.55	328.41	687.30	165.34	415.72	154.46	223.70	332.11
54221	71.23	-8.70	-11.67	195.48	63.99	488.38	78.61	395.37	332.23	718.70	168.17	416.89	182.27	232.32	336.31
54222	70.11	-8.70	-11.67	213.24	66.54	514.95	85.99	399.02	337.07	753.19	170.42	419.29	208.14	246.41	341.32
54223	69.00	-8.70	-11.67	227.88	69.85	543.94	92.41	401.57	343.08	791.22	172.04	423.50	234.38	266.58	347.12
54224	67.89	-8.70	-11.67	238.48	73.78	573.98	97.04	401.72	350.06	833.01	172.86	429.88	259.94	293.22	353.30
54225	66.78	-8.70	-11.67	245.08	77.71	602.42	98.80	398.45	356.85	878.61	171.64	437.79	283.65	327.86	358.67
54226	65.67	-8.70	-11.67	248.82	80.70	625.99	97.29	392.52	361.53	927.72	167.86	445.16	306.23	373.72	361.89
54227	64.56	-8.70	-11.67	250.17	82.11	643.19	93.44	386.28	362.09	981.82	161.93	449.43	329.13	434.67	362.39
54228	63.45	-8.70	-11.67	247.88	82.45	656.13	89.36	379.84	357.87	1048.45	150.37	449.64	352.11	515.08	362.08
54229	62.34	-8.70	-11.67	241.12	82.38	667.16	87.36	369.33	350.16	1136.94	132.97	446.39	377.46	608.59	366.22
54230	61.22	-8.70	-11.67	233.68	82.53	673.09	88.02	347.51	340.72	1260.88	107.96	436.30	406.37	711.87	383.68
54231	77.89	-8.10	-13.00	120.79	79.55	415.93	45.23	385.11	313.30	682.99	170.03	430.97	59.73	286.88	313.90
54232	76.76	-8.10	-13.00	131.01	80.55	420.09	50.62	386.33	313.75	707.66	178.51	430.03	79.40	282.14	314.60
54233	75.63	-8.10	-13.00	149.42	81.45	428.25	58.65	388.33	315.16	735.93	186.27	429.47	102.23	278.84	316.31
54234	74.50	-8.10	-13.00	173.34	82.38	440.21	68.20	391.15	317.52	767.65	193.40	429.30	127.72	277.49	318.98
54235	73.37	-8.10	-13.00	200.57	83.62	455.75	78.61	394.84	320.85	802.51	200.08	429.52	155.77	278.70	322.65
54236	72.24	-8.10	-13.00	229.48	85.57	474.65	89.51	399.41	325.29	840.08	206.57	430.20	186.43	283.24	327.44
54237	71.11	-8.10	-13.00	258.73	88.78	496.77	100.74	404.84	331.12	879.85	213.22	431.51	219.70	292.00	333.58
54238	69.98	-8.10	-13.00	286.84	94.06	522.00	112.16	410.89	338.80	921.38	220.53	433.73	255.35	305.91	341.50
54239	68.85	-8.10	-13.00	311.94	102.30	550.17	123.30	416.91	349.08	964.32	229.00	437.37	292.47	325.68	351.82
54240	67.72	-8.10	-13.00	332.13	114.01	580.51	132.40	421.63	362.53	1008.05	238.58	442.93	328.84	351.85	364.91
54241	66.60	-8.10	-13.00	346.39	127.82	610.95	136.07	423.82	377.89	1050.84	247.56	450.08	361.44	385.68	379.43
54242	65.47	-8.10	-13.00	355.67	139.00	638.37	131.50	424.02	390.78	1089.40	252.96	456.75	388.85	430.57	391.22
54243	64.34	-8.10	-13.00	361.78	142.60	660.94	120.99	425.28	395.07	1119.87	251.92	459.66	412.35	493.45	395.11
54244	63.21	-8.10	-13.00	364.42	139.80	681.21	112.35	429.71	388.50	1139.91	244.74	457.02	433.33	580.46	390.31
54245	62.08	-8.10	-13.00	361.19	137.21	704.91	110.90	433.71	377.77	1150.39	233.93	451.70	448.69	691.68	385.33
54246	60.95	-8.10	-13.00	344.83	137.20	729.45	111.84	428.34	369.41	1159.55	214.25	444.12	451.72	822.54	390.47
54247	77.89	-8.70	-13.00	120.24	71.39	414.05	46.00	376.27	311.03	666.72	163.08	429.19	63.25	279.92	311.65
54248	76.78	-8.70	-13.00	130.43	72.57	418.10	51.16	377.60	311.37	688.19	170.99	428.11	82.78	275.59	312.24
54249	75.67	-8.70	-13.00	148.92	74.00	426.13	58.94	379.82	312.64	712.79	178.23	427.44	105.44	272.80	313.80
54250	74.56	-8.70	-13.00	172.99	75.79	437.90	68.21	383.02	314.81	740.38	184.86	427.14	130.76	272.05	316.29
54251	73.45	-8.70	-13.00	200.45	78.14	453.23	78.30	387.27	317.89	770.62	190.99	427.23	158.64	273.94	319.72
54252	72.34	-8.70	-13.00	229.73	81.34	471.94	88.84	392.62	322.00	803.05	196.82	427.79	189.14	279.21	324.18
54253	71.23	-8.70	-13.00	259.53	85.82	493.93	99.66	399.13	327.38	837.11	202.64	428.97	222.35	288.76	329.88
54254	70.11	-8.70	-13.00	288.46	92.18	519.22	110.72	406.73	334.49	872.38	208.91	431.10	252.22	303.57	337.24
54255	69.00	-8.70	-13.00	314.46	101.25	547.86	121.80	414.87	344.18	908.82	216.21	434.78	296.17	324.30	347.03
54256	67.89	-8.70	-13.00	334.84	113.62	579.43	131.56	422.00	357.60	946.57	224.91	441.00	334.26	350.84	360.16
54257	66.78	-8.70	-13.00	347.76	128.58	611.70	136.68	426.03	374.24	984.94	233.63	449.95	369.26	383.51	375.93
54258	65.67	-8.70	-13.00	352.82	141.74	639.92	133.05	426.21	389.79	1022.26	239.32	459.25	398.75	424.21	390.29
54259	64.56	-8.70	-13.00	353.23	146.59	659.82	121.33	425.55	396.39	1052.66	238.71	464.04	423.80	478.28	396.43
54260	63.45	-8.70	-13.00	351.58	144.82	674.09	110.65	428.84	390.02	1071.84	230.73	460.35	447.90	556.35	392.23
54261	62.34	-8.70	-13.00	344.28	142.27	691.82	107.84	432.58	377.92	1080.24	218.58	451.12	469.37	654.23	387.01
54262	61.22	-8.70	-13.00	326.78	141.16	713.36	109.13	425.58	367.30	1080.79	198.60	439.98	481.77	764.86	392.91
54263	77.89	-8.10	-14.33	144.96	88										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
54293	62.34	-8.70	-14.33	484.25	200.10	701.72	132.26	508.96	445.55	1090.62	324.70	458.84	578.90	605.78	446.91
54294	61.22	-8.70	-14.33	530.24	199.01	731.76	159.27	511.12	438.17	900.60	328.00	451.60	576.41	666.56	441.92
54295	56.31	-8.10	-11.67	399.64	212.28	222.72	123.05	266.11	373.14	3251.03	1230.11	3169.17	331.59	2579.99	729.04
54296	56.54	-8.70	-11.67	346.12	225.26	249.46	160.69	246.92	327.72	2665.56	1076.84	2577.35	896.19	2110.75	981.56
54297	57.22	-8.10	-11.67	363.80	135.26	411.83	99.81	239.00	308.87	2705.06	430.33	956.35	361.72	1731.14	541.03
54298	57.46	-8.70	-11.67	314.04	122.67	422.32	120.43	229.56	301.71	2279.87	340.85	849.08	616.51	1492.12	661.56
54299	58.12	-8.10	-11.67	317.44	100.01	563.22	91.29	241.95	318.14	2230.01	164.35	445.22	383.59	1269.86	493.43
54300	58.38	-8.70	-11.67	274.48	95.10	562.94	104.68	237.16	313.78	1914.14	140.17	433.32	530.16	1131.16	556.26
54301	59.03	-8.10	-11.67	279.69	88.78	643.14	87.69	277.79	327.50	1868.60	72.36	377.91	386.55	1034.11	447.20
54302	59.29	-8.70	-11.67	245.56	85.97	636.09	95.95	275.99	323.18	1631.29	68.82	380.84	476.34	941.41	475.37
54303	59.93	-8.10	-11.67	259.19	85.19	676.66	86.28	317.06	335.56	1605.11	85.23	417.56	383.40	888.04	408.59
54304	60.21	-8.70	-11.67	233.34	83.40	666.44	91.13	315.87	331.68	1423.30	80.44	413.50	439.31	818.60	419.43
54305	56.31	-8.10	-13.00	23.79	156.47	379.52	73.47	142.95	352.86	47.98	435.82	1016.09	327.36	265.42	662.10
54306	56.54	-8.70	-13.00	17.88	156.22	379.04	62.10	153.92	339.34	51.45	417.95	959.98	306.43	310.03	619.05
54307	57.22	-8.10	-13.00	105.21	152.36	560.47	92.28	238.86	373.63	816.82	239.15	982.87	365.93	1121.83	553.95
54308	57.46	-8.70	-13.00	105.99	147.38	567.63	94.10	242.23	364.10	758.85	215.59	836.73	438.75	1013.55	608.55
54309	58.12	-8.10	-13.00	206.79	147.46	686.76	101.36	333.99	366.54	1095.19	89.55	504.94	398.32	1180.22	490.81
54310	58.38	-8.70	-13.00	200.74	143.49	680.99	102.96	329.26	359.70	992.89	88.59	466.24	465.79	1062.01	526.70
54311	59.03	-8.10	-13.00	277.00	143.84	732.46	108.73	383.71	364.30	1160.45	128.35	411.24	425.13	1079.54	443.13
54312	59.29	-8.70	-13.00	264.46	143.00	720.13	108.56	377.80	359.27	1057.60	121.67	407.95	480.37	980.17	461.85
54313	59.93	-8.10	-13.00	317.08	140.09	741.99	111.63	411.40	364.73	1167.03	180.07	428.23	443.09	955.37	409.31
54314	60.21	-8.70	-13.00	301.10	142.01	726.35	110.10	407.18	360.96	1075.68	167.48	424.33	486.02	876.03	416.82
54315	56.31	-8.10	-14.33	407.68	356.54	607.79	189.95	371.17	590.42	270.01	218.75	523.87	298.30	402.38	638.51
54316	56.54	-8.70	-14.33	411.65	325.96	607.22	252.97	350.13	558.59	260.08	129.56	502.06	207.32	394.56	596.27
54317	57.22	-8.10	-14.33	533.03	288.41	774.96	173.05	505.65	493.49	297.59	200.50	477.97	438.31	641.05	527.33
54318	57.46	-8.70	-14.33	513.74	262.97	765.44	190.98	482.46	470.84	228.61	166.44	460.67	305.30	626.88	512.62
54319	58.12	-8.10	-14.33	575.72	264.66	789.47	168.33	542.91	482.17	123.96	297.20	462.14	529.34	834.80	503.29
54320	58.38	-8.70	-14.33	541.11	252.68	778.20	183.01	517.74	464.83	131.01	255.80	447.15	420.10	782.50	493.33
54321	59.03	-8.10	-14.33	591.64	257.53	783.88	176.80	547.49	477.56	391.45	366.63	446.49	594.12	853.21	489.27
54322	59.29	-8.70	-14.33	549.76	234.14	770.58	179.98	527.38	463.36	423.63	310.50	438.96	498.72	793.22	479.66
54323	59.93	-8.10	-14.33	609.53	262.31	771.22	193.02	535.00	462.15	651.58	398.43	450.15	636.50	788.88	468.29
54324	60.21	-8.70	-14.33	559.24	213.09	756.52	179.44	523.18	452.50	670.65	326.53	444.46	551.46	739.49	461.07
54325	96.21	-9.62	-11.67	122.78	70.65	635.99	86.55	304.57	336.81	192.09	60.21	402.58	91.95	226.35	336.27
54326	95.51	-10.82	-11.67	122.54	65.12	623.91	87.73	297.81	333.91	196.46	53.25	418.21	94.13	218.97	333.32
54327	94.72	-11.98	-11.67	125.23	56.78	620.04	85.18	286.44	328.94	204.81	44.35	438.86	91.96	206.68	328.36
54328	93.85	-13.08	-11.67	128.87	46.62	623.22	79.14	274.81	324.26	214.93	35.97	461.63	85.45	194.14	323.66
54329	92.91	-14.11	-11.67	130.84	39.20	631.66	73.12	267.25	319.00	223.74	33.30	488.16	78.19	185.82	318.21
54330	91.89	-15.08	-11.67	129.87	34.21	642.56	68.81	265.47	309.07	229.88	33.22	518.86	72.22	183.34	307.98
54331	90.82	-15.98	-11.67	126.33	28.73	652.98	64.90	267.47	294.17	233.69	32.36	550.54	66.64	184.21	292.74
54332	89.68	-16.80	-11.67	120.85	23.51	661.55	59.71	270.96	277.02	236.13	32.25	580.23	60.06	185.85	275.33
54333	88.49	-17.54	-11.67	113.91	21.55	668.16	53.00	274.65	260.34	237.60	34.90	606.56	52.40	187.09	258.51
54334	87.25	-18.19	-11.67	105.76	23.59	673.24	45.56	278.09	245.19	238.29	39.38	629.33	45.04	187.66	243.36
54335	85.97	-18.76	-11.67	96.64	27.59	677.17	38.30	281.16	231.89	238.38	44.03	648.66	39.89	187.60	230.20
54336	84.65	-19.23	-11.67	86.89	31.69	680.20	31.83	283.78	220.47	238.04	47.81	664.63	38.72	187.00	219.06
54337	83.31	-19.62	-11.67	76.91	35.07	682.46	26.55	285.93	210.99	237.36	50.29	677.25	42.09	186.02	209.96
54338	81.94	-19.90	-11.67	67.36	37.52	683.97	22.73	287.75	203.49	236.45	51.41	686.47	49.23	185.01	202.88
54339	80.55	-20.10	-11.67	59.47	39.15	684.61	20.70	289.45	198.05	235.64	51.56	692.10	59.01	184.40	197.81
54340	79.15	-20.20	-11.67	54.83	40.02	684.62	20.42	290.83	194.91	235.46	51.03	694.21	70.29	184.21	194.89
54341	97.13	-9.66	-11.67	85.23	72.13	609.46	81.32	256.26	326.55	135.28	68.51	374.21	88.89	191.45	325.01
54342	96.40	-10.95	-11.67	88.09	66.10	600.59	83.10	258.68	321.46	142.43	61.02	392.53	92.20	188.46	319.76
54343	95.59	-12.19	-11.67	92.44	58.06	598.80	80.45	250.85	312.29	152.24	51.99	416.57	90.49	180.73	310.57
54344	94.69	-13.37	-11.67	98.03	48.41	602.29	74.08	244.35	302.99	164.48	42.77	441.16	84.32	172.29	301.20
54345	93.71	-14.48	-11.67	102.39	42.25	609.92	66.88	240.60	294.54	176.02	39.26	467.25	76.31	166.98	292.39
54346	92.65	-15.53	-11.67	103.48	38.91	620.02	61.22	241.82	282.97	184.35	39.09	496.35	68.92	166.77	280.18
54347	91.52	-16.49	-11.67	101.57	34.25	630.16	57.14	247.17	267.08	189.77	37.29	526.69	62.74	170.14	263.59
54348	90.33	-17.37	-11.67	97.90	27.52	638.84	52.96	254.18	248.69	193.67	33.91	555.74	56.49	174.25	244.64
54349	89.07	-18.17	-11.67	93.35	20.61	645.74	47.64	261.17	230.05	196.97	31.41	581.98	49.31	172.57	225.71
54350	87.77	-18.87	-11.67	88.18	15.66	651.12	41.42	267.45	212.47	199.94	30.99	604.96	41.66	179.57	208.14
54351	86.41	-19.48	-11.67	82.48	13.87	655.31	34.97	272.84	196.45	202.61	31.98	624.64	34.88	180.52	192.47
54352	85.02	-19.99	-11.67	76.37	14.65	658.59	28.84	277.24	182.28	205.02	33.21	641.04	30.78	180.54	178.94
54353	83.59	-20.41	-11.67	70.07	16.35	661.14	23.35	280.62	170.21	207.13	33.83	654.22	31.00	179.91	167.77
54354	82.14	-20.72	-11.67	63.87	18.04	663.09	18.80	283.19	160.61	208.79	33.53	664.23	35.87	179.13	159.18
54355	80.67	-20.93	-11.67	58.62	19.82	664.24	15.91	285.46	154.03	210.19	32.79	670.80	44.49	179.00	153.47
54356	79.19	-21.03	-11.67	55.49	21.60	664.32	15.56	287.51	150.73	211.99	32.08	673.44	55.44	179.74	150.69
54357	98.05	-9.70	-11.67	51.39	75.97	551.50	72.99	201.42	314.53	80.72	79.00	342.66	82.16	152.90	311.68
54358	97.30	-11.08	-11.67	58.49	70.10	550.93	75.91	207.10	306.89	91.88	71.60	361.40	87.05	156.16	303.48
54359	96.46	-12.41	-11.67	64.24	62.86	554.51	73.88	208.20	292.52	102.98	62.92	386.62	86.53	154.25	288.65
54360	95.53	-13.67	-11.67	69.91	53.83	560.05	68.16	208.74	277.50	115.58	52.94	411.03	81.78	151.64	273.14
54361	94.51	-14.85	-11.67	74.68	48.65	567.22	61.12	211.19							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
54391	98.21	-12.83	-11.67	38.90	77.58	381.47	55.69	158.47	251.21	46.63	86.32	400.79	64.89	149.37	243.47
54392	97.21	-14.25	-11.67	42.61	64.65	394.23	52.90	166.72	227.54	53.92	72.87	395.67	63.91	152.68	215.88
54393	96.11	-15.59	-11.67	45.27	53.58	402.47	48.74	176.68	208.75	60.80	60.30	393.14	61.06	157.51	193.63
54394	94.92	-16.85	-11.67	48.12	46.84	409.50	45.85	188.73	192.85	67.04	51.28	392.22	57.86	163.80	174.22
54395	93.63	-18.02	-11.67	53.21	42.68	416.26	45.44	201.61	177.10	74.01	45.17	393.71	55.89	169.34	154.69
54396	92.26	-19.09	-11.67	61.36	38.46	422.59	46.23	213.63	160.20	83.11	39.80	397.81	55.00	172.03	134.10
54397	90.82	-20.05	-11.67	71.21	33.13	428.19	46.14	223.82	142.16	94.29	33.87	403.90	53.75	171.13	113.05
54398	89.31	-20.91	-11.67	80.92	27.03	432.91	44.13	232.06	123.44	106.47	27.41	411.15	51.03	167.06	92.58
54399	87.74	-21.65	-11.67	89.38	20.84	436.79	40.15	238.59	104.44	118.76	20.97	418.93	46.51	160.76	73.46
54400	86.12	-22.28	-11.67	96.13	15.12	440.07	34.53	243.60	85.34	130.74	15.07	426.96	40.24	153.29	56.18
54401	84.46	-22.78	-11.67	101.01	10.17	442.99	27.63	247.12	66.21	142.31	10.09	435.18	32.39	145.69	40.89
54402	82.77	-23.17	-11.67	103.89	6.56	447.22	19.91	248.75	46.72	153.24	6.70	444.99	23.25	139.14	27.22
54403	81.05	-23.42	-11.67	107.64	2.60	456.38	11.37	250.05	28.00	163.44	3.72	460.06	12.25	135.27	16.35
54404	79.32	-23.55	-11.67	111.96	4.13	466.50	3.80	251.38	10.30	174.73	4.92	475.77	4.89	133.65	7.08
54405	96.21	-9.62	-13.00	256.30	127.09	699.95	118.89	387.94	375.29	328.06	97.04	445.21	123.48	337.64	374.97
54406	95.51	-10.82	-13.00	228.58	120.94	685.34	115.50	369.29	374.58	306.49	89.21	465.31	121.19	318.43	374.32
54407	94.72	-11.98	-13.00	218.74	108.56	679.39	107.26	351.71	367.28	303.72	75.87	488.86	113.27	300.04	367.18
54408	93.85	-13.08	-13.00	227.61	89.08	681.27	99.28	330.95	368.89	320.36	56.42	511.24	104.84	278.41	368.90
54409	92.91	-14.11	-13.00	238.49	74.63	692.80	94.73	310.86	365.91	339.53	43.08	541.27	98.63	257.40	365.80
54410	91.89	-15.08	-13.00	241.06	70.18	707.40	94.76	299.05	351.33	351.19	41.91	576.99	96.75	244.73	350.99
54411	90.82	-15.98	-13.00	234.92	76.19	720.08	93.54	294.10	330.74	354.95	55.92	612.39	94.16	238.73	330.19
54412	89.68	-16.80	-13.00	223.15	90.45	729.27	88.17	292.48	310.48	354.10	78.12	643.85	88.16	235.71	309.79
54413	88.49	-17.54	-13.00	208.13	107.12	735.62	80.19	292.03	293.51	350.78	100.44	670.80	80.53	233.58	292.77
54414	87.25	-18.19	-13.00	190.93	122.89	740.24	72.05	292.11	279.60	345.93	119.93	693.81	74.38	231.79	278.88
54415	85.97	-18.76	-13.00	172.31	136.60	743.69	65.18	292.51	268.15	340.15	136.11	713.24	71.83	230.18	267.51
54416	84.65	-19.23	-13.00	153.04	147.77	746.26	60.12	293.03	258.74	333.89	148.91	729.22	73.69	228.63	258.22
54417	83.31	-19.62	-13.00	133.96	156.06	748.10	56.86	293.51	251.05	327.38	158.21	741.77	79.64	227.07	250.68
54418	81.94	-19.90	-13.00	116.39	161.04	749.16	55.15	294.05	244.66	320.73	163.77	750.74	88.92	225.72	244.46
54419	80.55	-20.10	-13.00	102.78	162.57	749.28	54.64	294.93	239.09	314.31	165.73	755.91	100.92	224.99	239.02
54420	79.15	-20.20	-13.00	95.77	161.98	748.88	54.74	295.92	234.91	308.74	165.69	757.55	114.80	224.82	234.90
54421	97.13	-9.66	-13.00	220.92	128.17	700.91	120.48	350.18	370.19	273.40	106.00	428.24	126.76	307.29	369.37
54422	96.40	-10.95	-13.00	193.56	120.37	691.13	116.00	328.72	363.08	251.83	97.21	453.86	123.73	284.56	362.33
54423	95.59	-12.19	-13.00	180.49	105.01	689.34	104.09	314.89	348.07	245.40	80.66	484.49	112.59	269.06	347.60
54424	94.69	-13.37	-13.00	187.32	84.34	690.85	92.86	302.12	342.82	259.75	59.61	511.04	101.70	254.52	342.57
54425	93.71	-14.48	-13.00	199.68	67.35	698.23	83.20	288.62	338.32	280.22	43.15	540.33	90.86	239.27	337.90
54426	92.65	-15.53	-13.00	205.41	59.07	708.69	78.80	281.10	326.72	294.70	36.52	573.07	84.04	230.08	325.86
54427	91.52	-16.49	-13.00	202.30	60.72	718.82	77.46	279.97	309.16	301.27	43.15	606.20	80.32	227.15	307.86
54428	90.33	-17.37	-13.00	193.09	71.52	726.96	74.40	282.17	290.13	302.79	60.36	636.90	75.47	227.24	288.51
54429	89.07	-18.17	-13.00	180.52	86.30	733.02	68.89	285.42	272.60	301.92	79.98	664.05	68.85	228.08	270.86
54430	87.77	-18.87	-13.00	165.91	101.05	737.57	62.63	288.79	257.32	299.81	97.95	687.61	62.58	228.86	255.61
54431	86.41	-19.48	-13.00	149.98	114.14	741.03	57.09	291.95	244.18	297.00	113.16	707.71	58.94	229.37	242.63
54432	85.02	-19.99	-13.00	133.39	124.98	743.68	52.92	294.68	233.00	293.86	125.39	724.39	59.31	229.50	231.75
54433	83.59	-20.41	-13.00	116.81	133.25	745.65	50.14	296.74	223.69	290.59	134.50	737.64	63.80	229.16	222.81
54434	82.14	-20.72	-13.00	101.09	138.36	746.97	48.51	298.16	216.06	286.92	139.98	747.39	71.75	228.55	215.57
54435	80.67	-20.93	-13.00	88.27	139.79	746.98	48.09	299.80	209.30	282.72	141.58	752.92	82.95	228.68	209.14
54436	79.19	-21.03	-13.00	81.83	138.73	745.54	48.74	301.89	203.48	279.05	141.01	753.91	96.94	229.91	203.47
54437	98.05	-9.70	-13.00	165.82	129.27	677.67	117.93	294.09	364.80	200.72	117.23	400.41	125.61	260.82	363.25
54438	97.30	-11.08	-13.00	147.13	118.33	675.09	113.58	272.58	350.60	187.06	105.88	431.36	122.96	237.34	348.88
54439	96.46	-12.41	-13.00	136.94	98.45	679.35	100.04	263.56	326.27	182.88	84.89	467.80	110.64	225.70	324.62
54440	95.53	-13.67	-13.00	142.80	76.18	682.39	87.80	259.85	312.57	195.80	61.97	497.43	99.66	219.11	311.01
54441	94.51	-14.85	-13.00	153.79	57.48	687.29	75.85	255.92	303.76	214.66	43.30	526.14	87.79	212.42	301.92
54442	93.40	-15.97	-13.00	160.06	45.47	694.16	66.67	255.80	292.41	229.46	31.79	556.09	77.10	209.64	289.92
54443	92.22	-17.00	-13.00	158.77	40.34	701.34	61.58	260.27	276.83	237.56	28.23	586.30	69.43	211.32	273.60
54444	90.97	-17.94	-13.00	151.99	43.17	707.58	57.74	267.18	259.04	241.25	34.93	614.99	62.85	215.07	255.25
54445	89.65	-18.79	-13.00	142.33	51.94	712.51	53.00	274.51	241.31	243.15	47.49	641.02	55.50	218.93	237.29
54446	88.28	-19.55	-13.00	131.13	62.50	716.31	47.72	281.34	224.78	244.48	60.62	663.98	47.86	222.10	220.86
54447	86.86	-20.20	-13.00	118.96	72.48	719.24	42.97	287.33	209.81	245.62	72.24	683.77	41.70	224.46	206.28
54448	85.39	-20.76	-13.00	106.30	80.96	721.52	39.40	292.30	196.57	246.83	81.76	700.38	39.01	226.02	193.71
54449	83.88	-21.20	-13.00	93.77	87.69	723.26	37.00	295.93	185.28	248.33	89.06	713.74	40.91	226.65	183.24
54450	82.35	-21.54	-13.00	81.71	92.02	724.80	35.23	297.86	176.09	249.67	93.48	724.09	46.86	226.31	174.97
54451	80.80	-21.76	-13.00	70.79	93.52	726.01	34.20	299.21	168.88	249.72	94.70	731.30	56.46	226.38	168.55
54452	79.23	-21.87	-13.00	64.07	94.41	723.34	35.43	302.40	162.47	248.64	95.83	731.63	70.50	228.98	162.46
54453	98.96	-9.75	-13.00	92.09	132.63	596.70	109.57	212.75	358.95	110.82	131.27	363.48	117.64	191.84	356.45
54454	98.20	-11.21	-13.00	90.23	117.25	609.50	105.45	203.64	336.62	112.55	115.98	394.02	115.35	180.69	333.13
54455	97.34	-12.62	-13.00	87.08	91.84	622.67	92.50	204.15	302.52	114.27	90.35	430.89	104.29	177.83	297.86
54456	96.37	-13.96	-13.00	93.36	67.80	628.72	82.12	210.47	279.96	126.94	66.01	459.38	96.21	180.18	274.41
54457	95.31	-15.22	-13.00	102.12	48.82	633.18	71.39	217.08	264.63	143.27	46.79	485.04	87.11	183.04	258.14
54458	94.16	-16.41	-13.00	107.38	35.90	638.12	60.55	226.05	250.29	156.79	33.82	510.45	76.75	188.29	242.60
54459	92.93	-17.51	-13.00	107.44	26.64	643.31	51.71	237.42	233.90	165.81	24.63	535.94	67.14	195	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
54489	92.91	-14.11	-14.33	379.82	139.84	741.57	127.26	350.66	385.59	483.04	82.62	588.55	130.99	331.62	385.64
54490	91.89	-15.08	-14.33	404.12	159.48	750.23	144.84	332.48	366.66	519.24	114.41	620.24	145.67	313.11	366.65
54491	90.82	-15.98	-14.33	405.68	204.76	757.41	155.60	321.16	345.36	533.50	174.43	650.51	155.23	301.40	345.30
54492	89.68	-16.80	-14.33	391.42	256.81	762.47	156.24	313.92	327.31	532.88	236.47	677.60	156.09	293.62	327.22
54493	88.49	-17.54	-14.33	368.84	302.68	765.86	152.02	308.75	313.96	524.66	288.80	701.23	153.59	287.82	313.86
54494	87.25	-18.19	-14.33	341.18	342.22	768.38	147.25	304.85	303.59	511.89	332.74	721.86	152.37	283.22	303.49
54495	85.97	-18.76	-14.33	310.43	375.49	770.30	143.02	301.97	295.33	496.26	369.20	739.56	153.75	279.57	295.24
54496	84.65	-19.23	-14.33	278.36	402.45	771.77	139.74	299.83	288.71	478.97	398.58	754.31	158.20	276.62	288.64
54497	83.31	-19.62	-14.33	246.82	422.65	772.84	137.47	298.23	283.43	460.84	420.61	766.00	165.67	274.20	283.38
54498	81.94	-19.90	-14.33	218.37	434.77	773.45	136.06	297.16	279.07	442.42	434.13	774.49	175.92	272.33	279.04
54499	80.55	-20.10	-14.33	197.01	437.92	773.57	135.16	296.75	275.03	424.42	438.46	779.66	188.82	271.19	275.02
54500	79.15	-20.20	-14.33	186.30	436.03	773.54	134.40	296.77	271.76	407.42	437.70	781.74	204.13	270.67	271.76
54501	97.13	-9.66	-14.33	479.21	231.90	763.11	192.65	419.16	414.05	524.12	189.81	479.49	201.12	404.43	413.95
54502	96.40	-10.95	-14.33	385.83	206.23	762.65	148.45	357.83	366.99	437.88	158.95	513.50	154.84	342.56	366.93
54503	95.59	-12.19	-14.33	336.92	192.70	761.93	126.54	355.22	354.50	397.28	146.65	543.61	133.34	339.35	354.57
54504	94.69	-13.37	-14.33	335.11	170.53	761.69	113.66	345.98	356.47	404.89	126.14	570.79	120.68	329.45	356.65
54505	93.71	-14.48	-14.33	355.29	157.98	764.41	112.27	333.31	356.93	435.18	116.12	599.22	116.87	316.05	357.07
54506	92.65	-15.53	-14.33	367.16	168.53	769.03	122.24	324.19	350.04	457.99	132.84	629.06	123.67	306.15	350.07
54507	91.52	-16.49	-14.33	363.05	197.56	773.48	131.91	319.77	339.13	465.82	169.98	658.18	131.35	300.91	339.06
54508	90.33	-17.37	-14.33	347.08	234.18	776.96	134.51	318.14	328.13	462.87	213.64	685.05	133.08	298.40	327.99
54509	89.07	-18.17	-14.33	324.66	269.69	779.46	131.24	317.77	318.83	454.38	254.52	709.11	129.94	297.07	318.66
54510	87.77	-18.87	-14.33	298.93	301.31	781.29	125.33	317.97	311.20	443.25	290.19	730.27	125.41	296.29	311.03
54511	86.41	-19.48	-14.33	271.65	328.61	782.68	118.46	318.49	304.85	430.95	320.64	748.53	121.62	295.81	304.69
54512	85.02	-19.99	-14.33	244.25	351.24	783.75	111.45	319.13	299.56	418.42	345.79	763.82	119.87	295.48	299.43
54513	83.59	-20.41	-14.33	218.07	368.68	784.54	104.88	319.64	295.21	406.28	365.25	776.03	121.04	295.06	295.12
54514	82.14	-20.72	-14.33	194.70	378.67	784.95	99.41	319.93	291.50	394.53	376.77	784.95	125.78	294.53	291.46
54515	80.67	-20.93	-14.33	177.94	376.77	784.67	95.33	320.58	286.97	383.27	376.14	790.19	134.68	294.51	286.96
54516	79.19	-21.03	-14.33	171.71	366.63	783.98	91.82	321.78	281.48	373.21	367.40	791.93	147.75	295.28	281.47
54517	98.05	-9.70	-14.33	472.91	252.39	776.13	201.26	396.33	407.89	500.46	222.16	472.15	209.90	385.72	407.73
54518	97.30	-11.08	-14.33	382.55	213.21	778.72	151.89	324.57	353.67	416.38	178.09	510.45	158.61	313.00	353.53
54519	96.46	-12.41	-14.33	335.72	200.72	780.76	127.87	321.83	335.53	376.97	166.97	544.91	134.27	309.19	335.53
54520	95.53	-13.67	-14.33	325.28	187.26	781.33	112.07	317.60	331.69	375.04	156.37	575.32	118.52	303.79	331.80
54521	94.51	-14.85	-14.33	332.01	176.54	782.67	104.53	312.10	330.74	391.10	148.77	605.10	109.59	297.03	330.85
54522	93.40	-15.97	-14.33	335.80	179.27	785.03	106.23	308.01	327.24	405.08	155.30	634.88	108.56	291.63	327.25
54523	92.22	-17.00	-14.33	328.61	196.13	787.64	111.11	306.71	320.91	409.14	176.58	663.84	110.94	288.99	320.79
54524	90.97	-17.94	-14.33	313.25	220.68	789.89	112.79	307.32	313.62	405.22	205.33	690.95	110.82	288.23	313.43
54525	89.65	-18.79	-14.33	290.83	246.62	791.63	110.22	308.77	306.79	397.37	234.81	715.58	107.08	288.30	306.56
54526	88.28	-19.55	-14.33	267.16	270.77	792.94	105.12	310.48	300.85	388.16	261.83	737.44	101.57	288.64	300.62
54527	86.86	-20.20	-14.33	242.78	292.09	793.94	98.98	312.19	295.76	378.82	285.46	756.40	96.27	289.03	295.55
54528	85.39	-20.76	-14.33	218.83	309.94	794.70	92.67	313.74	291.46	370.01	305.23	772.33	92.70	289.38	291.29
54529	83.88	-21.20	-14.33	196.43	324.24	795.28	86.55	314.94	287.86	362.29	321.15	785.13	91.92	289.51	287.74
54530	82.35	-21.54	-14.33	176.19	333.41	795.75	81.01	315.09	285.02	355.89	331.52	794.73	94.46	288.80	284.97
54531	80.80	-21.76	-14.33	160.68	327.10	795.34	77.70	315.20	280.88	349.01	325.99	800.35	101.80	288.37	280.89
54532	79.23	-21.87	-14.33	158.03	301.15	793.45	74.45	317.79	269.58	342.58	301.27	801.23	114.29	290.61	269.59
54533	98.96	-9.75	-14.33	437.01	267.70	766.97	214.10	353.80	404.61	451.56	250.13	452.16	221.25	347.43	404.31
54534	98.20	-11.21	-14.33	341.12	210.43	774.24	153.48	277.74	342.26	360.39	190.54	494.88	159.48	269.98	341.78
54535	97.34	-12.62	-14.33	302.79	195.09	780.05	125.17	280.40	318.40	328.11	176.81	533.11	131.04	271.03	317.92
54536	96.37	-13.96	-14.33	294.34	187.68	781.71	107.02	281.96	309.21	326.81	172.15	565.63	113.42	270.83	308.73
54537	95.31	-15.22	-14.33	296.06	180.55	782.75	94.59	282.82	304.41	336.71	167.60	596.58	100.80	269.85	303.89
54538	94.16	-16.41	-14.33	295.68	179.15	784.14	88.65	284.42	299.70	345.60	168.51	626.71	93.08	269.55	299.08
54539	92.93	-17.51	-14.33	287.38	186.58	785.75	87.35	287.57	293.63	347.84	178.03	655.74	88.99	270.77	292.88
54540	91.62	-18.52	-14.33	272.25	200.56	787.26	86.58	291.79	286.60	344.65	193.79	683.04	85.23	273.06	285.78
54541	90.24	-19.42	-14.33	253.34	217.06	788.52	84.42	296.32	279.47	339.12	211.76	708.05	80.11	275.69	278.65
54542	88.80	-20.23	-14.33	232.85	233.33	789.49	81.39	300.65	272.79	333.21	229.19	730.39	74.32	278.19	272.03
54543	87.30	-20.93	-14.33	211.91	248.00	790.24	78.43	304.55	266.78	327.71	244.82	749.87	69.40	280.40	266.14
54544	85.75	-21.52	-14.33	191.37	260.61	790.81	76.05	307.86	261.50	323.00	258.23	766.29	66.88	282.23	261.01
54545	84.17	-21.99	-14.33	172.26	270.08	791.33	74.39	310.52	257.20	319.46	268.42	779.63	67.95	283.66	256.87
54546	82.56	-22.35	-14.33	155.80	279.41	791.46	72.17	311.74	253.43	318.38	278.44	789.47	71.95	283.89	253.23
54547	80.92	-22.59	-14.33	140.72	275.13	794.09	68.28	308.07	252.67	320.42	274.19	798.58	76.81	280.06	252.67
54548	79.28	-22.71	-14.33	137.95	220.55	790.20	70.09	310.96	230.46	314.29	220.29	798.00	91.08	283.30	230.48
54549	99.88	-9.79	-14.33	312.14	282.67	635.89	238.97	244.57	462.76	317.22	279.30	396.31	242.38	241.22	462.33
54550	99.10	-11.34	-14.33	232.93	172.89	679.78	155.03	205.59	362.97	240.57	171.25	440.44	158.49	200.86	361.00
54551	98.21	-12.83	-14.33	225.20	152.87	693.02	124.41	226.23	326.92	236.82	153.59	476.10	129.38	219.34	323.56
54552	97.21	-14.25	-14.33	226.69	152.17	695.84	101.35	240.38	306.84	243.42	154.64	504.65	108.62	231.29	302.65
54553	96.11	-15.59	-14.33	230.43	150.69	696.94	81.84	254.34	291.65	253.70	154.02	531.30	91.38	242.94	286.87
54554	94.92	-16.85	-14.33	230.08	148.21	697.46	66.00	268.56	277.73	261.41	151.64	556.70	76.46	254.75	272.49
54555	93.63	-18.02	-14.33	232.93	148.27	697.90	55.15	282.99	263.23	265.05	151.28	580.91	63.86	266.68	257.68
54556	92.26	-19.09	-14.33	213.32	151.89	698.38	49.62	296.99	247.65	266.12	154				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
54587	69.13	-18.87	-11.67	86.84	18.70	651.05	37.80	267.02	211.53	245.62	32.04	601.71	148.08	211.34	209.83
54588	67.83	-18.17	-11.67	93.14	23.84	645.47	42.42	260.48	229.16	256.08	44.52	578.39	164.76	223.68	229.21
54589	66.57	-17.37	-11.67	98.97	30.31	638.42	46.43	253.22	247.81	269.59	58.44	552.23	182.93	239.28	251.11
54590	65.38	-16.49	-11.67	103.84	36.59	629.75	49.97	245.89	266.19	287.88	72.89	524.12	203.19	259.87	274.62
54591	64.25	-15.53	-11.67	106.67	41.54	619.94	54.31	240.16	282.03	314.82	86.44	496.03	226.44	288.80	298.30
54592	63.19	-14.48	-11.67	106.51	46.63	610.73	60.91	238.55	293.39	358.44	97.09	470.51	256.06	330.40	322.48
54593	62.21	-13.37	-11.67	104.97	55.58	604.91	69.44	242.22	301.25	431.82	105.12	448.31	300.18	388.24	352.87
54594	61.31	-12.19	-11.67	109.47	67.90	604.45	79.29	249.57	309.56	561.37	111.07	426.61	370.69	467.83	398.30
54595	60.50	-10.95	-11.67	133.99	78.36	610.38	90.68	258.60	317.46	806.40	104.80	404.69	467.21	587.26	454.17
54596	59.77	-9.66	-11.67	190.30	83.79	623.85	99.20	268.14	320.30	1236.33	74.84	388.25	531.25	774.85	488.79
54597	77.67	-21.87	-11.67	65.06	5.31	622.75	10.51	281.17	98.09	196.55	13.89	631.82	49.10	172.10	98.08
54598	76.10	-21.76	-11.67	64.11	5.08	620.71	12.07	279.07	100.29	200.64	9.35	627.44	59.94	174.26	99.53
54599	74.55	-21.54	-11.67	64.41	7.74	618.10	16.26	276.15	108.76	204.85	7.07	620.52	72.35	178.84	106.54
54600	73.02	-21.20	-11.67	65.42	11.31	615.46	21.16	272.77	121.84	209.91	12.36	611.31	86.16	185.82	118.04
54601	71.51	-20.76	-11.67	66.50	15.57	612.57	25.88	268.21	137.68	215.42	22.13	599.47	100.61	194.39	132.95
54602	70.04	-20.20	-11.67	67.70	20.46	609.02	30.32	262.19	155.37	221.01	34.02	584.76	115.40	204.29	150.97
54603	68.62	-19.55	-11.67	69.14	25.93	604.57	34.39	254.72	174.35	226.69	47.62	567.21	130.54	215.58	172.02
54604	67.25	-18.79	-11.67	70.99	31.77	599.01	37.92	245.81	194.19	232.79	62.71	547.01	146.10	228.57	196.13
54605	65.93	-17.94	-11.67	73.33	37.34	592.16	40.94	235.61	214.28	240.06	78.90	524.63	162.25	244.02	223.14
54606	64.68	-17.00	-11.67	75.66	41.52	584.09	44.21	224.76	233.45	250.20	95.46	501.07	179.34	263.81	252.66
54607	63.50	-15.97	-11.67	76.53	43.85	575.45	49.20	214.94	250.13	267.13	111.23	478.03	198.71	291.13	284.72
54608	62.39	-14.85	-11.67	74.76	46.72	567.71	56.34	208.35	263.64	298.43	125.81	456.95	224.82	329.49	322.15
54609	61.37	-13.67	-11.67	72.26	54.66	562.51	64.44	205.81	275.87	354.59	142.49	437.41	267.62	380.56	372.13
54610	60.44	-12.41	-11.67	77.17	68.09	559.94	74.54	206.30	290.36	462.51	169.79	417.28	348.07	450.76	442.83
54611	59.60	-11.08	-11.67	109.46	82.12	559.44	91.53	210.49	304.64	728.33	195.06	401.68	490.59	579.25	532.92
54612	58.85	-9.70	-11.67	193.27	90.60	561.50	109.58	222.24	311.16	1329.87	155.76	408.04	617.97	858.08	595.02
54613	77.62	-22.71	-11.67	85.65	8.34	553.63	4.43	269.59	43.98	185.85	10.35	564.24	29.87	157.98	43.57
54614	75.98	-22.59	-11.67	81.47	11.97	545.96	8.71	267.16	48.75	190.10	11.96	556.58	40.43	162.32	45.37
54615	74.34	-22.35	-11.67	78.18	15.73	540.54	15.62	264.28	62.91	195.06	16.00	550.34	53.70	170.33	55.76
54616	72.73	-21.99	-11.67	75.14	19.11	536.99	21.68	260.98	81.33	200.82	22.38	544.48	68.43	181.01	71.52
54617	71.15	-21.52	-11.67	71.02	23.29	533.94	26.76	256.31	100.89	205.75	31.97	537.35	83.58	193.12	90.61
54618	69.60	-20.93	-11.67	66.14	27.96	530.37	30.88	250.01	120.98	209.21	44.02	528.24	98.70	206.10	112.91
54619	68.10	-20.23	-11.67	60.92	32.88	525.99	33.91	242.05	141.34	211.11	58.25	517.19	113.55	219.75	138.61
54620	66.66	-19.42	-11.67	56.09	37.62	520.60	35.84	232.35	161.71	211.54	74.28	504.43	127.84	234.07	167.94
54621	65.28	-18.52	-11.67	52.69	41.43	514.15	37.04	220.84	181.60	211.00	91.53	490.51	141.32	249.66	201.12
54622	63.97	-17.51	-11.67	51.15	43.46	506.84	38.80	207.98	200.26	210.96	109.16	476.40	154.05	268.20	238.65
54623	62.74	-16.41	-11.67	50.28	43.99	499.33	42.61	195.09	216.97	215.01	126.43	463.28	167.40	292.47	282.24
54624	61.59	-15.22	-11.67	48.44	46.03	492.52	48.25	184.06	232.17	228.59	144.44	451.78	186.11	324.54	336.16
54625	60.53	-13.96	-11.67	46.89	53.59	486.62	54.30	175.87	248.30	261.73	169.82	442.09	220.07	364.68	406.39
54626	59.56	-12.62	-11.67	50.16	67.70	479.59	62.50	169.91	268.27	319.89	220.48	435.91	287.95	410.83	495.57
54627	58.70	-11.21	-11.67	80.70	89.92	467.33	85.64	169.19	289.40	541.73	321.41	466.92	470.89	519.94	624.32
54628	57.94	-9.75	-11.67	197.09	112.62	443.57	126.49	192.87	301.55	1379.08	344.75	645.20	741.99	977.91	750.50
54629	77.58	-23.55	-11.67	110.89	4.14	466.25	3.84	252.90	11.30	180.86	4.38	480.10	13.42	137.58	8.29
54630	75.85	-23.42	-11.67	104.45	2.71	456.01	11.20	252.50	28.96	185.36	2.91	474.55	27.13	146.89	18.90
54631	74.13	-23.17	-11.67	98.48	6.51	447.04	19.07	249.81	47.03	189.01	8.55	471.29	41.42	158.57	32.03
54632	72.44	-22.78	-11.67	93.45	9.87	442.81	25.85	246.98	66.27	194.28	16.02	473.05	57.29	173.30	49.08
54633	70.78	-22.28	-11.67	86.50	14.31	439.70	31.43	242.86	85.22	196.94	26.29	475.33	73.29	189.44	69.23
54634	69.16	-21.65	-11.67	77.88	19.15	436.15	35.42	237.35	104.08	196.51	39.07	477.07	88.83	206.24	93.20
54635	67.59	-20.91	-11.67	67.93	24.03	431.88	37.51	230.39	122.80	192.77	54.24	478.19	103.26	223.24	121.43
54636	66.08	-20.05	-11.67	57.30	28.32	426.70	37.65	221.77	141.19	185.62	71.29	478.79	115.77	240.19	154.37
54637	64.64	-19.09	-11.67	47.35	31.38	420.61	35.93	211.26	158.87	175.28	89.41	479.19	125.53	257.43	192.76
54638	63.27	-18.02	-11.67	40.04	33.02	413.87	33.93	198.98	175.40	162.88	107.56	479.95	132.11	276.23	238.12
54639	61.98	-16.85	-11.67	36.14	34.64	407.01	33.86	185.87	190.74	151.02	125.22	481.53	136.58	298.61	293.51
54640	60.79	-15.59	-11.67	33.97	39.14	400.34	36.21	173.62	206.17	144.54	144.77	484.54	142.58	325.18	363.21
54641	59.69	-14.25	-11.67	31.83	47.95	392.70	39.43	163.68	224.43	144.97	174.61	490.13	158.12	352.40	448.78
54642	58.69	-12.83	-11.67	32.34	61.21	379.56	43.49	155.80	247.82	172.98	233.49	520.62	188.94	377.36	544.80
54643	57.80	-11.34	-11.67	32.97	89.58	354.95	56.46	147.20	270.87	168.09	383.76	594.04	271.01	360.47	642.68
54644	57.02	-9.79	-11.67	168.96	181.78	299.70	144.81	178.57	301.96	1161.56	840.51	1380.73	826.67	1003.13	902.23
54645	77.75	-20.20	-13.00	96.02	161.98	749.11	54.93	295.98	234.43	303.95	166.12	756.72	129.17	224.34	234.44
54646	76.35	-20.10	-13.00	103.65	162.49	749.83	55.25	295.12	237.97	299.92	166.41	753.34	143.82	223.69	237.94
54647	74.96	-19.90	-13.00	118.17	160.63	749.81	56.16	294.24	243.34	297.24	163.74	746.35	159.73	224.06	243.20
54648	73.59	-19.62	-13.00	136.80	155.19	748.72	57.91	293.66	249.74	296.79	157.20	735.48	177.04	226.02	249.42
54649	72.25	-19.23	-13.00	156.94	146.57	746.80	60.61	293.15	257.57	298.85	147.22	720.98	195.40	229.59	257.05
54650	70.93	-18.76	-13.00	177.17	135.35	744.11	64.47	292.63	267.16	303.45	134.25	703.02	214.64	234.95	266.48
54651	69.65	-18.19	-13.00	196.63	122.00	740.51	69.63	292.22	278.79	310.97	118.54	681.63	234.87	242.57	278.07
54652	68.41	-17.54	-13.00	214.58	107.18	735.75	75.79	292.12	292.86	322.22	100.30	656.77	256.28	253.07	292.29
54653	67.22	-16.80	-13.00	230.28	92.12	729.29	81.85	292.53	309.97	338.52	80.20	628.25	279.03	267.13	309.85
54654	66.08	-15.98	-13.00	242.67	80.00	720.08	85.70	294.06	330.35	361.67	61.64	595.95	303.09	285.99	331.06
54655	65.01	-15.08	-13.00	249.35	75.98	707.48	86.13	298.84	351.17	394.81	52.92	561.34	327.31	313.33	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
54685	65.93	-17.94	-13.00	158.69	48.29	707.22	51.40	266.65	258.68	270.73	75.32	613.85	229.03	273.17	260.99
54686	64.68	-17.00	-13.00	165.74	46.90	700.94	54.89	259.42	276.63	277.34	88.56	586.15	247.46	288.94	283.02
54687	63.50	-15.97	-13.00	166.71	52.61	693.86	60.70	254.57	292.40	289.79	104.40	557.83	264.99	312.06	305.02
54688	62.39	-14.85	-13.00	159.41	65.30	687.36	70.59	254.40	303.89	315.12	115.65	530.49	284.95	345.98	327.18
54689	61.37	-13.67	-13.00	147.29	84.48	683.23	81.65	258.41	312.74	360.38	118.28	504.12	316.27	392.41	356.96
54690	60.44	-12.41	-13.00	141.76	105.50	681.34	92.04	263.20	326.65	433.74	115.15	475.73	369.08	456.89	410.24
54691	59.60	-11.08	-13.00	154.95	122.61	677.50	105.13	276.11	351.67	565.85	106.69	441.82	438.46	580.59	492.39
54692	58.85	-9.70	-13.00	180.47	136.10	676.01	110.73	307.00	365.93	794.05	88.19	431.39	488.22	832.40	551.57
54693	77.62	-22.71	-13.00	53.38	42.08	673.23	22.92	297.49	100.44	219.61	43.07	681.65	55.01	221.30	100.22
54694	75.98	-22.59	-13.00	58.34	31.03	668.17	21.00	295.37	99.46	223.26	31.46	674.38	68.99	223.60	98.48
54695	74.34	-22.35	-13.00	65.67	31.03	663.07	21.65	293.90	109.59	228.87	31.19	665.94	86.22	229.17	106.78
54696	72.73	-21.99	-13.00	72.71	28.70	661.41	22.93	291.23	123.43	235.68	31.90	658.03	104.75	235.29	118.88
54697	71.15	-21.52	-13.00	80.21	25.42	659.68	24.34	286.00	139.58	240.81	36.50	647.36	122.93	241.09	134.15
54698	69.60	-20.93	-13.00	87.80	21.98	657.59	26.85	278.98	157.39	244.07	46.33	634.10	141.13	247.44	152.40
54699	68.10	-20.23	-13.00	95.00	19.19	654.94	30.68	270.36	176.21	245.46	60.72	618.29	159.07	254.56	173.38
54700	66.66	-19.42	-13.00	101.59	18.99	651.60	35.56	260.17	195.62	244.87	78.74	600.12	176.22	262.60	197.05
54701	65.22	-18.52	-13.00	107.30	22.75	647.46	41.30	248.55	215.05	242.41	99.35	579.97	191.81	271.98	223.27
54702	63.97	-17.51	-13.00	110.99	29.59	642.60	48.57	236.10	233.56	239.24	120.75	558.57	204.94	283.96	251.75
54703	62.74	-16.41	-13.00	110.25	38.95	637.47	58.17	224.31	250.00	238.86	139.72	536.88	215.75	300.78	282.81
54704	61.59	-15.22	-13.00	103.28	52.64	632.86	68.60	215.01	264.36	247.26	152.97	515.52	227.81	324.57	319.63
54705	60.53	-13.96	-13.00	92.56	71.12	629.08	76.96	208.37	279.80	268.90	161.64	493.68	249.50	354.86	370.12
54706	59.56	-12.62	-13.00	85.98	91.88	623.72	84.23	202.99	303.11	312.81	176.19	470.49	293.74	393.37	445.54
54707	58.70	-11.21	-13.00	92.29	113.20	609.22	96.23	207.18	339.45	415.72	198.38	456.94	368.67	489.62	549.28
54708	57.94	-9.75	-13.00	101.48	135.62	585.17	102.74	228.21	365.25	602.33	209.90	588.45	446.59	752.81	634.70
54709	77.58	-23.55	-13.00	75.90	2.68	553.68	10.22	280.39	19.94	212.70	1.54	565.49	21.73	199.67	17.70
54710	75.85	-23.42	-13.00	68.94	19.93	521.13	10.03	274.54	28.50	209.25	19.94	536.07	26.13	201.00	20.40
54711	74.13	-23.17	-13.00	69.72	17.61	510.85	13.71	274.62	51.25	225.31	19.40	531.77	46.13	211.37	39.74
54712	72.44	-22.78	-13.00	68.42	20.54	509.65	18.77	271.74	72.19	237.40	27.27	533.71	65.92	220.38	58.78
54713	70.78	-22.28	-13.00	66.13	23.05	508.04	23.79	266.64	92.53	245.05	38.23	534.56	85.91	229.54	79.82
54714	69.16	-21.65	-13.00	63.03	26.21	506.45	28.33	259.99	112.68	248.64	53.38	534.82	105.93	239.04	103.64
54715	67.59	-20.91	-13.00	59.34	29.70	504.48	32.48	251.75	132.46	247.83	72.06	534.26	125.00	248.52	130.50
54716	66.08	-20.05	-13.00	55.51	33.23	502.05	36.29	241.84	151.77	242.16	93.56	532.97	141.95	257.61	160.74
54717	64.64	-19.09	-13.00	52.44	36.40	499.16	40.37	230.07	170.30	231.37	116.56	531.13	155.22	266.15	194.67
54718	63.27	-18.02	-13.00	50.68	39.39	495.95	45.86	216.52	187.64	216.18	138.91	528.93	163.33	274.67	232.93
54719	61.98	-16.85	-13.00	48.90	44.30	492.62	52.90	202.05	203.74	199.42	158.12	526.46	166.07	284.66	277.38
54720	60.79	-15.59	-13.00	44.95	54.11	489.22	59.08	188.33	219.92	185.85	173.51	523.21	166.64	297.25	331.57
54721	59.69	-14.25	-13.00	39.46	68.57	484.70	61.81	177.02	239.64	181.10	190.41	519.87	172.05	310.97	399.09
54722	58.69	-12.83	-13.00	35.92	86.26	475.17	62.75	168.85	268.56	182.75	223.53	517.22	191.15	313.46	474.39
54723	57.80	-11.34	-13.00	40.56	109.37	446.92	71.23	167.98	315.15	247.79	299.11	574.91	252.92	346.93	554.42
54724	57.02	-9.79	-13.00	32.23	135.88	400.88	74.35	164.71	349.15	219.47	363.95	785.33	307.85	373.49	614.30
54725	77.75	-20.20	-14.33	186.57	436.98	773.69	134.32	296.59	271.21	390.75	439.50	781.04	221.27	270.20	271.21
54726	76.35	-20.10	-14.33	198.36	439.77	773.91	135.37	296.39	273.85	374.74	442.56	777.45	239.86	269.91	273.85
54727	74.96	-19.90	-14.33	221.47	436.26	773.84	136.95	296.76	277.81	361.53	438.73	770.69	260.01	270.52	277.79
54728	73.59	-19.62	-14.33	251.69	423.33	773.22	138.76	297.84	282.26	352.31	424.96	760.56	281.60	272.31	282.21
54729	72.25	-19.23	-14.33	284.80	402.25	772.11	140.76	299.50	287.70	346.92	402.44	747.19	304.21	275.24	287.63
54730	70.93	-18.76	-14.33	318.17	374.56	770.57	143.05	301.73	294.53	345.20	372.39	730.75	327.59	279.42	294.43
54731	69.65	-18.19	-14.33	349.99	340.85	768.58	145.70	304.71	303.02	347.67	335.04	711.37	351.59	285.18	302.91
54732	68.41	-17.54	-14.33	378.50	301.29	765.99	148.47	308.70	313.61	355.39	289.86	689.13	375.99	292.97	313.50
54733	67.22	-16.80	-14.33	401.76	256.04	762.53	150.52	313.97	327.15	370.33	235.72	663.99	400.41	303.26	327.08
54734	66.08	-15.98	-14.33	416.58	205.22	757.45	148.01	321.26	345.35	395.95	170.47	635.71	423.11	317.01	345.36
54735	65.01	-15.08	-14.33	415.65	161.51	750.25	136.08	332.55	366.96	438.51	103.72	605.03	441.24	336.96	367.04
54736	63.99	-14.11	-14.33	391.78	143.25	741.52	118.73	350.73	386.46	506.75	63.54	574.16	456.13	367.19	386.47
54737	63.05	-13.08	-14.33	345.90	152.29	734.47	111.33	377.20	393.11	606.70	69.57	547.12	480.44	410.76	392.94
54738	62.18	-11.98	-14.33	322.38	183.70	735.01	111.22	395.16	383.83	701.80	115.57	524.48	540.80	454.76	385.22
54739	61.39	-10.82	-14.33	370.37	201.36	739.85	126.91	393.12	383.44	733.55	177.39	496.30	591.51	492.93	389.56
54740	60.69	-9.62	-14.33	472.18	207.20	745.28	166.74	438.34	414.33	704.78	259.14	460.74	561.72	599.32	424.31
54741	77.71	-21.03	-14.33	172.28	367.18	784.06	91.04	321.62	281.20	362.43	369.08	791.24	164.57	295.20	281.20
54742	76.23	-20.93	-14.33	180.09	377.83	784.85	94.32	320.53	286.32	351.47	379.93	788.15	184.29	294.33	286.32
54743	74.76	-20.72	-14.33	198.86	379.44	785.17	99.16	319.95	290.75	344.21	380.93	781.60	207.14	294.44	290.72
54744	73.31	-20.41	-14.33	224.10	368.91	784.73	105.00	319.69	294.49	341.05	369.13	771.34	232.59	295.46	294.42
54745	71.88	-19.99	-14.33	251.87	350.97	783.91	111.16	319.21	298.95	339.90	348.98	757.73	259.41	296.93	298.83
54746	70.49	-19.48	-14.33	280.62	328.04	782.80	117.08	318.59	304.37	340.10	322.59	741.01	287.13	299.05	304.22
54747	69.13	-18.87	-14.33	309.04	300.78	781.35	122.35	318.07	310.87	342.00	290.21	721.32	315.59	302.23	310.71
54748	67.83	-18.17	-14.33	335.68	269.64	779.47	126.33	317.85	318.63	346.14	251.74	698.77	344.44	306.82	318.51
54749	66.57	-17.37	-14.33	358.77	235.08	776.93	127.61	318.18	328.05	353.58	206.95	673.41	373.12	313.27	328.02
54750	65.38	-16.49	-14.33	375.19	199.73	773.43	123.29	319.73	339.20	366.11	158.02	645.48	400.19	322.53	339.29
54751	64.25	-15.53	-14.33	379.40	171.96	768.97	112.51	324.01	350.35	387.21	114.86	615.76	424.13	336.73	350.54
54752	63.19	-14.48	-14.33	366.92	162.46	764.36	102.54	333.06	357.53	423.25	91.98	585.89	447.44	358.81	357.78
54753	62.21	-13.37	-14.33	345											



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
54783	62.74	-16.41	-14.33	305.83	188.89	783.95	76.92	283.86	299.86	221.35	172.97	622.24	344.74	315.50	302.72
54784	61.59	-15.22	-14.33	304.79	192.56	782.62	81.39	282.08	304.69	207.05	170.13	591.97	359.41	327.22	310.42
54785	60.53	-13.96	-14.33	300.96	201.00	781.72	91.46	281.15	309.69	194.48	158.57	560.71	376.23	341.58	321.43
54786	59.56	-12.62	-14.33	306.96	206.48	780.21	106.46	279.81	319.47	176.79	127.29	527.71	393.52	360.47	343.58
54787	58.70	-11.21	-14.33	342.59	212.23	773.74	131.94	277.94	344.33	122.98	81.26	492.12	390.17	393.32	388.46
54788	57.94	-9.75	-14.33	436.60	250.84	764.48	192.55	354.32	406.94	89.19	133.74	462.03	312.65	497.37	458.46
54789	77.58	-23.55	-14.33	126.54	102.65	768.71	61.37	325.74	149.97	182.95	102.83	775.54	78.41	287.71	149.71
54790	75.85	-23.42	-14.33	115.83	191.73	697.70	82.54	350.99	148.85	234.24	191.70	704.48	124.41	323.52	148.64
54791	74.13	-23.17	-14.33	123.68	178.11	701.36	80.98	351.35	159.63	243.64	178.34	704.93	146.69	326.89	158.33
54792	72.44	-22.78	-14.33	139.31	177.96	700.07	74.41	346.67	169.49	241.55	178.83	696.80	167.21	326.64	167.68
54793	70.78	-22.28	-14.33	157.01	174.96	699.92	66.34	339.96	183.39	235.57	177.70	687.45	188.31	325.45	181.23
54794	69.16	-21.65	-14.33	174.76	171.43	699.57	57.50	331.51	198.47	226.18	177.93	675.44	209.22	323.70	196.59
54795	67.59	-20.91	-14.33	191.53	167.29	699.20	49.39	321.40	214.63	213.25	180.35	661.17	229.20	321.50	213.85
54796	66.08	-20.05	-14.33	206.72	163.11	698.73	43.82	309.73	231.16	196.33	186.17	644.76	247.03	318.94	232.53
54797	64.64	-19.09	-14.33	219.90	160.01	698.20	42.53	296.62	247.52	174.88	196.11	626.47	260.96	316.13	252.30
54798	63.27	-18.02	-14.33	230.05	159.69	697.66	46.64	282.41	263.10	148.83	209.34	606.59	269.00	313.35	272.84
54799	61.98	-16.85	-14.33	235.24	163.32	697.18	56.31	267.73	277.58	119.42	222.12	585.35	270.13	311.11	294.25
54800	60.79	-15.59	-14.33	234.02	169.29	696.65	69.90	253.29	291.47	89.32	228.23	562.92	266.04	309.74	317.75
54801	59.69	-14.25	-14.33	228.24	172.64	695.59	85.54	239.18	306.74	60.87	222.10	538.93	260.90	307.36	345.72
54802	58.69	-12.83	-14.33	224.61	170.09	692.61	104.09	225.15	327.46	36.56	204.01	514.16	260.18	302.32	381.10
54803	57.80	-11.34	-14.33	230.91	173.83	679.31	131.45	204.70	364.89	27.93	180.47	491.69	256.68	278.78	423.79
54804	57.02	-9.79	-14.33	308.93	256.75	637.32	216.31	243.71	466.64	146.15	180.57	483.31	199.11	300.07	507.49
54805	90.14	9.49	-11.67	229.74	69.09	609.44	102.64	387.92	362.32	421.75	61.11	473.33	99.22	299.05	362.11
54806	91.17	9.44	-11.67	226.85	71.49	627.46	102.93	382.02	366.17	398.80	57.54	472.58	100.14	292.31	366.12
54807	92.21	9.39	-11.67	221.69	72.78	638.07	100.75	376.43	367.02	373.73	54.62	466.58	98.84	285.79	367.19
54808	90.36	10.47	-11.67	222.91	63.36	624.73	101.16	373.92	361.17	401.60	58.22	485.86	97.05	284.59	361.12
54809	91.26	10.33	-11.67	218.38	65.76	634.82	101.12	368.28	362.82	380.80	54.18	480.56	98.02	278.43	362.88
54810	92.15	10.18	-11.67	213.08	67.95	639.17	99.97	364.16	362.49	359.70	51.24	471.71	98.01	273.76	362.70
54811	90.56	11.46	-11.67	212.42	56.78	636.44	99.06	355.41	359.39	377.71	52.93	497.62	95.04	265.80	359.54
54812	91.33	11.21	-11.67	207.94	59.15	639.74	98.63	351.57	360.49	360.75	49.41	488.09	95.61	261.82	360.67
54813	92.08	10.96	-11.67	205.64	62.74	640.21	98.53	349.56	360.36	345.86	47.62	477.49	96.84	259.65	360.60
54814	79.02	9.89	-11.67	97.93	53.37	423.76	38.21	360.16	323.34	526.41	127.95	442.45	46.86	227.00	324.23
54815	80.15	9.88	-11.67	106.88	53.15	427.58	40.50	361.06	324.39	515.79	121.94	444.24	37.91	235.44	324.99
54816	81.29	9.86	-11.67	121.61	53.18	435.57	45.64	362.84	326.08	506.95	115.36	446.22	35.96	244.60	326.45
54817	82.41	9.83	-11.67	139.74	53.53	447.49	52.68	365.56	328.42	499.52	108.32	448.41	40.76	254.26	328.62
54818	83.53	9.80	-11.67	159.37	54.27	463.06	60.74	369.29	331.37	493.02	100.97	450.87	49.42	264.24	331.43
54819	84.65	9.76	-11.67	179.01	55.46	482.03	69.23	373.95	334.91	486.82	93.45	453.68	59.55	274.30	334.87
54820	85.76	9.71	-11.67	197.33	57.18	504.19	77.75	379.33	339.07	480.04	85.93	456.97	69.87	284.07	338.94
54821	86.87	9.66	-11.67	212.85	59.48	529.27	85.96	384.82	343.96	471.41	78.62	460.91	79.72	292.87	343.77
54822	87.97	9.60	-11.67	223.93	62.39	556.68	93.41	389.18	349.69	459.34	71.81	465.53	88.45	299.35	349.45
54823	89.07	9.54	-11.67	229.52	65.78	584.65	99.34	390.61	356.12	442.72	65.86	470.22	95.29	301.77	355.87
54824	79.05	11.68	-11.67	94.38	50.66	472.71	33.70	332.16	324.20	481.30	116.75	489.81	56.16	206.53	324.97
54825	80.25	11.64	-11.67	104.32	50.67	475.43	37.18	333.72	325.43	475.45	112.11	490.47	45.20	214.76	325.97
54826	81.44	11.58	-11.67	120.45	50.93	481.83	43.90	336.47	327.50	471.10	106.84	490.76	40.64	223.99	327.86
54827	82.61	11.50	-11.67	139.92	51.44	491.63	52.36	340.55	330.32	467.84	101.07	490.69	43.09	234.03	330.55
54828	83.77	11.40	-11.67	160.56	52.21	504.59	61.51	346.03	333.78	465.10	94.93	490.32	50.43	244.76	333.92
54829	84.92	11.28	-11.67	180.76	53.25	520.50	70.70	352.80	337.77	462.15	88.56	489.76	59.96	255.92	337.83
54830	86.05	11.15	-11.67	199.07	54.57	539.22	79.49	360.57	342.18	458.00	82.09	489.19	70.00	267.11	342.20
54831	87.17	10.99	-11.67	213.78	56.21	560.62	87.51	368.54	347.02	451.11	75.67	488.83	79.54	277.49	347.00
54832	88.28	10.82	-11.67	222.84	58.24	583.99	94.19	374.76	352.18	439.47	69.42	488.75	87.72	285.11	352.12
54833	89.37	10.63	-11.67	225.53	60.71	606.98	98.96	376.85	357.23	422.33	63.40	488.15	93.80	287.70	357.16
54834	79.08	13.48	-11.67	90.42	53.99	533.93	19.06	310.24	314.97	432.65	106.94	549.25	71.38	191.64	315.48
54835	80.33	13.42	-11.67	100.46	53.89	535.51	25.19	311.85	316.48	430.92	103.55	548.78	58.75	198.91	316.86
54836	81.56	13.32	-11.67	116.74	53.76	539.84	34.96	314.72	319.11	430.31	99.35	547.15	50.91	207.21	319.40
54837	82.78	13.19	-11.67	136.24	53.57	546.66	45.84	319.00	322.76	430.43	94.45	544.34	49.06	216.43	322.98
54838	83.98	13.03	-11.67	156.63	53.35	555.77	56.86	324.79	327.27	430.61	88.96	540.41	52.83	226.45	327.45
54839	85.15	12.83	-11.67	176.26	53.14	566.99	67.56	331.97	332.48	430.12	83.03	535.45	60.32	237.08	332.65
54840	86.31	12.61	-11.67	193.67	53.00	580.21	77.58	340.25	338.27	427.93	76.78	529.56	69.49	247.94	338.44
54841	87.44	12.35	-11.67	207.11	53.05	595.34	86.43	348.79	344.52	422.49	70.37	522.91	78.79	258.19	344.70
54842	88.56	12.06	-11.67	214.42	53.51	611.86	93.26	355.35	350.76	411.67	64.03	515.50	86.69	265.65	350.94
54843	89.64	11.74	-11.67	215.40	54.70	626.74	97.49	357.42	356.06	395.29	57.86	506.74	92.26	267.92	356.24
54844	79.10	15.28	-11.67	84.73	65.96	593.76	4.58	297.11	303.11	381.45	101.97	607.43	84.02	184.38	303.33
54845	80.40	15.20	-11.67	94.03	65.44	594.60	15.74	298.36	304.62	382.66	99.69	606.27	70.77	190.22	304.80
54846	81.67	15.07	-11.67	109.31	64.21	597.16	27.54	300.66	307.37	384.67	96.19	603.12	60.87	196.91	307.52
54847	82.92	14.90	-11.67	127.59	62.25	601.19	39.27	304.16	311.23	387.04	91.54	597.95	55.52	204.36	311.38
54848	84.16	14.67	-11.67	146.55	59.66	606.51	50.78	308.92	316.10	389.10	85.84	590.79	55.38	212.48	316.27
54849	85.36	14.40	-11.67	164.56	56.66	612.90	61.97	314.79	321.94	390.10	79.22	581.65	59.89	221.04	322.12
54850	86.54	14.08	-11.67	180.26	53.57	620.19	72.59	321.50	328.70	389.15	71.92	570.52	67.46	229.75	328.93
54851	87.69	13.72	-11.67	192.19	50.83	628.16	82.13	328.33	336.36	3					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{YZ}$ [kPa]	$\tau_{XZ}$ [kPa]	$\sigma_{XX}$ [kPa]	$\sigma_{YY}$ [kPa]	$\sigma_{ZZ}$ [kPa]	$\tau_{XY}$ [kPa]	$\tau_{YZ}$ [kPa]	$\tau_{XZ}$ [kPa]
54881	93.00	10.21	-11.67	200.99	68.11	639.68	96.85	356.32	359.07	329.50	48.63	461.36	96.37	266.05	359.39
54882	92.75	11.00	-11.67	191.05	62.21	638.20	94.65	343.23	357.43	318.34	44.46	468.32	94.28	253.66	357.68
54883	91.38	14.37	-11.67	155.90	36.58	650.08	78.55	287.90	330.52	273.53	32.92	523.68	79.16	201.78	330.26
54884	91.10	13.39	-11.67	178.61	43.40	648.84	87.93	310.85	346.94	312.64	38.30	516.14	86.50	222.54	347.11
54885	90.81	12.43	-11.67	197.27	50.16	644.19	94.74	333.30	355.02	347.33	45.67	507.46	91.74	243.85	355.30
54886	92.31	13.54	-11.67	156.85	41.52	640.24	80.88	290.13	337.20	266.75	32.52	495.20	82.90	204.40	337.03
54887	91.93	12.78	-11.67	177.51	47.15	642.74	88.63	311.89	349.29	302.75	36.72	494.26	88.40	223.80	349.43
54888	91.55	12.03	-11.67	194.15	52.90	642.58	94.56	332.19	355.88	334.35	43.05	492.81	92.59	242.90	356.12
54889	93.19	12.66	-11.67	155.70	48.69	631.99	84.61	297.71	339.45	258.29	34.67	470.96	87.91	212.42	339.32
54890	92.73	12.13	-11.67	175.63	52.77	637.10	90.28	316.66	348.92	292.49	37.37	475.43	91.21	228.80	349.04
54891	92.26	11.61	-11.67	191.71	56.10	639.70	95.62	334.22	356.34	322.45	40.89	478.81	94.63	244.97	356.56
54892	90.14	9.49	-13.00	344.85	113.12	622.42	140.38	422.93	389.12	563.06	87.28	487.44	138.45	364.92	388.69
54893	91.17	9.44	-13.00	341.88	126.41	647.17	138.28	423.70	404.51	535.34	97.76	493.87	136.90	364.75	404.22
54894	92.21	9.39	-13.00	333.05	133.29	659.73	127.32	421.49	411.50	501.82	103.48	491.80	126.43	361.66	411.48
54895	90.36	10.47	-13.00	347.76	97.54	647.88	141.64	411.11	393.98	550.22	72.58	507.78	138.51	352.63	393.70
54896	91.26	10.33	-13.00	337.14	106.88	663.83	137.98	411.24	406.45	519.44	76.89	508.65	135.74	352.18	406.26
54897	92.15	10.18	-13.00	324.83	114.48	666.97	128.02	409.02	411.67	487.42	80.76	502.14	126.78	349.45	411.67
54898	90.56	11.46	-13.00	339.70	89.22	666.31	140.69	391.09	388.19	526.21	63.63	524.01	137.48	332.30	388.18
54899	91.33	11.21	-13.00	328.09	96.74	673.18	137.15	391.11	397.85	499.00	64.80	517.56	134.88	332.14	397.83
54900	92.08	10.96	-13.00	304.72	99.75	667.98	125.22	386.62	398.56	459.91	62.03	505.68	123.95	327.51	398.60
54901	79.02	9.89	-13.00	118.19	69.64	433.49	64.31	344.55	320.94	618.84	148.87	449.50	34.80	257.27	321.35
54902	80.15	9.88	-13.00	130.55	68.86	436.93	66.31	346.07	322.07	608.60	140.59	450.76	27.78	264.22	322.32
54903	81.29	9.86	-13.00	151.34	68.21	444.21	71.02	348.99	324.24	601.37	131.51	452.20	34.27	272.36	324.36
54904	82.41	9.83	-13.00	177.27	67.94	455.06	77.75	353.51	327.38	596.72	121.79	453.81	47.58	281.70	327.40
54905	83.53	9.80	-13.00	206.04	68.38	469.31	85.87	359.71	331.41	594.31	111.67	455.66	62.54	292.18	331.35
54906	84.65	9.76	-13.00	236.17	69.96	486.80	94.91	367.71	336.36	593.70	101.52	457.89	77.55	303.78	336.24
54907	85.76	9.71	-13.00	266.51	73.15	507.53	104.53	377.68	342.38	594.21	91.93	460.72	92.14	316.58	342.19
54908	86.87	9.66	-13.00	295.68	78.50	531.67	114.56	389.72	349.78	594.58	83.87	464.57	106.21	330.61	349.53
54909	87.97	9.60	-13.00	321.16	86.79	559.65	125.01	403.29	359.52	592.24	79.00	470.16	119.81	345.30	359.19
54910	89.07	9.54	-13.00	338.47	98.74	591.18	134.62	415.70	372.74	582.59	79.92	478.18	131.57	358.05	372.33
54911	79.05	11.68	-13.00	118.19	59.94	488.84	46.90	298.68	309.09	569.96	133.86	503.17	58.32	216.29	309.47
54912	80.25	11.64	-13.00	131.92	59.88	491.12	51.51	300.88	310.79	566.03	126.90	503.32	46.72	223.32	311.03
54913	81.44	11.58	-13.00	154.91	60.41	496.69	60.23	305.01	314.09	564.96	119.20	503.08	45.43	232.05	314.22
54914	82.61	11.50	-13.00	183.14	61.54	505.27	71.18	311.42	318.81	566.06	110.97	502.42	53.45	242.61	318.87
54915	83.77	11.40	-13.00	213.99	63.32	516.71	83.18	320.20	324.77	568.96	102.38	501.43	66.36	254.96	324.78
54916	84.92	11.28	-13.00	245.92	65.80	530.94	95.52	331.52	331.95	573.23	93.72	500.27	81.01	269.17	331.91
54917	86.05	11.15	-13.00	277.83	69.08	548.03	107.72	345.70	340.37	578.25	85.36	499.16	95.89	285.50	340.29
54918	87.17	10.99	-13.00	308.35	73.35	568.42	119.43	363.13	350.23	582.77	77.89	498.62	110.30	304.52	350.11
54919	88.28	10.82	-13.00	334.35	79.16	593.11	130.54	383.40	362.61	583.62	72.22	499.65	123.96	325.24	362.44
54920	89.37	10.63	-13.00	348.37	87.43	621.77	138.68	401.80	378.13	573.26	70.25	503.22	134.20	343.70	377.88
54921	79.08	13.48	-13.00	120.10	78.45	551.03	18.40	275.58	288.74	517.88	131.33	563.77	88.29	197.62	288.99
54922	80.33	13.42	-13.00	133.75	77.92	552.46	28.86	277.54	290.59	519.34	125.56	563.13	74.10	203.75	290.76
54923	81.56	13.32	-13.00	157.00	77.55	556.42	43.75	281.46	294.41	523.34	118.84	561.43	66.75	211.55	294.52
54924	82.78	13.19	-13.00	185.52	77.35	562.67	59.40	287.78	300.02	529.00	111.40	558.67	67.09	221.30	300.09
54925	83.98	13.03	-13.00	216.48	77.35	571.06	75.03	296.57	307.23	535.86	103.36	554.92	74.02	232.98	307.28
54926	85.15	12.83	-13.00	248.23	77.62	581.53	90.39	308.02	316.08	543.49	94.91	550.29	85.21	246.68	316.11
54927	86.31	12.61	-13.00	279.61	78.27	594.13	105.28	322.54	326.65	551.28	86.35	544.91	98.59	262.79	326.69
54928	87.44	12.35	-13.00	309.32	79.40	609.23	119.46	340.75	339.19	558.07	78.06	539.06	112.79	281.94	339.23
54929	88.56	12.06	-13.00	334.21	81.27	627.97	132.58	362.60	354.97	560.73	70.59	533.49	126.86	304.15	355.03
54930	89.64	11.74	-13.00	344.74	84.57	649.52	140.41	382.11	373.40	549.65	65.56	528.61	136.03	323.56	373.43
54931	79.10	15.28	-13.00	120.51	123.87	607.55	9.59	265.45	280.10	463.57	152.27	619.06	109.27	191.08	280.19
54932	80.40	15.20	-13.00	133.03	122.65	608.52	23.28	267.06	281.70	468.92	147.80	617.98	94.37	196.12	281.76
54933	81.67	15.07	-13.00	154.91	120.37	611.25	39.42	270.47	285.33	476.31	141.65	615.21	84.50	202.70	285.37
54934	82.92	14.90	-13.00	181.95	116.98	615.55	55.46	276.08	290.81	484.84	133.88	610.78	80.48	211.09	290.84
54935	84.16	14.67	-13.00	211.19	112.52	621.32	71.27	283.93	297.98	493.93	124.49	604.76	82.48	221.23	298.01
54936	85.36	14.40	-13.00	240.80	107.19	628.43	86.86	294.10	306.96	503.03	113.54	597.17	89.58	233.17	307.01
54937	86.54	14.08	-13.00	269.45	101.33	636.80	102.23	306.83	318.03	511.41	101.18	588.00	100.33	247.14	318.10
54938	87.69	13.72	-13.00	295.72	95.42	646.43	117.24	322.53	331.68	517.90	87.70	577.17	113.32	263.59	331.79
54939	88.81	13.31	-13.00	317.00	90.05	657.70	131.35	341.11	349.47	519.91	73.57	564.56	127.14	282.52	349.64
54940	89.90	12.86	-13.00	325.67	87.23	668.73	139.36	357.35	370.53	509.74	62.17	549.28	135.93	298.80	370.71
54941	79.12	17.07	-13.00	118.84	168.32	666.80	35.25	265.04	278.57	408.88	182.31	677.16	126.46	193.13	278.57
54942	80.44	16.99	-13.00	129.73	166.99	667.38	39.32	266.20	280.04	416.78	179.27	675.77	111.52	196.90	280.04
54943	81.75	16.84	-13.00	149.34	163.54	668.85	47.60	268.77	283.32	426.20	173.77	672.00	99.91	201.98	283.33
54944	83.04	16.62	-13.00	173.87	157.62	671.06	58.02	273.11	288.19	436.26	165.50	665.85	92.28	208.56	288.20
54945	84.30	16.34	-13.00	200.33	149.24	673.90	69.67	279.19	294.56	446.27	154.33	657.36	89.34	216.56	294.57
54946	85.54	15.99	-13.00	226.73	138.61	677.22	82.18	286.97	302.67	455.57	140.23	646.50	91.36	225.88	302.69
54947	86.74	15.58	-13.00	251.59	126.16	680.81	95.32	296.44	312.92	463.36	123.30	633.19	97.89	236.52	312.95
54948	87.91	15.11	-13.00	273.52	112.55	684.37	108.80	307.64	326.01	468.58	103.69	617.11	107.89	248.57	326.07
54949	89.05	14.58	-13.00	290.75	98.94	687.44	121								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
54979	90.14	9.49	-14.33	518.17	144.10	620.31	208.42	453.57	434.91	761.92	86.17	494.07	205.86	432.72	434.75
54980	91.17	9.44	-14.33	514.61	192.55	646.18	203.18	479.11	474.93	728.57	146.80	499.90	202.56	457.69	474.80
54981	92.21	9.39	-14.33	478.42	231.56	665.36	171.37	494.16	503.33	662.25	195.49	500.86	171.28	472.24	503.30
54982	90.36	10.47	-14.33	588.06	146.00	650.67	227.37	440.60	431.57	813.50	93.23	521.15	226.26	419.45	431.44
54983	91.26	10.33	-14.33	569.48	193.44	670.55	220.01	483.62	488.48	770.30	150.34	523.99	220.02	462.12	488.36
54984	92.15	10.18	-14.33	493.69	235.01	680.80	182.31	505.09	529.50	670.18	199.55	520.81	182.40	483.26	529.48
54985	90.56	11.46	-14.33	622.85	136.03	673.96	246.11	446.76	433.88	830.00	76.20	542.07	244.36	425.37	433.86
54986	91.33	11.21	-14.33	597.79	153.08	684.97	227.80	502.06	496.87	785.73	100.50	538.38	227.03	480.57	496.85
54987	92.08	10.96	-14.33	541.69	200.38	694.85	202.02	539.84	551.49	709.85	157.34	536.41	202.00	518.23	551.49
54988	79.02	9.89	-14.33	133.69	166.73	461.59	131.78	304.58	303.93	704.79	222.34	475.35	21.85	273.01	304.00
54989	80.15	9.88	-14.33	150.90	165.49	464.45	133.85	307.06	306.04	696.38	213.61	476.01	42.86	277.65	306.08
54990	81.29	9.86	-14.33	179.23	162.37	470.48	137.54	311.66	310.05	691.50	202.84	476.65	63.98	284.29	310.06
54991	82.41	9.83	-14.33	214.26	157.88	479.48	142.63	318.24	315.46	690.50	190.23	477.29	83.95	292.74	315.45
54992	83.53	9.80	-14.33	253.56	152.15	491.31	148.93	326.91	322.37	693.53	175.72	477.95	102.83	303.04	322.35
54993	84.65	9.76	-14.33	296.01	145.30	505.82	156.26	337.99	330.99	700.60	159.17	478.71	120.80	315.46	330.95
54994	85.76	9.71	-14.33	341.21	137.51	522.94	164.45	352.02	341.65	711.71	140.28	479.69	138.02	330.51	341.60
54995	86.87	9.66	-14.33	389.14	129.31	542.72	173.48	369.85	354.93	726.76	118.68	481.11	154.77	349.01	354.87
54996	87.97	9.60	-14.33	439.44	122.26	565.56	183.85	392.86	371.98	745.11	94.17	483.50	171.81	372.31	371.89
54997	89.07	9.54	-14.33	488.84	121.92	592.09	198.42	422.29	398.08	763.16	71.14	487.78	192.03	401.70	397.95
54998	79.05	11.68	-14.33	143.99	73.97	516.53	53.47	231.32	247.06	654.10	155.08	528.87	64.37	201.54	247.13
54999	80.25	11.64	-14.33	163.08	74.50	518.50	60.94	233.72	249.40	655.39	145.38	528.65	52.75	205.85	249.45
55000	81.44	11.58	-14.33	194.42	75.94	523.17	73.60	239.04	254.72	659.22	134.99	527.95	55.44	212.98	254.74
55001	82.61	11.50	-14.33	232.82	78.33	530.35	88.99	246.92	261.94	666.30	123.98	526.78	68.95	222.46	261.94
55002	83.77	11.40	-14.33	275.62	81.70	539.89	105.90	257.46	271.20	676.99	112.47	525.19	87.55	234.36	271.19
55003	84.92	11.28	-14.33	321.76	86.06	551.66	123.75	271.10	282.80	691.52	100.72	523.23	108.21	249.06	282.78
55004	86.05	11.15	-14.33	371.16	91.45	565.61	142.26	288.65	297.18	710.26	89.09	521.01	129.77	267.37	297.15
55005	87.17	10.99	-14.33	424.65	97.93	581.91	161.41	311.63	315.00	734.07	78.21	518.75	151.95	290.77	314.97
55006	88.28	10.82	-14.33	484.37	105.93	601.39	182.02	343.21	337.55	764.83	69.23	517.16	175.62	322.46	337.49
55007	89.37	10.63	-14.33	552.02	119.13	625.79	210.44	388.78	376.07	804.01	66.97	517.91	207.15	367.87	375.98
55008	79.08	13.48	-14.33	152.91	111.07	568.31	15.59	221.72	228.11	598.60	164.69	579.49	104.89	193.51	228.15
55009	80.33	13.42	-14.33	171.42	109.70	569.73	33.59	223.37	229.87	606.90	155.51	578.73	90.07	196.81	229.90
55010	81.56	13.32	-14.33	202.71	108.84	573.33	54.84	228.12	235.00	616.96	145.56	576.99	84.54	203.10	235.02
55011	82.78	13.19	-14.33	241.32	108.41	578.95	76.28	235.47	242.11	629.56	134.73	574.33	88.58	211.77	242.12
55012	83.98	13.03	-14.33	284.41	108.45	586.45	97.75	245.44	251.41	645.14	123.09	570.80	100.25	222.83	251.42
55013	85.15	12.83	-14.33	330.77	109.12	595.73	119.35	258.46	263.23	663.95	110.78	566.46	116.91	236.67	263.24
55014	86.31	12.61	-14.33	380.24	110.65	606.71	141.29	275.37	278.11	686.43	98.16	561.35	136.71	254.11	278.12
55015	87.44	12.35	-14.33	433.96	113.33	619.51	164.02	297.88	296.89	713.84	85.85	555.60	158.92	276.87	296.89
55016	88.56	12.06	-14.33	495.68	117.28	634.88	188.99	330.29	320.82	749.90	74.85	549.61	184.38	309.29	320.84
55017	89.64	11.74	-14.33	575.47	124.17	654.93	225.78	382.91	366.80	804.40	67.63	544.77	222.63	361.65	366.82
55018	79.10	15.28	-14.33	161.78	192.37	618.77	20.25	213.69	221.92	543.29	218.29	629.03	134.45	186.71	221.94
55019	80.40	15.20	-14.33	178.63	190.46	619.76	35.80	215.05	223.27	556.28	211.45	627.85	118.84	189.44	223.28
55020	81.67	15.07	-14.33	208.20	187.19	622.45	56.23	219.40	227.97	570.67	202.61	625.17	110.24	195.05	227.97
55021	82.92	14.90	-14.33	245.21	182.64	626.44	77.31	226.28	234.68	587.00	191.78	621.10	109.19	203.01	234.68
55022	84.16	14.67	-14.33	286.60	176.78	631.93	98.55	235.72	243.60	605.48	178.80	615.71	115.24	213.31	243.60
55023	85.36	14.40	-14.33	330.74	169.67	638.72	120.00	248.07	255.11	626.13	163.52	609.03	127.08	226.29	255.11
55024	86.54	14.08	-14.33	376.93	161.55	646.72	141.92	264.02	269.81	648.97	145.78	601.10	143.32	242.65	269.81
55025	87.69	13.72	-14.33	425.32	152.81	655.87	164.93	284.94	288.73	674.44	125.31	591.88	163.31	263.76	288.75
55026	88.81	13.31	-14.33	477.70	144.12	666.40	191.01	314.16	313.67	704.41	101.47	581.26	188.13	293.00	313.71
55027	89.90	12.86	-14.33	540.79	135.84	678.49	228.81	361.08	361.90	745.35	70.91	568.61	226.11	339.76	361.97
55028	79.12	17.07	-14.33	172.25	286.59	672.63	56.81	208.99	224.14	490.73	297.85	682.06	161.12	182.79	224.14
55029	80.44	16.99	-14.33	186.93	284.80	673.22	63.50	210.22	225.31	506.77	293.13	680.53	145.76	185.10	225.31
55030	81.75	16.84	-14.33	213.82	280.05	674.76	75.67	214.16	229.44	524.16	285.05	676.95	135.61	190.05	229.44
55031	83.04	16.62	-14.33	248.22	272.20	677.22	90.64	220.53	235.53	543.03	273.43	671.46	131.04	197.31	235.52
55032	84.30	16.34	-14.33	286.85	261.02	680.53	107.13	229.36	243.73	563.22	257.90	664.10	132.11	206.87	243.73
55033	85.54	15.99	-14.33	327.58	246.46	684.57	124.60	240.91	254.44	584.38	238.18	654.89	138.40	218.97	254.43
55034	86.74	15.58	-14.33	368.99	228.55	689.22	142.89	255.61	268.28	605.99	213.90	643.85	149.19	234.07	268.27
55035	87.91	15.11	-14.33	409.95	207.31	694.30	162.14	274.24	286.33	627.39	184.24	630.85	163.88	252.94	286.33
55036	89.05	14.58	-14.33	449.56	182.61	699.50	183.28	298.31	310.61	647.82	147.15	615.49	182.71	277.16	310.63
55037	90.14	14.00	-14.33	488.17	153.33	703.77	208.55	332.21	352.70	667.45	96.22	596.41	207.42	311.11	352.73
55038	79.13	18.88	-14.33	184.60	397.65	733.38	116.41	238.99	245.28	443.52	401.73	742.07	203.76	213.05	245.29
55039	80.47	18.79	-14.33	197.65	397.31	733.64	118.32	239.75	246.72	462.77	399.92	740.32	188.40	214.61	246.73
55040	81.81	18.61	-14.33	222.57	392.41	734.08	121.82	242.28	250.23	483.40	393.35	735.86	175.80	217.95	250.24
55041	83.13	18.35	-14.33	255.08	381.58	734.65	126.61	246.61	255.14	504.88	380.60	728.74	166.21	223.06	255.15
55042	84.42	18.01	-14.33	291.37	364.63	735.28	132.78	252.73	261.64	526.60	361.31	718.98	159.96	229.89	261.65
55043	85.68	17.59	-14.33	328.73	341.86	735.91	140.39	260.73	270.15	547.86	335.57	706.65	157.38	238.50	270.15
55044	86.92	17.09	-14.33	365.20	313.31	736.43	149.40	270.81	281.22	567.78	303.15	691.77	158.66	249.10	281.21
55045	88.11	16.51	-14.33	398.92	278.71	736.64	159.65	283.34	295.69	585.05	263.18	674.26	163.66	262.06	295.68
55046	89.26	15.87	-14.33	427.60	237.43	736.12	170.74	298.85	315.07	597.66	213.75	653.81			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
55077	75.64	9.87	-11.67	117.29	55.10	436.46	48.91	363.76	323.89	570.85	142.06	437.51	95.86	210.46	325.94
55078	74.52	9.85	-11.67	134.96	56.07	448.42	55.76	367.02	325.25	590.32	145.40	436.00	116.36	209.26	327.78
55079	73.40	9.82	-11.67	154.82	57.27	463.98	63.10	371.25	327.21	612.31	148.04	434.62	138.49	211.22	330.22
55080	72.28	9.78	-11.67	175.31	58.76	482.95	70.52	376.32	329.80	636.95	149.99	433.51	162.13	217.14	333.24
55081	71.17	9.74	-11.67	195.07	60.63	505.15	77.72	381.99	333.09	664.53	151.29	432.95	187.14	227.81	336.85
55082	70.06	9.69	-11.67	212.62	62.99	530.37	84.45	387.63	337.21	695.67	152.01	433.39	213.24	243.88	341.07
55083	68.95	9.63	-11.67	226.35	65.96	558.02	90.29	391.94	342.29	731.25	152.25	435.55	239.75	265.45	345.90
55084	67.85	9.56	-11.67	235.23	69.53	586.43	94.56	393.12	348.16	771.70	152.01	439.91	265.65	292.29	351.03
55085	77.87	11.69	-11.67	93.24	50.85	473.25	34.52	332.22	323.84	489.21	120.63	488.36	71.15	200.11	324.88
55086	76.70	11.67	-11.67	100.84	51.27	476.74	38.97	333.78	324.29	499.10	123.77	486.07	88.27	195.68	325.64
55087	75.54	11.62	-11.67	115.28	51.91	483.46	45.65	336.81	325.51	511.21	126.08	483.20	107.23	193.62	327.20
55088	74.38	11.55	-11.67	133.83	52.76	493.27	53.40	341.28	327.42	525.81	127.56	479.68	127.66	194.47	329.47
55089	73.23	11.46	-11.67	154.30	53.84	506.07	61.49	347.09	329.98	543.08	128.22	475.56	149.42	198.85	332.35
55090	72.08	11.35	-11.67	175.06	55.16	521.77	69.43	354.10	333.14	563.32	128.11	470.97	172.41	207.50	335.76
55091	70.94	11.21	-11.67	194.62	56.78	540.29	76.87	362.05	336.84	587.14	127.32	466.17	196.61	221.20	339.56
55092	69.81	11.06	-11.67	211.31	58.77	561.59	83.49	370.15	341.08	615.68	126.03	461.66	221.89	240.38	343.70
55093	68.70	10.88	-11.67	223.12	61.27	585.04	88.80	376.44	345.75	650.64	124.53	458.35	247.83	264.47	347.98
55094	67.59	10.68	-11.67	229.24	64.44	608.44	92.27	378.43	350.40	692.73	123.24	457.04	273.71	292.62	351.92
55095	77.85	13.49	-11.67	89.44	53.93	534.61	20.28	310.28	314.68	436.17	109.35	548.10	86.82	186.16	315.36
55096	76.64	13.45	-11.67	97.35	53.80	537.15	27.24	311.89	315.55	441.77	110.78	545.21	103.65	182.69	316.41
55097	75.43	13.37	-11.67	111.93	53.68	541.91	36.35	315.04	317.39	449.50	111.25	540.90	121.84	181.68	318.47
55098	74.24	13.26	-11.67	130.31	53.62	548.79	46.00	319.70	320.14	459.70	110.73	535.07	141.12	183.65	321.42
55099	73.05	13.10	-11.67	150.28	53.69	557.74	55.58	325.72	323.76	472.67	109.27	527.74	161.33	189.16	325.20
55100	71.87	12.91	-11.67	170.19	53.95	568.69	64.75	333.00	328.18	488.88	106.97	518.96	182.43	198.95	329.68
55101	70.71	12.69	-11.67	188.59	54.51	581.61	73.22	341.31	333.32	509.14	104.02	508.90	204.43	213.76	334.74
55102	69.57	12.43	-11.67	203.80	55.48	596.50	80.60	349.87	339.07	534.96	100.67	497.88	227.47	233.97	340.22
55103	68.44	12.13	-11.67	213.70	57.03	612.77	86.12	356.46	344.98	568.59	97.26	486.77	251.57	258.67	345.72
55104	67.34	11.80	-11.67	217.95	59.46	628.19	89.28	358.44	350.08	610.61	94.48	476.84	276.65	287.12	350.35
55105	77.82	15.29	-11.67	84.06	65.74	594.28	8.54	297.17	302.94	381.73	102.94	606.28	99.14	180.01	303.21
55106	76.57	15.23	-11.67	91.81	64.82	595.85	19.11	298.52	304.03	383.98	102.58	602.76	115.09	177.40	304.38
55107	75.33	15.12	-11.67	105.70	63.34	598.74	29.52	301.20	306.18	388.24	100.93	597.13	131.94	177.04	306.61
55108	74.09	14.96	-11.67	122.94	61.37	602.88	39.61	305.11	309.29	394.92	97.99	589.29	149.52	179.40	309.80
55109	72.87	14.75	-11.67	141.41	59.06	608.14	49.36	310.10	313.37	404.42	93.91	579.17	167.79	184.98	313.90
55110	71.67	14.48	-11.67	159.54	56.69	614.38	58.73	316.06	318.45	417.33	88.93	566.75	186.74	194.44	318.93
55111	70.48	14.16	-11.67	175.98	54.64	621.48	67.56	322.73	324.57	434.57	83.42	552.01	206.45	208.44	324.87
55112	69.32	13.80	-11.67	189.33	53.36	629.28	75.43	329.48	331.74	457.62	77.81	535.02	227.24	227.36	331.75
55113	68.18	13.38	-11.67	197.94	53.31	637.17	81.32	334.47	339.42	488.65	72.65	516.32	249.50	250.50	339.17
55114	67.08	12.92	-11.67	201.72	54.88	643.48	84.47	333.66	346.04	528.33	68.49	497.37	273.41	277.43	345.77
55115	77.80	17.08	-11.67	75.39	72.43	647.45	15.60	291.58	285.72	327.08	95.18	658.00	104.42	179.86	285.75
55116	76.51	17.01	-11.67	82.51	71.12	648.03	21.20	292.37	287.04	327.31	93.36	653.84	118.90	178.03	287.06
55117	75.23	16.87	-11.67	94.99	68.81	649.08	28.17	293.95	289.40	329.34	89.95	646.94	133.84	178.02	289.40
55118	73.95	16.66	-11.67	110.35	65.45	650.49	35.67	296.28	292.70	333.67	84.97	637.22	149.28	180.30	292.66
55119	72.70	16.39	-11.67	126.61	61.21	652.10	43.50	299.23	297.00	340.80	78.62	624.57	165.31	185.30	296.87
55120	71.46	16.04	-11.67	142.36	56.48	653.74	51.57	302.64	302.46	351.34	71.30	608.94	182.04	193.56	302.20
55121	70.25	15.64	-11.67	156.52	51.91	655.22	59.65	306.31	309.29	366.11	63.56	590.30	199.67	205.61	308.85
55122	69.07	15.17	-11.67	168.11	48.44	656.27	67.26	309.82	317.66	386.35	56.24	568.57	218.59	221.85	317.08
55123	67.93	14.63	-11.67	176.22	47.13	656.33	73.35	312.13	327.24	413.74	50.46	543.99	239.38	242.13	326.72
55124	66.82	14.04	-11.67	180.86	48.47	654.43	76.92	312.19	336.46	449.41	47.41	517.85	262.27	266.69	336.49
55125	77.78	18.88	-11.67	62.63	61.40	681.22	22.48	291.16	246.05	273.36	75.09	690.50	97.36	182.81	246.05
55126	76.45	18.79	-11.67	68.43	60.27	681.17	24.74	290.96	247.92	273.45	72.60	686.23	110.05	181.76	247.88
55127	75.12	18.62	-11.67	78.65	58.15	680.92	27.97	290.80	251.31	275.00	68.59	678.86	123.05	181.99	251.16
55128	73.81	18.37	-11.67	91.29	54.91	680.22	32.17	290.81	256.00	278.54	63.15	668.21	136.63	184.06	255.67
55129	72.52	18.03	-11.67	104.70	50.66	679.01	37.32	290.93	262.05	284.58	56.57	654.22	150.94	188.32	261.50
55130	71.25	17.61	-11.67	117.79	45.80	677.21	43.31	291.04	269.65	293.58	49.37	636.93	166.12	195.12	268.89
55131	70.02	17.11	-11.67	129.84	41.10	674.68	49.91	291.07	278.98	306.17	42.36	616.33	182.40	204.92	278.10
55132	68.82	16.54	-11.67	140.32	37.79	671.18	56.60	290.89	290.17	323.26	36.99	592.38	200.23	218.18	289.42
55133	67.67	15.88	-11.67	148.81	37.32	666.29	62.49	290.25	303.04	346.18	35.29	565.18	220.17	235.30	302.84
55134	66.56	15.16	-11.67	155.27	40.08	659.49	66.66	289.04	316.31	376.74	38.05	535.57	242.71	256.91	317.39
55135	61.65	9.56	-11.67	209.04	80.66	658.13	89.24	338.33	338.28	1070.46	90.75	432.43	426.69	632.35	382.81
55136	62.26	10.65	-11.67	183.90	76.65	642.42	87.22	325.30	338.33	843.34	65.26	436.68	407.27	532.57	373.79
55137	62.94	11.70	-11.67	169.56	69.00	635.09	82.43	309.16	337.02	670.15	53.78	448.27	367.11	447.41	359.44
55138	62.67	9.48	-11.67	223.82	80.39	656.45	88.34	358.86	347.05	1005.34	115.46	444.43	391.13	556.22	364.20
55139	63.09	10.44	-11.67	205.21	76.65	645.62	87.73	344.08	345.95	847.75	87.54	446.55	384.08	491.22	360.95
55140	63.56	11.36	-11.67	191.14	70.37	640.52	84.99	327.06	344.88	710.01	65.23	453.40	362.19	429.76	356.10
55141	63.68	9.41	-11.67	234.69	79.99	651.04	89.71	369.62	354.00	954.12	132.61	450.70	361.14	483.12	358.89
55142	63.92	10.23	-11.67	220.35	76.33	645.98	89.17	356.19	351.63	845.49	106.68	452.51	360.83	446.86	356.45
55143	64.18	11.03	-11.67	205.58	71.07	643.30	86.56	342.91	351.21	742.60	83.08	456.78	352.91	408.14	355.64
55144	65.54	14.38	-11.67	159.65	45.09	651.09	69.02	287.88	327.34	416.39	43.73	506.57	266.88	285.13	330.15
55145	65.85	13.43	-11.67	182.98	51.91	650.51	78.07	311.20	34						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
55175	74.38	11.55	-13.00	176.95	65.46	506.85	72.04	311.30	316.81	616.12	152.68	494.72	146.53	212.63	317.93
55176	73.23	11.46	-13.00	207.39	68.07	518.11	83.13	319.86	321.82	634.33	155.21	490.80	174.05	219.74	323.16
55177	72.08	11.35	-13.00	239.68	71.19	532.08	94.47	330.88	328.16	654.49	157.00	486.26	203.43	231.49	329.69
55178	70.94	11.21	-13.00	272.58	74.86	548.90	105.61	344.75	335.90	676.27	158.20	481.20	234.74	249.09	337.56
55179	69.81	11.06	-13.00	304.64	79.26	569.04	116.23	361.92	345.24	699.78	159.08	475.89	268.20	273.96	346.93
55180	68.70	10.88	-13.00	332.77	84.90	593.57	126.26	382.02	357.26	726.83	160.37	471.11	304.08	306.87	358.88
55181	67.59	10.68	-13.00	349.68	92.66	622.30	133.40	400.43	372.63	763.36	163.02	469.26	340.62	344.33	374.00
55182	77.85	13.49	-13.00	119.56	78.74	551.67	20.85	275.50	288.87	519.18	135.81	562.99	106.67	193.39	289.22
55183	76.64	13.45	-13.00	131.59	78.80	553.95	32.33	277.71	290.68	523.55	138.97	560.66	127.34	191.73	291.15
55184	75.43	13.37	-13.00	152.77	78.88	558.20	45.94	282.13	293.85	530.98	140.93	557.02	150.04	192.82	294.46
55185	74.24	13.26	-13.00	179.66	79.05	564.46	60.09	288.52	298.43	540.99	141.74	552.01	174.42	196.86	299.18
55186	73.05	13.10	-13.00	209.81	79.44	572.72	74.22	297.06	304.61	553.35	141.49	545.62	200.24	204.54	305.48
55187	71.87	12.91	-13.00	241.56	80.20	582.95	88.07	308.07	312.52	567.87	140.32	537.86	227.31	216.84	313.46
55188	70.71	12.69	-13.00	273.62	81.48	595.27	101.48	322.05	322.30	584.47	138.45	528.69	255.48	235.03	323.23
55189	69.57	12.43	-13.00	304.61	83.36	610.07	114.23	339.72	334.19	603.52	136.14	518.06	284.73	260.77	334.99
55190	68.44	12.13	-13.00	331.52	86.08	628.57	126.07	361.17	349.51	627.38	133.84	506.09	315.55	295.24	350.06
55191	67.34	11.80	-13.00	345.12	90.11	650.13	132.97	380.56	367.75	664.77	132.33	494.81	347.06	333.88	368.06
55192	77.82	15.29	-13.00	120.44	123.83	607.98	14.13	265.48	280.41	460.71	154.83	618.16	127.31	187.73	280.55
55193	76.57	15.23	-13.00	132.14	122.52	609.50	27.96	267.57	282.33	460.66	155.39	615.28	147.12	186.73	282.53
55194	75.33	15.12	-13.00	152.31	120.28	612.44	42.24	271.67	285.57	463.41	154.18	610.64	168.53	188.27	285.85
55195	74.09	14.96	-13.00	177.80	117.06	616.79	56.46	277.51	290.19	468.66	151.16	604.13	191.33	192.53	290.56
55196	72.87	14.75	-13.00	206.17	112.93	622.49	70.46	285.22	296.43	476.38	146.35	595.72	215.27	200.12	296.87
55197	71.67	14.48	-13.00	235.63	108.11	629.45	84.23	295.03	304.51	486.70	139.95	585.33	240.13	211.88	304.95
55198	70.48	14.16	-13.00	264.77	103.00	637.64	97.76	307.26	314.74	499.89	132.31	572.81	265.65	228.84	315.11
55199	69.32	13.80	-13.00	292.12	98.17	647.09	111.00	322.41	327.66	516.71	123.94	557.82	291.62	252.32	327.82
55200	68.18	13.38	-13.00	315.18	94.17	658.23	123.52	340.52	344.85	539.64	115.39	539.67	318.41	283.37	344.77
55201	67.08	12.92	-13.00	326.65	92.82	669.36	130.45	356.51	365.58	576.29	108.03	518.87	346.05	317.91	365.41
55202	77.80	17.08	-13.00	119.13	168.00	666.94	36.71	265.14	278.89	402.89	183.23	676.03	143.47	190.74	278.91
55203	76.51	17.01	-13.00	130.01	165.97	667.67	42.28	266.81	280.79	399.29	181.86	672.45	161.60	190.25	280.84
55204	75.23	16.87	-13.00	148.65	162.24	669.22	50.16	270.09	283.91	398.11	178.14	666.61	180.83	191.98	283.98
55205	73.95	16.66	-13.00	172.12	156.44	671.48	59.36	274.77	288.21	399.42	171.73	658.35	201.10	196.10	288.31
55206	72.70	16.39	-13.00	197.95	148.43	674.32	69.40	280.89	293.90	403.49	162.52	647.59	222.33	203.10	294.02
55207	71.46	16.04	-13.00	224.26	138.42	677.60	80.05	288.50	301.30	410.69	150.63	634.23	244.38	213.54	301.39
55208	70.25	15.64	-13.00	249.55	126.87	681.15	91.20	297.67	310.87	421.60	136.37	618.11	267.08	228.08	310.87
55209	69.07	15.17	-13.00	272.37	114.52	684.70	102.69	308.47	323.33	437.28	120.20	598.84	290.34	247.48	323.19
55210	67.93	14.63	-13.00	291.01	102.49	687.82	113.78	320.71	340.23	459.91	102.78	575.53	314.45	272.32	339.99
55211	66.82	14.04	-13.00	301.75	94.10	688.27	120.36	331.64	361.54	494.17	87.24	547.66	339.42	300.76	361.46
55212	77.78	18.88	-13.00	110.67	184.16	722.85	56.72	280.45	266.22	345.52	191.44	730.91	147.26	208.09	266.22
55213	76.45	18.79	-13.00	120.14	182.65	723.01	58.23	280.97	268.59	340.26	189.87	726.89	163.12	207.69	268.58
55214	75.12	18.62	-13.00	136.60	179.09	723.24	60.40	282.23	272.24	336.99	185.72	720.00	179.59	208.77	272.20
55215	73.81	18.37	-13.00	157.37	172.55	723.27	63.50	284.28	276.79	336.26	178.18	710.00	196.98	211.69	276.71
55216	72.52	18.03	-13.00	179.96	162.92	722.98	67.79	287.06	282.50	338.50	167.19	696.82	215.31	216.74	282.35
55217	71.25	17.61	-13.00	202.63	150.55	722.31	73.47	290.51	289.79	344.08	152.95	680.46	234.57	224.25	289.65
55218	70.02	17.11	-13.00	224.15	135.93	721.09	80.60	294.64	299.15	353.53	135.69	660.86	254.80	234.67	298.82
55219	68.82	16.54	-13.00	243.49	119.80	718.97	88.90	299.50	311.24	367.84	115.61	637.79	276.18	248.55	310.88
55220	67.67	15.88	-13.00	259.72	103.50	715.35	97.36	305.03	327.17	388.57	93.19	610.71	299.02	266.41	326.93
55221	66.56	15.16	-13.00	271.64	90.60	708.55	103.10	310.65	347.27	418.36	71.58	579.10	323.41	288.19	347.47
55222	61.65	9.56	-13.00	300.46	136.39	693.34	108.87	414.74	378.57	967.70	168.07	444.27	487.13	680.84	404.32
55223	62.26	10.65	-13.00	273.02	128.90	676.58	107.00	395.69	383.24	824.08	123.77	464.39	469.71	575.65	401.39
55224	62.94	11.70	-13.00	262.56	118.13	668.12	102.86	372.88	379.99	695.22	88.79	482.82	435.95	488.69	388.60
55225	62.67	9.48	-13.00	322.46	136.95	677.09	107.24	425.01	389.12	986.03	191.56	455.81	471.46	604.50	398.73
55226	63.09	10.44	-13.00	302.42	127.66	666.26	108.56	407.75	394.30	863.67	151.03	470.81	458.55	538.16	401.83
55227	63.56	11.36	-13.00	293.35	117.86	660.55	108.15	383.77	389.28	744.86	114.57	481.37	437.48	472.52	393.65
55228	63.68	9.41	-13.00	337.49	138.52	667.68	111.13	422.60	399.72	988.28	206.42	465.50	448.11	528.96	402.28
55229	63.92	10.23	-13.00	324.08	126.09	665.68	114.55	407.93	402.68	887.33	169.51	476.87	440.55	491.88	404.91
55230	64.18	11.03	-13.00	326.02	116.03	665.11	120.59	385.22	391.75	774.02	135.77	481.98	429.44	444.49	393.43
55231	65.54	14.38	-13.00	278.48	86.08	697.20	103.45	316.97	368.15	457.58	57.64	545.35	347.40	316.41	368.89
55232	65.85	13.43	-13.00	304.82	92.50	683.33	119.63	339.57	381.14	537.12	78.68	519.64	363.12	330.67	381.39
55233	66.15	12.48	-13.00	326.37	95.00	675.11	129.07	364.07	382.08	619.73	104.90	500.75	370.17	347.56	382.04
55234	64.60	13.56	-13.00	278.36	89.73	682.52	99.98	328.86	383.02	512.53	56.21	515.05	372.39	356.25	384.66
55235	65.01	12.81	-13.00	302.97	96.53	673.52	113.75	349.03	392.46	589.90	80.54	497.55	386.06	365.82	393.29
55236	65.40	12.07	-13.00	322.94	99.44	673.49	122.96	368.11	391.02	664.54	107.38	488.32	391.82	374.37	391.27
55237	63.72	12.67	-13.00	269.31	101.57	669.92	98.62	348.43	384.46	589.37	65.71	495.07	401.25	412.23	387.75
55238	64.20	12.15	-13.00	293.44	107.50	662.90	108.35	362.38	391.89	655.81	91.67	485.82	412.77	411.24	393.71
55239	64.68	11.64	-13.00	312.95	113.64	667.71	113.69	370.06	389.88	717.28	123.74	484.42	418.85	404.72	390.78
55240	66.78	9.50	-14.33	522.29	151.18	620.16	205.17	447.59	428.55	977.89	262.76	469.70	440.82	432.26	428.98
55241	65.74	9.45	-14.33	521.72	192.30	646.06	198.83	473.13	468.13	1019.19	290.39	475.38	498.07	472.18	468.30
55242	64.70	9.40	-14.33	489.94	227.49	665.51	167.77	488.77	496.24	1072.00	313.59	479.27	537.22		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
55273	73.05	13.10	-14.33	276.56	113.15	587.48	96.90	245.97	250.39	634.05	183.20	565.07	241.42	211.14	250.56
55274	71.87	12.91	-14.33	322.86	114.30	596.56	116.99	257.86	260.92	647.76	183.18	558.81	276.22	223.21	261.11
55275	70.71	12.69	-14.33	372.93	116.35	607.32	137.43	273.61	274.61	660.98	182.61	551.42	312.99	240.27	274.79
55276	69.57	12.43	-14.33	427.59	119.62	619.90	158.66	294.92	292.29	670.93	181.99	542.79	351.53	264.43	292.45
55277	68.44	12.13	-14.33	490.34	124.23	635.04	182.09	326.10	315.18	672.10	181.83	532.64	392.21	300.58	315.27
55278	67.34	11.80	-14.33	571.12	131.89	654.94	217.45	377.54	360.08	653.11	184.54	521.40	442.78	360.00	360.14
55279	77.82	15.29	-14.33	163.13	192.31	619.11	25.48	215.12	224.07	536.72	222.15	628.50	155.29	186.74	224.10
55280	76.57	15.23	-14.33	178.69	190.59	620.48	40.82	218.20	227.09	536.59	223.28	626.21	178.90	188.42	227.12
55281	75.33	15.12	-14.33	205.50	187.85	623.22	59.22	222.58	230.73	538.70	222.49	622.37	205.42	191.60	230.79
55282	74.09	14.96	-14.33	240.37	183.86	627.31	78.39	228.84	236.30	543.13	219.45	616.99	234.43	196.99	236.38
55283	72.87	14.75	-14.33	280.62	178.55	632.70	97.81	237.43	244.05	549.70	214.02	610.07	265.57	205.23	244.15
55284	71.67	14.48	-14.33	324.52	172.02	639.33	117.44	248.83	254.41	557.84	206.26	601.61	298.53	217.07	254.52
55285	70.48	14.16	-14.33	371.13	164.57	647.14	137.51	263.78	267.99	566.65	196.43	591.56	332.86	233.51	268.09
55286	69.32	13.80	-14.33	420.34	156.67	656.12	158.62	283.62	285.84	574.51	185.01	579.73	367.79	256.28	285.90
55287	68.18	13.38	-14.33	473.72	149.04	666.50	182.68	311.69	309.66	578.14	172.86	565.47	402.12	289.25	309.63
55288	67.08	12.92	-14.33	538.08	141.92	678.49	218.37	357.52	356.70	570.53	160.22	547.36	437.50	342.71	356.62
55289	77.80	17.08	-14.33	173.66	285.67	672.78	58.46	210.19	225.88	479.91	299.17	681.38	180.59	182.91	225.88
55290	76.51	17.01	-14.33	188.13	282.76	673.53	65.93	212.95	228.60	474.01	297.72	678.50	202.65	184.64	228.61
55291	75.23	16.87	-14.33	213.32	278.14	675.17	77.59	217.14	232.17	470.18	293.78	673.64	227.37	188.00	232.20
55292	73.95	16.66	-14.33	246.23	270.80	677.67	91.47	223.23	237.54	468.77	286.30	666.78	254.35	193.61	237.58
55293	72.70	16.39	-14.33	284.03	260.25	680.93	106.54	231.55	244.93	469.85	274.72	657.90	283.28	201.96	245.00
55294	71.46	16.04	-14.33	324.60	246.40	684.88	122.35	242.46	254.78	473.28	258.84	646.99	313.77	213.62	254.86
55295	70.25	15.64	-14.33	366.42	229.34	689.42	138.79	256.44	267.74	478.88	238.51	633.99	345.36	229.31	267.81
55296	69.07	15.17	-14.33	408.25	209.15	694.42	156.08	274.27	284.92	486.57	213.49	618.75	377.24	253.13	284.95
55297	67.93	14.63	-14.33	449.04	185.78	699.58	175.22	297.51	308.32	496.46	183.10	600.60	408.10	278.00	308.29
55298	66.82	14.04	-14.33	489.32	157.66	703.81	198.40	330.64	349.59	509.26	144.41	578.02	436.48	318.06	349.56
55299	77.78	18.88	-14.33	185.68	396.38	733.35	116.68	239.57	246.10	427.11	401.53	741.17	221.43	212.94	246.10
55300	76.45	18.79	-14.33	199.47	394.09	733.51	118.66	241.23	248.50	413.76	399.73	737.66	240.79	214.03	248.50
55301	75.12	18.62	-14.33	224.06	388.81	733.97	122.11	244.13	251.97	402.73	394.36	731.60	261.90	216.59	251.97
55302	73.81	18.37	-14.33	256.12	378.17	734.56	126.68	248.51	256.64	394.81	383.08	722.89	284.68	221.01	256.65
55303	72.52	18.03	-14.33	292.15	361.72	735.19	132.23	254.51	262.78	390.24	365.35	711.50	308.87	227.54	262.79
55304	71.25	17.61	-14.33	329.59	339.64	735.81	138.75	262.26	270.86	389.13	341.19	697.47	334.19	236.48	270.87
55305	70.02	17.11	-14.33	366.48	312.02	736.33	146.25	272.01	281.46	391.92	310.33	680.82	360.29	248.25	281.45
55306	68.82	16.54	-14.33	400.96	278.57	736.55	154.69	284.14	295.44	399.60	271.90	661.46	386.70	263.46	295.42
55307	67.67	15.88	-14.33	430.70	238.67	736.07	163.82	299.18	314.38	414.26	224.04	639.08	412.54	282.91	314.35
55308	66.56	15.16	-14.33	453.56	190.29	733.85	171.70	318.64	343.45	440.15	161.86	612.92	435.75	308.31	343.46
55309	61.65	9.56	-14.33	450.26	186.98	721.14	145.11	450.53	419.09	902.74	268.60	466.04	574.18	571.22	423.56
55310	62.26	10.65	-14.33	349.85	190.26	714.90	111.62	428.29	410.74	906.14	204.57	496.85	592.89	507.47	413.45
55311	62.94	11.70	-14.33	302.10	171.47	708.99	103.27	440.25	426.13	853.56	139.13	518.94	534.88	490.20	426.52
55312	62.67	9.48	-14.33	422.89	179.89	695.08	118.91	471.40	445.31	1059.67	272.75	472.03	572.27	551.35	447.08
55313	63.09	10.44	-14.33	344.78	187.21	693.33	97.19	469.88	457.03	1027.72	228.65	498.01	591.19	527.09	458.31
55314	63.56	11.36	-14.33	307.42	169.82	690.90	97.64	480.99	479.57	950.42	171.86	514.17	538.03	529.67	479.86
55315	63.68	9.41	-14.33	433.29	205.10	676.94	119.78	488.00	484.42	1116.79	292.62	477.79	558.18	535.38	484.93
55316	63.92	10.23	-14.33	391.45	209.86	681.91	106.82	495.69	509.29	1050.31	261.88	499.10	581.13	533.60	509.70
55317	64.18	11.03	-14.33	343.83	179.50	681.41	97.21	532.44	538.48	995.15	205.87	513.95	556.60	558.04	538.66
55318	65.54	14.38	-14.33	453.51	150.98	727.91	165.21	343.52	381.96	492.88	100.03	584.07	449.09	342.19	382.00
55319	65.85	13.43	-14.33	497.97	147.26	703.39	202.19	373.21	407.17	555.54	122.81	554.01	450.62	369.81	407.17
55320	66.15	12.48	-14.33	566.25	145.77	686.25	235.05	415.19	424.99	595.31	157.30	529.90	458.61	409.94	424.93
55321	64.60	13.56	-14.33	421.24	144.56	718.63	144.29	376.16	419.53	581.97	84.75	555.82	456.43	386.21	419.57
55322	65.01	12.81	-14.33	459.28	159.60	697.71	180.29	420.54	461.73	648.35	136.18	532.59	454.06	427.25	461.80
55323	65.40	12.07	-14.33	527.96	152.91	687.18	215.75	471.05	487.18	677.25	163.23	517.52	464.60	474.30	487.21
55324	63.72	12.67	-14.33	358.50	151.82	709.92	123.70	416.66	438.91	709.13	98.97	533.04	471.57	441.85	438.75
55325	64.20	12.15	-14.33	388.65	158.52	691.90	142.61	467.91	491.48	777.28	139.96	518.48	468.42	487.73	491.42
55326	64.68	11.64	-14.33	455.61	166.18	682.86	178.30	522.03	536.34	794.16	181.95	505.72	474.07	537.37	536.43
55327	90.12	-9.50	-11.67	229.04	68.88	608.92	102.25	386.67	362.14	421.25	61.06	473.25	98.77	297.79	361.93
55328	91.16	-9.45	-11.67	226.44	71.17	627.06	102.63	380.96	365.93	398.54	57.38	472.45	99.79	291.24	365.89
55329	92.20	-9.40	-11.67	221.47	72.37	637.90	100.55	375.56	366.73	373.63	54.34	466.43	98.61	284.91	366.91
55330	90.31	-10.51	-11.67	222.08	62.99	624.39	100.62	372.53	360.88	401.29	58.25	486.71	96.44	283.20	360.84
55331	91.22	-10.36	-11.67	217.85	65.34	634.67	100.73	367.09	362.58	380.68	54.07	481.26	97.57	277.25	362.65
55332	92.12	-10.20	-11.67	212.76	67.49	639.23	99.70	363.13	362.29	359.69	51.00	472.26	97.71	272.75	362.51
55333	90.50	-11.51	-11.67	211.53	56.48	636.50	98.36	354.18	358.75	377.48	53.08	499.34	94.29	264.59	358.92
55334	91.27	-11.26	-11.67	207.33	58.76	639.99	98.12	350.47	360.04	360.68	49.39	489.57	95.05	260.74	360.22
55335	92.04	-10.99	-11.67	205.24	62.28	640.59	98.14	348.52	360.04	345.89	47.43	478.69	96.41	258.61	360.28
55336	79.01	-9.90	-11.67	97.57	53.37	423.97	38.32	359.99	323.50	525.34	127.52	442.74	46.90	226.90	324.35
55337	80.14	-9.89	-11.67	106.03	53.18	428.03	40.65	360.43	324.75	514.68	121.56	444.75	38.07	234.84	325.33
55338	81.26	-9.87	-11.67	120.34	53.24	436.01	45.63	361.95	326.57	505.74	115.07	446.81	35.99	243.67	326.93
55339	82.38	-9.85	-11.67	138.15	53.62	447.73	52.41	364.54	328.91	498.17	108.14	448.99	40.47	253.14	329.10
55340	83.50	-9.82	-11.67	157.58	54.38	463.05	60.26	368.15	331.77	491.57	100.90	451.39	4		

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
55371	85.23	-14.48	-11.67	161.31	57.74	613.64	59.90	313.99	320.75	387.88	80.30	584.39	58.80	220.01	320.93
55372	86.42	-14.16	-11.67	177.13	54.52	620.70	70.59	320.52	327.26	387.07	72.98	573.38	65.93	228.61	327.48
55373	87.58	-13.80	-11.67	189.52	51.54	628.47	80.34	327.26	334.79	383.29	65.23	560.20	74.61	236.75	335.06
55374	88.72	-13.38	-11.67	196.62	49.48	636.28	88.00	332.38	342.84	374.76	57.71	544.72	82.64	242.69	343.15
55375	89.82	-12.92	-11.67	198.27	48.98	642.34	92.59	333.91	349.86	361.36	50.88	526.78	88.32	244.52	350.17
55376	79.10	-17.08	-11.67	75.80	72.75	647.41	14.09	291.41	285.80	328.92	95.55	659.69	90.60	182.75	285.84
55377	80.39	-17.01	-11.67	83.48	72.12	647.92	18.17	291.84	287.38	331.09	94.47	658.29	77.97	186.57	287.41
55378	81.67	-16.87	-11.67	96.27	70.34	648.92	25.26	293.09	289.99	333.86	91.96	654.13	67.06	191.18	290.03
55379	82.95	-16.66	-11.67	111.66	67.27	650.28	33.73	295.14	293.57	336.71	87.91	647.19	58.97	196.37	293.61
55380	84.20	-16.39	-11.67	127.76	62.95	651.84	43.03	297.86	298.16	339.18	82.24	637.42	54.99	201.87	298.21
55381	85.44	-16.04	-11.67	143.18	57.62	653.46	52.87	301.13	303.92	340.68	75.05	624.76	55.87	207.48	303.99
55382	86.65	-15.64	-11.67	156.81	51.79	654.93	62.90	304.74	311.06	340.57	66.64	609.13	61.08	212.96	311.16
55383	87.83	-15.17	-11.67	167.62	46.35	655.96	72.49	308.30	319.74	337.99	57.63	590.39	68.87	217.96	319.88
55384	88.97	-14.63	-11.67	174.54	42.60	655.94	80.41	310.79	329.63	331.98	49.17	568.29	76.79	221.48	329.81
55385	90.08	-14.04	-11.67	177.53	41.66	653.80	85.40	311.17	339.21	322.51	42.48	542.99	82.70	222.53	339.39
55386	79.12	-18.88	-11.67	62.91	61.58	681.26	21.65	291.01	246.18	274.91	76.14	691.91	84.91	184.36	246.17
55387	80.45	-18.79	-11.67	69.09	60.89	681.25	22.72	290.54	248.30	276.85	76.06	690.00	72.92	186.15	248.24
55388	81.78	-18.62	-11.67	79.54	59.11	681.02	25.71	290.17	251.94	279.40	74.81	684.89	62.15	188.36	251.79
55389	83.09	-18.37	-11.67	92.18	56.02	680.35	30.54	290.05	256.86	282.05	72.08	676.43	53.65	190.91	256.61
55390	84.38	-18.03	-11.67	105.40	51.61	679.15	36.96	290.08	263.12	284.36	67.66	664.66	48.72	193.58	262.78
55391	85.65	-17.61	-11.67	118.13	46.12	677.36	44.64	290.15	270.92	285.99	61.61	649.59	48.44	196.12	270.50
55392	86.88	-17.11	-11.67	129.67	40.11	674.84	53.13	290.20	280.42	286.59	54.26	631.19	52.68	198.41	279.97
55393	88.08	-16.54	-11.67	139.44	34.75	671.32	61.75	290.13	291.80	285.78	46.35	609.34	59.87	200.30	291.35
55394	89.23	-15.88	-11.67	146.95	31.91	666.36	69.44	289.67	304.86	283.16	39.33	583.86	67.74	201.47	304.45
55395	90.34	-15.16	-11.67	152.13	32.83	659.34	75.00	288.72	318.37	278.67	34.79	554.91	74.26	201.80	318.03
55396	95.25	-9.56	-11.67	157.93	70.12	645.22	89.97	336.68	346.63	246.95	53.59	424.57	93.14	251.26	346.72
55397	94.64	-10.65	-11.67	154.58	65.32	633.65	90.77	325.29	344.42	247.04	48.08	436.60	94.47	240.20	344.43
55398	93.96	-11.70	-11.67	153.60	57.61	629.66	88.69	309.90	341.52	250.19	40.82	452.62	92.47	224.85	341.46
55399	94.23	-9.48	-11.67	188.23	70.97	646.24	93.26	357.94	355.74	298.26	50.92	442.29	94.36	268.41	356.12
55400	93.81	-10.44	-11.67	181.48	66.53	638.22	93.85	343.80	352.73	292.38	46.84	450.65	95.23	255.10	353.01
55401	93.34	-11.36	-11.67	175.89	59.81	635.49	92.42	327.16	350.16	287.97	41.42	461.84	93.80	239.16	350.32
55402	93.22	-9.41	-11.67	208.89	71.99	643.41	96.75	368.53	362.84	339.61	51.69	456.00	96.16	277.59	363.21
55403	92.98	-10.23	-11.67	200.89	67.63	640.01	96.70	355.42	358.91	329.67	48.28	461.90	96.20	265.15	359.24
55404	92.72	-11.03	-11.67	190.87	61.77	638.76	94.41	342.36	357.15	318.53	44.20	469.42	94.00	252.80	357.40
55405	91.36	-14.38	-11.67	155.01	36.51	650.49	78.04	287.90	329.69	272.83	32.88	524.69	78.61	201.77	329.43
55406	91.05	-13.43	-11.67	177.74	43.40	649.44	87.27	310.52	345.82	312.23	38.54	518.06	85.79	222.22	346.00
55407	90.75	-12.48	-11.67	196.39	50.06	644.64	93.99	332.50	354.01	347.08	45.96	509.62	90.95	243.07	354.30
55408	92.30	-13.56	-11.67	156.16	41.45	640.82	80.51	290.06	336.36	266.21	32.47	496.28	82.49	204.32	336.18
55409	91.89	-12.81	-11.67	176.90	47.05	643.46	88.13	311.46	348.40	302.52	36.82	495.99	87.85	223.38	348.54
55410	91.50	-12.07	-11.67	193.55	52.66	643.17	93.99	331.38	355.15	334.27	43.16	494.68	91.97	242.11	355.39
55411	93.18	-12.67	-11.67	155.19	48.62	632.78	84.36	297.50	338.77	257.90	34.64	472.03	87.62	212.22	338.65
55412	92.70	-12.15	-11.67	175.22	52.55	637.91	89.92	316.12	348.31	292.39	37.30	476.88	90.80	228.27	348.44
55413	92.22	-11.64	-11.67	191.28	55.77	640.36	95.19	333.37	355.84	322.45	40.82	480.34	94.16	244.13	356.06
55414	90.12	-9.50	-13.00	343.80	112.53	621.67	139.87	420.25	388.52	562.26	86.73	487.12	137.83	362.22	388.10
55415	91.16	-9.45	-13.00	341.44	125.56	646.40	137.79	421.32	403.71	535.10	96.97	493.32	136.34	362.36	403.43
55416	92.20	-9.40	-13.00	333.18	132.21	659.19	127.10	419.54	410.46	502.10	102.40	491.13	126.18	359.71	410.45
55417	90.31	-10.51	-13.00	346.67	96.86	647.51	140.97	407.80	392.65	549.80	72.18	508.75	137.79	349.32	392.37
55418	91.22	-10.36	-13.00	336.73	106.03	663.60	137.56	408.43	405.35	519.56	76.17	509.35	135.27	349.39	405.18
55419	92.12	-10.20	-13.00	324.87	113.51	667.00	127.86	406.72	410.78	487.86	79.82	502.58	126.58	347.16	410.79
55420	90.50	-11.51	-13.00	338.61	89.14	666.30	139.79	388.06	385.89	525.99	64.04	525.91	136.57	329.30	385.89
55421	91.27	-11.26	-13.00	327.82	96.39	673.45	136.60	388.56	396.03	499.43	64.80	519.25	134.31	329.61	396.02
55422	92.04	-10.99	-13.00	304.88	99.25	668.58	124.96	384.44	397.25	460.62	61.69	507.13	123.66	325.34	397.30
55423	79.01	-9.90	-13.00	117.80	69.56	433.76	64.36	344.21	321.17	617.76	148.24	449.84	34.94	256.98	321.55
55424	80.14	-9.89	-13.00	129.50	68.64	437.51	66.36	345.21	322.59	607.32	140.02	451.38	28.09	263.35	322.83
55425	81.26	-9.87	-13.00	149.54	67.98	444.74	70.75	347.83	324.77	599.60	131.08	452.89	34.00	271.15	324.89
55426	82.38	-9.85	-13.00	174.84	67.78	455.40	77.15	352.01	327.71	594.53	121.54	454.48	46.78	280.14	327.74
55427	83.50	-9.82	-13.00	203.23	68.32	469.40	85.06	357.86	331.49	591.87	111.58	456.27	61.47	290.25	331.44
55428	84.62	-9.78	-13.00	233.24	69.94	486.65	94.03	365.53	336.20	591.21	101.54	458.40	76.40	301.53	336.09
55429	85.73	-9.74	-13.00	263.69	73.10	507.17	103.67	375.23	342.02	591.85	91.98	461.10	91.03	314.07	341.85
55430	86.84	-9.69	-13.00	293.15	78.35	531.16	113.79	387.10	349.28	592.48	83.84	464.81	105.23	327.94	349.04
55431	87.95	-9.63	-13.00	319.04	86.50	559.05	124.36	400.57	358.97	590.50	78.80	470.25	118.99	342.55	358.65
55432	89.05	-9.56	-13.00	336.86	98.31	590.51	134.09	412.98	372.20	581.30	79.52	478.09	130.89	355.30	371.79
55433	79.03	-11.69	-13.00	118.07	59.94	489.41	46.71	298.25	309.36	569.79	133.52	503.98	58.85	215.82	309.69
55434	80.20	-11.67	-13.00	130.99	59.95	492.44	50.77	299.89	311.30	565.37	126.74	504.83	47.97	222.23	311.51
55435	81.36	-11.62	-13.00	152.60	60.53	498.16	58.58	303.77	314.37	563.20	119.30	504.98	45.96	230.64	314.49
55436	82.52	-11.55	-13.00	179.57	61.70	506.61	68.89	309.73	318.56	563.37	111.29	504.59	52.69	240.72	318.62
55437	83.67	-11.46	-13.00	209.61	63.50	517.77	80.60	317.92	324.00	565.69	102.89	503.74	64.69	252.49	324.01
55438	84.82	-11.35	-13.00	241.23	65.99	531.65	92.93	328.63	330.74	569.75	94.35	502.59	78.91	266.12	330.71
55439	85.96	-11.21	-13.00	273.28	69.23	548.38	105.33	342.29	338.85	574.90	86.04	501.36	93.73	2	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
55469	86.65	-15.64	-13.00	247.56	128.73	681.01	93.31	298.34	311.90	460.24	126.25	635.00	96.49	236.34	311.93
55470	87.83	-15.17	-13.00	269.83	115.11	684.53	106.85	307.16	324.51	465.79	106.77	619.04	106.25	248.05	324.57
55471	88.97	-14.63	-13.00	287.75	101.07	687.60	120.00	319.53	341.55	467.33	84.73	599.59	118.00	261.03	341.64
55472	90.08	-14.04	-13.00	297.32	90.17	687.93	128.38	330.67	363.03	460.88	64.15	575.04	126.48	272.60	363.13
55473	79.12	-18.88	-13.00	110.43	184.44	722.86	56.24	280.36	266.29	353.68	191.20	732.27	132.02	209.42	266.29
55474	80.45	-18.79	-13.00	119.30	183.54	723.00	56.97	280.68	268.79	361.46	189.56	730.52	117.64	211.46	268.78
55475	81.78	-18.62	-13.00	135.21	180.52	723.24	58.76	281.74	272.58	370.01	185.70	725.87	104.85	214.41	272.55
55476	83.09	-18.37	-13.00	155.48	174.36	723.27	62.00	283.61	277.26	378.92	178.51	718.13	94.56	218.17	277.19
55477	84.38	-18.03	-13.00	177.57	164.90	722.99	67.05	286.24	283.08	387.67	167.59	707.25	87.68	222.62	282.98
55478	85.65	-17.61	-13.00	199.73	152.39	722.33	74.08	289.59	290.47	395.77	152.98	693.24	85.17	227.63	290.34
55479	86.88	-17.11	-13.00	220.74	137.21	721.10	83.00	293.69	299.92	402.67	134.76	676.03	87.51	233.21	299.77
55480	88.08	-16.54	-13.00	239.52	120.00	718.98	93.32	298.59	312.10	407.66	113.06	655.38	94.18	239.39	311.93
55481	89.23	-15.88	-13.00	255.06	101.97	715.32	103.81	304.24	328.11	409.85	88.34	630.71	103.29	246.13	327.95
55482	90.34	-15.16	-13.00	266.06	86.81	708.41	111.29	310.06	348.32	408.02	63.99	600.83	110.79	252.88	348.17
55483	95.25	-9.56	-13.00	283.44	126.24	687.06	115.15	411.58	383.20	376.69	91.26	457.01	117.92	356.03	383.24
55484	94.64	-10.65	-13.00	259.19	119.93	672.19	114.13	394.57	386.44	357.32	82.51	471.90	117.64	339.24	386.44
55485	93.96	-11.70	-13.00	251.86	109.55	665.37	110.77	372.80	382.29	355.45	71.49	487.93	114.35	317.42	382.28
55486	94.23	-9.48	-13.00	306.71	127.89	671.87	112.67	423.06	394.21	424.27	92.76	467.97	113.80	364.27	394.45
55487	93.81	-10.44	-13.00	289.68	119.10	662.46	115.36	406.71	398.14	409.07	80.20	479.09	116.96	348.59	398.28
55488	93.34	-11.36	-13.00	283.12	109.56	657.95	116.02	383.30	392.19	404.48	69.65	488.82	117.55	325.70	392.23
55489	93.22	-9.41	-13.00	323.72	131.38	663.76	116.57	421.07	405.02	466.26	99.14	480.55	116.52	361.05	405.24
55490	92.98	-10.23	-13.00	312.76	118.55	662.61	121.49	406.79	406.96	453.56	81.57	490.43	121.52	347.37	407.12
55491	92.72	-11.03	-13.00	317.70	108.26	662.77	129.01	384.35	395.15	457.72	68.21	496.87	129.06	325.54	395.23
55492	91.36	-14.38	-13.00	271.87	80.27	696.84	112.78	316.63	369.33	402.24	48.11	566.62	113.07	260.09	369.23
55493	91.05	-13.43	-13.00	298.97	86.54	682.77	128.77	338.83	382.81	448.84	52.61	547.31	127.68	280.98	382.90
55494	90.75	-12.48	-13.00	321.34	89.01	674.35	137.45	362.91	384.40	490.49	58.87	535.04	135.09	304.23	384.57
55495	92.30	-13.56	-13.00	270.78	82.52	681.72	109.32	328.78	384.43	391.05	46.21	532.19	110.88	272.66	384.39
55496	91.89	-12.81	-13.00	295.79	89.35	672.55	123.05	348.51	394.40	434.22	52.26	520.62	122.95	290.82	394.45
55497	91.50	-12.07	-13.00	316.39	92.54	672.41	131.58	367.16	393.58	472.90	58.46	518.76	130.16	308.60	393.69
55498	93.18	-12.67	-13.00	260.64	93.40	668.35	107.05	348.51	386.18	371.81	56.15	504.72	110.04	292.89	386.18
55499	92.70	-12.15	-13.00	284.81	99.66	661.25	116.99	362.02	394.18	412.66	61.04	499.61	117.97	304.53	394.19
55500	92.22	-11.64	-13.00	304.64	106.70	666.03	121.61	369.29	392.79	449.12	73.43	505.30	121.11	310.74	392.84
55501	90.12	-9.50	-14.33	515.79	142.81	619.81	207.76	446.62	430.27	759.88	84.29	494.01	205.02	425.75	430.11
55502	91.16	-9.45	-14.33	513.43	188.71	645.58	202.34	472.31	469.90	727.66	142.13	499.58	201.57	450.88	469.77
55503	92.20	-9.40	-14.33	479.29	225.29	664.82	171.14	488.07	498.02	663.33	188.36	500.35	170.99	466.15	498.00
55504	90.31	-10.51	-14.33	585.29	146.63	650.45	225.78	432.40	425.18	811.54	94.80	522.24	224.73	411.25	425.05
55505	91.22	-10.36	-14.33	568.74	192.97	670.34	219.06	475.47	481.88	770.22	150.17	524.76	219.10	453.97	481.77
55506	92.12	-10.20	-14.33	495.31	232.68	680.71	182.30	497.52	523.01	672.32	197.14	521.30	182.39	475.69	522.99
55507	90.50	-11.51	-14.33	618.54	137.53	673.77	243.73	439.91	427.37	826.74	79.39	543.68	242.03	418.53	427.36
55508	91.27	-11.26	-14.33	595.88	154.59	684.90	226.56	494.96	489.98	784.69	103.12	539.74	225.82	473.48	489.96
55509	92.04	-10.99	-14.33	542.97	201.08	695.01	201.99	532.91	544.57	711.83	158.55	537.53	201.98	511.31	544.58
55510	79.01	-9.90	-14.33	133.71	165.50	461.80	131.35	304.39	304.32	705.05	220.90	475.61	21.50	272.87	304.38
55511	80.14	-9.89	-14.33	149.47	162.41	464.90	132.56	306.23	306.32	694.47	211.02	476.50	41.35	276.83	306.35
55512	81.26	-9.87	-14.33	176.29	158.88	470.93	135.59	309.82	309.34	688.31	200.03	477.25	61.61	282.44	309.36
55513	82.38	-9.85	-14.33	210.27	154.59	479.83	140.33	315.33	313.81	686.59	187.59	477.94	81.24	289.81	313.81
55514	83.50	-9.82	-14.33	249.01	149.41	491.52	146.59	323.01	319.89	689.30	173.50	478.61	100.13	299.11	319.87
55515	84.62	-9.78	-14.33	291.30	143.32	505.88	154.10	333.24	327.81	696.36	157.53	479.33	118.33	310.68	327.78
55516	85.73	-9.74	-14.33	336.67	136.38	522.85	162.63	346.56	337.92	707.67	139.34	480.23	135.94	325.02	337.87
55517	86.84	-9.69	-14.33	385.01	129.01	542.51	172.09	363.85	350.79	723.12	118.51	481.54	153.16	342.98	350.72
55518	87.95	-9.63	-14.33	435.86	122.56	565.25	182.95	386.46	367.61	741.98	94.62	483.81	170.72	365.89	367.52
55519	89.05	-9.56	-14.33	485.74	122.08	591.70	197.86	415.58	393.64	760.47	71.43	487.94	191.28	394.98	393.51
55520	79.03	-11.69	-14.33	144.98	73.65	516.99	52.88	231.85	248.35	657.60	154.12	529.48	65.72	202.03	248.40
55521	80.20	-11.67	-14.33	161.93	73.63	519.51	58.48	234.50	251.25	654.26	144.88	529.81	55.16	206.60	251.28
55522	81.36	-11.62	-14.33	190.63	74.73	524.33	69.58	238.92	255.13	655.52	134.73	529.51	56.19	212.81	255.15
55523	82.52	-11.55	-14.33	227.12	76.94	531.46	84.19	245.53	260.95	661.23	123.84	528.63	67.56	221.01	260.96
55524	83.67	-11.46	-14.33	268.87	80.27	540.83	100.90	254.75	268.95	671.29	112.40	527.22	84.78	231.58	268.94
55525	84.82	-11.35	-14.33	314.65	84.74	552.38	118.90	267.14	279.45	685.66	100.70	525.33	104.79	245.04	279.43
55526	85.96	-11.21	-14.33	364.19	90.34	566.10	137.81	283.54	292.89	704.61	89.15	523.07	126.21	262.21	292.86
55527	87.09	-11.06	-14.33	418.25	97.12	582.16	157.52	305.50	309.94	728.92	78.42	520.66	148.60	284.61	309.91
55528	88.20	-10.88	-14.33	478.88	105.54	601.41	178.85	336.20	331.89	760.48	69.77	518.84	172.74	315.44	331.83
55529	89.31	-10.68	-14.33	547.67	119.44	625.66	208.14	381.05	369.99	800.63	68.34	519.32	205.00	360.14	369.89
55530	79.05	-13.49	-14.33	154.76	112.27	568.75	16.82	222.94	230.14	605.70	164.94	580.15	106.05	194.65	230.18
55531	80.26	-13.45	-14.33	171.21	113.04	570.70	32.20	225.87	233.30	607.50	158.10	579.92	92.31	199.24	233.33
55532	81.47	-13.37	-14.33	199.26	113.49	574.47	51.62	230.21	237.14	613.81	149.72	578.65	86.17	205.12	237.15
55533	82.66	-13.26	-14.33	235.31	113.77	580.06	72.12	236.52	242.92	624.31	140.02	576.39	88.64	212.76	242.93
55534	83.85	-13.10	-14.33	276.81	114.02	587.42	93.16	245.29	250.93	638.76	129.14	573.14	98.70	222.62	250.94
55535	85.03	-12.91	-14.33	322.40	114.42	596.49	114.65	257.07	261.56	657.07	117.24	568.94	114.19	235.23	261.56
55536	86.19	-12.69	-14.33	371.74	115.28	607.23	136.70	272.75	275.33	679.51	104.65	563.86	133.34	251.46	275.34



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
55567	88.08	-16.54	-14.33	395.07	280.63	736.54	158.26	283.68	295.67	581.51	265.29	674.75	162.40	262.40	295.66
55568	89.23	-15.88	-14.33	424.14	239.67	736.05	169.53	298.77	314.63	594.51	216.29	654.34	170.63	277.84	314.61
55569	90.34	-15.16	-14.33	446.23	189.50	733.80	179.56	318.32	343.71	600.85	152.25	630.05	179.56	297.70	343.70
55570	95.25	-9.56	-14.33	442.71	180.21	719.63	153.13	449.24	420.58	533.96	118.73	486.08	158.04	428.95	420.61
55571	94.64	-10.65	-14.33	335.10	183.28	713.88	114.51	427.82	411.58	431.42	123.17	509.46	118.34	407.73	411.59
55572	93.96	-11.70	-14.33	284.64	165.10	708.36	104.82	440.23	426.68	387.44	101.60	527.58	111.13	420.20	426.68
55573	94.23	-9.48	-14.33	409.67	172.16	693.80	120.86	470.57	447.00	529.84	115.53	488.23	123.24	448.92	447.00
55574	93.81	-10.44	-14.33	325.82	180.46	692.43	94.10	469.43	458.19	446.84	125.89	508.25	95.56	448.12	458.24
55575	93.34	-11.36	-14.33	287.57	163.06	690.29	97.11	490.80	480.40	411.13	98.77	521.95	100.74	469.76	480.39
55576	93.22	-9.41	-14.33	418.84	200.32	675.99	120.21	487.36	486.19	569.91	160.25	493.82	120.57	465.25	486.27
55577	92.98	-10.23	-14.33	375.31	205.78	681.22	104.32	495.22	510.66	523.75	166.15	511.88	104.29	473.37	510.72
55578	92.72	-11.03	-14.33	324.72	174.23	680.87	95.43	532.05	539.50	470.53	124.04	523.31	95.99	510.47	539.52
55579	91.36	-14.38	-14.33	444.99	147.81	727.81	174.64	343.33	382.23	584.84	88.41	601.77	175.13	322.93	382.22
55580	91.05	-13.43	-14.33	491.40	141.94	703.25	211.63	372.88	407.63	654.70	67.81	575.26	211.10	351.83	407.65
55581	90.75	-12.48	-14.33	562.43	138.34	686.09	243.87	414.70	425.67	749.14	63.65	556.12	242.01	393.26	425.74
55582	92.30	-13.56	-14.33	410.98	139.81	718.43	153.51	376.09	419.85	537.26	73.15	571.76	156.06	355.83	419.85
55583	91.89	-12.81	-14.33	450.58	152.96	697.48	189.91	420.30	462.26	598.89	88.29	551.66	190.85	399.29	462.27
55584	91.50	-12.07	-14.33	522.19	144.54	686.95	225.21	470.64	487.93	692.88	72.68	541.80	224.36	449.29	487.98
55585	93.18	-12.67	-14.33	345.47	146.51	709.55	129.39	416.67	439.29	459.18	84.39	544.84	135.29	396.63	439.31
55586	92.70	-12.15	-14.33	376.14	151.51	691.52	149.34	467.74	492.10	509.84	91.17	531.90	152.63	446.78	492.08
55587	92.22	-11.64	-14.33	446.24	157.58	682.46	186.89	521.71	537.24	601.02	93.84	524.79	187.43	500.29	537.25
55588	66.76	-9.49	-14.33	524.59	152.27	620.66	205.87	454.54	433.18	978.13	263.94	469.66	443.79	439.28	433.62
55589	65.73	-9.44	-14.33	522.84	195.92	646.66	199.73	479.93	473.16	1020.25	293.44	475.65	501.85	479.15	473.33
55590	64.69	-9.39	-14.33	489.08	233.57	666.05	168.12	494.86	501.55	1074.57	318.57	479.87	541.15	512.77	501.53
55591	66.54	-10.47	-14.33	591.44	151.93	650.95	223.24	441.42	430.16	808.12	232.10	493.09	491.76	430.29	430.39
55592	65.64	-10.33	-14.33	574.72	195.99	670.96	215.30	484.31	487.02	858.87	263.86	496.76	542.30	485.10	487.08
55593	64.75	-10.18	-14.33	502.35	236.63	681.35	178.33	505.69	528.03	951.70	293.78	499.12	572.65	521.23	528.02
55594	66.34	-11.46	-14.33	624.97	142.63	674.19	239.36	447.42	432.78	660.77	191.74	512.26	490.90	439.87	432.81
55595	65.57	-11.21	-14.33	601.43	158.12	685.32	220.60	502.63	495.73	716.29	203.12	509.87	522.98	503.85	495.72
55596	64.82	-10.96	-14.33	547.90	203.38	695.26	195.39	540.29	550.35	797.61	239.12	511.82	567.77	554.88	550.37
55597	77.88	-9.89	-14.33	132.95	168.01	461.60	132.20	304.68	303.83	719.13	229.79	474.45	15.80	270.97	303.92
55598	76.75	-9.88	-14.33	148.82	169.35	464.49	135.19	307.39	305.72	736.95	237.19	473.09	37.47	271.55	305.86
55599	75.61	-9.86	-14.33	176.81	168.74	470.54	139.55	312.19	309.51	759.65	242.37	471.78	64.81	274.42	309.71
55600	74.49	-9.83	-14.33	212.26	166.62	479.56	144.98	318.95	314.72	786.26	245.79	470.48	95.35	279.61	314.98
55601	73.37	-9.80	-14.33	252.45	163.10	491.41	151.30	327.79	321.44	815.71	247.66	469.15	129.21	287.44	321.76
55602	72.25	-9.76	-14.33	296.08	158.21	505.95	158.34	339.01	329.89	846.67	248.14	467.83	166.83	298.47	330.27
55603	71.14	-9.71	-14.33	342.60	152.02	523.09	165.95	353.14	340.39	877.43	247.50	466.56	208.89	313.56	340.85
55604	70.03	-9.66	-14.33	391.85	144.87	542.90	174.16	371.02	353.54	905.91	246.26	465.47	256.42	333.96	354.05
55605	68.93	-9.60	-14.33	443.39	137.89	565.77	183.53	394.02	370.46	930.01	245.65	464.88	311.22	361.52	371.05
55606	67.83	-9.54	-14.33	493.88	135.47	592.34	196.97	423.38	396.46	949.70	248.93	465.73	376.12	398.03	397.12
55607	77.85	-11.68	-14.33	143.53	74.97	516.54	54.68	231.42	246.98	662.59	163.14	528.05	84.54	199.58	247.06
55608	76.65	-11.64	-14.33	161.13	77.66	518.52	64.50	234.02	249.15	671.08	171.61	525.74	109.48	200.27	249.27
55609	75.46	-11.58	-14.33	192.03	81.14	523.21	78.07	239.53	254.29	684.90	178.78	523.07	137.93	204.04	254.47
55610	74.29	-11.50	-14.33	230.71	85.37	530.40	93.44	247.58	261.35	702.72	184.85	519.96	169.12	210.72	261.57
55611	73.13	-11.40	-14.33	274.22	90.32	539.96	109.76	258.26	270.46	723.19	190.01	516.36	202.88	220.62	270.73
55612	71.98	-11.28	-14.33	321.28	95.94	551.75	126.62	272.02	281.92	744.82	194.48	512.27	239.29	234.44	282.24
55613	70.85	-11.15	-14.33	371.65	102.22	565.72	143.87	289.66	296.17	765.65	198.51	507.69	278.57	253.31	296.53
55614	69.73	-10.99	-14.33	426.05	109.12	582.04	161.59	312.67	313.89	782.87	202.41	502.64	321.36	279.14	314.26
55615	68.62	-10.82	-14.33	486.44	116.95	601.55	180.68	344.22	336.33	792.39	206.92	497.35	369.70	315.63	336.72
55616	67.53	-10.63	-14.33	554.47	128.68	626.00	207.53	389.72	374.75	790.35	215.26	493.06	430.35	368.78	375.17
55617	77.82	-13.48	-14.33	152.99	110.80	568.31	19.16	221.81	228.04	604.62	170.63	578.80	125.68	191.74	228.10
55618	76.57	-13.42	-14.33	170.38	109.04	569.74	39.46	223.63	229.67	605.65	175.06	576.00	150.67	191.91	229.75
55619	75.34	-13.32	-14.33	201.38	107.99	573.36	60.39	228.55	234.68	611.99	178.13	572.36	178.86	195.33	234.79
55620	74.12	-13.19	-14.33	240.28	107.67	578.99	80.96	236.04	241.67	622.25	180.01	567.82	209.58	201.68	241.81
55621	72.92	-13.03	-14.33	283.96	108.21	586.51	101.25	246.14	250.86	635.15	180.90	562.35	242.53	211.23	251.03
55622	71.75	-12.83	-14.33	331.07	109.79	595.80	121.43	259.26	262.58	649.30	181.07	555.93	277.50	224.65	262.77
55623	70.59	-12.61	-14.33	381.30	112.64	606.80	141.75	276.23	277.37	662.89	180.90	548.51	314.30	243.07	277.56
55624	69.46	-12.35	-14.33	435.64	116.92	619.61	162.72	298.76	296.05	673.01	180.87	539.96	352.75	268.61	296.21
55625	68.35	-12.06	-14.33	497.64	122.62	635.01	185.79	331.14	319.91	674.15	181.45	530.01	393.29	306.12	320.01
55626	67.26	-11.74	-14.33	577.20	131.08	655.10	220.52	383.67	365.81	655.19	184.80	519.08	443.65	366.76	365.87
55627	77.80	-15.28	-14.33	162.16	191.83	618.78	22.93	213.77	221.87	545.16	221.51	628.40	155.07	185.21	221.89
55628	76.50	-15.20	-14.33	178.55	188.90	619.78	40.79	215.27	223.13	540.29	222.14	625.30	179.54	185.35	223.16
55629	75.23	-15.07	-14.33	208.16	184.75	622.38	60.99	219.75	227.74	540.14	220.31	620.82	206.89	188.64	227.79
55630	73.98	-14.90	-14.33	245.56	179.57	626.47	81.18	226.76	234.37	543.69	216.24	614.95	236.46	194.81	234.44
55631	72.74	-14.67	-14.33	287.55	173.42	631.97	101.16	236.30	243.21	550.02	210.02	607.70	267.93	204.08	243.31
55632	71.54	-14.40	-14.33	332.38	166.51	638.77	121.07	248.74	254.65	558.21	201.82	599.04	301.00	217.05	254.76
55633	70.36	-14.08	-14.33	379.25	159.15	646.78	141.22	264.74	269.29	567.13	191.94	588.91	335.21	234.68	269.38
55634	69.21	-13.72	-14.33	428.19	151.87	655.95	162.29	285.66	288.15	575.05	180.95</				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
55665	64.15	-11.00	-14.33	339.04	179.13	680.72	95.33	538.43	544.42	1003.21	206.36	513.16	555.49	564.89	544.59
55666	65.52	-14.37	-14.33	455.68	150.16	727.95	166.45	344.27	383.22	491.70	98.36	583.49	448.98	343.00	383.26
55667	65.80	-13.39	-14.33	500.83	147.80	703.39	204.07	375.68	410.59	555.80	123.14	552.51	450.99	372.72	410.59
55668	66.09	-12.43	-14.33	570.19	146.85	686.34	237.75	419.96	430.46	596.73	158.63	527.87	459.00	415.40	430.41
55669	64.59	-13.54	-14.33	422.71	145.26	718.50	145.30	377.14	421.59	581.50	85.59	555.16	455.63	387.33	421.64
55670	64.97	-12.78	-14.33	460.64	161.85	697.52	181.66	423.39	465.84	649.61	138.78	531.23	453.48	430.61	465.91
55671	65.35	-12.03	-14.33	529.72	154.55	687.06	217.58	476.25	493.21	679.85	165.27	515.75	463.98	480.21	493.24
55672	63.71	-12.66	-14.33	358.38	152.87	709.39	124.30	418.21	441.89	710.12	100.71	532.26	469.59	443.61	441.71
55673	64.17	-12.13	-14.33	387.95	160.57	691.39	143.42	471.23	496.07	780.07	142.47	517.31	466.94	491.61	496.01
55674	64.64	-11.61	-14.33	454.89	168.18	682.45	179.11	527.42	542.53	798.38	184.32	504.31	472.91	543.47	542.61
55675	66.76	-9.49	-13.00	352.24	117.42	623.85	136.78	425.29	384.06	905.29	207.57	455.12	369.31	385.90	385.46
55676	65.73	-9.44	-13.00	351.36	130.69	649.12	133.30	425.66	399.27	942.46	213.25	464.82	398.63	422.20	399.63
55677	64.69	-9.39	-13.00	344.75	138.51	662.55	121.78	423.14	406.17	975.65	214.70	470.01	423.70	466.22	406.20
55678	66.54	-10.47	-13.00	353.24	103.04	649.10	136.05	413.11	389.78	809.21	169.68	471.01	373.51	382.86	390.43
55679	65.64	-10.33	-13.00	344.70	112.62	665.48	131.40	412.90	402.09	849.45	173.47	476.30	396.82	412.94	402.16
55680	64.75	-10.18	-13.00	334.63	120.94	669.33	121.29	410.42	407.21	885.31	176.12	479.24	419.64	447.82	407.35
55681	66.34	-11.46	-13.00	344.43	95.39	667.30	133.57	392.68	384.89	714.99	134.82	485.81	375.11	370.23	384.97
55682	65.57	-11.21	-13.00	334.77	103.34	674.55	129.47	392.44	394.37	755.92	140.31	483.52	395.57	393.97	394.36
55683	64.82	-10.96	-13.00	314.14	107.34	669.86	117.66	387.71	394.95	806.55	139.24	481.92	407.80	420.21	395.28
55684	77.88	-9.89	-13.00	117.33	70.54	433.54	65.10	344.84	320.64	631.41	155.71	448.12	51.39	252.17	321.21
55685	76.75	-9.88	-13.00	128.54	71.59	437.07	68.59	346.90	321.13	648.27	162.44	446.36	72.61	249.01	321.94
55686	75.61	-9.86	-13.00	148.83	72.61	444.43	74.29	350.34	322.69	667.98	168.29	444.81	96.75	247.88	323.77
55687	74.49	-9.83	-13.00	174.89	73.72	455.38	81.41	355.34	325.24	690.49	173.26	443.44	123.29	249.36	326.62
55688	73.37	-9.80	-13.00	204.26	75.16	469.72	89.39	361.96	328.71	715.43	177.49	442.23	152.21	254.04	330.42
55689	72.25	-9.76	-13.00	235.34	77.25	487.31	97.85	370.30	333.16	742.30	181.18	441.23	183.59	262.68	335.17
55690	71.14	-9.71	-13.00	266.88	80.43	508.14	106.55	380.51	338.71	770.60	184.59	440.20	217.60	276.23	341.00
55691	70.03	-9.66	-13.00	297.44	85.28	532.40	115.40	392.66	345.69	800.11	188.21	440.65	254.37	295.72	348.19
55692	68.93	-9.60	-13.00	324.56	92.72	560.52	124.47	406.19	355.07	831.54	192.78	442.15	293.64	321.72	357.64
55693	67.83	-9.54	-13.00	343.80	103.67	592.26	132.56	418.40	367.96	867.12	199.10	446.72	333.38	352.80	370.33
55694	77.85	-11.68	-13.00	117.40	60.54	488.87	47.81	298.96	308.85	577.46	139.70	501.98	76.05	211.62	309.33
55695	76.65	-11.64	-13.00	129.82	61.75	491.24	54.01	301.65	310.02	588.29	145.18	499.02	97.33	209.59	310.70
55696	75.46	-11.58	-13.00	152.17	63.48	496.89	63.40	306.24	312.81	601.73	149.71	495.70	121.24	210.13	313.71
55697	74.29	-11.50	-13.00	180.37	65.67	505.55	74.25	313.07	317.06	617.92	153.25	492.00	147.18	214.00	318.20
55698	73.13	-11.40	-13.00	211.63	68.30	517.07	85.60	322.21	322.58	636.56	155.89	487.85	174.98	221.81	323.94
55699	71.98	-11.28	-13.00	244.26	71.41	531.38	96.93	333.82	329.34	657.20	157.73	483.28	204.60	234.36	330.90
55700	70.85	-11.15	-13.00	277.07	75.07	548.55	107.86	348.19	337.39	679.45	158.97	478.35	236.11	252.75	339.08
55701	69.73	-10.99	-13.00	308.63	79.48	569.03	118.14	365.69	346.91	703.36	159.91	473.33	269.70	278.29	348.62
55702	68.62	-10.82	-13.00	335.94	85.18	593.84	127.74	385.90	358.98	730.73	161.27	468.97	305.64	311.61	360.61
55703	67.53	-10.63	-13.00	351.78	93.12	622.69	134.37	404.10	374.19	767.56	164.09	467.64	342.12	349.17	375.56
55704	77.82	-13.48	-13.00	119.61	78.29	551.04	20.62	275.82	288.54	520.85	135.63	562.77	106.58	193.54	288.86
55705	76.57	-13.42	-13.00	132.25	77.51	552.56	33.05	278.20	289.99	525.90	138.58	559.15	127.57	191.85	290.44
55706	75.34	-13.32	-13.00	154.98	77.07	556.59	47.84	282.51	293.43	533.25	140.41	554.50	150.77	192.76	294.03
55707	74.12	-13.19	-13.00	183.47	77.03	562.89	62.69	289.18	298.68	543.28	141.14	548.81	175.56	197.13	299.43
55708	72.92	-13.03	-13.00	214.73	77.47	571.34	77.14	298.28	305.56	555.88	140.88	542.02	201.67	205.54	306.45
55709	71.75	-12.83	-13.00	246.99	78.48	581.87	91.06	309.97	314.10	570.78	139.80	534.06	228.93	218.79	315.06
55710	70.59	-12.61	-13.00	279.01	80.13	594.52	104.33	324.63	324.38	587.80	138.10	524.88	257.19	238.02	325.32
55711	69.46	-12.35	-13.00	309.45	82.46	609.70	116.77	342.88	336.66	607.26	136.03	514.42	286.43	264.75	337.46
55712	68.35	-12.06	-13.00	335.32	85.59	628.54	128.12	364.64	352.19	631.59	134.01	502.83	317.16	299.93	352.75
55713	67.26	-11.74	-13.00	347.48	89.99	650.26	134.33	383.95	370.35	669.54	132.82	492.10	348.48	338.81	370.67
55714	77.80	-15.28	-13.00	120.38	123.44	607.57	13.24	265.64	279.93	463.09	154.67	618.17	127.33	187.73	280.07
55715	76.50	-15.20	-13.00	132.42	121.40	608.60	27.99	267.60	281.26	463.32	154.82	614.31	147.64	186.45	281.47
55716	75.23	-15.07	-13.00	154.08	118.46	611.37	43.52	271.32	284.63	465.59	153.13	608.77	169.71	187.60	284.91
55717	73.98	-14.90	-13.00	181.19	114.66	615.72	58.48	277.22	289.85	470.47	149.60	601.59	193.00	192.00	290.22
55718	72.74	-14.67	-13.00	210.73	110.17	621.52	72.90	285.32	296.78	478.09	144.41	592.70	212.24	200.15	297.21
55719	71.54	-14.40	-13.00	240.77	105.25	628.67	86.84	295.68	305.54	488.51	137.82	582.01	247.21	212.72	305.98
55720	70.36	-14.08	-13.00	269.92	100.35	637.07	100.37	308.51	316.40	501.94	130.23	569.35	267.67	230.61	316.76
55721	69.21	-13.72	-13.00	296.78	95.99	646.75	113.44	324.21	329.86	519.12	122.15	554.38	293.46	255.02	330.02
55722	68.09	-13.31	-13.00	318.84	92.70	658.10	125.59	342.69	347.47	542.53	114.13	536.42	319.98	286.77	347.38
55723	67.00	-12.86	-13.00	328.93	92.05	669.29	131.88	358.72	368.33	579.78	107.36	515.99	347.27	321.65	368.16
55724	77.78	-17.07	-13.00	118.99	167.86	666.83	36.28	265.18	278.44	405.06	183.17	676.21	143.52	190.67	278.47
55725	76.46	-16.99	-13.00	129.96	165.72	667.44	41.89	266.60	279.73	401.40	181.77	672.18	162.12	189.87	279.78
55726	75.15	-16.84	-13.00	149.71	161.56	668.94	50.53	269.43	282.83	399.58	177.67	665.76	181.95	191.17	282.91
55727	73.86	-16.62	-13.00	174.49	155.14	671.17	60.40	274.01	287.52	400.31	170.63	656.98	202.68	195.26	287.62
55728	72.60	-16.34	-13.00	201.31	146.54	674.03	70.86	280.29	293.72	404.02	160.77	645.80	224.16	202.56	293.84
55729	71.36	-15.99	-13.00	228.13	136.10	677.36	81.75	288.21	301.67	411.07	148.37	632.14	246.24	213.49	301.75
55730	70.16	-15.58	-13.00	253.47	124.36	680.97	92.99	297.74	311.78	422.02	133.81	615.82	268.81	228.62	311.78
55731	68.99	-15.11	-13.00	275.96	112.10	684.55	104.42	308.91	324.75	437.90	117.60	596.44	291.82	248.63	324.60
55732	67.85	-14.58	-13.00	293.92	100.57	687.68	115.28	321.44	342.04	460.90	100.52	573.17	315.58	273.98	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
55763	65.73	-9.44	-11.67	240.91	76.80	631.41	95.74	384.54	357.60	860.11	148.62	451.11	312.77	365.36	357.79
55764	64.69	-9.39	-11.67	240.49	79.25	643.63	93.09	378.20	358.24	906.21	143.86	453.20	336.06	417.06	358.67
55765	66.54	-10.47	-11.67	231.14	68.34	627.27	93.96	376.57	354.22	740.60	123.87	456.76	298.30	324.92	354.71
55766	65.64	-10.33	-11.67	229.85	71.79	638.20	93.15	370.34	355.61	780.18	121.78	457.36	318.62	357.60	355.61
55767	64.75	-10.18	-11.67	228.30	75.18	643.85	91.88	365.62	355.04	821.17	118.50	455.91	340.18	400.05	355.86
55768	66.34	-11.46	-11.67	219.11	62.93	638.51	90.85	357.41	353.79	658.79	94.88	468.27	300.94	318.01	353.76
55769	65.57	-11.21	-11.67	217.20	66.19	642.53	90.12	353.14	354.59	695.78	95.33	464.00	319.08	344.59	354.77
55770	64.82	-10.96	-11.67	217.52	70.77	643.97	89.82	350.64	354.21	733.77	93.67	459.60	337.17	381.08	355.53
55771	77.88	-9.89	-11.67	96.89	53.78	423.88	39.17	360.61	322.82	538.14	132.95	440.67	60.56	220.06	324.02
55772	76.75	-9.88	-11.67	104.41	54.40	427.91	43.01	362.23	322.81	553.36	137.83	438.59	77.34	214.65	324.43
55773	75.61	-9.86	-11.67	118.37	55.19	436.11	48.96	364.74	323.50	570.83	142.02	436.71	96.29	211.12	325.59
55774	74.49	-9.83	-11.67	136.41	56.16	448.25	56.06	368.16	324.87	590.63	145.48	435.06	117.00	210.09	327.46
55775	73.37	-9.80	-11.67	156.51	57.36	464.03	63.60	372.49	326.91	612.87	148.20	433.66	139.26	212.25	330.00
55776	72.25	-9.76	-11.67	177.08	58.85	483.22	71.13	377.64	329.61	637.73	150.20	432.65	162.99	218.39	333.13
55777	71.14	-9.71	-11.67	196.78	60.72	505.59	78.37	383.35	333.00	665.50	151.53	432.24	188.04	229.30	336.84
55778	70.03	-9.66	-11.67	214.16	63.09	530.91	85.08	389.01	337.21	696.79	152.29	432.88	214.13	245.56	341.14
55779	68.93	-9.60	-11.67	227.63	66.09	558.59	90.85	393.29	342.35	732.49	152.56	435.25	240.61	267.27	346.00
55780	67.83	-9.54	-11.67	236.20	69.71	586.97	95.02	394.40	348.27	772.99	152.35	439.81	266.43	294.17	351.15
55781	77.85	-11.68	-11.67	93.33	50.85	472.79	34.47	332.62	323.77	489.01	120.53	488.15	71.16	200.31	324.75
55782	76.65	-11.64	-11.67	101.72	51.25	475.73	39.22	334.78	324.12	499.79	123.85	484.92	88.64	196.19	325.43
55783	75.46	-11.58	-11.67	116.97	51.89	482.31	46.34	338.16	325.34	512.75	126.31	481.27	107.95	194.34	327.03
55784	74.29	-11.50	-11.67	136.22	52.77	492.30	54.48	342.84	327.37	528.00	127.92	477.26	128.70	195.42	329.43
55785	73.13	-11.40	-11.67	157.15	53.89	505.43	62.79	348.84	330.09	545.83	128.67	472.91	150.72	200.16	332.50
55786	71.98	-11.28	-11.67	178.07	55.26	521.51	70.79	356.02	333.38	566.59	128.63	468.32	173.91	209.28	336.05
55787	70.85	-11.15	-11.67	197.50	56.93	540.40	78.16	364.06	337.18	590.86	127.90	463.71	198.21	223.49	339.95
55788	69.73	-10.99	-11.67	213.79	58.99	561.97	84.62	372.12	341.45	619.78	126.67	459.55	223.51	243.09	344.11
55789	68.62	-10.82	-11.67	225.05	61.56	585.58	89.69	378.24	346.10	655.00	125.24	456.71	249.37	267.44	348.35
55790	67.53	-10.63	-11.67	230.58	64.79	608.94	92.93	379.99	350.68	697.11	124.03	455.91	275.06	295.60	352.20
55791	77.82	-13.48	-11.67	89.56	53.84	533.98	20.29	310.63	314.60	436.60	109.39	547.78	86.88	186.25	315.24
55792	76.57	-13.42	-11.67	98.24	53.52	535.76	27.84	312.73	315.44	443.08	110.90	543.67	104.15	183.05	316.28
55793	75.34	-13.32	-11.67	113.74	53.29	540.24	37.55	316.13	317.43	451.56	111.38	538.31	122.77	182.19	318.49
55794	74.12	-13.19	-11.67	132.99	53.21	547.21	47.64	320.91	320.45	462.31	110.85	531.76	142.42	184.35	321.74
55795	72.92	-13.03	-11.67	153.56	53.32	556.44	57.45	327.11	324.38	475.78	109.39	524.01	162.91	190.27	325.83
55796	71.75	-12.83	-11.67	173.69	53.68	567.78	66.65	334.61	329.06	492.50	107.13	515.10	184.20	200.64	330.58
55797	70.59	-12.61	-11.67	191.93	54.38	581.11	75.00	343.09	334.37	513.29	104.24	505.14	206.31	216.11	335.79
55798	69.46	-12.35	-11.67	206.64	55.49	596.38	82.13	351.67	340.17	539.61	100.97	494.47	229.36	236.89	341.32
55799	68.35	-12.06	-11.67	215.83	57.18	612.89	87.31	358.09	345.99	573.63	97.66	483.92	253.37	261.94	346.72
55800	67.26	-11.74	-11.67	219.36	59.72	628.31	90.12	359.84	350.86	615.75	95.04	474.65	278.28	290.39	351.12
55801	77.80	-15.28	-11.67	84.17	65.59	593.81	8.38	297.40	302.83	382.54	103.03	606.13	99.24	180.02	303.09
55802	76.50	-15.20	-11.67	92.50	64.42	594.80	19.59	299.05	303.85	385.41	102.61	601.63	115.67	177.56	304.20
55803	75.23	-15.07	-11.67	107.22	62.71	597.47	30.59	301.77	306.12	390.12	100.79	595.06	132.99	177.22	306.55
55804	73.98	-14.90	-11.67	125.31	60.56	601.60	41.11	305.65	309.52	397.04	97.65	586.46	150.97	179.66	310.03
55805	72.74	-14.67	-11.67	144.39	58.18	607.00	51.11	310.73	313.97	406.77	93.41	575.81	169.50	185.56	314.50
55806	71.54	-14.40	-11.67	162.76	55.86	613.46	60.56	316.83	319.41	419.99	88.35	563.08	188.57	195.53	319.87
55807	70.36	-14.08	-11.67	179.08	53.99	620.82	69.32	323.66	325.81	437.60	82.87	548.27	208.31	210.13	326.09
55808	69.21	-13.72	-11.67	191.98	52.96	628.86	76.98	330.47	333.13	461.09	77.38	531.43	229.04	229.60	333.13
55809	68.09	-13.31	-11.67	199.92	53.18	636.91	82.55	335.39	340.80	492.52	72.40	513.10	251.16	253.12	340.55
55810	67.00	-12.86	-11.67	203.03	54.96	643.20	85.35	336.48	347.23	532.37	68.46	494.71	274.89	280.17	346.98
55811	77.78	-17.07	-11.67	75.46	72.29	647.31	15.38	291.70	285.61	327.94	95.20	658.11	104.51	179.84	285.64
55812	76.46	-16.99	-11.67	82.88	70.90	647.74	21.14	292.61	286.79	328.47	93.35	653.52	119.35	178.10	286.82
55813	75.15	-16.84	-11.67	95.93	68.39	648.78	28.58	294.10	289.19	330.63	89.74	646.09	134.67	178.03	289.19
55814	73.86	-16.62	-11.67	111.93	64.77	650.19	36.50	296.29	292.69	334.91	84.45	635.82	150.44	180.27	292.64
55815	72.60	-16.34	-11.67	128.68	60.31	651.82	44.62	299.18	297.28	341.99	77.80	622.70	166.66	185.40	297.14
55816	71.36	-15.99	-11.67	144.67	55.47	653.49	52.81	302.62	303.07	352.56	70.26	606.71	183.45	193.95	302.78
55817	70.16	-15.58	-11.67	158.80	50.97	655.00	60.90	306.36	310.19	367.46	62.48	587.84	201.03	206.36	309.73
55818	68.99	-15.11	-11.67	170.13	47.75	656.06	68.41	309.93	318.78	387.90	55.31	566.03	219.84	222.98	318.19
55819	67.85	-14.58	-11.67	177.82	46.78	656.07	74.31	312.27	328.46	415.54	49.84	541.55	240.45	243.58	327.95
55820	66.76	-14.00	-11.67	182.01	48.41	654.07	77.65	312.38	337.63	451.40	47.12	515.65	263.14	268.37	337.70
55821	77.77	-18.88	-11.67	62.64	61.25	681.37	22.30	291.25	246.10	274.06	75.04	690.80	97.40	182.89	246.10
55822	76.43	-18.79	-11.67	68.42	60.16	681.55	24.43	291.10	247.86	274.18	72.60	686.65	110.18	181.87	247.81
55823	75.09	-18.61	-11.67	78.82	57.90	681.44	27.85	290.83	251.19	275.63	68.43	679.21	123.34	182.02	251.03
55824	73.77	-18.35	-11.67	91.77	54.43	680.79	32.34	290.68	255.95	278.94	62.73	668.33	137.08	183.98	255.61
55825	72.48	-18.01	-11.67	105.49	49.96	679.55	37.71	290.67	262.15	284.72	55.88	654.09	151.48	188.18	261.58
55826	71.22	-17.59	-11.67	118.81	44.97	677.66	43.84	290.71	269.92	293.52	48.48	636.54	166.64	195.01	269.15
55827	69.98	-17.09	-11.67	130.98	40.28	675.01	50.49	290.72	279.42	305.97	41.46	615.70	182.85	204.88	278.54
55828	68.79	-16.51	-11.67	141.48	37.16	671.37	57.17	290.58	290.76	323.00	36.32	591.57	200.54	218.26	290.01
55829	67.64	-15.87	-11.67	149.90	36.98	666.33	63.02	290.01	303.72	345.95	35.03	564.26	220.33	235.52	303.54
55830	66.54	-15.15	-11.67	156.22	40.00	659.38	67.15	288.90	317.06	376.65	38.12	534.60	242.69	257.34	318.16
55831	61.65	-9.56	-11.67	208.90	81.12	657.54	89.13	339.18	338.4						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
55861	41.52	-8.70	-9.50	1676.72	15.62	167.31	8.45	31.84	78.20	1830.39	15.63	168.15	217.49	1346.84	78.54
55862	43.06	-8.70	-9.50	1654.51	15.61	166.06	13.85	51.20	77.15	2055.83	15.64	168.46	220.53	1341.82	78.24
55863	44.59	-8.70	-9.50	1621.44	15.48	162.95	19.15	68.72	75.06	2351.41	15.59	167.77	225.96	1337.11	77.74
55864	46.12	-8.70	-9.50	1577.96	15.12	156.45	24.37	84.01	71.40	2694.36	15.33	164.14	234.67	1338.41	77.59
55865	47.66	-8.70	-9.50	1525.08	14.39	144.60	29.66	97.58	65.61	3074.41	14.68	153.29	247.16	1358.27	79.53
55866	49.19	-8.70	-9.50	1464.82	13.14	125.40	35.38	111.60	57.36	3495.16	13.13	128.33	261.03	1420.53	86.40
55867	50.72	-8.70	-9.50	1401.55	11.75	97.94	41.62	130.06	47.01	3979.56	12.69	117.79	267.86	1565.50	96.32
55868	52.25	-8.70	-9.50	1345.77	12.19	61.48	52.67	160.42	36.10	4577.46	37.49	271.00	225.92	1841.72	82.03
55869	53.79	-8.70	-9.50	1314.92	23.27	23.22	51.62	199.92	24.88	5388.63	26.62	960.65	172.37	2334.36	83.31
55870	55.32	-8.70	-9.50	1487.45	127.79	32.86	241.07	234.18	36.52	6452.81	510.10	2137.16	846.27	2375.15	130.00
55871	23.35	-8.10	-9.50	1254.15	136.62	46.92	236.08	223.99	58.65	5173.54	590.67	1916.47	316.26	1794.33	327.49
55872	24.86	-8.10	-9.50	1374.49	45.59	67.14	200.11	192.79	17.44	5477.34	214.82	1198.15	485.97	1999.45	335.68
55873	26.37	-8.10	-9.50	1389.41	36.73	64.78	162.33	176.96	32.62	4733.51	80.40	608.11	784.07	1606.23	92.57
55874	27.88	-8.10	-9.50	1437.47	46.83	81.22	142.22	153.76	41.88	4128.66	53.17	359.19	832.18	1443.57	43.11
55875	29.39	-8.10	-9.50	1491.34	56.87	95.98	121.24	132.44	51.19	3593.72	57.09	194.74	824.11	1338.98	59.49
55876	30.91	-8.10	-9.50	1544.25	64.26	107.20	101.76	112.61	58.41	3129.69	65.03	135.43	792.91	1281.87	65.93
55877	32.42	-8.10	-9.50	1591.35	68.89	114.62	82.86	93.06	63.49	2721.27	69.42	121.89	764.61	1254.50	67.89
55878	33.93	-8.10	-9.50	1630.42	71.35	119.02	64.37	72.22	66.76	2362.86	71.55	121.17	743.83	1243.09	68.94
55879	35.44	-8.10	-9.50	1660.28	72.46	121.36	46.08	52.91	68.67	2060.41	72.52	122.08	730.36	1239.21	69.60
55880	36.96	-8.10	-9.50	1680.38	72.86	122.46	27.90	32.24	69.66	1832.91	72.87	122.67	722.55	1238.38	69.96
55881	38.47	-8.10	-9.50	1690.48	72.97	122.86	10.24	11.93	70.07	1707.99	72.97	122.89	719.00	1238.40	70.10
55882	39.98	-8.10	-9.50	1690.48	72.97	122.86	10.24	11.93	70.07	1708.04	72.97	122.89	719.00	1238.40	70.10
55883	41.49	-8.10	-9.50	1680.37	72.86	122.46	27.90	32.27	69.66	1833.06	72.87	122.67	722.55	1238.38	69.95
55884	43.01	-8.10	-9.50	1660.26	72.46	121.36	46.08	52.94	68.67	2060.63	72.52	122.07	730.36	1239.20	69.59
55885	44.52	-8.10	-9.50	1630.39	71.35	119.02	64.37	73.24	66.76	2363.13	71.55	121.15	743.82	1243.07	68.92
55886	46.03	-8.10	-9.50	1591.32	68.89	114.62	82.86	93.08	63.49	2721.57	69.42	121.86	764.60	1254.47	67.86
55887	47.54	-8.10	-9.50	1544.21	64.26	107.20	101.76	112.64	58.40	3130.00	65.04	135.38	792.90	1281.83	65.89
55888	49.06	-8.10	-9.50	1491.28	56.87	95.98	121.24	132.47	51.19	3594.04	57.10	194.65	824.10	1338.93	59.45
55889	50.57	-8.10	-9.50	1437.41	46.83	81.20	142.22	153.79	41.88	4128.97	53.14	359.11	832.17	1443.53	43.09
55890	52.08	-8.10	-9.50	1389.34	36.72	64.77	162.33	177.01	32.62	4733.82	80.32	608.07	784.09	1606.23	92.68
55891	53.59	-8.10	-9.50	1374.40	45.56	67.15	200.12	192.87	17.46	5477.66	214.71	1198.25	486.02	1999.63	335.82
55892	55.10	-8.10	-9.50	1254.07	136.59	47.02	236.10	224.06	58.61	5173.70	590.53	1916.96	316.19	1794.77	327.40
55893	23.13	-8.70	-10.50	1882.23	134.01	58.11	295.64	57.08	71.64	10816.70	802.52	2151.57	818.99	2620.00	80.24
55894	24.66	-8.70	-10.50	1568.71	11.18	8.29	48.24	74.92	20.86	7047.78	148.99	93.00	228.96	881.79	102.48
55895	26.20	-8.70	-10.50	1612.91	9.91	17.33	41.40	43.48	20.39	5593.36	14.25	106.99	97.79	628.43	33.28
55896	27.73	-8.70	-10.50	1681.08	9.09	26.93	32.38	31.40	28.43	4608.27	28.69	30.44	124.77	454.75	34.61
55897	29.26	-8.70	-10.50	1749.74	12.52	35.49	28.01	25.97	35.34	3963.13	16.95	35.81	135.10	387.70	40.24
55898	30.79	-8.70	-10.50	1812.73	15.00	41.07	24.28	23.68	40.87	3480.49	17.14	43.14	142.68	371.80	42.93
55899	32.33	-8.70	-10.50	1867.75	16.84	44.56	20.62	21.54	44.58	3071.48	17.64	46.24	145.53	376.18	45.50
55900	33.86	-8.70	-10.50	1912.98	18.01	46.44	16.61	18.49	46.82	2704.71	18.39	47.48	146.48	385.20	47.24
55901	35.39	-8.70	-10.50	1947.46	18.70	47.33	12.24	14.27	48.04	2385.12	18.86	47.83	146.59	393.37	48.22
55902	36.93	-8.70	-10.50	1970.66	19.06	47.68	7.56	9.08	48.62	2138.78	19.12	47.86	146.48	398.99	48.68
55903	38.46	-8.70	-10.50	1982.31	19.21	47.79	2.84	3.47	48.84	2001.67	19.22	47.81	146.38	401.77	48.85
55904	39.99	-8.70	-10.50	1982.30	19.21	47.79	2.85	3.48	48.84	2001.73	19.22	47.81	146.38	401.77	48.85
55905	41.52	-8.70	-10.50	1970.64	19.06	47.68	7.56	9.09	48.62	2138.95	19.12	47.85	146.47	398.98	48.68
55906	43.06	-8.70	-10.50	1947.44	18.70	47.33	12.24	14.28	48.04	2385.37	18.86	47.83	146.58	393.36	48.22
55907	44.59	-8.70	-10.50	1912.95	18.01	46.44	16.61	18.50	46.82	2705.01	18.38	47.47	146.47	385.18	47.24
55908	46.12	-8.70	-10.50	1867.71	16.84	44.56	20.62	21.55	44.58	3071.80	17.63	46.23	145.51	376.14	45.50
55909	47.66	-8.70	-10.50	1812.68	15.00	41.07	24.28	23.70	40.87	3480.81	17.13	43.12	142.66	371.76	42.92
55910	49.19	-8.70	-10.50	1749.68	12.52	35.49	28.01	25.99	35.34	3963.43	16.94	35.80	135.09	387.65	40.22
55911	50.72	-8.70	-10.50	1681.01	9.09	26.93	32.38	31.42	28.42	4608.54	28.67	30.47	124.75	454.70	34.58
55912	52.25	-8.70	-10.50	1612.81	9.91	17.33	41.40	43.50	20.38	5593.62	14.24	107.08	97.78	628.42	33.23
55913	53.79	-8.70	-10.50	1568.60	11.18	8.30	48.25	74.95	20.86	7048.08	148.98	93.10	229.00	881.85	102.56
55914	55.32	-8.70	-10.50	1882.11	134.00	58.28	295.66	57.49	71.62	10817.50	802.52	2152.20	818.94	2620.76	80.26
55915	23.35	-8.10	-10.50	1616.44	162.48	56.34	308.52	59.73	99.50	9308.92	1009.58	1929.63	320.60	2181.66	335.75
55916	24.86	-8.10	-10.50	1632.67	42.92	19.83	170.23	59.27	18.91	7033.55	63.46	145.19	287.27	710.50	247.71
55917	26.37	-8.10	-10.50	1654.25	28.74	14.13	120.04	46.87	26.97	5567.82	46.82	165.73	325.26	531.81	77.47
55918	27.88	-8.10	-10.50	1709.58	40.49	17.42	102.35	37.30	37.74	4655.11	51.50	74.71	349.58	414.66	39.44
55919	29.39	-8.10	-10.50	1765.27	51.04	19.71	88.08	31.87	47.17	4005.55	60.33	38.90	384.64	358.70	48.11
55920	30.91	-8.10	-10.50	1818.37	59.94	21.33	75.73	27.53	54.27	3503.88	64.99	25.04	401.10	339.96	55.64
55921	32.42	-8.10	-10.50	1865.55	66.19	22.38	63.26	23.29	59.04	3076.30	68.96	23.05	407.52	336.62	59.97
55922	33.93	-8.10	-10.50	1904.92	70.17	22.96	50.22	18.73	61.94	2697.47	71.58	23.09	408.56	338.72	62.44
55923	35.44	-8.10	-10.50	1935.24	72.47	23.24	36.54	13.77	63.54	2371.70	73.12	23.28	407.69	341.81	63.77
55924	36.96	-8.10	-10.50	1955.78	73.66	23.36	22.38	8.49	64.32	2123.03	73.88	23.37	406.55	344.25	64.00
55925	38.47	-8.10	-10.50	1966.14	74.14	23.40	8.35	3.17	64.63	1985.39	74.17	23.40	405.86	345.53	64.64
55926	39.98	-8.10	-10.50	1966.14	74.14	23.40	8.36	3.17	64.63	1985.45	74.17	23.40	405.85	345.53	64.64
55927	41.49	-8.10	-10.50	1955.77	73.66	23.36	22.39	8.50	64.33	2123.19	73.87	23.37	406.54	344.25	64.40
55928	43.01	-8.10	-10.50	1935.21	72.47	23.24	36.55	13.78	63.54	2371.93	73.11	23.28	407.68	341.81	63.76
55929	44.52	-8.10	-10.50	1904.88	70.17	22.96	50.22	18.74	61.94	2697.74	71.57	23.09	408.54	338.71	62.44
55930	46.03	-8.10	-10.50	1865.50	66.19	22.37	63.26	23.30	5						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
55959	23.91	-6.17	-9.50	1386.10	169.36	141.35	309.84	177.05	60.27	3608.55	451.53	596.38	471.22	374.31	188.42
55960	25.37	-6.17	-9.50	1376.95	100.44	3.26	350.37	23.71	24.55	4465.56	165.76	18.86	354.94	682.04	259.11
55961	26.83	-6.17	-9.50	1408.40	75.29	8.07	320.45	14.34	22.62	4539.21	75.69	77.98	502.75	267.54	133.12
55962	28.29	-6.17	-9.50	1445.56	84.37	4.98	284.21	8.30	25.59	4195.01	109.39	13.84	609.60	121.78	61.92
55963	29.75	-6.17	-9.50	1483.95	100.18	6.81	246.04	4.86	29.64	3703.26	129.16	17.19	644.87	59.66	40.74
55964	31.21	-6.17	-9.50	1520.22	113.55	7.73	207.15	3.22	32.99	3203.60	133.70	11.02	645.21	35.73	36.99
55965	32.66	-6.17	-9.50	1552.27	122.68	8.33	168.40	2.25	35.26	2745.70	134.18	9.57	630.65	30.22	37.30
55966	34.12	-6.17	-9.50	1578.84	128.17	8.69	130.18	1.59	36.60	2346.27	133.86	9.12	612.02	30.87	37.81
55967	35.58	-6.17	-9.50	1599.18	131.13	8.88	92.60	1.09	37.29	2015.65	133.54	9.03	595.16	32.92	37.95
55968	37.04	-6.17	-9.50	1612.92	132.54	8.97	55.64	0.64	37.61	1771.06	133.29	9.02	582.92	34.64	37.86
55969	38.50	-6.17	-9.50	1619.83	133.07	9.01	19.76	0.24	37.72	1637.96	133.15	9.01	576.56	35.54	37.75
55970	39.95	-6.17	-9.50	1619.82	133.08	9.01	19.74	0.24	37.72	1638.00	133.15	9.01	576.56	35.54	37.75
55971	41.41	-6.17	-9.50	1612.90	132.54	8.97	55.63	0.64	37.61	1771.17	133.30	9.02	582.92	34.64	37.86
55972	42.87	-6.17	-9.50	1599.16	131.14	8.88	92.58	1.09	37.29	2015.81	133.55	9.03	595.16	32.92	37.94
55973	44.33	-6.17	-9.50	1578.80	128.18	8.69	130.16	1.59	36.60	2346.46	133.88	9.12	612.01	30.87	37.80
55974	45.79	-6.17	-9.50	1552.23	122.69	8.33	168.38	2.25	35.26	2745.92	134.21	9.56	630.65	30.22	37.29
55975	47.24	-6.17	-9.50	1520.17	113.56	7.73	207.13	3.22	32.99	3203.82	133.76	11.02	645.20	35.73	36.98
55976	48.70	-6.17	-9.50	1483.88	100.19	6.81	246.02	4.87	29.64	3703.50	129.24	17.18	644.86	59.66	40.72
55977	50.16	-6.17	-9.50	1445.48	84.36	4.98	284.19	8.30	25.59	4195.25	109.49	13.83	609.59	121.79	61.89
55978	51.62	-6.17	-9.50	1408.32	75.26	8.06	320.44	14.35	22.61	4539.46	75.72	77.98	502.75	267.55	133.08
55979	53.08	-6.17	-9.50	1376.87	100.37	3.25	350.38	23.74	24.53	4465.79	165.50	18.90	354.94	682.11	259.08
55980	54.54	-6.17	-9.50	1386.04	169.30	141.37	309.89	177.06	60.23	3608.70	451.27	596.68	471.20	374.30	188.21
55981	24.17	-5.07	-9.50	1397.19	179.36	155.38	331.21	184.69	46.90	3428.30	456.12	616.23	620.45	368.12	54.28
55982	25.60	-5.07	-9.50	1380.32	99.19	3.68	362.71	24.05	19.06	4337.41	176.47	8.51	476.81	693.14	48.65
55983	27.04	-5.07	-9.50	1416.42	56.48	6.21	336.04	12.62	14.13	4469.96	54.96	61.82	362.61	270.04	15.77
55984	28.47	-5.07	-9.50	1456.01	41.60	5.80	302.24	6.59	20.09	4162.76	64.06	5.88	302.71	119.90	20.35
55985	29.90	-5.07	-9.50	1491.12	46.79	7.30	264.45	3.12	25.08	3690.04	89.20	10.20	273.27	57.43	26.13
55986	31.34	-5.07	-9.50	1522.31	55.43	8.48	224.63	1.83	28.94	3198.69	96.18	8.67	254.62	33.31	31.29
55987	32.77	-5.07	-9.50	1549.09	61.99	9.18	183.83	1.29	31.44	2741.77	93.56	9.19	234.23	27.69	34.00
55988	34.21	-5.07	-9.50	1570.95	66.16	9.57	142.75	1.02	32.93	2339.65	86.75	9.57	210.50	28.28	34.88
55989	35.64	-5.07	-9.50	1587.57	68.56	9.77	101.80	0.78	33.72	2005.37	79.50	9.77	186.45	30.28	34.84
55990	37.07	-5.07	-9.50	1598.74	69.80	9.85	61.16	0.49	34.10	1757.57	73.82	9.85	166.46	31.97	34.53
55991	38.51	-5.07	-9.50	1604.35	70.31	9.87	21.23	0.18	34.25	1622.58	70.76	9.88	154.93	32.86	34.30
55992	39.94	-5.07	-9.50	1604.35	70.31	9.87	21.22	0.18	34.25	1622.61	70.76	9.88	154.92	32.86	34.30
55993	41.38	-5.07	-9.50	1598.73	69.80	9.85	61.14	0.50	34.10	1757.67	73.82	9.85	166.45	31.97	34.53
55994	42.81	-5.07	-9.50	1587.54	68.57	9.77	101.78	0.78	33.72	2005.50	79.51	9.77	186.44	30.28	34.84
55995	44.24	-5.07	-9.50	1570.91	66.17	9.57	142.73	1.02	32.92	2339.81	86.77	9.57	210.48	28.28	34.87
55996	45.68	-5.07	-9.50	1549.04	62.00	9.18	183.81	1.30	31.44	2741.94	93.58	9.19	234.22	27.69	33.99
55997	47.11	-5.07	-9.50	1522.25	55.44	8.48	224.61	1.83	28.94	3198.87	96.22	8.68	254.60	33.31	31.28
55998	48.55	-5.07	-9.50	1491.04	46.79	7.30	264.43	3.12	25.08	3690.22	89.26	10.20	273.25	57.43	26.12
55999	49.98	-5.07	-9.50	1455.92	41.58	5.80	302.23	6.59	20.08	4162.96	64.14	5.88	302.70	119.90	20.35
56000	51.41	-5.07	-9.50	1416.34	56.45	6.21	336.04	12.62	14.12	4470.16	54.91	61.82	362.61	270.04	15.79
56001	52.85	-5.07	-9.50	1380.25	99.14	3.66	362.73	24.07	19.05	4337.59	176.28	8.56	476.83	693.19	48.60
56002	54.28	-5.07	-9.50	1397.14	179.31	155.39	331.27	184.71	46.89	3428.45	455.92	616.51	620.45	368.08	54.34
56003	24.37	-3.96	-9.50	1322.64	203.31	135.42	355.87	185.05	47.05	3737.72	693.10	1175.68	1007.89	938.77	459.69
56004	25.79	-3.96	-9.50	1384.65	117.97	22.70	395.37	55.87	15.96	4529.47	480.75	461.60	1089.15	1286.08	380.10
56005	27.20	-3.96	-9.50	1436.00	61.07	31.83	370.79	61.78	22.88	4449.66	259.60	160.84	1003.77	861.39	227.42
56006	28.62	-3.96	-9.50	1475.11	26.08	52.85	336.02	54.96	40.07	4080.08	109.13	104.91	858.47	689.63	107.15
56007	30.03	-3.96	-9.50	1507.78	18.37	70.11	295.90	46.05	51.96	3617.47	18.33	73.05	721.70	593.11	59.77
56008	31.44	-3.96	-9.50	1535.35	26.39	81.96	252.36	37.93	60.00	3149.90	53.08	82.14	620.43	540.19	60.12
56009	32.86	-3.96	-9.50	1558.29	32.87	89.27	206.97	30.33	64.72	2713.45	72.85	90.60	551.64	513.62	66.76
56010	34.27	-3.96	-9.50	1576.70	36.50	93.27	160.90	23.23	67.22	2325.07	73.11	94.69	507.71	500.65	69.62
56011	35.69	-3.96	-9.50	1590.59	38.27	95.21	114.77	16.46	68.39	1998.91	63.28	96.11	481.37	494.59	69.97
56012	37.10	-3.96	-9.50	1599.88	39.02	96.01	68.86	9.84	68.86	1755.49	50.37	96.37	466.95	491.92	69.49
56013	38.52	-3.96	-9.50	1604.54	39.27	96.27	23.41	3.27	69.00	1622.42	40.74	96.31	460.67	490.93	69.07
56014	39.93	-3.96	-9.50	1604.54	39.27	96.27	23.40	3.28	69.00	1622.45	40.73	96.31	460.67	490.93	69.07
56015	41.35	-3.96	-9.50	1599.87	39.02	96.01	68.85	9.85	68.86	1755.57	50.34	96.36	466.94	491.91	69.49
56016	42.76	-3.96	-9.50	1590.56	38.26	95.21	114.76	16.47	68.39	1999.02	63.25	96.10	481.36	494.58	69.97
56017	44.18	-3.96	-9.50	1576.66	36.49	93.27	160.89	23.25	67.22	2325.20	73.08	94.68	507.70	500.64	69.61
56018	45.59	-3.96	-9.50	1558.23	32.86	89.27	206.96	30.34	64.71	2713.59	72.83	90.59	551.62	513.60	66.75
56019	47.01	-3.96	-9.50	1535.29	26.38	81.96	252.34	37.94	60.00	3150.04	53.07	82.14	620.41	540.16	60.11
56020	48.42	-3.96	-9.50	1507.71	18.36	70.11	295.89	46.07	51.96	3617.63	18.32	73.06	721.68	593.08	59.79
56021	49.83	-3.96	-9.50	1475.03	26.07	52.85	336.01	54.98	40.07	4080.23	109.09	104.92	858.45	689.59	107.19
56022	51.25	-3.96	-9.50	1435.91	61.06	31.84	370.81	61.81	22.89	4449.81	259.53	160.85	1003.77	861.35	227.48
56023	52.66	-3.96	-9.50	1384.56	117.95	22.74	395.40	55.91	15.99	4529.60	480.67	461.62	1089.17	1286.09	380.19
56024	54.08	-3.96	-9.50	1322.57	203.28	135.43	355.93	185.09	47.08	3737.82	693.00	1175.96	1007.91	938.76	459.82
56025	23.61	-7.26	-10.50	1558.94	163.67	93.41	341.91	78.35	130.34	8733.08	1387.30	1761.36	424.76	1910.88	511.55
56026	25.10	-7.26	-10.50	1645.15	76.05	20.11	255.36	52.92	12.61	6821.13	506.68	20.34	387.20	575.49	446.78
56027	26.59	-7.26	-10.50	1693.10	45.73	17.13	213.44	37.35	15.49	5560.35	225.14	113.31	411.51	423.68	237.95
56028	28.07	-7.26	-10.50	1737.51	52.27	22.97	185.91	29.86	19.85	4684.04	100.04	60.44	476.63	296.20	107.46
56029	29.56	-7.26	-10.50	1783.13	6										

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
56057	38.50	-6.17	-10.50	1936.52	60.69	10.65	18.83	0.71	51.22	1955.52	60.69	10.66	458.69	74.90	51.25
56058	39.95	-6.17	-10.50	1936.51	60.69	10.65	18.83	0.71	51.22	1955.56	60.69	10.66	458.68	74.90	51.25
56059	41.41	-6.17	-10.50	1929.45	60.52	10.63	52.33	1.95	51.06	2095.06	60.52	10.65	461.77	74.09	51.35
56060	42.87	-6.17	-10.50	1915.56	60.25	10.56	86.85	3.26	50.61	2349.47	60.25	10.61	467.04	72.58	51.40
56061	44.33	-6.17	-10.50	1895.26	60.02	10.38	121.81	4.69	49.62	2687.86	60.21	10.46	472.45	70.89	51.21
56062	45.79	-6.17	-10.50	1869.17	60.09	10.00	157.14	6.28	47.74	3088.01	62.51	10.13	474.37	70.83	50.80
56063	47.24	-6.17	-10.50	1838.05	60.82	9.31	192.63	8.21	44.54	3542.61	78.91	9.43	467.40	77.27	51.40
56064	48.70	-6.17	-10.50	1802.68	62.88	8.24	227.69	10.79	39.77	4063.52	143.19	8.62	445.40	100.63	58.86
56065	50.16	-6.17	-10.50	1764.00	67.86	6.92	261.34	14.45	34.04	4690.61	300.50	7.69	406.37	168.75	92.72
56066	51.62	-6.17	-10.50	1721.41	79.07	5.92	293.09	21.47	28.63	5513.30	602.38	8.66	366.96	322.38	177.52
56067	53.08	-6.17	-10.50	1664.10	110.56	10.69	322.60	45.22	21.04	6657.95	1043.36	168.41	374.20	467.78	312.45
56068	54.54	-6.17	-10.50	1566.83	190.01	129.13	390.92	94.02	136.01	8389.50	1775.78	1541.78	450.44	1641.12	336.65
56069	24.17	-5.07	-10.50	1592.94	223.88	146.79	424.98	101.92	128.98	8305.44	1804.60	1549.08	429.51	1642.81	134.82
56070	25.60	-5.07	-10.50	1680.60	143.37	8.75	353.21	39.45	11.22	6563.33	1133.55	182.50	362.12	489.22	32.86
56071	27.04	-5.07	-10.50	1737.35	110.90	6.11	327.70	13.87	20.47	5443.62	694.85	9.43	338.03	326.90	47.46
56072	28.47	-5.07	-10.50	1782.12	91.79	4.09	295.35	7.87	27.26	4657.95	378.75	7.40	296.58	165.11	32.20
56073	29.90	-5.07	-10.50	1818.69	80.25	5.40	258.32	5.89	34.88	4051.17	203.62	7.12	260.13	94.25	34.89
56074	31.34	-5.07	-10.50	1849.36	74.24	6.32	218.95	4.32	40.29	3537.81	119.74	7.56	231.52	69.35	41.65
56075	32.77	-5.07	-10.50	1875.27	71.15	6.86	178.77	3.29	43.81	3084.60	85.93	7.46	206.47	62.04	45.84
56076	34.21	-5.07	-10.50	1896.60	69.64	7.16	138.60	2.49	45.87	2683.47	74.28	7.52	182.19	61.62	47.58
56077	35.64	-5.07	-10.50	1913.10	68.96	7.30	98.75	1.77	46.95	2343.85	70.43	7.48	159.26	63.06	47.97
56078	37.07	-5.07	-10.50	1924.38	68.70	7.36	59.35	1.07	47.45	2088.71	69.10	7.43	140.47	64.44	47.85
56079	38.51	-5.07	-10.50	1930.11	68.62	7.38	20.84	0.36	47.64	1948.98	68.66	7.39	129.59	65.19	47.68
56080	39.94	-5.07	-10.50	1930.10	68.62	7.38	20.84	0.36	47.64	1949.01	68.66	7.39	129.59	65.19	47.68
56081	41.38	-5.07	-10.50	1924.36	68.70	7.36	59.35	1.07	47.45	2088.79	69.10	7.43	140.47	64.43	47.84
56082	42.81	-5.07	-10.50	1913.07	68.96	7.30	98.75	1.77	46.95	2343.98	70.43	7.48	159.26	63.06	47.96
56083	44.24	-5.07	-10.50	1896.56	69.64	7.16	138.59	2.49	45.87	2683.62	74.28	7.52	182.19	61.62	47.57
56084	45.68	-5.07	-10.50	1875.21	71.15	6.86	178.77	3.29	43.81	3084.75	85.93	7.46	206.46	62.04	45.83
56085	47.11	-5.07	-10.50	1849.29	74.23	6.32	218.94	4.32	40.29	3537.97	119.73	7.56	231.51	69.35	41.64
56086	48.55	-5.07	-10.50	1818.61	80.24	5.40	258.32	5.89	34.88	4051.31	203.62	7.12	260.13	94.24	34.89
56087	49.98	-5.07	-10.50	1782.02	91.77	4.09	295.35	7.87	27.26	4658.07	378.74	7.39	296.59	165.11	32.22
56088	51.41	-5.07	-10.50	1737.24	110.87	6.11	327.73	13.88	20.47	5443.74	694.82	9.43	338.05	326.91	47.50
56089	52.85	-5.07	-10.50	1680.47	143.32	8.76	353.26	39.46	11.20	6563.51	1133.48	182.53	362.17	489.21	32.91
56090	54.28	-5.07	-10.50	1592.81	223.75	146.80	425.06	101.94	128.97	8305.74	1804.46	1549.30	429.60	1642.93	134.86
56091	24.37	-3.96	-10.50	1611.29	257.74	146.95	444.28	107.29	122.45	8346.16	1506.05	1832.69	479.26	1903.05	260.86
56092	25.79	-3.96	-10.50	1686.24	167.51	10.33	362.76	40.29	8.23	6497.83	800.22	33.62	392.95	603.91	225.99
56093	27.20	-3.96	-10.50	1748.85	123.78	7.59	334.65	23.79	10.96	5382.52	520.33	73.06	377.94	431.60	158.36
56094	28.62	-3.96	-10.50	1796.93	99.29	14.19	301.37	17.54	13.74	4613.53	329.08	29.19	339.01	293.62	74.33
56095	30.03	-3.96	-10.50	1832.40	87.75	18.44	264.45	13.99	16.93	4021.37	215.54	20.10	288.94	229.54	33.31
56096	31.44	-3.96	-10.50	1860.04	84.27	21.53	225.44	11.03	18.76	3520.14	150.28	21.58	239.03	203.95	20.00
56097	32.86	-3.96	-10.50	1882.46	84.00	23.41	185.21	8.74	19.83	3074.95	115.65	23.76	192.73	194.48	19.93
56098	34.27	-3.96	-10.50	1900.54	84.53	24.44	144.33	6.76	20.40	2678.28	98.61	24.83	149.23	191.80	20.92
56099	35.69	-3.96	-10.50	1914.39	85.03	24.93	103.21	4.86	20.68	2340.84	90.65	25.17	107.56	191.51	21.13
56100	37.10	-3.96	-10.50	1923.81	85.33	25.13	62.09	2.94	20.81	2086.66	87.05	25.22	67.78	191.80	21.01
56101	38.52	-3.96	-10.50	1928.59	85.45	25.19	21.42	0.99	20.86	1947.31	85.63	25.20	33.86	192.05	20.88
56102	39.93	-3.96	-10.50	1928.59	85.45	25.19	21.42	1.00	20.86	1947.33	85.63	25.20	33.86	192.05	20.88
56103	41.35	-3.96	-10.50	1923.79	85.33	25.12	62.09	2.95	20.81	2086.73	87.04	25.22	67.78	191.80	21.01
56104	42.76	-3.96	-10.50	1914.35	85.03	24.93	103.20	4.86	20.68	2340.93	90.64	25.17	107.56	191.50	21.13
56105	44.18	-3.96	-10.50	1900.49	84.53	24.44	144.33	6.76	20.40	2678.39	98.59	24.83	149.23	191.80	20.91
56106	45.59	-3.96	-10.50	1882.40	84.00	23.41	185.21	8.75	19.83	3075.07	115.62	23.76	192.72	194.47	19.93
56107	47.01	-3.96	-10.50	1859.97	84.27	21.53	225.44	11.04	18.76	3520.24	150.23	21.58	239.03	203.94	20.01
56108	48.42	-3.96	-10.50	1832.32	87.73	18.44	264.44	14.00	16.93	4021.46	215.48	20.10	288.94	229.53	33.34
56109	49.83	-3.96	-10.50	1796.83	99.26	14.19	301.38	17.55	13.74	4613.60	329.01	29.19	339.01	293.60	74.37
56110	51.25	-3.96	-10.50	1748.73	123.74	7.59	334.67	23.80	10.96	5382.57	520.23	73.06	377.96	431.59	158.42
56111	52.66	-3.96	-10.50	1686.11	167.45	10.33	362.80	40.31	8.24	6497.90	800.08	33.63	393.00	603.90	226.06
56112	54.08	-3.96	-10.50	1611.14	257.61	146.95	444.35	107.30	122.45	8346.35	1505.88	1832.89	479.37	1903.16	260.99
56113	24.50	-3.10	-9.50	1213.28	186.48	104.67	291.26	185.48	23.42	4088.57	612.31	1986.14	588.81	1664.05	258.61
56114	25.90	-3.10	-9.50	1400.18	108.91	53.94	301.93	117.13	23.72	4743.01	480.15	1144.38	548.92	2036.61	209.37
56115	27.30	-3.10	-9.50	1455.82	59.35	42.17	271.13	108.53	35.25	4429.43	300.69	506.62	484.81	1638.72	160.24
56116	28.71	-3.10	-9.50	1495.74	32.99	66.45	244.46	92.75	45.02	4016.49	173.84	275.91	406.73	1438.83	106.65
56117	30.11	-3.10	-9.50	1528.38	15.96	85.16	216.38	77.75	57.58	3565.41	72.42	138.53	340.35	1301.35	82.18
56118	31.51	-3.10	-9.50	1554.95	9.37	97.99	186.06	64.83	67.47	3120.02	15.11	104.41	288.33	1214.44	75.78
56119	32.91	-3.10	-9.50	1576.52	11.09	105.72	153.88	52.91	74.23	2702.40	20.49	105.79	248.17	1162.84	77.04
56120	34.32	-3.10	-9.50	1593.58	14.02	109.88	120.49	41.33	78.30	2326.54	30.36	110.08	217.59	1133.51	79.29
56121	35.72	-3.10	-9.50	1606.30	16.03	111.83	86.41	29.73	80.47	2007.63	29.78	112.14	195.21	1117.49	80.82
56122	37.12	-3.10	-9.50	1614.77	17.17	112.60	52.01	17.96	81.50	1768.04	24.17	112.75	180.44	1109.33	81.60
56123	38.52	-3.10	-9.50	1619.00	17.66	112.83	17.63	6.06	81.88	1636.63	18.64	112.85	173.09	1105.92	81.89
56124	39.93	-3.10	-9.50	1618.99	17.67	112.83	17.63	6.09	81.88	1636.65	18.64	112.85	173.09	1105.92	81.89
56125	41.33	-3.10	-9.50	1614.75	17.17	112.60	52.01	17.99	81.50	1768.09	24.17	112.75	180.44	1109.31	81.60
56126	42.73	-3.10	-9.50	1606.27	16.04	111.83	86.41	29.76	80.47	2007.72	29.78	112.13</			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
56155	52.49	-2.50	-9.50	1411.90	115.47	70.92	320.75	139.09	18.86	4753.23	525.12	1265.21	491.26	2019.77	264.07
56156	53.88	-2.50	-9.50	1212.14	193.85	116.97	305.73	194.82	27.12	4052.35	645.37	2070.28	353.95	1657.28	312.88
56157	24.50	-3.10	-10.50	1627.12	285.24	141.36	459.94	112.91	112.77	8378.42	1230.17	2102.62	461.82	2109.93	125.18
56158	25.90	-3.10	-10.50	1686.18	178.96	11.15	370.67	39.43	19.36	6452.12	479.26	118.23	372.01	671.24	80.51
56159	27.30	-3.10	-10.50	1757.08	121.01	10.23	338.29	31.70	15.95	5346.66	345.42	153.64	342.10	497.72	72.73
56160	28.71	-3.10	-10.50	1806.02	88.43	15.65	304.05	22.79	23.49	4582.81	259.97	62.13	305.33	385.35	48.20
56161	30.11	-3.10	-10.50	1840.24	72.05	19.44	268.01	18.32	30.54	3998.51	196.40	32.39	268.05	328.16	40.06
56162	31.51	-3.10	-10.50	1866.06	65.49	21.94	229.99	15.04	36.30	3505.95	145.60	23.04	232.69	303.54	39.48
56163	32.91	-3.10	-10.50	1886.50	63.61	23.49	190.16	12.33	40.08	3067.07	109.44	23.49	197.83	293.29	41.16
56164	34.32	-3.10	-10.50	1902.73	63.37	24.31	148.98	9.77	42.28	2674.18	86.33	24.37	162.47	289.28	42.67
56165	35.72	-3.10	-10.50	1915.06	63.52	24.71	106.93	7.12	43.41	2338.66	73.24	24.77	127.39	287.85	43.55
56166	37.12	-3.10	-10.50	1923.43	63.67	24.86	64.44	4.35	43.91	2085.34	66.69	24.89	95.59	287.39	43.95
56167	38.52	-3.10	-10.50	1927.66	63.75	24.91	22.01	1.48	44.08	1946.27	64.07	24.91	74.16	287.26	44.09
56168	39.93	-3.10	-10.50	1927.65	63.76	24.91	22.01	1.49	44.08	1946.29	64.06	24.91	74.16	287.26	44.09
56169	41.33	-3.10	-10.50	1923.41	63.67	24.86	64.44	4.35	43.91	2085.39	66.68	24.89	95.59	287.38	43.95
56170	42.73	-3.10	-10.50	1915.03	63.52	24.71	106.93	7.13	43.41	2338.73	73.22	24.77	127.39	287.84	43.55
56171	44.13	-3.10	-10.50	1902.69	63.37	24.31	148.97	9.77	42.28	2674.26	86.30	24.37	162.47	289.27	42.66
56172	45.54	-3.10	-10.50	1886.44	63.61	23.49	190.16	12.34	40.08	3067.15	109.40	23.49	197.83	293.27	41.15
56173	46.94	-3.10	-10.50	1865.98	65.48	21.94	229.99	15.04	36.30	3506.01	145.54	23.04	232.69	303.52	39.48
56174	48.34	-3.10	-10.50	1840.15	72.04	19.44	268.01	18.33	30.54	3998.56	196.31	32.40	268.05	328.13	40.07
56175	49.74	-3.10	-10.50	1805.92	88.41	15.65	304.05	22.80	23.49	4582.83	259.86	62.14	305.34	385.31	48.22
56176	51.15	-3.10	-10.50	1756.96	120.98	10.24	338.31	31.71	15.94	5346.65	345.29	153.66	342.12	497.68	72.77
56177	52.55	-3.10	-10.50	1686.04	178.91	11.15	370.71	39.45	19.35	6452.13	479.08	118.25	372.05	671.22	80.54
56178	53.95	-3.10	-10.50	1626.95	285.13	141.34	459.99	112.90	112.77	8378.54	1229.99	2102.81	461.89	2110.05	125.22
56179	24.57	-2.50	-10.50	1634.48	287.48	146.96	472.48	116.96	115.24	8365.89	1234.81	2134.42	489.07	2129.37	214.02
56180	25.96	-2.50	-10.50	1691.88	178.41	13.60	380.06	40.11	20.21	6432.15	460.44	139.24	395.42	673.65	143.85
56181	27.36	-2.50	-10.50	1762.61	117.79	12.61	347.57	33.16	15.91	5328.44	335.78	175.65	362.78	496.74	67.22
56182	28.75	-2.50	-10.50	1810.36	81.55	16.38	313.44	24.15	25.26	4569.67	252.45	77.61	342.74	383.76	32.22
56183	30.15	-2.50	-10.50	1843.60	59.21	19.29	277.16	19.55	33.00	3990.51	187.23	41.82	326.23	326.75	33.00
56184	31.55	-2.50	-10.50	1868.51	45.86	21.12	238.41	16.01	39.20	3501.90	132.56	26.01	307.83	302.85	39.60
56185	32.94	-2.50	-10.50	1887.98	38.44	22.30	197.48	13.03	43.26	3065.25	91.62	23.24	285.96	293.20	43.68
56186	34.34	-2.50	-10.50	1903.28	34.57	22.90	154.90	10.23	45.65	2673.26	63.45	23.07	262.28	289.63	45.88
56187	35.73	-2.50	-10.50	1914.82	32.69	23.17	111.27	7.40	46.89	2337.88	45.85	23.21	239.92	288.48	46.99
56188	37.13	-2.50	-10.50	1922.60	31.86	23.26	67.05	4.50	47.46	2084.38	36.15	23.27	222.31	288.18	47.49
56189	38.53	-2.50	-10.50	1926.53	31.56	23.28	22.75	1.53	47.67	1945.14	32.01	23.28	212.53	288.13	47.67
56190	39.92	-2.50	-10.50	1926.52	31.56	23.28	22.75	1.54	47.67	1945.15	32.01	23.28	212.53	288.13	47.67
56191	41.32	-2.50	-10.50	1922.58	31.86	23.26	67.05	4.50	47.46	2084.41	36.15	23.27	222.30	288.18	47.49
56192	42.72	-2.50	-10.50	1914.78	32.68	23.17	111.27	7.41	46.89	2337.93	45.85	23.20	239.91	288.47	46.99
56193	44.11	-2.50	-10.50	1903.23	34.56	22.90	154.90	10.24	45.65	2673.32	63.44	23.07	262.27	289.62	45.88
56194	45.51	-2.50	-10.50	1887.93	38.43	22.30	197.48	13.04	43.26	3065.31	91.59	23.24	285.94	293.18	43.68
56195	46.90	-2.50	-10.50	1868.43	45.86	21.11	238.41	16.02	39.20	3501.94	132.51	26.01	307.82	302.82	39.60
56196	48.30	-2.50	-10.50	1843.51	59.21	19.29	277.16	19.56	33.00	3990.53	187.15	41.83	326.22	326.71	33.00
56197	49.70	-2.50	-10.50	1810.25	81.55	16.38	313.44	24.16	25.25	4569.64	252.34	77.63	342.73	383.72	32.21
56198	51.09	-2.50	-10.50	1762.48	117.78	12.60	347.58	33.17	15.91	5328.39	335.63	175.68	362.78	496.70	67.20
56199	52.49	-2.50	-10.50	1691.73	178.39	13.59	380.08	40.12	20.21	6432.11	460.26	139.27	395.42	673.63	143.85
56200	53.88	-2.50	-10.50	1634.30	287.40	146.92	472.52	116.93	115.23	8365.91	1234.66	2134.59	489.07	2129.48	213.97
56201	24.63	-1.65	-9.50	1330.21	234.05	155.77	408.11	194.99	47.77	3611.80	828.59	1271.61	659.74	955.52	608.61
56202	26.02	-1.65	-9.50	1411.72	148.06	39.20	452.50	79.00	28.48	4467.42	661.20	583.33	991.86	1286.21	602.59
56203	27.41	-1.65	-9.50	1459.98	92.38	37.98	422.02	79.37	32.69	4420.29	410.05	264.61	1117.00	871.23	349.43
56204	28.80	-1.65	-9.50	1495.27	74.05	58.18	383.43	69.04	43.02	4072.41	227.11	180.61	1104.33	714.49	170.49
56205	30.19	-1.65	-9.50	1525.16	80.25	73.40	339.48	57.79	52.70	3623.34	112.60	108.09	1047.66	627.91	87.47
56206	31.58	-1.65	-9.50	1549.56	92.49	84.67	291.43	47.60	59.71	3161.49	92.43	92.99	990.49	581.01	64.35
56207	32.97	-1.65	-9.50	1569.06	102.36	91.77	240.61	38.11	64.02	2725.85	109.51	93.46	943.84	557.72	64.22
56208	34.36	-1.65	-9.50	1584.17	108.65	95.76	188.16	29.20	66.37	2335.37	119.76	96.12	909.06	546.26	66.39
56209	35.75	-1.65	-9.50	1595.25	112.14	97.75	134.83	20.67	67.49	2005.88	120.85	97.82	884.77	540.69	67.54
56210	37.14	-1.65	-9.50	1602.53	113.85	98.59	81.09	12.37	67.93	1759.23	117.77	98.61	869.45	538.06	67.96
56211	38.53	-1.65	-9.50	1606.13	114.51	98.88	27.33	4.23	68.07	1624.16	115.00	98.88	862.03	537.00	68.07
56212	39.92	-1.65	-9.50	1606.13	114.52	98.88	27.33	4.24	68.07	1624.16	115.00	98.88	862.02	537.00	68.07
56213	41.31	-1.65	-9.50	1602.51	113.86	98.59	81.09	12.37	67.93	1759.24	117.79	98.61	869.42	538.04	67.96
56214	42.70	-1.65	-9.50	1595.22	112.16	97.75	134.83	20.68	67.49	2005.89	120.87	97.82	884.73	540.67	67.55
56215	44.09	-1.65	-9.50	1584.13	108.67	95.77	188.16	29.21	66.37	2335.40	119.78	96.11	909.01	546.23	66.39
56216	45.48	-1.65	-9.50	1569.01	102.38	91.77	240.61	38.12	64.02	2725.88	109.53	93.45	943.77	557.68	64.21
56217	46.87	-1.65	-9.50	1549.49	92.50	84.66	291.43	47.61	59.71	3161.52	92.44	92.99	990.40	580.95	64.34
56218	48.26	-1.65	-9.50	1525.07	80.24	73.40	339.48	57.80	52.70	3623.37	112.63	108.09	1047.55	627.84	87.48
56219	49.65	-1.65	-9.50	1495.18	74.02	58.17	383.44	69.05	43.01	4072.44	227.17	180.64	1104.21	714.41	170.53
56220	51.04	-1.65	-9.50	1459.88	92.33	37.95	422.03	79.38	32.67	4420.33	410.13	264.68	1116.87	871.17	349.49
56221	52.43	-1.65	-9.50	1411.61	148.00	39.15	452.51	79.01	28.43	4467.43	661.27	583.42	991.73	1286.20	602.67
56222	53.82	-1.65	-9.50	1330.12	233.98	155.73	408.14	195.01	47.73	3611.73	828.62	1271.77	659.64	955.57	608.67
56223	24.68	-0.55	-9.50	1422.38	223.03	182.05	401.68	194.02	33.69	3162.38	601.89	644.41	412.08	406.42	115.84
56224	26.07	-0.													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0					Cross beam stiffness K=∞						
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
56253	35.76	0.55	-9.50	1578.08	55.09	9.33	128.35	0.57	26.68	1999.38	73.56	9.43	259.34	32.09	26.73
56254	37.15	0.55	-9.50	1584.92	56.90	9.40	77.26	0.36	26.99	1745.74	65.19	9.43	235.80	34.32	27.01
56255	38.53	0.55	-9.50	1588.29	57.63	9.43	25.81	0.12	27.11	1606.80	58.68	9.43	223.09	35.47	27.11
56256	39.92	0.55	-9.50	1588.28	57.63	9.43	25.83	0.12	27.11	1606.78	58.67	9.43	223.10	35.47	27.11
56257	41.30	0.55	-9.50	1584.90	56.90	9.40	77.28	0.36	26.99	1745.70	65.18	9.43	235.82	34.32	27.01
56258	42.69	0.55	-9.50	1578.05	55.08	9.33	128.37	0.57	26.68	1999.32	73.53	9.43	259.36	32.09	26.73
56259	44.07	0.55	-9.50	1567.52	51.46	9.15	178.68	0.79	26.01	2338.48	77.83	9.42	291.02	29.29	26.09
56260	45.46	0.55	-9.50	1552.94	45.09	8.78	227.58	1.13	24.75	2741.01	72.22	9.56	328.15	27.80	24.80
56261	46.84	0.55	-9.50	1533.87	35.28	8.13	274.16	1.81	22.62	3189.18	51.59	10.24	368.33	32.89	22.68
56262	48.23	0.55	-9.50	1509.80	25.55	7.07	317.27	3.17	19.32	3656.67	24.56	14.71	408.95	58.01	22.07
56263	49.61	0.55	-9.50	1480.38	36.08	5.16	355.68	6.56	15.30	4084.27	76.27	10.03	445.22	125.05	35.96
56264	51.00	0.55	-9.50	1445.40	72.59	8.40	388.69	11.16	9.19	4326.08	170.93	75.35	464.86	288.28	75.75
56265	52.38	0.55	-9.50	1411.68	126.98	2.95	418.45	21.20	12.89	4120.85	321.76	15.83	462.05	736.09	115.22
56266	53.77	0.55	-9.50	1422.30	223.02	182.04	401.70	194.03	33.68	3162.24	601.92	644.41	412.13	406.45	115.73
56267	24.63	1.65	-9.50	1330.21	234.00	155.75	408.12	194.99	47.73	3611.90	828.53	1271.59	659.75	955.52	608.44
56268	26.02	1.65	-9.50	1411.72	148.02	39.16	452.49	78.99	28.44	4467.52	661.12	583.27	991.79	1286.24	602.54
56269	27.41	1.65	-9.50	1459.99	92.35	37.96	422.00	79.36	32.68	4420.40	409.99	264.56	1116.93	871.24	349.39
56270	28.80	1.65	-9.50	1495.27	74.03	58.17	383.41	69.03	43.01	4072.51	227.06	180.56	1104.27	714.48	170.46
56271	30.19	1.65	-9.50	1525.16	80.26	73.40	339.46	57.78	52.70	3623.43	112.58	108.05	1047.60	627.91	87.45
56272	31.58	1.65	-9.50	1549.56	92.52	84.66	291.40	47.59	59.71	3161.57	92.46	92.97	990.44	581.01	64.33
56273	32.97	1.65	-9.50	1569.06	102.39	91.77	240.59	38.11	64.02	2725.93	109.55	93.45	943.80	557.72	64.21
56274	34.36	1.65	-9.50	1584.18	108.68	95.76	188.14	29.20	66.37	2335.44	119.81	96.11	909.03	546.26	66.39
56275	35.75	1.65	-9.50	1595.25	112.16	97.74	134.81	20.67	67.49	2005.93	120.89	97.82	884.75	540.69	67.54
56276	37.14	1.65	-9.50	1602.53	113.86	98.59	81.07	12.36	67.93	1759.27	117.80	98.61	869.43	538.06	67.96
56277	38.53	1.65	-9.50	1606.13	114.52	98.88	27.32	4.23	68.07	1624.17	115.01	98.88	862.03	537.01	68.07
56278	39.92	1.65	-9.50	1606.13	114.52	98.88	27.34	4.23	68.07	1624.15	115.00	98.88	862.03	537.01	68.07
56279	41.31	1.65	-9.50	1602.51	113.85	98.59	81.10	12.38	67.93	1759.21	117.78	98.61	869.44	538.06	67.96
56280	42.70	1.65	-9.50	1595.22	112.15	97.74	134.84	20.68	67.49	2005.84	120.86	97.82	884.77	540.69	67.54
56281	44.09	1.65	-9.50	1584.13	108.66	95.76	188.17	29.21	66.37	2335.33	119.77	96.11	909.05	546.26	66.39
56282	45.48	1.65	-9.50	1569.00	102.37	91.77	240.63	38.13	64.02	2725.79	109.52	93.46	943.83	557.72	64.21
56283	46.87	1.65	-9.50	1549.49	92.50	84.66	291.44	47.61	59.71	3161.43	92.43	92.98	990.48	581.01	64.33
56284	48.26	1.65	-9.50	1525.07	80.25	73.40	339.50	57.80	52.70	3623.26	112.58	108.06	1047.66	627.91	87.44
56285	49.65	1.65	-9.50	1495.17	74.05	58.18	383.45	69.05	43.01	4072.32	227.07	180.57	1104.34	714.50	170.44
56286	51.04	1.65	-9.50	1459.87	92.37	37.97	422.04	79.39	32.68	4420.21	410.00	264.56	1117.03	871.25	349.37
56287	52.43	1.65	-9.50	1411.60	148.04	39.18	452.52	79.02	28.46	4467.32	661.14	583.27	991.90	1286.23	602.53
56288	53.82	1.65	-9.50	1330.11	234.03	155.73	408.13	195.02	47.77	3611.68	828.59	1271.56	659.81	955.55	608.50
56289	24.63	-1.65	-10.50	1639.79	274.58	163.52	490.73	118.44	129.18	8302.87	1561.17	1908.52	564.90	1953.15	400.63
56290	26.02	-1.65	-10.50	1709.60	179.74	12.85	397.76	42.78	10.88	6431.80	801.34	14.39	456.10	616.08	352.02
56291	27.41	-1.65	-10.50	1769.59	130.50	9.66	368.65	28.15	12.65	5316.06	548.09	102.15	431.53	436.86	209.15
56292	28.80	-1.65	-10.50	1814.25	100.20	16.14	335.32	21.18	14.95	4564.34	358.97	49.39	427.07	296.93	95.51
56293	30.19	-1.65	-10.50	1846.50	81.51	19.69	297.31	17.01	16.59	3992.10	233.98	30.47	419.42	231.94	40.30
56294	31.58	-1.65	-10.50	1870.70	71.32	22.47	255.64	13.47	17.88	3506.01	153.59	24.44	403.07	207.38	21.44
56295	32.97	-1.65	-10.50	1889.35	66.21	24.26	211.39	10.58	18.57	3069.21	106.08	24.61	381.09	199.14	18.72
56296	34.36	-1.65	-10.50	1903.77	63.81	25.24	165.51	8.05	18.91	2675.86	80.74	25.29	357.73	197.43	18.91
56297	35.75	-1.65	-10.50	1914.50	62.74	25.72	118.69	5.70	19.04	2338.87	68.89	25.73	336.74	197.79	19.06
56298	37.14	-1.65	-10.50	1921.69	62.30	25.92	71.40	3.42	19.08	2084.00	64.00	25.92	321.05	198.46	19.08
56299	38.53	-1.65	-10.50	1925.31	62.15	25.99	24.01	1.17	19.08	1943.98	62.31	25.99	312.67	198.88	19.08
56300	39.92	-1.65	-10.50	1925.30	62.15	25.99	24.02	1.17	19.08	1943.99	62.31	25.99	312.67	198.88	19.08
56301	41.31	-1.65	-10.50	1921.67	62.30	25.92	71.41	3.42	19.08	2084.02	64.00	25.92	321.04	198.46	19.08
56302	42.70	-1.65	-10.50	1914.47	62.74	25.72	118.70	5.71	19.04	2338.89	68.89	25.73	336.72	197.78	19.06
56303	44.09	-1.65	-10.50	1903.72	63.81	25.24	165.51	8.06	18.91	2675.88	80.74	25.29	357.70	197.42	18.91
56304	45.48	-1.65	-10.50	1889.28	66.21	24.26	211.40	10.58	18.57	3069.23	106.08	24.61	381.06	199.12	18.72
56305	46.87	-1.65	-10.50	1870.61	71.32	22.47	255.64	13.48	17.88	3506.01	153.55	24.44	403.03	207.36	21.44
56306	48.26	-1.65	-10.50	1846.41	81.52	19.68	297.32	17.02	16.58	3992.06	233.91	30.48	419.37	231.91	40.31
56307	49.65	-1.65	-10.50	1814.14	100.20	16.14	335.33	21.19	14.95	4564.28	358.87	49.40	427.03	296.89	95.52
56308	51.04	-1.65	-10.50	1769.46	130.50	9.65	368.66	28.15	12.64	5315.96	547.98	102.17	431.50	436.84	209.17
56309	52.43	-1.65	-10.50	1709.45	179.72	12.85	397.78	42.79	10.89	6431.70	801.22	14.39	456.06	616.08	352.06
56310	53.82	-1.65	-10.50	1639.60	274.51	163.48	490.76	118.41	129.17	8302.83	1561.08	1908.64	564.84	1953.23	400.60
56311	24.68	-0.55	-10.50	1649.96	268.47	176.53	512.05	118.11	133.19	8218.98	1932.81	1633.81	536.57	1703.30	228.83
56312	26.07	-0.55	-10.50	1726.70	186.23	6.84	420.79	39.86	5.21	6438.73	1243.07	182.39	443.22	521.34	184.99
56313	27.45	-0.55	-10.50	1776.09	148.35	5.90	393.56	16.55	16.64	5315.08	835.97	5.94	418.57	342.56	119.04
56314	28.84	-0.55	-10.50	1816.72	120.91	4.57	360.37	10.67	22.17	4565.94	507.28	4.68	393.79	173.18	60.90
56315	30.22	-0.55	-10.50	1848.20	101.02	5.71	320.31	8.06	28.69	3999.31	298.76	5.75	363.04	98.09	37.22
56316	31.61	-0.55	-10.50	1871.99	88.60	6.66	275.29	5.99	33.34	3514.04	179.44	6.82	326.53	72.81	34.43
56317	32.99	-0.55	-10.50	1890.13	81.25	7.26	227.26	4.53	36.39	3075.55	117.89	7.32	287.47	66.34	36.47
56318	34.38	-0.55	-10.50	1903.95	77.17	7.59	177.60	3.35	38.16	2679.78	89.98	7.64	249.14	66.91	38.16
56319	35.76	-0.55	-10.50	1914.11	75.09	7.76	127.15	2.33	39.08	2340.53	79.00	7.78	214.73	69.14	39.08
56320	37.15	-0.55	-10.50	1920.87	74.14	7.83	76.37	1.38	39.50	2083.96	75.09	7.84	187.89	71.03	39.50
56321	38.53	-0.55	-10.50	1924.24	73.79	7.85	25.49	0.47	39.66	1943.01	73.88	7.85	172.83	72.04	39.66
56322	39.92	-0.55	-10.50	1924.24	73.79	7.85	25.50	0.47	39.66	1943.01	73.88	7.85			



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
56351	49.61	0.55	-10.50	1816.61	120.90	4.57	360.39	10.67	22.17	4565.81	507.27	4.68	393.81	173.18	60.85
56352	51.00	0.55	-10.50	1775.96	148.33	5.90	393.57	16.56	16.64	5314.93	835.97	5.95	418.59	342.57	118.99
56353	52.38	0.55	-10.50	1726.54	186.20	6.84	420.80	39.88	5.21	6438.58	1243.09	182.40	443.24	521.35	184.94
56354	53.77	0.55	-10.50	1649.75	268.42	176.50	512.06	118.07	133.18	8218.83	1932.84	1633.80	536.55	1703.31	228.74
56355	24.63	1.65	-10.50	1639.82	274.55	163.52	490.75	118.45	129.17	8303.10	1561.17	1908.55	564.81	1953.19	400.48
56356	26.02	1.65	-10.50	1709.61	179.75	12.85	397.77	42.78	10.89	6431.97	801.36	14.40	456.07	616.09	352.02
56357	27.41	1.65	-10.50	1769.59	130.52	9.65	368.65	28.14	12.65	5316.19	548.12	102.14	431.50	436.87	209.15
56358	28.80	1.65	-10.50	1814.26	100.21	16.14	335.31	21.18	14.95	4564.45	359.00	49.37	427.04	296.93	95.50
56359	30.19	1.65	-10.50	1846.50	81.53	19.68	297.30	17.01	16.59	3992.20	234.01	30.46	419.38	231.94	40.30
56360	31.58	1.65	-10.50	1870.70	71.33	22.47	255.63	13.47	17.88	3506.11	153.62	24.43	403.04	207.38	21.44
56361	32.97	1.65	-10.50	1889.35	66.22	24.26	211.39	10.58	18.57	3069.30	106.11	24.61	381.07	199.14	18.72
56362	34.36	1.65	-10.50	1903.77	63.82	25.24	165.51	8.05	18.91	2675.94	80.77	25.29	357.71	197.43	18.91
56363	35.75	1.65	-10.50	1914.51	62.75	25.72	118.69	5.70	19.04	2338.93	68.91	25.73	336.74	197.79	19.06
56364	37.14	1.65	-10.50	1921.69	62.31	25.92	71.40	3.42	19.08	2084.04	64.01	25.92	321.06	198.47	19.08
56365	38.53	1.65	-10.50	1925.31	62.16	25.99	24.01	1.17	19.08	1943.99	62.32	25.99	312.69	198.88	19.08
56366	39.92	1.65	-10.50	1925.30	62.16	25.99	24.02	1.17	19.08	1943.97	62.32	25.99	312.69	198.88	19.08
56367	41.31	1.65	-10.50	1921.67	62.31	25.92	71.41	3.42	19.08	2083.98	64.01	25.92	321.07	198.47	19.08
56368	42.70	1.65	-10.50	1914.47	62.75	25.72	118.70	5.71	19.04	2338.83	68.91	25.73	336.77	197.79	19.06
56369	44.09	1.65	-10.50	1903.72	63.82	25.24	165.52	8.06	18.90	2675.82	80.76	25.29	357.75	197.43	18.91
56370	45.48	1.65	-10.50	1889.29	66.22	24.26	211.40	10.58	18.57	3069.16	106.10	24.61	381.12	199.15	18.71
56371	46.87	1.65	-10.50	1870.62	71.32	22.47	255.65	13.48	17.88	3505.94	153.62	24.44	403.09	207.39	21.43
56372	48.26	1.65	-10.50	1846.40	81.51	19.68	297.32	17.02	16.58	3992.01	234.02	30.47	419.43	231.95	40.28
56373	49.65	1.65	-10.50	1814.14	100.19	16.14	335.33	21.19	14.95	4564.24	359.01	49.38	427.08	296.93	95.48
56374	51.04	1.65	-10.50	1769.46	130.49	9.65	368.66	28.15	12.64	5315.95	548.15	102.14	431.54	436.87	209.12
56375	52.43	1.65	-10.50	1709.43	179.72	12.85	397.77	42.80	10.88	6431.70	801.41	14.40	456.10	616.09	352.00
56376	53.82	1.65	-10.50	1639.58	274.55	163.48	490.74	118.40	129.18	8302.77	1561.23	1908.50	564.86	1953.14	400.55
56377	24.57	2.50	-9.50	1212.24	193.87	117.02	305.72	194.78	27.12	4052.52	645.37	2069.99	353.99	1657.27	312.78
56378	25.96	2.50	-9.50	1412.02	115.49	70.95	320.74	139.05	18.86	4753.36	525.07	1264.99	491.28	2019.87	264.12
56379	27.36	2.50	-9.50	1465.83	65.22	51.14	287.86	127.62	32.92	4446.65	331.38	614.63	552.15	1642.02	123.56
56380	28.75	2.50	-9.50	1504.36	43.17	70.73	259.58	109.35	44.51	4031.86	195.60	356.99	552.44	1462.01	58.38
56381	30.15	2.50	-9.50	1536.23	35.11	85.52	229.75	91.97	57.83	3578.53	90.32	190.19	536.27	1336.20	57.93
56382	31.55	2.50	-9.50	1561.98	36.71	96.47	197.75	76.64	68.03	3130.91	41.56	126.40	514.72	1255.52	68.84
56383	32.94	2.50	-9.50	1582.71	40.32	103.25	163.78	62.35	74.87	2711.36	42.41	110.22	493.85	1206.80	76.06
56384	34.34	2.50	-9.50	1598.95	43.17	106.93	128.43	48.52	78.96	2333.75	49.95	108.55	475.73	1178.46	79.84
56385	35.73	2.50	-9.50	1610.99	44.94	108.66	92.23	34.78	81.15	2013.36	51.20	109.07	461.37	1162.52	81.62
56386	37.13	2.50	-9.50	1618.96	45.87	109.34	55.57	20.98	82.18	1772.66	48.91	109.44	451.44	1154.12	82.35
56387	38.53	2.50	-9.50	1622.93	46.26	109.55	18.85	7.22	82.57	1640.62	46.65	109.55	446.37	1150.51	82.59
56388	39.92	2.50	-9.50	1622.92	46.26	109.55	18.87	7.25	82.57	1640.59	46.64	109.55	446.37	1150.51	82.59
56389	41.32	2.50	-9.50	1618.94	45.87	109.35	55.59	21.01	82.18	1772.58	48.90	109.44	451.45	1154.12	82.35
56390	42.72	2.50	-9.50	1610.95	44.93	108.67	92.25	34.81	81.15	2013.24	51.18	109.07	461.39	1162.53	81.63
56391	44.11	2.50	-9.50	1598.90	43.16	106.93	128.45	48.55	78.96	2333.60	49.93	108.56	475.74	1178.47	79.86
56392	45.51	2.50	-9.50	1582.64	40.30	103.25	163.80	62.39	74.88	2711.18	42.40	110.23	493.87	1206.81	76.07
56393	46.90	2.50	-9.50	1561.90	36.70	96.48	197.77	76.67	68.04	3130.72	41.55	126.41	514.75	1255.53	68.85
56394	48.30	2.50	-9.50	1536.13	35.11	85.53	229.78	92.01	57.84	3578.31	90.32	190.20	536.30	1336.21	57.93
56395	49.70	2.50	-9.50	1504.26	43.18	70.74	259.61	109.40	44.52	4031.63	195.60	356.98	552.48	1462.02	58.35
56396	51.09	2.50	-9.50	1465.71	65.23	51.14	287.88	127.67	32.92	4446.40	331.38	614.60	552.21	1642.03	123.52
56397	52.49	2.50	-9.50	1411.89	115.49	70.94	320.75	139.10	18.84	4753.09	525.08	1264.95	491.33	2019.86	264.08
56398	53.88	2.50	-9.50	1212.13	193.88	116.98	305.71	194.83	27.14	4052.27	645.41	2069.90	354.00	1657.25	312.82
56399	24.50	3.10	-9.50	1213.30	186.47	104.72	291.31	185.49	23.43	4088.80	612.32	1986.31	588.85	1664.12	258.72
56400	25.90	3.10	-9.50	1400.21	108.90	54.00	301.95	117.14	23.71	4743.28	480.15	1144.50	548.98	2036.64	209.34
56401	27.30	3.10	-9.50	1455.84	59.34	42.19	271.13	108.54	35.24	4429.68	300.68	506.70	484.87	1638.75	160.18
56402	28.71	3.10	-9.50	1495.75	32.98	66.45	244.45	92.76	45.01	4016.71	173.83	275.97	406.77	1438.85	106.60
56403	30.11	3.10	-9.50	1528.39	15.96	85.16	216.37	77.75	57.57	3565.62	72.41	138.57	340.38	1301.37	82.13
56404	31.51	3.10	-9.50	1554.96	9.38	97.98	186.05	64.84	67.47	3120.20	15.11	104.43	288.35	1214.45	75.75
56405	32.91	3.10	-9.50	1576.53	11.10	105.72	153.87	52.91	74.23	2702.57	20.50	105.79	248.19	1162.86	77.02
56406	34.32	3.10	-9.50	1593.58	14.03	109.87	120.48	41.33	78.29	2326.68	30.37	110.07	217.60	1133.53	79.27
56407	35.72	3.10	-9.50	1606.30	16.04	111.82	86.40	29.73	80.47	2007.75	29.79	112.13	195.22	1117.51	80.81
56408	37.12	3.10	-9.50	1614.77	17.17	112.59	52.00	17.96	81.50	1768.12	24.18	112.75	180.46	1109.34	81.59
56409	38.52	3.10	-9.50	1619.00	17.67	112.83	17.62	6.06	81.88	1636.66	18.65	112.84	173.10	1105.94	81.89
56410	39.93	3.10	-9.50	1618.99	17.67	112.83	17.64	6.09	81.88	1636.62	18.64	112.85	173.10	1105.95	81.89
56411	41.33	3.10	-9.50	1614.75	17.17	112.60	52.02	17.99	81.50	1768.02	24.17	112.75	180.46	1109.35	81.60
56412	42.73	3.10	-9.50	1606.27	16.03	111.83	86.42	29.76	80.47	2007.60	29.78	112.14	195.23	1117.52	80.82
56413	44.13	3.10	-9.50	1593.53	14.02	109.88	120.50	41.36	78.29	2326.49	30.36	110.08	217.60	1133.53	79.29
56414	45.54	3.10	-9.50	1576.46	11.09	105.72	153.89	52.94	74.23	2702.35	20.50	105.79	248.19	1162.86	77.04
56415	46.94	3.10	-9.50	1554.88	9.37	97.99	186.07	64.87	67.47	3119.97	15.10	104.41	288.35	1214.46	75.77
56416	48.34	3.10	-9.50	1528.29	15.96	85.16	216.39	77.78	57.58	3565.36	72.41	138.52	340.37	1301.37	82.16
56417	49.74	3.10	-9.50	1495.64	32.98	66.44	244.47	92.79	45.02	4016.44	173.82	275.90	406.75	1438.85	106.63
56418	51.15	3.10	-9.50	1455.71	59.34	42.16	271.14	108.57	35.25	4429.37	300.67	506.61	484.83	1638.74	160.21
56419	52.55	3.10	-9.50	1400.07	108.90	53.91	301.94	117.18	23.71	4742.95	480.15	1144.37	548.93	2036.61	2

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
56449	32.91	3.10	-10.50	1886.50	63.59	23.49	190.16	12.33	40.07	3067.23	109.41	23.49	197.82	293.29	41.15
56450	34.32	3.10	-10.50	1902.74	63.35	24.31	148.97	9.77	42.28	2674.32	86.30	24.37	162.46	289.28	42.66
56451	35.72	3.10	-10.50	1915.07	63.50	24.70	106.93	7.12	43.41	2338.78	73.22	24.77	127.38	287.85	43.54
56452	37.12	3.10	-10.50	1923.43	63.66	24.86	64.43	4.35	43.91	2085.41	66.67	24.89	95.58	287.39	43.95
56453	38.52	3.10	-10.50	1927.66	63.74	24.91	22.00	1.48	44.08	1946.30	64.05	24.91	74.16	287.27	44.09
56454	39.93	3.10	-10.50	1927.65	63.74	24.91	22.01	1.49	44.08	1946.27	64.05	24.91	74.16	287.27	44.09
56455	41.33	3.10	-10.50	1923.40	63.66	24.86	64.44	4.35	43.91	2085.31	66.69	24.89	95.59	287.39	43.95
56456	42.73	3.10	-10.50	1915.03	63.51	24.71	106.94	7.13	43.41	2338.63	73.24	24.77	127.40	287.86	43.55
56457	44.13	3.10	-10.50	1902.68	63.36	24.31	148.98	9.77	42.28	2674.14	86.34	24.37	162.48	289.29	42.67
56458	45.54	3.10	-10.50	1886.43	63.60	23.49	190.17	12.34	40.08	3067.02	109.46	23.49	197.84	293.29	41.16
56459	46.94	3.10	-10.50	1865.98	65.48	21.94	230.00	15.04	36.30	3505.89	145.64	23.04	232.70	303.55	39.48
56460	48.34	3.10	-10.50	1840.14	72.05	19.44	268.02	18.33	30.54	3998.46	196.44	32.39	268.06	328.16	40.06
56461	49.74	3.10	-10.50	1805.91	88.43	15.65	304.06	22.80	23.49	4582.75	260.02	62.13	305.34	385.36	48.19
56462	51.15	3.10	-10.50	1756.95	121.00	10.23	338.30	31.71	15.95	5346.59	345.48	153.64	342.11	497.72	72.72
56463	52.55	3.10	-10.50	1686.02	178.95	11.15	370.68	39.45	19.36	6452.07	479.32	118.23	372.02	671.24	80.49
56464	53.95	3.10	-10.50	1626.90	285.21	141.31	459.94	112.86	112.77	8378.37	1230.23	2102.60	461.83	2109.93	125.20
56465	24.37	3.96	-9.50	1322.67	203.31	135.46	355.94	185.06	47.05	3737.99	693.14	1175.84	1007.93	938.82	459.90
56466	25.79	3.96	-9.50	1384.69	117.97	22.75	395.40	55.89	15.99	4529.80	480.78	461.69	1089.24	1286.12	380.19
56467	27.20	3.96	-9.50	1436.03	61.07	31.83	370.80	61.79	22.88	4449.98	259.59	160.90	1003.85	861.41	227.47
56468	28.62	3.96	-9.50	1475.13	26.07	52.84	336.01	54.97	40.06	4080.37	109.13	104.95	858.53	689.64	107.18
56469	30.03	3.96	-9.50	1507.79	18.34	70.10	295.88	46.06	51.95	3617.74	18.31	73.06	721.74	593.12	59.78
56470	31.44	3.96	-9.50	1535.36	26.37	81.95	252.34	37.93	59.99	3150.14	53.07	82.13	620.46	540.20	60.11
56471	32.86	3.96	-9.50	1558.29	32.85	89.26	206.95	30.33	64.71	2713.66	72.83	90.58	551.67	513.63	66.75
56472	34.27	3.96	-9.50	1576.71	36.48	93.27	160.88	23.24	67.22	2325.26	73.09	94.67	507.74	500.66	69.60
56473	35.69	3.96	-9.50	1590.59	38.26	95.21	114.75	16.46	68.39	1999.07	63.26	96.10	481.40	494.60	69.96
56474	37.10	3.96	-9.50	1599.89	39.01	96.01	68.84	9.84	68.85	1755.59	50.35	96.36	466.98	491.93	69.48
56475	38.52	3.96	-9.50	1604.55	39.27	96.27	23.39	3.27	68.99	1622.46	40.73	96.31	460.70	490.95	69.07
56476	39.93	3.96	-9.50	1604.54	39.27	96.27	23.42	3.28	68.99	1622.41	40.74	96.31	460.71	490.95	69.07
56477	41.35	3.96	-9.50	1599.87	39.02	96.01	68.87	9.85	68.85	1755.47	50.36	96.37	466.98	491.93	69.49
56478	42.76	3.96	-9.50	1590.56	38.27	95.21	114.78	16.47	68.39	1998.88	63.29	96.11	481.40	494.60	69.97
56479	44.18	3.96	-9.50	1576.66	36.50	93.27	160.91	23.25	67.22	2325.04	73.12	94.68	507.75	500.66	69.62
56480	45.59	3.96	-9.50	1558.22	32.86	89.27	206.99	30.34	64.72	2713.40	72.86	90.60	551.67	513.63	66.76
56481	47.01	3.96	-9.50	1535.28	26.39	81.96	252.37	37.94	60.00	3149.85	53.10	82.14	620.46	540.20	60.12
56482	48.42	3.96	-9.50	1507.69	18.36	70.11	295.91	46.06	51.96	3617.43	18.32	73.05	721.73	593.12	59.77
56483	49.83	3.96	-9.50	1475.01	26.07	52.84	336.03	54.98	40.06	4080.04	109.11	104.92	858.50	689.64	107.15
56484	51.25	3.96	-9.50	1435.89	61.07	31.83	370.81	61.80	22.88	4449.62	259.59	160.85	1003.80	861.39	227.42
56485	52.66	3.96	-9.50	1384.54	117.96	22.69	395.38	55.89	15.95	4529.43	480.78	461.62	1089.17	1286.08	380.11
56486	54.08	3.96	-9.50	1322.55	203.30	135.40	355.88	185.08	47.04	3737.66	693.17	1175.69	1007.90	938.80	459.75
56487	24.17	5.07	-9.50	1397.22	179.34	155.39	331.28	184.69	46.87	3428.61	456.09	616.32	620.47	368.14	54.33
56488	25.60	5.07	-9.50	1380.36	99.15	3.66	362.73	24.08	19.04	4337.80	176.40	8.52	476.86	693.18	48.61
56489	27.04	5.07	-9.50	1416.46	56.46	6.22	336.03	12.62	14.11	4470.35	54.94	61.83	362.62	270.05	15.77
56490	28.47	5.07	-9.50	1456.03	41.59	5.80	302.22	6.59	20.08	4163.12	64.10	5.88	302.69	119.90	20.34
56491	29.90	5.07	-9.50	1491.14	46.80	7.30	264.42	3.11	25.07	3690.37	89.24	10.20	273.24	57.43	26.12
56492	31.34	5.07	-9.50	1522.33	55.45	8.48	224.60	1.83	28.93	3198.98	96.21	8.68	254.58	33.31	31.28
56493	32.77	5.07	-9.50	1549.10	62.01	9.18	183.81	1.29	31.43	2742.03	93.59	9.19	234.19	27.69	33.99
56494	34.21	5.07	-9.50	1570.96	66.18	9.57	142.73	1.02	32.92	2339.88	86.77	9.57	210.46	28.28	34.87
56495	35.64	5.07	-9.50	1587.57	68.57	9.77	101.78	0.78	33.72	2005.55	79.51	9.77	186.42	30.29	34.84
56496	37.07	5.07	-9.50	1598.74	69.81	9.85	61.14	0.49	34.10	1757.69	73.83	9.85	166.43	31.97	34.52
56497	38.51	5.07	-9.50	1604.36	70.31	9.87	21.21	0.17	34.24	1622.62	70.77	9.88	154.90	32.86	34.29
56498	39.94	5.07	-9.50	1604.35	70.31	9.87	21.24	0.18	34.25	1622.57	70.76	9.88	154.90	32.86	34.29
56499	41.38	5.07	-9.50	1598.72	69.80	9.85	61.17	0.50	34.10	1757.55	73.82	9.85	166.44	31.97	34.53
56500	42.81	5.07	-9.50	1587.54	68.56	9.77	101.81	0.78	33.72	2005.34	79.50	9.77	186.44	30.29	34.84
56501	44.24	5.07	-9.50	1570.90	66.17	9.57	142.76	1.02	32.92	2339.62	86.76	9.58	210.49	28.28	34.88
56502	45.68	5.07	-9.50	1549.03	62.00	9.18	183.84	1.30	31.44	2741.73	93.57	9.19	234.22	27.69	34.00
56503	47.11	5.07	-9.50	1522.24	55.43	8.48	224.64	1.83	28.94	3198.65	96.19	8.67	254.61	33.31	31.29
56504	48.55	5.07	-9.50	1491.03	46.79	7.30	264.46	3.12	25.08	3690.01	89.21	10.20	273.27	57.43	26.13
56505	49.98	5.07	-9.50	1455.90	41.60	5.80	302.25	6.59	20.09	4162.73	64.07	5.88	302.72	119.89	20.34
56506	51.41	5.07	-9.50	1416.31	56.49	6.21	336.05	12.62	14.13	4469.94	54.96	61.82	362.63	270.03	15.77
56507	52.85	5.07	-9.50	1380.22	99.19	3.68	362.72	24.05	19.06	4337.39	176.48	8.51	476.83	693.13	48.64
56508	54.28	5.07	-9.50	1397.11	179.36	155.36	331.22	184.70	46.90	3428.27	456.17	616.21	620.47	368.13	54.29
56509	23.91	6.17	-9.50	1386.13	169.32	141.36	309.91	177.04	60.21	3608.93	451.45	596.49	471.24	374.33	188.25
56510	25.37	6.17	-9.50	1376.99	100.38	3.25	350.38	23.74	24.53	4466.03	165.64	18.87	354.94	682.10	259.09
56511	26.83	6.17	-9.50	1408.44	75.26	8.07	320.44	14.35	22.60	4539.68	75.69	77.98	502.73	267.55	133.10
56512	28.29	6.17	-9.50	1445.59	84.36	4.98	284.18	8.30	25.58	4195.44	109.43	13.84	609.58	121.79	61.90
56513	29.75	6.17	-9.50	1483.97	100.18	6.81	246.01	4.87	29.64	3703.66	129.20	17.19	644.84	59.66	40.72
56514	31.21	6.17	-9.50	1520.24	113.56	7.73	207.12	3.22	32.98	3203.95	133.74	11.02	645.18	35.73	36.98
56515	32.66	6.17	-9.50	1552.29	122.68	8.33	168.37	2.25	35.25	2746.02	134.20	9.56	630.63	30.22	37.29
56516	34.12	6.17	-9.50	1578.85	128.18	8.69	130.15	1.59	36.59	2346.53	133.87	9.12	612.00	30.87	37.80
56517	35.58	6.17	-9.50	1599.19	131.13	8.88	92.57	1.09	37.29	2015.86	133.55	9.03	595.14	32.92	37.94
56518	37.04	6.17	-9.50	1612.92	132.54	8.97	55.62	0.64	37.60	1771.20	133.30	9.02	582.90	34.64	37.85
56519	38.50	6.17	-9.50	1											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
56547	47.40	7.26	-9.50	1540.01	177.47	104.83	211.39	60.34	82.74	3180.40	178.40	121.04	1332.38	607.47	95.49
56548	48.89	7.26	-9.50	1495.06	157.18	93.06	253.17	72.51	74.66	3673.83	157.20	143.09	1371.80	644.38	121.88
56549	50.38	7.26	-9.50	1448.94	130.56	77.81	294.89	85.54	63.89	4204.35	140.60	225.68	1372.04	714.81	209.38
56550	51.86	7.26	-9.50	1410.02	104.51	58.70	334.92	98.17	53.38	4715.47	198.17	319.91	1244.67	838.65	414.85
56551	53.35	7.26	-9.50	1378.16	111.09	54.30	373.26	102.05	48.27	5021.66	429.63	608.38	817.63	1214.02	733.85
56552	54.84	7.26	-9.50	1304.71	167.51	95.95	317.63	198.26	95.21	4311.90	698.37	1182.18	315.56	935.88	657.92
56553	24.37	3.96	-10.50	1611.36	257.64	146.99	444.34	107.35	122.44	8346.67	1506.00	1832.82	479.38	1903.17	261.02
56554	25.79	3.96	-10.50	1686.28	167.47	10.33	362.79	40.29	8.24	6498.22	800.18	33.61	393.01	603.92	226.02
56555	27.20	3.96	-10.50	1748.87	123.75	7.59	334.67	23.79	10.96	5382.82	520.30	73.07	377.98	431.61	158.38
56556	28.62	3.96	-10.50	1796.95	99.26	14.18	301.38	17.54	13.74	4613.80	329.05	29.20	339.04	293.62	74.34
56557	30.03	3.96	-10.50	1832.42	87.72	18.43	264.44	13.99	16.93	4021.62	215.51	20.11	288.96	229.55	33.32
56558	31.44	3.96	-10.50	1860.05	84.25	21.53	225.44	11.03	18.76	3520.36	150.25	21.58	239.04	203.95	20.00
56559	32.86	3.96	-10.50	1882.46	83.98	23.41	185.21	8.74	19.83	3075.16	115.62	23.76	192.73	194.48	19.93
56560	34.27	3.96	-10.50	1900.54	84.52	24.43	144.33	6.76	20.39	2678.46	98.58	24.83	149.24	191.81	20.91
56561	35.69	3.96	-10.50	1914.39	85.02	24.92	103.20	4.86	20.68	2340.98	90.63	25.17	107.57	191.51	21.13
56562	37.10	3.96	-10.50	1923.82	85.31	25.12	62.09	2.94	20.81	2086.76	87.03	25.22	67.78	191.81	21.00
56563	38.52	3.96	-10.50	1928.59	85.44	25.19	21.42	0.99	20.86	1947.34	85.62	25.20	33.86	192.05	20.88
56564	39.93	3.96	-10.50	1928.59	85.44	25.19	21.43	1.00	20.86	1947.30	85.62	25.20	33.87	192.05	20.88
56565	41.35	3.96	-10.50	1923.80	85.32	25.12	62.09	2.95	20.81	2086.65	87.04	25.22	67.79	191.81	21.01
56566	42.76	3.96	-10.50	1914.35	85.02	24.93	103.21	4.86	20.68	2340.81	90.65	25.17	107.57	191.51	21.13
56567	44.18	3.96	-10.50	1900.49	84.52	24.44	144.34	6.76	20.40	2678.25	98.61	24.83	149.24	191.81	20.92
56568	45.59	3.96	-10.50	1882.40	83.99	23.41	185.22	8.75	19.83	3074.91	115.66	23.76	192.74	194.48	19.93
56569	47.01	3.96	-10.50	1859.96	84.27	21.53	225.45	11.04	18.76	3520.09	150.30	21.58	239.04	203.95	20.00
56570	48.42	3.96	-10.50	1832.31	87.74	18.44	264.45	14.00	16.93	4021.33	215.57	20.10	288.96	229.55	33.31
56571	49.83	3.96	-10.50	1796.82	99.28	14.18	301.38	17.54	13.74	4613.49	329.12	29.19	339.03	293.62	74.33
56572	51.25	3.96	-10.50	1748.72	123.76	7.59	334.65	23.80	10.95	5382.46	520.37	73.06	377.96	431.61	158.36
56573	52.66	3.96	-10.50	1686.08	167.49	10.33	362.76	40.30	8.24	6497.79	800.26	33.62	392.97	603.91	225.99
56574	54.08	3.96	-10.50	1611.08	257.70	146.91	444.28	107.25	122.45	8346.12	1506.09	1832.67	479.29	1903.05	260.90
56575	24.17	5.07	-10.50	1593.04	223.79	146.83	425.05	101.99	128.95	8306.07	1804.59	1549.21	429.60	1642.95	134.85
56576	25.60	5.07	-10.50	1680.65	143.36	8.75	353.25	39.45	11.20	6563.83	1133.58	182.51	362.18	489.23	32.90
56577	27.04	5.07	-10.50	1737.39	110.89	6.11	327.73	13.87	20.46	5444.01	694.87	9.42	338.06	326.92	47.48
56578	28.47	5.07	-10.50	1782.14	91.78	4.09	295.36	7.87	27.25	4658.30	378.76	7.40	296.60	165.12	32.20
56579	29.90	5.07	-10.50	1818.71	80.24	5.40	258.32	5.89	34.87	4051.49	203.62	7.12	260.13	94.25	34.88
56580	31.34	5.07	-10.50	1849.37	74.23	6.32	218.94	4.32	40.28	3538.10	119.74	7.56	231.51	69.35	41.64
56581	32.77	5.07	-10.50	1875.27	71.15	6.86	178.77	3.29	43.81	3084.86	85.93	7.46	206.45	62.04	45.83
56582	34.21	5.07	-10.50	1896.61	69.64	7.16	138.59	2.49	45.86	2683.70	74.27	7.52	182.17	61.63	47.57
56583	35.64	5.07	-10.50	1913.11	68.96	7.30	98.75	1.77	46.94	2344.03	70.43	7.48	159.24	63.06	47.96
56584	37.07	5.07	-10.50	1924.39	68.70	7.36	59.35	1.07	47.45	2088.82	69.10	7.42	140.46	64.44	47.84
56585	38.51	5.07	-10.50	1930.11	68.62	7.38	20.84	0.36	47.64	1949.02	68.66	7.39	129.57	65.19	47.68
56586	39.94	5.07	-10.50	1930.10	68.62	7.38	20.85	0.36	47.64	1948.97	68.66	7.39	129.57	65.19	47.68
56587	41.38	5.07	-10.50	1924.36	68.70	7.36	59.36	1.07	47.45	2088.68	69.10	7.43	140.46	64.44	47.84
56588	42.81	5.07	-10.50	1913.07	68.96	7.30	98.76	1.77	46.95	2343.82	70.43	7.48	159.25	63.06	47.97
56589	44.24	5.07	-10.50	1896.55	69.64	7.16	138.60	2.49	45.87	2683.44	74.28	7.52	182.18	61.63	47.58
56590	45.68	5.07	-10.50	1875.20	71.15	6.86	178.78	3.29	43.81	3084.57	85.94	7.46	206.46	62.04	45.84
56591	47.11	5.07	-10.50	1849.28	74.23	6.32	218.96	4.32	40.29	3537.79	119.75	7.56	231.52	69.36	41.65
56592	48.55	5.07	-10.50	1818.60	80.24	5.40	258.33	5.89	34.88	4051.14	203.65	7.12	260.13	94.25	34.89
56593	49.98	5.07	-10.50	1782.00	91.78	4.09	295.36	7.87	27.26	4657.92	378.78	7.40	296.59	165.11	32.20
56594	51.41	5.07	-10.50	1737.21	110.88	6.11	327.71	13.87	20.47	5443.58	694.88	9.42	338.04	326.90	47.46
56595	52.85	5.07	-10.50	1680.43	143.35	8.76	353.21	39.46	11.21	6563.29	1133.60	182.50	362.14	489.22	32.86
56596	54.28	5.07	-10.50	1592.73	223.85	146.76	424.98	101.89	128.97	8305.40	1804.64	1549.06	429.52	1642.82	134.83
56597	23.91	6.17	-10.50	1567.06	190.06	129.15	390.91	94.07	135.99	8389.83	1775.89	1541.68	450.38	1641.12	336.66
56598	25.37	6.17	-10.50	1664.28	110.59	10.69	322.59	45.21	21.04	6658.28	1043.42	168.39	374.16	467.80	312.48
56599	26.83	6.17	-10.50	1721.56	79.09	5.92	293.10	21.47	28.63	5513.60	602.39	8.66	366.95	322.39	177.54
56600	28.29	6.17	-10.50	1764.12	67.87	6.92	261.34	14.45	34.04	4690.86	300.49	7.69	406.36	168.75	92.75
56601	29.75	6.17	-10.50	1802.79	62.89	8.24	227.70	10.79	39.77	4063.73	143.18	8.62	445.40	100.63	58.87
56602	31.21	6.17	-10.50	1838.14	60.83	9.31	192.64	8.21	44.53	3542.76	78.90	9.42	467.40	77.27	51.41
56603	32.66	6.17	-10.50	1869.24	60.09	10.00	157.15	6.28	47.73	3088.12	62.51	10.13	474.37	70.83	50.79
56604	34.12	6.17	-10.50	1895.31	60.03	10.38	121.82	4.68	49.62	2687.94	60.21	10.46	472.45	70.89	51.21
56605	35.58	6.17	-10.50	1915.60	60.25	10.56	86.85	3.26	50.60	2349.52	60.25	10.60	467.04	72.58	51.40
56606	37.04	6.17	-10.50	1929.47	60.52	10.63	52.33	1.94	51.05	2095.08	60.52	10.65	461.76	74.09	51.34
56607	38.50	6.17	-10.50	1936.51	60.70	10.65	18.83	0.71	51.22	1955.56	60.70	10.66	458.67	74.90	51.25
56608	39.95	6.17	-10.50	1936.51	60.70	10.65	18.83	0.71	51.22	1955.51	60.70	10.66	458.67	74.90	51.25
56609	41.41	6.17	-10.50	1929.45	60.53	10.63	52.33	1.95	51.05	2094.92	60.52	10.65	461.76	74.09	51.35
56610	42.87	6.17	-10.50	1915.55	60.25	10.56	86.86	3.26	50.61	2349.28	60.25	10.61	467.04	72.58	51.40
56611	44.33	6.17	-10.50	1895.25	60.03	10.38	121.82	4.69	49.62	2687.64	60.21	10.46	472.45	70.89	51.22
56612	45.79	6.17	-10.50	1869.16	60.09	10.00	157.16	6.28	47.74	3087.78	62.50	10.13	474.37	70.83	50.81
56613	47.24	6.17	-10.50	1838.04	60.82	9.31	192.65	8.21	44.54	3542.39	78.90	9.43	467.40	77.27	51.42
56614	48.70	6.17	-10.50	1802.67	62.88	8.24	227.71	10.79	39.77	4063.32	143.17	8.62	445.40	100.63	58.89
56615	50.16	6.17	-10.50	1763.97	67.86	6.92	261.34	14.45	34.04	4690.42	300.47	7.69	406.36	168.75	92.77
56616	51.62	6.17	-10.50	1721.38	79.07	5.92	293.08	21.46	28.64	5513.12	602.36	8.67	366.92	322.	

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
56645	29.39	8.10	-9.50	1491.38	56.87	95.97	121.23	132.45	51.18	3594.21	57.09	194.70	824.12	1339.01	59.46
56646	30.91	8.10	-9.50	1544.29	64.26	107.19	110.75	112.62	58.40	3130.13	65.03	135.40	792.92	1281.88	65.90
56647	32.42	8.10	-9.50	1591.37	68.89	114.61	82.85	93.06	63.48	2721.66	69.42	121.86	764.62	1254.52	67.86
56648	33.93	8.10	-9.50	1630.44	71.35	119.01	64.37	73.22	66.75	2363.20	71.55	121.15	743.83	1243.10	68.92
56649	35.44	8.10	-9.50	1660.29	72.46	121.36	46.07	52.92	68.66	2060.67	72.52	122.07	730.36	1239.22	69.59
56650	36.96	8.10	-9.50	1680.39	72.86	122.45	27.89	32.25	69.65	1833.08	72.87	122.66	722.55	1238.39	69.95
56651	38.47	8.10	-9.50	1690.48	72.97	122.86	10.24	11.91	70.06	1708.05	72.97	122.88	719.00	1238.41	70.09
56652	39.98	8.10	-9.50	1690.47	72.97	122.86	10.25	11.93	70.06	1707.98	72.97	122.88	719.00	1238.41	70.10
56653	41.49	8.10	-9.50	1680.37	72.86	122.45	27.91	32.26	69.66	1832.89	72.87	122.67	722.55	1238.38	69.95
56654	43.01	8.10	-9.50	1660.25	72.46	121.36	46.09	52.93	68.67	2060.38	72.52	122.08	730.36	1239.21	69.60
56655	44.52	8.10	-9.50	1630.37	71.35	119.02	64.38	73.24	66.76	2362.85	71.55	121.17	743.83	1243.09	68.93
56656	46.03	8.10	-9.50	1591.29	68.89	114.61	82.87	93.08	63.49	2721.26	69.42	121.89	764.61	1254.50	67.88
56657	47.54	8.10	-9.50	1544.18	64.26	107.20	101.77	112.63	58.41	3129.69	65.03	135.43	792.91	1281.86	65.92
56658	49.06	8.10	-9.50	1491.25	56.87	95.98	121.25	132.46	51.19	3593.72	57.10	194.73	824.10	1338.97	59.49
56659	50.57	8.10	-9.50	1437.37	46.83	81.21	142.23	153.79	41.88	4128.68	53.17	359.19	832.17	1443.56	43.11
56660	52.08	8.10	-9.50	1389.29	36.73	64.77	162.34	176.99	32.62	4733.54	80.40	608.10	784.07	1606.22	92.58
56661	53.59	8.10	-9.50	1374.35	45.58	67.12	200.11	192.83	17.44	5477.39	214.82	1198.14	485.95	1999.44	335.69
56662	55.10	8.10	-9.50	1254.03	136.61	46.89	236.08	224.03	58.65	5173.61	590.70	1916.46	316.28	1794.32	327.48
56663	23.13	8.70	-9.50	1487.62	127.80	32.90	241.09	234.12	36.51	6453.30	510.16	2136.82	846.37	2374.79	129.95
56664	24.66	8.70	-9.50	1315.07	23.27	23.23	51.62	199.88	24.87	5388.97	26.61	960.37	172.37	2334.28	83.25
56665	26.20	8.70	-9.50	1345.90	12.19	61.47	52.67	160.38	36.09	4577.74	37.51	270.82	225.93	1841.79	82.07
56666	27.73	8.70	-9.50	1401.65	11.75	97.92	41.62	130.03	47.00	3979.77	12.70	117.70	267.88	1565.63	96.36
56667	29.26	8.70	-9.50	1464.91	13.13	125.38	35.38	111.58	57.35	3495.32	13.13	128.33	261.04	1420.67	86.42
56668	30.79	8.70	-9.50	1525.15	14.39	144.58	29.66	97.56	65.60	3074.52	14.68	153.29	247.17	1358.38	79.54
56669	32.33	8.70	-9.50	1578.02	15.12	156.43	24.37	83.99	71.39	2694.44	15.33	164.13	234.67	1338.49	77.59
56670	33.86	8.70	-9.50	1621.48	15.48	162.93	19.15	68.70	75.06	2351.47	15.59	167.75	225.96	1337.16	77.73
56671	35.39	8.70	-9.50	1654.54	15.61	166.05	13.85	51.18	77.14	2055.87	15.64	168.45	220.53	1341.85	78.23
56672	36.93	8.70	-9.50	1676.74	15.62	167.30	8.45	31.82	78.20	1830.41	15.63	168.14	217.49	1346.86	78.54
56673	38.46	8.70	-9.50	1687.87	15.60	167.68	3.11	11.87	78.62	1705.59	15.61	167.77	216.14	1349.78	78.66
56674	39.99	8.70	-9.50	1687.86	15.60	167.69	3.11	11.88	78.62	1705.51	15.61	167.78	216.15	1349.78	78.66
56675	41.52	8.70	-9.50	1676.71	15.62	167.30	8.45	31.83	78.20	1830.19	15.63	168.16	217.49	1346.85	78.55
56676	43.06	8.70	-9.50	1654.49	15.61	166.06	13.86	51.19	77.15	2055.55	15.64	168.48	220.53	1341.84	78.24
56677	44.59	8.70	-9.50	1621.41	15.48	162.95	19.15	68.71	75.06	2351.08	15.59	167.79	225.96	1337.15	77.75
56678	46.12	8.70	-9.50	1577.93	15.12	156.45	24.37	84.00	71.40	2693.99	15.33	164.17	234.67	1338.47	77.61
56679	47.66	8.70	-9.50	1525.05	14.39	144.60	29.66	97.57	65.61	3074.02	14.68	153.34	247.17	1358.36	79.57
56680	49.19	8.70	-9.50	1464.77	13.14	125.40	35.38	111.59	57.36	3494.78	13.13	128.37	261.03	1420.63	86.46
56681	50.72	8.70	-9.50	1401.50	11.75	97.95	41.63	130.04	47.02	3979.20	12.70	117.67	267.87	1565.57	96.40
56682	52.25	8.70	-9.50	1345.72	12.20	61.50	52.68	160.39	36.10	4577.11	37.52	270.70	225.92	1841.69	82.11
56683	53.79	8.70	-9.50	1314.87	23.27	23.12	51.62	199.87	24.88	5388.27	26.61	960.11	172.36	2334.08	83.21
56684	55.32	8.70	-9.50	1487.42	127.79	32.72	241.07	234.13	36.56	6452.71	510.21	2136.32	846.39	2374.36	129.87
56685	23.35	8.10	-10.50	1616.59	162.49	56.52	308.58	60.00	99.47	9309.95	1009.62	1929.94	320.66	2182.00	335.68
56686	24.86	8.10	-10.50	1632.75	42.92	19.82	170.27	59.29	18.92	7034.28	63.50	145.18	287.29	710.54	247.77
56687	26.37	8.10	-10.50	1654.31	28.73	14.13	120.05	46.88	26.96	5568.43	46.78	165.73	325.26	531.83	77.51
56688	27.88	8.10	-10.50	1709.63	40.48	17.42	102.35	37.30	37.73	4655.66	51.46	74.71	349.58	414.67	39.44
56689	29.39	8.10	-10.50	1765.30	51.03	19.71	88.08	31.87	47.16	4006.05	60.30	38.89	384.63	358.71	48.09
56690	30.91	8.10	-10.50	1818.40	59.93	21.33	75.73	27.54	54.26	3504.33	64.97	25.04	401.09	339.96	55.63
56691	32.42	8.10	-10.50	1865.57	66.18	22.37	63.26	23.30	59.03	3076.71	68.94	23.04	407.52	336.62	59.96
56692	33.93	8.10	-10.50	1904.93	70.17	22.96	50.23	18.74	61.94	2697.82	71.57	23.09	408.55	338.72	62.43
56693	35.44	8.10	-10.50	1935.24	72.46	23.24	36.55	13.78	63.54	2371.98	73.11	23.28	407.69	341.81	63.76
56694	36.96	8.10	-10.50	1955.79	73.65	23.36	22.39	8.49	64.32	2123.22	73.87	23.37	406.55	344.26	64.40
56695	38.47	8.10	-10.50	1966.14	74.14	23.40	8.36	3.17	64.63	1985.45	74.16	23.40	405.85	345.54	64.64
56696	39.98	8.10	-10.50	1966.14	74.14	23.40	8.35	3.17	64.63	1985.38	74.16	23.40	405.85	345.54	64.64
56697	41.49	8.10	-10.50	1955.76	73.65	23.36	22.39	8.50	64.32	2123.01	73.87	23.37	406.54	344.25	64.40
56698	43.01	8.10	-10.50	1935.20	72.47	23.24	36.55	13.78	63.54	2371.68	73.12	23.28	407.68	341.81	63.77
56699	44.52	8.10	-10.50	1904.86	70.17	22.96	50.23	18.74	61.94	2697.45	71.58	23.09	408.55	338.72	62.44
56700	46.03	8.10	-10.50	1865.48	66.19	22.37	63.26	23.30	59.04	3076.28	68.96	23.05	407.51	336.62	59.97
56701	47.54	8.10	-10.50	1818.29	59.94	21.33	75.73	27.54	54.27	3503.87	64.99	25.04	401.09	339.96	55.64
56702	49.06	8.10	-10.50	1765.17	51.04	19.71	88.08	31.88	47.17	4005.55	60.33	38.90	384.63	358.70	48.10
56703	50.57	8.10	-10.50	1709.47	40.49	17.42	102.35	37.30	37.74	4655.12	51.49	74.71	349.57	414.66	39.44
56704	52.08	8.10	-10.50	1654.11	28.74	14.13	120.04	46.88	26.97	5567.84	46.82	165.72	325.24	531.80	77.48
56705	53.59	8.10	-10.50	1632.50	42.92	19.82	170.24	59.29	18.91	7033.62	63.47	145.19	287.24	710.50	247.72
56706	55.10	8.10	-10.50	1616.21	162.45	56.31	308.51	59.70	99.49	9309.00	1009.61	1929.63	320.62	2181.66	335.73
56707	23.13	8.70	-10.50	1882.40	134.02	58.32	295.67	57.49	71.61	10818.01	802.54	2152.00	819.06	2620.48	80.25
56708	24.66	8.70	-10.50	1568.79	11.18	8.30	48.25	74.94	20.86	7048.51	148.99	93.04	228.97	881.82	102.53
56709	26.20	8.70	-10.50	1612.97	9.91	17.33	41.41	43.49	20.38	5594.02	14.25	107.03	97.78	628.45	33.26
56710	27.73	8.70	-10.50	1681.13	9.09	26.93	32.38	31.41	28.42	4608.86	28.68	30.45	124.76	454.75	34.59
56711	29.26	8.70	-10.50	1749.78	12.52	35.49	28.01	25.98	35.33	3963.66	16.95	35.80	135.10	387.71	40.23
56712	30.79	8.70	-10.50	1812.76	15.00	41.07	24.28	23.69	40.87	3480.97	17.14	43.12	142.68	371.80	42.92
56713	32.33	8.70	-10.50	1867.77	16.84	44.55	20.62	21.54	44.57	3071.91	17.63	46.23	145.53	376.18	45.49
56714	33.86	8.70	-10.50	1913.00	18.01	46.43									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
56743	58.44	-8.10	0.25	671.37	13.20	336.00	16.63	317.63	83.37	2979.98	24.46	409.68	16.91	798.31	90.03
56744	58.69	-8.10	0.25	676.60	15.95	345.76	13.44	394.81	74.86	2702.53	48.71	385.68	15.18	773.79	81.08
56745	59.46	-8.10	0.25	672.55	18.93	352.95	3.54	273.08	52.76	2926.27	18.15	325.99	53.42	604.29	59.80
56746	59.74	-8.10	0.25	660.38	28.64	379.75	19.54	368.86	45.40	2692.99	28.33	404.80	23.02	597.42	63.19
56747	60.49	-8.10	0.25	648.32	61.82	371.39	35.57	250.31	90.45	2754.86	89.72	522.87	75.73	488.55	97.44
56748	60.78	-8.10	0.25	732.88	59.29	457.95	89.45	408.83	82.93	2990.70	162.09	721.86	340.89	493.41	82.23
56749	56.33	-8.10	-1.25	535.10	58.88	336.19	13.17	474.67	179.10	1859.02	332.57	1692.05	82.72	1552.32	205.09
56750	56.57	-8.10	-1.25	609.52	126.38	517.07	60.88	529.82	190.14	1810.65	323.77	1677.74	132.24	1464.34	283.89
56751	57.28	-8.10	-1.25	455.96	55.56	355.16	38.25	417.34	123.70	1878.27	316.43	1233.48	61.24	1077.71	157.23
56752	57.52	-8.10	-1.25	522.87	111.83	583.35	41.27	479.02	156.34	1728.80	375.07	1342.63	77.92	995.14	267.27
56753	58.23	-8.10	-1.25	415.81	51.89	368.34	37.28	360.53	82.79	1881.06	221.10	704.00	58.99	826.82	83.73
56754	58.48	-8.10	-1.25	466.58	94.14	600.60	31.25	423.52	123.97	1664.34	249.20	876.98	28.68	731.61	190.80
56755	59.17	-8.10	-1.25	400.00	50.00	384.90	36.79	307.45	60.53	1856.67	124.26	355.33	114.62	688.37	61.18
56756	59.44	-8.10	-1.25	423.03	96.26	603.48	25.46	367.76	115.52	1664.17	200.13	599.13	64.59	562.22	152.17
56757	60.12	-8.10	-1.25	385.46	119.79	392.76	78.06	256.89	98.51	1739.46	138.43	404.23	122.68	584.27	106.03
56758	60.40	-8.10	-1.25	413.59	136.23	565.14	66.10	348.88	139.48	1833.49	146.18	586.46	263.12	498.31	200.21
56759	23.34	-8.10	1.75	1004.01	42.35	269.14	77.86	499.61	59.65	3639.26	49.09	413.10	254.04	1759.39	58.58
56760	23.13	-8.10	1.75	962.87	13.22	124.72	25.71	393.29	27.43	3627.86	18.45	441.24	85.04	1490.09	26.29
56761	24.85	-8.10	1.75	1061.84	27.59	192.92	77.11	506.09	34.10	3392.39	35.28	309.49	276.10	2077.03	35.68
56762	24.66	-8.10	1.75	1026.84	5.98	103.84	23.78	390.32	12.63	3402.58	9.65	375.51	86.63	1811.01	15.81
56763	26.37	-8.10	1.75	1115.84	13.20	127.54	72.17	475.40	15.52	3133.18	27.83	182.01	298.17	2305.27	25.58
56764	26.19	-8.10	1.75	1092.98	4.29	79.77	21.99	369.74	10.61	3138.39	7.61	280.36	89.78	2046.40	14.96
56765	27.88	-8.10	1.75	1162.71	16.29	96.67	64.35	426.12	33.46	2871.13	32.99	103.22	321.32	2473.17	41.30
56766	27.73	-8.10	1.75	1152.73	5.40	61.56	18.49	337.57	26.72	2869.68	10.19	211.32	97.97	216.24	28.63
56767	29.39	-8.10	1.75	1207.00	27.91	103.04	56.22	370.13	52.57	2601.24	40.49	104.55	339.72	2595.86	58.94
56768	29.26	-8.10	1.75	1205.09	8.09	48.46	15.95	299.85	38.67	2598.85	12.21	164.16	105.74	2343.27	39.96
56769	30.91	-8.10	1.75	1248.72	37.29	124.76	48.03	312.14	65.44	2330.89	46.74	137.77	353.01	2680.02	70.93
56770	30.79	-8.10	1.75	1249.97	10.67	39.49	13.88	258.41	45.91	2328.35	13.73	126.73	111.18	2434.34	47.01
56771	32.42	-8.10	1.75	1286.04	43.64	145.88	39.63	254.06	73.31	2069.57	50.47	164.03	362.07	2734.35	77.11
56772	32.33	-8.10	1.75	1287.71	12.52	33.76	11.72	214.41	49.90	2066.16	14.67	95.54	115.00	2495.37	50.81
56773	33.93	-8.10	1.75	1317.27	47.60	161.95	31.02	196.57	77.77	1828.08	52.04	178.20	368.02	2767.46	80.82
56774	33.86	-8.10	1.75	1318.25	13.71	30.44	9.36	168.54	51.87	1824.01	15.09	70.08	117.65	2533.10	52.52
56775	35.44	-8.10	1.75	1341.34	49.89	172.77	22.27	139.81	80.09	1620.14	52.29	183.29	371.76	2786.47	81.79
56776	35.39	-8.10	1.75	1341.39	14.41	28.71	6.83	121.31	52.70	1616.41	15.15	50.34	119.43	2554.31	53.07
56777	36.96	-8.10	1.75	1357.62	51.09	179.23	13.43	83.69	81.16	1463.49	51.99	183.59	373.92	2796.53	81.81
56778	36.93	-8.10	1.75	1356.93	14.79	27.91	4.17	73.16	52.98	1461.02	15.06	36.32	120.52	2564.90	53.11
56779	38.47	-8.10	1.75	1365.82	51.59	182.22	4.60	28.16	81.57	1377.95	51.69	182.74	374.90	2800.81	81.64
56780	38.46	-8.10	1.75	1364.74	14.94	27.61	1.45	24.53	53.03	1376.64	14.98	28.62	121.03	2569.11	53.05
56781	39.98	-8.10	1.75	1365.81	51.59	182.22	4.60	28.20	81.57	1377.92	51.69	182.73	374.90	2800.81	81.64
56782	39.99	-8.10	1.75	1364.73	14.94	27.61	1.45	24.57	53.03	1376.61	14.98	28.59	121.03	2569.12	53.05
56783	41.49	-8.10	1.75	1367.61	51.09	179.24	13.43	83.73	81.16	1463.40	51.98	183.57	373.92	2796.55	81.81
56784	41.52	-8.10	1.75	1356.92	14.79	27.91	4.17	73.20	52.98	1460.94	15.06	36.25	120.52	2564.95	53.11
56785	43.01	-8.10	1.75	1341.32	49.89	172.78	22.27	139.85	80.09	1620.02	52.28	183.25	371.77	2786.51	81.79
56786	43.06	-8.10	1.75	1341.37	14.41	28.70	6.83	121.36	52.70	1616.30	15.15	50.25	119.43	2554.38	53.07
56787	44.52	-8.10	1.75	1317.25	47.61	161.96	31.03	196.61	77.77	1827.95	52.04	178.16	368.03	2767.51	80.82
56788	44.59	-8.10	1.75	1318.22	13.71	30.44	9.36	168.59	51.87	1823.86	15.08	69.99	117.66	2533.20	52.52
56789	46.03	-8.10	1.75	1286.00	43.65	145.90	39.63	254.10	73.31	2069.44	50.46	164.00	362.08	2734.42	77.71
56790	46.12	-8.10	1.75	1287.66	12.52	33.76	11.72	214.46	49.90	2066.02	14.67	95.46	115.01	2495.52	50.81
56791	47.54	-8.10	1.75	1248.68	37.29	124.79	48.03	312.18	65.45	2330.76	46.74	137.76	353.02	2680.11	70.94
56792	47.66	-8.10	1.75	1249.92	10.67	39.49	13.88	258.46	45.91	2328.21	13.73	126.67	111.18	2434.52	47.02
56793	49.06	-8.10	1.75	1206.94	27.92	103.08	56.22	370.16	52.58	2601.13	40.50	104.57	339.73	2595.98	58.96
56794	49.19	-8.10	1.75	1205.02	8.10	48.46	15.95	299.90	38.67	2598.76	12.21	164.13	105.74	2343.50	39.97
56795	50.57	-8.10	1.75	1162.64	16.30	96.71	64.35	426.15	33.48	2871.04	33.01	103.23	321.33	2473.34	41.34
56796	50.72	-8.10	1.75	1152.64	5.41	61.57	18.49	337.61	26.73	2869.66	10.19	211.34	97.97	2216.49	28.65
56797	52.08	-8.10	1.75	1115.76	13.22	127.58	72.16	475.43	15.55	3133.12	27.85	181.98	298.20	2305.54	25.64
56798	52.26	-8.10	1.75	1092.88	4.30	79.79	21.98	369.77	10.63	3138.49	7.61	280.44	89.78	2046.42	15.00
56799	53.60	-8.10	1.75	1061.75	27.61	192.95	77.11	506.11	34.12	3392.40	35.29	309.42	276.18	2077.44	35.68
56800	53.79	-8.10	1.75	1026.74	5.99	103.87	23.77	390.33	12.65	3402.79	9.65	375.60	86.67	1811.15	15.80
56801	55.11	-8.10	1.75	1003.91	42.37	269.18	77.85	499.63	59.67	3639.45	49.07	413.06	254.12	1759.98	58.57
56802	55.32	-8.10	1.75	962.77	13.22	124.76	25.70	393.27	27.45	3628.14	18.45	441.21	85.09	1490.22	26.30
56803	23.34	-8.10	0.25	775.77	10.41	209.10	5.07	498.52	62.08	2728.80	15.82	771.79	38.14	1935.32	61.33
56804	23.13	-8.10	0.25	752.14	14.69	165.13	16.04	447.22	76.01	2731.56	20.07	842.12	17.22	1859.65	86.07
56805	24.86	-8.10	0.25	834.28	16.41	130.73	16.13	488.69	35.90	2478.99	20.72	558.97	56.71	2268.03	42.57
56806	24.66	-8.10	0.25	798.71	9.45	90.63	23.55	440.72	44.92	2482.62	11.80	627.44	25.63	2222.91	47.94
56807	26.37	-8.10	0.25	855.52	2.86	90.97	9.62	443.86	8.71	2256.79	5.00	366.66	56.20	2479.29	10.69
56808	26.20	-8.10	0.25	834.56	5.70	84.18	14.07	405.39	13.42	2252.46	5.70	454.98	17.00	2448.30	18.70
56809	27.88	-8.10	0.25	867.90	3.50	72.10	9.79	393.06	13.01	2031.70	6.49	233.87	57.00	2645.75	16.40
56810	27.73	-8.10	0.25	870.89	1.17	111.39	4.89	366.24	14.50	2039.38	1.19	353.27	7.75	2634.46	20.20
56811	29.39	-8.10	0.25	882.97	7.58	63.88	10.76	340.49	24.13	1812.32	9.49	137.53	60.02	2765.09	27.31
56812	29.26	-8.10	0.25	903.15	0.98	135.66	1.46	323.70	27.98	1833.44	0				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
56841	52.08	-8.10	0.25	855.45	2.86	90.99	9.62	443.90	8.72	2256.39	5.02	366.69	56.25	2479.55	10.74
56842	52.25	-8.10	0.25	834.47	5.70	84.23	14.06	405.44	13.43	2252.42	5.70	454.90	17.02	2448.68	18.76
56843	53.59	-8.70	0.25	834.19	16.41	130.75	16.12	488.73	35.90	2478.57	20.73	558.84	56.72	2268.47	42.60
56844	53.79	-8.70	0.25	798.61	9.45	90.69	23.55	440.74	44.92	2482.72	11.81	627.44	25.61	2223.29	47.96
56845	55.11	-8.10	0.25	775.66	10.42	209.11	5.09	498.55	62.09	2728.72	15.94	771.37	37.90	1936.08	61.33
56846	55.32	-8.70	0.25	752.04	14.70	165.18	16.05	447.21	76.01	2731.67	20.14	842.14	17.29	1860.05	86.02
56847	23.34	-8.10	-1.25	639.20	77.55	216.66	103.01	514.30	124.96	1852.09	134.27	1352.26	103.82	2284.63	207.35
56848	23.13	-8.70	-1.25	653.03	30.84	295.70	101.16	524.48	123.05	1849.91	101.54	1324.99	99.07	2179.52	122.35
56849	24.86	-8.10	-1.25	618.15	4.24	76.25	51.10	457.62	32.62	1618.26	23.30	784.22	50.82	2530.31	38.95
56850	24.66	-8.70	-1.25	571.76	24.62	76.91	55.53	448.91	38.40	1606.79	28.09	836.10	58.34	2439.72	44.16
56851	26.37	-8.10	-1.25	588.85	5.73	46.53	29.03	409.89	14.13	1410.12	5.75	572.93	32.66	2745.07	18.14
56852	26.20	-8.70	-1.25	577.71	4.37	58.37	29.06	404.15	14.63	1411.93	4.49	647.72	29.48	2653.62	14.47
56853	27.88	-8.10	-1.25	571.66	1.11	47.53	15.31	366.51	6.83	1209.92	2.67	398.37	21.09	2907.17	14.61
56854	27.73	-8.70	-1.25	596.94	2.18	125.16	14.37	361.25	6.24	1255.33	2.54	498.76	14.64	2846.76	14.94
56855	29.39	-8.10	-1.25	565.16	0.56	49.36	6.97	320.86	11.43	1040.10	0.50	262.27	14.68	3015.50	21.04
56856	29.26	-8.70	-1.25	618.47	0.80	176.09	5.92	318.23	9.88	1110.29	1.15	380.83	5.97	2998.05	18.75
56857	30.91	-8.10	-1.25	568.42	0.63	48.42	2.41	273.19	16.84	905.30	0.69	161.37	11.50	3083.51	24.89
56858	30.79	-8.70	-1.25	637.84	1.29	212.87	1.31	272.91	14.96	983.77	2.03	303.80	2.08	3101.91	22.92
56859	32.42	-8.10	-1.25	578.46	0.35	46.41	0.89	224.16	20.59	803.38	0.44	94.40	10.53	3124.04	26.57
56860	32.33	-8.70	-1.25	654.21	1.32	238.04	1.28	225.46	18.50	879.95	1.99	269.76	3.08	3166.64	24.38
56861	33.93	-8.10	-1.25	591.54	0.34	44.91	1.30	174.46	22.89	728.38	0.31	58.25	10.90	3147.61	26.67
56862	33.86	-8.70	-1.25	667.68	1.04	254.51	1.90	176.47	20.68	800.49	1.44	263.19	3.32	3203.41	24.40
56863	35.44	-8.10	-1.25	604.23	0.62	44.35	1.30	124.57	24.18	674.85	0.65	46.01	11.82	3161.02	26.13
56864	35.39	-8.70	-1.25	678.20	0.74	264.65	1.75	126.52	21.89	744.31	0.89	266.51	2.59	3222.64	23.80
56865	36.96	-8.10	-1.25	614.00	0.85	44.41	0.93	74.68	24.82	639.74	0.88	44.41	12.72	3168.24	25.53
56866	36.93	-8.70	-1.25	685.50	0.51	270.32	1.19	76.06	22.49	708.89	0.55	270.62	1.55	3231.81	23.17
56867	38.47	-8.10	-1.25	619.26	0.97	44.60	0.46	24.87	25.08	622.14	0.97	44.59	13.25	3171.39	25.16
56868	38.46	-8.70	-1.25	689.27	0.40	272.83	0.50	25.35	22.73	691.85	0.40	272.85	0.64	3235.39	22.80
56869	39.98	-8.10	-1.25	619.26	0.97	44.60	0.46	24.95	25.08	622.12	0.97	44.59	13.25	3171.40	25.16
56870	39.99	-8.70	-1.25	689.27	0.40	272.83	0.50	25.43	22.73	691.83	0.40	272.85	0.64	3235.40	22.80
56871	41.49	-8.10	-1.25	614.00	0.85	44.42	0.93	74.76	24.83	639.66	0.88	44.41	12.72	3168.26	25.52
56872	41.52	-8.70	-1.25	685.51	0.51	270.32	1.19	76.14	22.49	708.81	0.54	270.61	1.55	3231.85	23.17
56873	43.01	-8.10	-1.25	604.24	0.62	44.36	1.30	124.64	24.18	674.73	0.65	46.02	11.82	3161.05	26.12
56874	43.06	-8.70	-1.25	678.20	0.74	264.65	1.75	126.61	21.89	744.17	0.89	266.50	2.59	3222.71	23.79
56875	44.52	-8.10	-1.25	591.55	0.34	44.92	1.30	174.54	22.89	728.21	0.31	58.26	10.90	3147.66	26.66
56876	44.59	-8.70	-1.25	667.69	1.04	254.52	1.90	176.55	20.68	800.30	1.44	263.17	3.32	3203.51	24.39
56877	46.03	-8.10	-1.25	578.47	0.35	46.42	0.89	224.23	20.59	803.17	0.44	94.41	10.53	3124.10	26.57
56878	46.12	-8.70	-1.25	654.22	1.32	238.05	1.28	225.54	18.51	879.70	1.98	269.70	3.08	3166.78	24.38
56879	47.54	-8.10	-1.25	568.42	0.63	48.43	2.41	273.26	16.85	905.04	0.69	161.39	11.49	3083.60	24.89
56880	47.66	-8.70	-1.25	637.84	1.29	212.88	1.31	272.99	14.96	983.48	2.03	303.68	2.09	3102.09	22.92
56881	49.06	-8.10	-1.25	565.16	0.56	49.37	6.97	320.93	11.43	1039.76	0.50	262.31	14.66	3015.61	21.04
56882	49.19	-8.70	-1.25	618.46	0.80	176.11	5.92	318.30	9.88	1109.96	1.15	380.63	5.97	2998.28	18.75
56883	50.57	-8.10	-1.25	571.64	1.11	47.53	15.30	366.58	6.84	1209.45	2.66	398.43	21.05	2907.31	14.63
56884	50.72	-8.70	-1.25	596.91	2.18	125.19	14.37	361.33	6.25	1254.99	2.54	498.50	14.62	2847.06	14.96
56885	52.08	-8.10	-1.25	588.80	5.72	46.52	29.02	409.96	14.13	1409.44	5.75	572.99	32.62	2745.24	18.17
56886	52.25	-8.70	-1.25	577.65	4.37	58.44	29.06	404.22	14.64	1411.62	4.48	647.38	29.46	2654.03	14.47
56887	53.59	-8.10	-1.25	618.05	4.25	76.25	51.10	457.68	32.61	1617.19	23.28	784.20	50.81	2530.62	38.79
56888	53.79	-8.70	-1.25	571.65	24.61	76.92	55.50	448.97	38.39	1606.47	28.04	835.60	58.35	2440.25	44.27
56889	55.11	-8.10	-1.25	638.94	77.46	216.70	102.93	514.33	124.93	1850.35	134.42	1351.36	103.69	2285.49	207.38
56890	55.32	-8.70	-1.25	652.90	30.81	295.71	101.16	524.52	123.03	1849.47	101.59	1324.50	99.06	2180.34	122.33
56891	17.58	-8.10	1.75	848.36	75.99	366.97	107.94	281.70	131.63	3694.91	237.15	883.34	105.96	364.11	216.62
56892	17.29	-8.70	1.75	1002.52	86.67	345.96	167.85	373.76	111.60	4141.58	235.60	879.19	489.40	395.08	128.65
56893	18.70	-8.10	1.75	919.02	53.41	370.86	96.11	314.23	86.76	3941.00	106.33	660.68	92.87	610.09	165.80
56894	18.42	-8.70	1.75	867.29	2.36	212.60	45.36	323.96	52.79	3719.91	14.43	438.47	45.15	545.30	83.10
56895	19.81	-8.10	1.75	925.54	57.96	360.25	73.97	352.88	86.75	3973.88	84.57	397.03	147.38	843.97	122.91
56896	19.55	-8.70	1.75	867.55	21.76	158.55	34.99	341.28	49.21	3738.86	35.21	140.35	51.13	719.46	57.05
56897	20.92	-8.10	1.75	936.03	58.22	348.61	74.49	407.83	85.11	3928.47	71.06	365.86	192.66	1109.12	93.75
56898	20.67	-8.70	1.75	885.61	20.17	137.31	28.12	365.37	47.06	3762.85	24.60	259.73	78.28	907.81	46.50
56899	22.03	-8.10	1.75	960.25	51.86	322.92	76.76	459.89	77.85	3821.87	56.30	437.26	224.65	1421.35	78.19
56900	21.80	-8.70	1.75	914.75	20.57	133.16	27.44	383.59	40.02	3748.46	23.17	418.63	84.17	1154.42	42.77
56901	17.96	-8.10	0.25	648.44	61.67	371.27	35.56	250.42	90.76	2752.29	90.11	523.25	75.40	487.99	97.44
56902	17.67	-8.70	0.25	732.98	59.19	457.93	89.43	408.94	83.00	2988.64	162.28	721.96	340.62	492.82	82.28
56903	18.99	-8.10	0.25	672.66	19.10	352.86	3.54	273.18	52.77	2923.93	18.40	325.82	53.37	603.41	59.72
56904	18.71	-8.70	0.25	660.45	28.74	379.72	19.51	368.89	45.41	2691.52	28.46	404.82	22.92	596.29	63.44
56905	20.01	-8.10	0.25	671.49	13.29	335.93	16.60	317.67	83.37	2978.10	24.76	409.89	16.95	797.13	89.96
56906	19.76	-8.70	0.25	676.61	16.03	345.74	13.41	394.87	74.81	2701.72	48.91	385.61	15.16	772.70	81.25
56907	21.04	-8.10	0.25	689.39	11.48	314.19	17.48	380.01	95.72	3004.76	62.44	690.94	17.38	1098.04	105.02
56908	20.80	-8.70	0.25	702.05	19.02	296.92	16.48	418.64	93.91	2784.05	77.30	668.12	20.60	1012.89	107.53
56909	22.07	-8.10	0.25	724.90	14.30	279.18	3.76	447.02	87.08	2955.98	68.14	858.71	4.06	1512.89	97.75
56910	21.84	-8.70	0.25	725.77	21.76	239.65	8.81	434.25	93.18	2864.67	71.68	892.72	25.72	1367.46	107.71
56911	18.33	-8.10	-1.25	385.30	120.13	392.62	78.07	256.87	98.74	1734.48	139.33	404.07			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
56939	36.96	-8.10	-2.70	341.89	1.95	44.26	1.22	70.52	8.74	340.74	1.95	47.60	4.54	3249.46	9.98
56940	36.93	-8.70	-2.70	472.85	0.41	314.05	1.21	73.13	8.84	472.18	0.41	314.11	1.21	3320.11	10.12
56941	38.47	-8.10	-2.70	349.41	1.83	42.89	0.55	23.54	8.81	349.28	1.83	43.16	3.72	3251.04	8.95
56942	38.46	-8.70	-2.70	477.11	0.56	317.42	0.54	24.40	8.92	477.03	0.56	317.42	0.53	3321.20	9.06
56943	39.98	-8.10	-2.70	349.41	1.83	42.89	0.55	23.64	8.81	349.28	1.83	43.16	3.72	3251.05	8.95
56944	39.99	-8.70	-2.70	477.11	0.56	317.42	0.54	24.49	8.92	477.03	0.56	317.42	0.53	3321.20	9.06
56945	41.49	-8.10	-2.70	341.92	1.95	44.26	1.22	70.61	8.74	340.73	1.95	47.59	4.54	3249.47	9.97
56946	41.52	-8.70	-2.70	472.86	0.41	314.05	1.21	73.22	8.84	472.18	0.41	314.11	1.21	3320.14	10.12
56947	43.01	-8.10	-2.70	327.89	2.17	46.72	1.70	117.35	8.60	324.58	2.23	61.49	5.84	3245.93	11.94
56948	43.06	-8.70	-2.70	464.59	0.15	306.41	1.67	121.80	8.68	463.15	0.42	307.25	2.33	3317.02	12.15
56949	44.52	-8.10	-2.70	309.56	2.48	49.55	1.63	163.50	8.42	303.30	2.73	93.58	7.09	3239.38	14.78
56950	44.59	-8.70	-2.70	452.59	0.39	292.71	1.53	169.97	8.46	451.76	1.17	298.87	3.43	3309.02	15.09
56951	46.03	-8.10	-2.70	290.86	2.73	51.48	0.77	208.52	8.27	282.75	3.42	152.46	7.51	3227.37	18.23
56952	46.12	-8.70	-2.70	436.80	0.82	270.45	0.53	217.31	8.25	442.26	2.23	300.37	3.72	3289.98	18.59
56953	47.54	-8.10	-2.70	277.54	2.71	50.54	2.91	251.55	8.37	276.33	3.86	245.33	6.73	3204.79	21.27
56954	47.66	-8.70	-2.70	416.59	0.86	236.59	3.19	263.23	8.26	443.27	2.92	340.66	3.89	3248.60	22.02
56955	49.06	-8.10	-2.70	276.00	1.79	43.98	8.75	291.41	9.07	309.44	3.42	377.80	8.93	3161.70	23.02
56956	49.19	-8.70	-2.70	390.71	0.68	187.77	9.65	307.06	9.08	467.30	2.38	450.16	9.96	3169.22	22.35
56957	50.57	-8.10	-2.70	290.61	0.76	29.26	18.89	326.92	10.80	408.18	1.07	551.69	19.37	3082.74	18.76
56958	50.72	-8.70	-2.70	359.61	3.79	120.80	20.22	348.01	10.70	525.43	3.97	625.97	21.91	3035.74	23.58
56959	52.08	-8.10	-2.70	323.05	7.81	23.60	35.99	357.49	14.51	580.20	8.41	761.21	37.89	2951.15	25.60
56960	52.25	-8.70	-2.70	331.27	3.48	34.08	38.68	386.66	15.17	619.59	3.58	839.16	41.80	2846.62	15.46
56961	53.59	-8.10	-2.70	385.46	9.41	81.43	61.24	381.87	15.36	818.55	25.35	1010.89	60.84	2755.14	77.81
56962	53.79	-8.70	-2.70	333.37	39.20	99.31	76.65	425.63	10.72	776.87	45.82	1074.55	77.60	2637.10	19.18
56963	55.10	-8.10	-2.70	492.77	142.64	195.41	153.83	413.45	51.88	1172.94	145.44	1310.52	177.51	2626.29	295.28
56964	55.32	-8.70	-2.70	527.81	55.94	264.20	133.13	463.70	7.86	1046.84	77.79	1307.84	126.50	2443.29	103.84
56965	23.35	-8.10	-4.10	339.72	93.51	120.90	98.32	378.33	68.86	370.77	88.20	1168.15	147.29	2963.72	386.49
56966	23.13	-8.70	-4.10	345.79	48.56	165.45	67.13	420.94	18.46	215.63	18.90	1269.11	71.96	2730.44	113.02
56967	24.86	-8.10	-4.10	251.03	18.20	68.33	59.43	338.24	19.82	176.55	23.86	1150.24	69.69	3002.47	67.99
56968	24.66	-8.70	-4.10	204.42	39.99	83.34	69.92	400.28	14.32	111.09	47.73	1233.68	81.67	2868.51	53.92
56969	26.37	-8.10	-4.10	209.85	7.46	27.84	38.43	320.63	10.57	336.35	7.44	926.07	45.74	3119.32	32.46
56970	26.20	-8.70	-4.10	228.04	7.61	22.22	42.22	363.12	10.95	262.12	7.61	993.35	48.34	3030.05	11.61
56971	27.88	-8.10	-4.10	207.72	1.32	24.80	20.73	297.73	16.72	477.00	2.56	682.24	23.05	3199.49	30.73
56972	27.73	-8.70	-4.10	291.14	4.31	100.91	22.27	326.88	16.79	398.33	5.02	702.39	23.27	3181.54	36.06
56973	29.39	-8.10	-4.10	224.78	1.46	39.13	9.83	268.48	19.33	539.15	5.24	470.58	9.86	3231.58	33.84
56974	29.26	-8.70	-4.10	346.17	0.23	166.58	10.92	288.03	19.66	492.93	5.90	462.32	11.79	3269.71	33.56
56975	30.91	-8.10	-4.10	252.84	2.40	47.63	3.43	233.66	20.76	539.66	4.76	307.15	6.49	3239.91	29.99
56976	30.79	-8.70	-4.10	389.30	0.81	215.63	3.91	246.61	21.16	543.94	5.10	319.60	10.51	3302.50	30.83
56977	32.42	-8.10	-4.10	285.53	2.47	50.51	0.45	194.78	21.55	506.32	3.55	192.30	5.64	3239.27	26.56
56978	32.33	-8.70	-4.10	422.57	0.92	249.97	0.62	203.54	22.01	557.23	3.32	273.69	9.86	3307.38	27.08
56979	33.93	-8.10	-4.10	317.15	2.22	50.05	1.43	153.32	21.97	461.97	2.55	118.27	4.04	3236.95	24.34
56980	33.86	-8.70	-4.10	448.28	0.63	272.59	1.35	159.29	22.46	545.72	1.75	275.82	7.98	3302.81	24.86
56981	35.44	-8.10	-4.10	343.55	1.90	48.24	1.59	110.34	22.18	420.87	1.96	75.31	2.31	3235.25	23.16
56982	35.39	-8.70	-4.10	467.55	0.42	286.48	1.55	114.26	22.68	523.53	0.79	286.63	5.85	3297.64	23.68
56983	36.96	-8.10	-4.10	362.21	1.67	46.41	1.17	66.54	22.26	390.70	1.67	54.02	1.11	3234.45	22.57
56984	36.93	-8.70	-4.10	480.58	0.46	294.21	1.14	68.77	22.76	502.24	0.50	294.21	4.13	3294.40	23.08
56985	38.47	-8.10	-4.10	371.82	1.55	45.33	0.52	22.49	22.28	375.01	1.55	46.05	0.77	3234.21	22.31
56986	38.46	-8.70	-4.10	487.20	0.54	297.61	0.52	23.15	22.78	489.68	0.55	297.62	3.15	3293.02	22.82
56987	39.98	-8.10	-4.10	371.83	1.55	45.33	0.52	22.59	22.28	375.05	1.55	46.04	0.77	3234.21	22.31
56988	39.99	-8.70	-4.10	487.21	0.54	297.61	0.52	23.24	22.78	489.72	0.55	297.62	3.15	3293.02	22.81
56989	41.49	-8.10	-4.10	362.24	1.67	46.41	1.17	66.64	22.26	390.83	1.67	53.98	1.11	3234.47	22.56
56990	41.52	-8.70	-4.10	480.60	0.46	294.21	1.14	68.87	22.76	502.37	0.50	294.22	4.13	3294.41	23.07
56991	43.01	-8.10	-4.10	343.59	1.90	48.24	1.60	110.44	22.18	421.08	1.96	75.25	2.31	3235.28	23.16
56992	43.06	-8.70	-4.10	467.59	0.42	286.48	1.55	114.36	22.68	523.73	0.79	286.63	5.85	3297.66	23.67
56993	44.52	-8.10	-4.10	317.21	2.22	50.05	1.43	153.42	21.97	462.24	2.55	118.19	4.04	3236.99	24.33
56994	44.59	-8.70	-4.10	448.33	0.63	272.60	1.35	159.39	22.46	546.00	1.75	275.81	7.98	3302.84	24.85
56995	46.03	-8.10	-4.10	285.61	2.47	50.50	0.45	194.88	21.55	506.65	3.55	192.23	5.64	3239.32	26.55
56996	46.12	-8.70	-4.10	422.63	0.92	249.98	0.62	203.64	22.01	557.57	3.32	273.65	9.86	3307.41	27.07
56997	47.54	-8.10	-4.10	252.93	2.40	47.62	3.43	233.76	20.76	540.07	4.76	307.10	6.50	3239.96	29.97
56998	47.66	-8.70	-4.10	389.39	0.81	215.65	3.91	246.71	21.16	544.35	5.10	319.48	10.52	3302.53	30.81
56999	49.06	-8.10	-4.10	224.89	1.46	39.12	9.83	268.58	19.33	539.66	5.24	470.57	9.86	3231.63	33.81
57000	49.19	-8.70	-4.10	346.28	0.23	166.61	10.91	288.13	19.66	493.39	5.90	462.12	11.79	3269.75	33.54
57001	50.57	-8.10	-4.10	207.84	1.32	24.76	20.73	297.83	16.72	477.65	2.57	682.30	23.02	3199.51	30.71
57002	50.72	-8.70	-4.10	291.27	4.31	100.94	22.27	326.98	16.79	398.82	5.03	702.13	23.25	3181.54	36.03
57003	52.08	-8.10	-4.10	209.95	7.46	27.78	38.43	320.73	10.57	337.19	7.44	926.26	45.69	3119.23	32.40
57004	52.25	-8.70	-4.10	228.19	7.61	22.28	42.21	363.23	10.95	262.63	7.61	993.05	48.29	3029.93	11.61
57005	53.59	-8.10	-4.10	251.09	18.19	68.30	59.43	338.35	19.81	177.08	23.78	1150.68	69.63	3002.06	67.97
57006	53.79	-8.70	-4.10	204.52	39.99	83.33	69.92	400.39	14.30	111.52	47.68	1233.48	81.58	2868.00	53.76
57007	55.10	-8.10	-4.10	339.86	93.53	120.91	98.39	378.46	68.87	369.70	88.17	1169.29	147.09	2962.25	385.23
57008	55.32	-8.70	-4.10	345.77	48.51	165.46	67.15	421.06	18.48	215.62	18.97	1269.32	71.99	2730.19	113.81
57009	23.35	-8.10	-5.50	459.49	70.30	79.20	63.09	378.53	68.29	991.83	100.96	1240.63	79.94	3034.40	349.02
57010	23.13	-8.70	-5.50	503.20	49.74	92.48	60.78	405.21	12.88	1385.84	116.57	1318.			

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
57037	44.52	-8.10	-5.50	601.40	1.15	89.69	0.77	146.61	43.13	934.02	1.65	148.42	20.05	3142.96	43.82
57038	44.59	-8.70	-5.50	658.36	1.31	204.49	1.48	146.56	39.45	957.14	1.68	204.94	6.24	3185.87	40.17
57039	46.03	-8.10	-5.50	571.18	0.89	86.91	1.24	186.71	41.33	1076.64	2.75	221.31	23.90	3160.59	43.28
57040	46.12	-8.70	-5.50	626.87	1.55	186.54	0.58	186.53	37.74	1065.25	3.08	198.91	9.78	3212.89	39.82
57041	47.54	-8.10	-5.50	538.07	0.83	81.48	4.17	224.85	38.12	1219.15	5.04	346.11	27.53	3187.08	43.72
57042	47.66	-8.70	-5.50	588.01	1.35	159.24	2.76	225.63	34.71	1152.35	5.33	241.83	13.12	3249.54	40.88
57043	49.06	-8.10	-5.50	505.62	1.31	71.82	10.08	259.55	33.00	1335.85	7.66	535.58	28.46	3219.81	47.88
57044	49.19	-8.70	-5.50	541.98	0.42	120.64	8.96	264.10	29.81	1196.28	7.66	401.34	14.10	3281.91	44.62
57045	50.57	-8.10	-5.50	477.38	3.48	57.27	20.17	288.94	24.82	1386.26	8.86	790.91	24.18	3245.84	51.43
57046	50.72	-8.70	-5.50	491.18	4.08	71.03	19.28	302.08	21.79	1184.70	6.64	693.70	19.39	3273.13	52.96
57047	52.08	-8.10	-5.50	456.94	8.98	41.81	33.90	311.53	11.73	1326.20	9.37	1077.71	35.74	3232.13	61.59
57048	52.25	-8.70	-5.50	447.24	8.44	20.08	34.70	340.74	9.67	1145.54	9.33	1062.79	52.96	3184.30	32.58
57049	53.59	-8.10	-5.50	454.80	16.32	45.66	44.42	331.38	16.37	1177.10	41.31	1288.17	78.04	3161.99	22.69
57050	53.79	-8.70	-5.50	432.17	30.62	52.53	46.52	383.15	12.59	1144.81	67.41	1322.81	63.74	3014.20	78.71
57051	55.10	-8.10	-5.50	459.58	70.28	79.14	63.11	378.64	68.29	992.11	100.73	1241.77	80.02	3033.57	348.29
57052	55.32	-8.70	-5.50	503.17	49.71	92.42	60.75	405.30	12.83	1385.68	116.45	1319.22	197.20	2776.77	123.44
57053	23.35	-8.10	-6.90	722.89	61.95	51.71	47.15	378.50	71.69	2283.80	117.47	1501.15	96.51	2907.99	286.66
57054	23.13	-8.70	-6.90	830.09	64.85	47.64	92.82	397.91	25.79	2803.73	212.80	1545.83	392.82	2686.03	110.13
57055	24.86	-8.10	-6.90	767.32	16.45	47.52	18.41	335.70	12.69	2436.46	94.98	1552.21	164.77	3160.11	20.32
57056	24.66	-8.70	-6.90	743.27	26.09	30.51	27.92	372.56	5.13	2276.66	74.53	1412.64	50.73	3083.55	164.10
57057	26.37	-8.10	-6.90	782.79	3.16	81.04	10.47	319.46	16.40	2473.73	12.62	1257.25	73.97	3225.89	90.85
57058	26.20	-8.70	-6.90	749.90	5.88	16.95	21.33	322.08	22.38	2174.45	14.64	1008.65	35.95	3293.42	106.36
57059	27.88	-8.10	-6.90	809.10	8.88	115.57	4.16	294.19	28.81	2378.84	9.28	871.94	52.43	3165.69	61.31
57060	27.73	-8.70	-6.90	784.40	3.31	25.78	10.65	279.35	37.31	2116.23	15.88	558.30	22.36	3284.06	87.86
57061	29.39	-8.10	-6.90	841.64	13.47	141.22	6.15	260.77	39.71	2167.85	13.87	565.73	45.37	3077.82	49.69
57062	29.26	-8.70	-6.90	832.78	0.80	47.27	3.87	242.25	50.45	2007.73	10.74	259.49	23.18	3187.77	64.15
57063	30.91	-8.10	-6.90	878.31	16.03	158.93	7.66	222.88	47.11	1918.48	16.22	367.48	49.26	3006.41	49.09
57064	30.79	-8.70	-6.90	881.08	1.62	65.95	0.71	207.25	59.73	1841.14	5.92	112.03	16.92	3091.63	62.81
57065	32.42	-8.10	-6.90	914.53	17.29	170.50	7.53	183.18	51.66	1668.11	17.30	258.94	53.72	2956.78	52.04
57066	32.33	-8.70	-6.90	924.19	1.88	79.41	1.71	172.60	65.44	1641.77	3.12	80.31	10.02	3023.54	66.10
57067	33.93	-8.10	-6.90	946.60	17.81	177.71	6.33	142.84	54.13	1437.19	17.81	210.60	57.07	2926.68	54.22
57068	33.86	-8.70	-6.90	960.06	1.78	88.29	1.89	136.94	68.57	1437.51	2.00	89.94	5.05	2983.75	68.76
57069	35.44	-8.10	-6.90	972.11	17.98	181.92	4.66	102.29	55.29	1239.92	17.99	192.79	59.13	2910.37	55.32
57070	35.39	-8.70	-6.90	987.65	1.62	93.76	1.51	99.65	70.07	1252.05	1.64	96.51	2.10	2964.03	70.13
57071	36.96	-8.10	-6.90	989.67	18.01	184.15	2.82	61.75	55.75	1091.58	18.01	187.01	60.24	2902.53	55.76
57072	36.93	-8.70	-6.90	1006.35	1.48	96.83	0.94	60.84	70.66	1107.84	1.48	98.31	0.96	2955.82	70.68
57073	38.47	-8.10	-6.90	998.59	18.00	185.09	0.96	21.98	55.89	1010.28	18.00	185.37	60.72	2899.50	55.89
57074	38.46	-8.70	-6.90	1015.78	1.41	98.20	0.34	21.59	70.84	1027.46	1.41	98.39	1.08	2953.16	70.84
57075	39.98	-8.10	-6.90	998.59	18.00	185.09	0.96	22.05	55.89	1010.33	18.00	185.36	60.72	2899.50	55.89
57076	39.99	-8.70	-6.90	1015.79	1.41	98.20	0.34	21.67	70.84	1027.53	1.41	98.39	1.09	2953.16	70.84
57077	41.49	-8.10	-6.90	989.67	18.01	184.15	2.82	61.83	55.75	1091.73	18.01	186.98	60.25	2902.53	55.76
57078	41.52	-8.70	-6.90	1006.35	1.48	96.83	0.94	60.92	70.66	1108.02	1.48	98.30	0.96	2955.80	70.68
57079	43.01	-8.10	-6.90	972.11	17.98	181.91	4.66	102.37	55.29	1240.15	17.99	192.73	59.13	2910.37	55.32
57080	43.06	-8.70	-6.90	987.66	1.62	93.76	1.51	99.74	70.07	1252.34	1.64	96.50	2.10	2964.00	70.13
57081	44.52	-8.10	-6.90	946.60	17.82	177.70	6.33	142.92	54.13	1437.47	17.81	210.50	57.07	2926.69	54.21
57082	44.59	-8.70	-6.90	960.07	1.78	88.29	1.89	137.03	68.58	1437.86	2.00	89.94	5.05	2983.71	68.75
57083	46.03	-8.10	-6.90	914.53	17.29	170.49	7.53	183.26	51.66	1668.44	17.30	258.80	53.72	2956.79	52.04
57084	46.12	-8.70	-6.90	924.20	1.88	79.42	1.71	172.69	65.44	1642.19	3.12	80.31	10.02	3023.47	66.09
57085	47.54	-8.10	-6.90	878.31	16.03	158.91	7.66	222.96	47.11	1918.85	16.22	367.32	49.25	3006.41	49.08
57086	47.66	-8.70	-6.90	881.10	1.62	65.96	0.71	207.35	59.73	1841.61	5.92	112.03	16.93	3091.53	62.79
57087	49.06	-8.10	-6.90	841.65	13.47	141.20	6.15	260.86	39.71	2168.29	13.87	565.58	45.35	3077.82	49.66
57088	49.19	-8.70	-6.90	832.81	0.80	47.30	3.87	242.36	50.45	2008.23	10.74	259.50	23.20	3187.65	64.11
57089	50.57	-8.10	-6.90	809.09	8.88	115.56	4.16	294.29	28.80	2379.34	9.29	871.87	52.41	3165.68	61.25
57090	50.72	-8.70	-6.90	784.43	3.31	25.85	10.65	279.46	37.31	2116.70	15.89	558.39	22.38	3283.93	87.78
57091	52.08	-8.10	-6.90	782.79	3.16	81.06	10.47	319.57	16.39	2474.24	12.59	1257.37	73.95	3225.82	90.76
57092	52.25	-8.70	-6.90	749.92	5.88	17.09	21.33	322.19	22.36	2174.81	14.66	1008.94	35.92	3293.31	106.26
57093	53.59	-8.10	-6.90	767.31	16.43	47.58	18.41	335.80	12.70	2436.80	94.91	1552.67	164.76	3159.96	20.30
57094	53.79	-8.70	-6.90	743.26	26.09	30.57	27.92	372.66	5.12	2276.77	74.51	1413.34	50.73	3083.50	164.03
57095	55.10	-8.10	-6.90	722.88	61.93	51.60	47.16	378.59	71.69	2283.75	117.33	1502.11	96.55	2907.75	286.28
57096	55.32	-8.70	-6.90	830.02	64.82	47.49	92.79	397.99	25.73	2803.50	212.70	1546.86	392.81	2686.49	110.43
57097	23.35	-8.10	-8.30	1021.49	87.46	54.91	95.40	410.80	58.02	3646.67	377.99	2149.57	100.15	2578.61	397.98
57098	23.13	-8.70	-8.30	1190.72	96.39	30.66	164.20	367.06	32.16	4454.23	356.88	1853.08	624.92	2512.55	116.51
57099	24.86	-8.10	-8.30	1088.03	36.39	113.08	104.73	396.92	31.70	3900.81	174.18	2160.80	233.58	3244.55	340.71
57100	24.66	-8.70	-8.30	1045.94	29.45	28.47	32.75	340.08	9.28	3606.11	37.04	1344.83	67.74	2973.44	182.00
57101	26.37	-8.10	-8.30	1112.44	43.68	156.47	81.01	375.35	46.02	3767.25	162.88	1484.55	471.74	3305.19	238.61
57102	26.20	-8.70	-8.30	1062.90	16.07	44.82	35.05	286.98	19.69	3386.75	74.28	724.18	139.27	3040.11	85.67
57103	27.88	-8.10	-8.30	1151.24	54.75	203.65	68.65	339.25	63.70	3407.54	100.71	911.74	489.80	3163.21	122.12
57104	27.73	-8.70	-8.30	1104.42	17.88	62.69	23.10	245.52	30.12	3124.34	38.54	294.93	184.12	2861.31	43.94
57105	29.39	-8.10	-8.30	1196.78	65.72	245.34	56.36	294.93	81.50	3004.84	77.50	564.89	470.65	3023.37	92.22
57106	29.26	-8.70	-8.30	1159.23	19.63	76.06	17.77	212.11	41.26	2839.18	26.85	111.96	170.22	2696.78	41.26
57107	30.91	-8.10	-8.30	1244.21	74.45	2									



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
57135	52.08	-8.10	-8.30	1112.39	43.66	156.45	81.01	375.44	46.00	3767.61	162.79	1484.45	471.75	3305.21	238.49
57136	52.25	-8.70	-8.30	1062.88	16.07	44.84	35.05	287.09	19.68	3387.14	74.25	724.59	139.28	3040.11	85.61
57137	53.59	-8.10	-8.30	1087.97	36.37	113.11	104.73	397.03	31.66	3901.05	174.09	2161.01	233.61	3244.68	340.64
57138	53.79	-8.70	-8.30	1045.89	29.45	28.58	32.75	340.18	9.25	3606.35	37.05	1345.55	67.74	2973.64	181.96
57139	55.10	-8.10	-8.30	1021.42	87.42	54.96	95.40	410.88	57.96	3646.64	377.83	2150.27	100.14	2578.85	397.70
57140	55.32	-8.70	-8.30	1190.62	96.37	30.52	164.18	367.13	32.09	4454.13	356.79	1854.03	624.83	2513.24	116.74
57141	55.10	-2.50	1.75	1057.69	31.42	322.25	104.23	414.30	79.20	3787.98	42.84	464.90	181.16	1723.86	79.49
57142	55.18	-3.10	1.75	1044.72	29.28	286.66	95.25	391.61	77.25	3744.85	50.11	548.21	117.34	1656.39	79.36
57143	56.14	-2.50	1.75	1038.29	38.36	338.59	106.55	373.92	90.56	3900.06	39.37	343.78	171.21	1470.71	94.85
57144	56.21	-3.10	1.75	1022.74	34.48	296.22	98.00	356.64	88.97	3831.72	35.07	356.27	112.80	1417.00	89.03
57145	57.17	-2.50	1.75	1024.11	40.77	344.78	113.41	332.94	103.60	3934.49	68.72	451.67	164.43	1262.51	122.62
57146	57.25	-3.10	1.75	1001.60	36.90	299.90	107.79	320.41	102.14	3837.74	52.45	326.54	121.92	1232.96	101.38
57147	58.21	-2.50	1.75	997.12	54.93	362.25	150.48	309.03	129.46	3828.56	131.17	874.66	156.58	1039.67	174.58
57148	58.29	-3.10	1.75	965.73	64.62	323.36	144.71	297.50	133.53	3721.26	100.51	730.85	152.93	1033.92	133.60
57149	59.24	-2.50	1.75	926.66	136.35	387.25	223.74	295.58	241.98	3593.25	351.45	1226.84	287.65	699.30	301.59
57150	59.33	-3.10	1.75	946.38	124.64	376.93	221.79	322.05	237.22	3634.66	330.22	1173.08	400.62	660.88	236.72
57151	55.06	-2.50	0.25	796.33	18.12	285.56	12.94	440.41	109.77	2936.70	83.25	914.02	20.33	1905.16	115.89
57152	55.14	-3.10	0.25	791.16	17.49	274.22	14.48	432.91	110.59	2906.75	82.84	958.95	27.15	1860.43	133.46
57153	56.02	-2.50	0.25	772.09	11.59	315.11	25.42	395.41	117.05	2941.32	70.22	669.22	27.43	1515.26	120.78
57154	56.10	-3.10	0.25	769.63	11.53	307.82	24.65	401.86	115.13	2864.50	73.15	684.88	29.65	1485.92	133.64
57155	56.98	-2.50	0.25	756.51	14.45	333.38	18.24	357.33	103.04	2874.25	21.90	341.03	19.88	1225.23	103.96
57156	57.06	-3.10	0.25	748.23	13.63	335.07	15.29	374.98	98.25	2768.23	28.50	342.80	15.65	1212.12	108.37
57157	57.94	-2.50	0.25	755.17	21.15	348.28	17.94	335.78	65.04	2810.97	21.34	401.97	58.33	1021.02	69.64
57158	58.02	-3.10	0.25	733.35	21.72	358.75	25.31	357.80	62.36	2704.26	21.16	428.01	39.27	1006.59	83.56
57159	58.90	-2.50	0.25	750.60	114.13	393.87	82.60	347.84	131.50	2755.89	235.07	709.24	185.97	907.67	154.31
57160	58.99	-3.10	0.25	772.51	105.77	424.39	103.63	398.45	118.38	2839.44	252.76	786.67	303.78	845.79	117.95
57161	55.02	-2.50	-1.25	608.08	94.31	444.79	30.88	502.35	214.34	1851.61	429.92	1840.66	30.77	1978.28	339.87
57162	55.10	-3.10	-1.25	617.86	108.42	481.89	43.92	514.74	213.25	1850.57	414.82	1779.81	80.71	1942.61	301.78
57163	55.91	-2.50	-1.25	529.35	63.74	470.60	42.42	450.18	158.00	1823.40	387.10	1358.64	41.92	1463.27	228.69
57164	55.98	-3.10	-1.25	538.90	80.00	523.76	40.26	465.32	163.90	1778.98	393.20	1335.64	63.00	1428.20	235.13
57165	56.79	-2.50	-1.25	482.07	51.88	466.81	35.93	400.70	109.47	1783.40	220.40	766.67	65.20	1209.38	133.23
57166	56.87	-3.10	-1.25	487.63	63.30	524.04	32.47	418.17	117.17	1712.35	212.97	770.32	54.50	1173.20	143.14
57167	57.67	-2.50	-1.25	459.47	45.60	454.69	26.64	352.47	75.13	1780.26	100.00	409.27	86.32	1076.08	75.70
57168	57.76	-3.10	-1.25	455.48	57.15	512.25	23.05	370.70	89.09	1714.95	108.70	473.49	50.83	1028.26	91.75
57169	58.56	-2.50	-1.25	440.53	98.71	416.34	74.52	318.98	113.73	1747.16	126.66	508.06	74.72	1004.51	130.23
57170	58.64	-3.10	-1.25	445.94	105.32	467.37	79.65	348.79	119.34	1788.33	137.65	589.06	148.46	948.99	135.87
57171	24.56	-2.50	1.75	1088.84	25.88	280.51	100.89	446.64	60.43	3583.37	50.40	504.52	196.19	2021.38	61.28
57172	24.50	-3.10	1.75	1077.25	26.75	252.24	91.51	419.58	58.95	3557.21	61.65	612.10	126.97	1959.08	70.26
57173	25.96	-2.50	1.75	1125.73	18.00	215.12	95.58	452.81	34.42	3303.22	56.62	442.83	206.85	2309.80	37.88
57174	25.90	-3.10	1.75	1115.30	21.42	190.58	86.46	426.45	33.56	3282.50	69.45	555.42	137.19	2254.25	57.19
57175	27.36	-2.50	1.75	1157.33	6.85	151.76	87.66	426.13	8.76	3017.07	53.10	330.23	216.77	2522.23	15.57
57176	27.30	-3.10	1.75	1149.39	11.54	123.66	78.93	403.92	5.20	2997.08	65.27	438.81	145.87	2470.70	38.98
57177	28.75	-2.50	1.75	1179.94	2.71	108.23	77.28	380.84	24.55	2742.52	45.68	235.15	225.77	2683.28	26.88
57178	28.70	-3.10	1.75	1174.57	4.30	71.26	68.94	362.82	23.87	2724.11	56.36	337.99	150.54	2631.88	39.52
57179	30.15	-2.50	1.75	1198.94	9.56	88.58	67.41	329.00	41.94	2470.81	40.12	170.30	232.71	2808.99	42.72
57180	30.11	-3.10	1.75	1194.86	5.81	44.67	59.48	314.53	42.12	2455.65	48.95	264.25	153.88	2757.86	49.45
57181	31.54	-2.50	1.75	1216.43	14.12	86.99	57.81	275.66	52.45	2204.03	35.43	130.85	237.80	2902.65	52.74
57182	31.51	-3.10	1.75	1212.54	9.51	47.15	50.61	264.08	53.09	2191.64	42.46	208.58	156.47	2852.99	57.38
57183	32.94	-2.50	1.75	1232.40	16.86	92.66	47.95	222.86	58.16	1948.67	31.21	111.71	241.21	2968.72	58.26
57184	32.91	-3.10	1.75	1228.19	12.00	58.93	41.74	213.74	59.11	1938.22	36.22	165.30	157.96	2921.05	61.78
57185	34.34	-2.50	1.75	1246.17	18.36	98.94	37.72	171.35	60.96	1714.10	27.31	105.70	243.32	3012.71	60.99
57186	34.32	-3.10	1.75	1241.52	13.51	68.55	32.70	164.44	62.12	1705.18	30.02	131.59	158.58	2966.85	63.71
57187	35.73	-2.50	1.75	1257.09	19.10	103.71	27.17	121.25	62.12	1513.00	23.86	105.67	244.49	3040.16	62.13
57188	35.72	-3.10	1.75	1252.04	14.37	74.70	23.48	116.38	63.43	1505.46	24.03	106.40	158.65	2995.59	64.24
57189	37.13	-2.50	1.75	1264.61	19.40	106.69	16.40	72.43	62.49	1361.95	21.19	107.12	245.07	3055.71	62.49
57190	37.12	-3.10	1.75	1259.30	14.83	78.11	14.14	69.40	63.90	1355.62	18.82	89.45	158.49	3011.89	64.19
57191	38.53	-2.50	1.75	1268.46	19.50	108.10	5.54	24.44	62.56	1279.62	19.71	108.13	245.30	3062.66	62.56
57192	38.52	-3.10	1.75	1263.00	15.02	79.59	4.73	23.29	64.01	1274.04	15.51	80.86	158.35	3019.16	64.05
57193	39.92	-2.50	1.75	1268.45	19.50	108.10	5.54	24.53	62.56	1279.60	19.71	108.14	245.30	3062.67	62.56
57194	39.93	-3.10	1.75	1263.00	15.02	79.59	4.73	23.37	64.01	1274.03	15.51	80.83	158.36	3019.16	64.05
57195	41.32	-2.50	1.75	1264.60	19.40	106.70	16.40	72.43	62.49	1361.90	21.20	107.13	245.08	3055.75	62.49
57196	41.33	-3.10	1.75	1259.28	14.83	78.11	14.14	69.49	63.90	1355.59	18.82	89.37	158.50	3011.91	64.19
57197	42.72	-2.50	1.75	1257.06	19.09	103.72	27.17	121.34	62.12	1512.92	23.87	105.70	244.50	3040.22	62.13
57198	42.73	-3.10	1.75	1252.01	14.38	74.69	23.48	116.46	63.43	1505.41	24.02	106.27	158.65	2995.62	64.24
57199	44.11	-2.50	1.75	1246.14	18.36	98.96	37.72	171.44	60.96	1714.00	27.32	105.76	243.32	3012.80	60.99
57200	44.13	-3.10	1.75	1241.48	13.51	68.55	32.69	164.52	62.12	1705.12	30.01	131.43	158.58	2966.91	63.71
57201	45.51	-2.50	1.75	1232.36	16.86	92.68	47.95	222.94	58.16	1948.56	31.23	111.80	241.21	2968.85	58.26
57202	45.54	-3.10	1.75	1228.14	12.00	58.92	41.74	213.82	59.11	1938.17	36.21	165.12	157.97	2921.12	61.78
57203	46.91	-2.50	1.75	1216.38	14.11	87.01	57.81	275.74	52.45	2203.91	35.45	131.00	237.81	2902.82	52.74

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
57233	37.13	-2.50	0.25	889.83	6.20	90.74	3.68	73.48	42.40	952.41	6.37	95.03	51.15	3346.60	42.58
57234	37.12	-3.10	0.25	896.32	4.52	62.06	3.29	74.25	42.50	958.01	5.06	79.89	42.91	3369.31	42.53
57235	38.53	-2.50	0.25	890.88	6.21	90.99	1.22	24.68	42.60	898.02	6.23	91.40	51.10	3352.65	42.62
57236	38.52	-3.10	0.25	897.10	4.59	61.72	1.09	24.91	42.68	904.12	4.65	63.79	43.00	3376.06	42.69
57237	39.92	-2.50	0.25	890.88	6.21	90.99	1.22	24.77	42.60	897.99	6.23	91.41	51.10	3352.67	42.62
57238	39.93	-3.10	0.25	897.10	4.59	61.72	1.09	25.00	42.68	904.11	4.65	63.75	43.00	3376.07	42.69
57239	41.32	-2.50	0.25	889.82	6.20	90.75	3.68	73.57	42.40	952.35	6.38	95.05	51.15	3346.64	42.58
57240	41.33	-3.10	0.25	896.31	4.53	62.06	3.29	74.35	42.50	957.96	5.06	79.79	42.91	3369.33	42.53
57241	42.72	-2.50	0.25	887.90	6.16	90.43	6.21	122.97	41.80	1054.21	6.64	105.46	51.21	3332.76	42.28
57242	42.73	-3.10	0.25	894.89	4.37	62.89	5.57	124.14	41.92	1059.15	5.76	110.19	42.75	3353.86	41.99
57243	44.11	-2.50	0.25	885.57	6.03	90.34	8.79	173.05	40.35	1194.20	6.98	127.95	51.19	3307.45	41.27
57244	44.13	-3.10	0.25	893.14	4.10	64.48	7.90	174.37	40.51	1198.42	6.63	154.65	42.54	3325.75	40.62
57245	45.51	-2.50	0.25	883.47	5.73	90.91	11.27	223.89	37.34	1363.96	7.35	167.40	50.91	3265.41	38.84
57246	45.54	-3.10	0.25	891.41	3.66	67.08	10.13	225.00	37.52	1367.07	7.58	213.89	42.23	3279.46	37.67
57247	46.90	-2.50	0.25	882.38	5.09	92.49	13.28	275.41	31.76	1556.98	7.67	226.19	50.20	3200.28	34.07
57248	46.94	-3.10	0.25	889.98	2.98	70.68	11.87	275.83	31.92	1557.59	8.60	288.18	41.67	3208.73	32.08
57249	48.30	-2.50	0.25	882.96	3.94	95.29	13.99	327.32	22.32	1767.59	8.00	304.75	48.74	3106.06	26.19
57250	48.34	-3.10	0.25	888.71	2.19	75.00	12.26	326.43	22.44	1763.26	9.75	376.72	40.23	3108.32	22.61
57251	49.70	-2.50	0.25	884.95	1.79	99.84	12.06	379.09	7.71	1989.85	8.00	403.88	46.72	2979.49	17.31
57252	49.75	-3.10	0.25	886.41	1.65	80.17	9.94	376.21	7.96	1978.21	10.83	479.02	37.24	2976.96	8.10
57253	51.09	-2.50	0.25	885.72	0.94	111.45	6.93	429.89	15.48	2217.45	9.74	526.57	44.10	2822.49	22.89
57254	51.15	-3.10	0.25	879.97	1.51	93.05	5.68	424.02	16.27	2200.44	12.31	598.54	30.72	2819.54	16.67
57255	52.49	-2.50	0.25	875.59	9.28	148.12	13.16	474.73	51.25	2448.64	9.31	704.67	46.73	2639.53	59.84
57256	52.55	-3.10	0.25	863.81	4.65	134.94	15.62	464.58	52.22	2437.85	6.69	771.74	30.11	2636.02	52.29
57257	53.89	-2.50	0.25	830.39	9.08	223.07	2.45	482.40	84.77	2720.13	31.03	889.16	34.74	2331.59	84.74
57258	53.95	-3.10	0.25	820.84	7.54	212.96	5.85	467.23	87.57	2716.46	31.05	954.04	23.69	2317.12	94.78
57259	24.57	-2.50	-1.25	685.39	65.74	281.28	123.73	537.06	143.49	1815.32	148.76	1478.77	123.98	2734.40	198.54
57260	24.50	-3.10	-1.25	674.14	43.34	292.96	119.61	538.58	141.44	1821.81	131.01	1444.00	119.14	2693.69	148.29
57261	25.96	-2.50	-1.25	638.47	8.80	95.55	58.58	466.89	40.60	1605.90	26.56	912.67	58.75	2902.95	44.67
57262	25.90	-3.10	-1.25	620.16	15.47	94.27	62.00	470.31	43.77	1592.14	25.39	937.51	66.40	2883.24	53.51
57263	27.36	-2.50	-1.25	604.42	2.30	56.82	30.44	411.97	18.63	1425.25	6.06	729.87	31.64	3081.37	21.10
57264	27.30	-3.10	-1.25	603.82	0.43	43.66	30.58	416.55	19.05	1410.55	4.89	769.55	30.96	3059.36	19.30
57265	28.75	-2.50	-1.25	579.71	0.65	79.97	14.72	364.54	5.35	1238.25	0.68	573.58	19.26	3238.21	7.55
57266	28.71	-3.10	-1.25	591.32	1.28	70.39	14.71	368.26	5.66	1239.89	1.54	622.90	16.50	3224.19	12.18
57267	30.15	-2.50	-1.25	560.15	0.44	103.40	5.87	317.07	5.83	1062.68	1.47	440.85	13.67	3358.52	9.30
57268	30.11	-3.10	-1.25	579.58	0.73	96.14	5.75	320.44	5.56	1075.48	1.92	488.72	9.40	3356.33	11.08
57269	31.55	-2.50	-1.25	545.24	0.36	118.65	1.55	268.91	11.98	907.84	1.39	330.41	12.44	3442.66	13.81
57270	31.51	-3.10	-1.25	568.38	0.83	112.31	1.38	271.92	11.73	926.51	2.00	370.41	8.50	3450.76	15.01
57271	32.94	-2.50	-1.25	534.49	0.38	127.23	1.23	220.17	15.94	778.63	1.26	246.47	12.29	3496.27	17.11
57272	32.91	-3.10	-1.25	558.48	0.92	121.31	1.34	222.75	15.72	799.19	1.88	275.53	9.12	3512.05	17.72
57273	34.34	-2.50	-1.25	527.16	0.44	131.57	1.61	171.15	18.19	675.96	1.05	189.82	12.39	3527.71	18.89
57274	34.32	-3.10	-1.25	550.51	0.87	125.95	1.74	173.23	18.00	696.57	1.59	207.12	9.48	3548.47	19.18
57275	35.73	-2.50	-1.25	522.45	0.52	133.49	1.41	122.12	19.34	599.11	0.84	156.95	12.54	3544.67	19.70
57276	35.72	-3.10	-1.25	544.65	0.81	128.11	1.50	123.63	19.16	619.47	1.25	163.65	9.51	3568.36	19.76
57277	37.13	-2.50	-1.25	519.69	0.58	134.19	0.92	73.19	19.86	547.57	0.69	141.02	12.67	3552.95	19.99
57278	37.12	-3.10	-1.25	540.87	0.76	128.99	0.97	74.11	19.69	567.93	0.95	140.14	9.39	3578.20	19.91
57279	38.53	-2.50	-1.25	518.42	0.60	134.38	0.34	24.42	20.05	521.55	0.61	135.05	12.75	3556.22	20.06
57280	38.52	-3.10	-1.25	539.02	0.74	129.28	0.35	24.71	19.88	542.04	0.76	130.42	9.30	3582.13	19.90
57281	39.92	-2.50	-1.25	518.42	0.60	134.38	0.34	24.52	20.05	521.52	0.61	135.05	12.75	3556.23	20.06
57282	39.93	-3.10	-1.25	539.02	0.74	129.28	0.35	24.81	19.88	542.03	0.76	130.41	9.30	3582.14	19.90
57283	41.32	-2.50	-1.25	519.69	0.57	134.19	0.92	73.29	19.86	547.50	0.69	141.03	12.67	3552.97	19.99
57284	41.33	-3.10	-1.25	540.86	0.76	128.99	0.97	74.21	19.69	567.87	0.95	140.09	9.39	3578.21	19.90
57285	42.72	-2.50	-1.25	522.45	0.52	133.49	1.41	122.22	19.34	599.00	0.84	156.96	12.54	3544.71	19.70
57286	42.73	-3.10	-1.25	544.64	0.81	128.11	1.50	123.73	19.16	619.38	1.25	163.57	9.51	3568.39	19.76
57287	44.11	-2.50	-1.25	527.15	0.44	131.58	1.61	171.25	18.19	675.80	1.05	189.81	12.39	3527.77	18.88
57288	44.13	-3.10	-1.25	550.49	0.87	125.94	1.74	173.32	18.00	696.45	1.59	207.02	9.49	3548.51	19.17
57289	45.51	-2.50	-1.25	534.47	0.38	127.24	1.23	220.27	15.94	778.42	1.26	246.45	12.29	3496.36	17.10
57290	45.54	-3.10	-1.25	558.46	0.92	121.30	1.34	222.84	15.72	799.04	1.88	275.42	9.12	3512.10	17.70
57291	46.90	-2.50	-1.25	545.22	0.36	118.67	1.55	269.01	11.98	907.58	1.40	330.35	12.44	3442.79	13.80
57292	46.94	-3.10	-1.25	568.35	0.83	112.29	1.38	272.01	11.73	926.32	2.00	370.30	8.50	3450.84	14.99
57293	48.30	-2.50	-1.25	560.12	0.44	103.43	5.87	317.16	5.84	1062.36	1.47	440.75	13.68	3358.69	9.27
57294	48.34	-3.10	-1.25	579.54	0.73	96.11	5.75	320.53	5.56	1075.22	1.91	488.63	9.39	3356.43	11.05
57295	49.70	-2.50	-1.25	579.66	0.65	80.01	14.72	364.63	5.35	1237.90	0.68	573.41	19.29	3238.44	7.52
57296	49.74	-3.10	-1.25	591.26	1.28	70.37	14.71	368.34	5.66	1239.52	1.54	622.83	16.48	3224.33	12.14
57297	51.09	-2.50	-1.25	604.35	2.30	56.87	30.45	412.06	18.64	1424.86	6.06	729.60	31.66	3081.69	21.07
57298	51.15	-3.10	-1.25	603.74	0.43	43.65	30.58	416.63	19.06	1409.99	4.89	769.46	30.95	3059.56	19.30
57299	52.49	-2.50	-1.25	638.37	8.80	95.59	58.57	466.97	40.61	1605.48	26.59	912.23	58.75	2903.40	44.73
57300	52.55	-3.10	-1.25	620.04	15.46	94.31	62.01	470.38	43.78	1591.25	25.44	937.37	66.38	2883.56	53.42
57301	53.89	-2.50	-1.25	685.25	65.74	281.33	123.72	537.11	143.50	1814.90	148.86	1478.05	123.96	2735.00	198.34
57302	53.95	-3.10	-1.25	673.91	43.30	293.01	119.55	538.58	141.44	1820.23	131.21	1443.32	119.08	2694.35	148.35
57303	19.21	-2.50	1.75	926.72	136.38	387.32	223.78	295.60	242.26	3592.57	351.37	1226.64	287.65	698.54	301.78
57304	19.12	-3.10	1.75	946.48											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
57331	23.43	-2.50	-1.25	608.21	94.34	444.70	30.85	502.36	214.31	1851.83	429.88	1841.58	30.77	1977.36	340.05
57332	23.35	-3.10	-1.25	618.03	108.57	481.87	44.09	514.90	213.29	1851.63	414.81	1781.43	80.58	1940.98	301.99
57333	24.50	-3.10	-2.70	509.92	76.69	262.53	158.08	470.94	20.52	1082.73	132.06	1393.57	156.52	2934.47	177.10
57334	25.90	-3.10	-2.70	350.76	24.72	112.03	80.47	421.60	10.70	828.50	37.24	1142.61	80.42	3051.64	37.77
57335	27.30	-3.10	-2.70	320.99	2.09	15.65	39.28	383.05	17.15	665.83	5.90	948.99	40.15	3247.61	18.27
57336	28.71	-3.10	-2.70	309.46	2.00	53.46	19.70	343.11	12.01	532.29	2.18	761.30	20.17	3416.69	16.29
57337	30.11	-3.10	-2.70	297.76	0.10	96.69	8.12	301.24	8.89	419.71	0.99	580.51	9.12	3537.63	12.23
57338	31.51	-3.10	-2.70	283.10	0.22	124.69	1.68	257.34	6.61	336.81	1.09	424.91	3.35	3611.03	10.99
57339	32.91	-3.10	-2.70	267.40	0.28	141.65	1.32	211.92	5.37	284.34	0.97	307.30	2.78	3649.18	9.05
57340	34.32	-3.10	-2.70	252.98	0.52	151.21	2.25	165.47	4.78	255.15	0.84	230.05	3.28	3665.52	7.46
57341	35.72	-3.10	-2.70	241.36	0.70	156.13	2.07	118.44	4.54	239.98	0.81	187.04	3.28	3670.57	6.09
57342	37.12	-3.10	-2.70	233.33	0.83	158.41	1.38	71.12	4.46	232.37	0.86	167.21	3.05	3671.00	5.07
57343	38.52	-3.10	-2.70	229.26	0.89	159.25	0.49	23.69	4.43	229.14	0.89	160.11	2.87	3670.43	4.50
57344	39.93	-3.10	-2.70	229.26	0.89	159.25	0.50	23.79	4.43	229.13	0.89	160.10	2.87	3670.44	4.50
57345	41.33	-3.10	-2.70	233.33	0.83	158.41	1.38	71.22	4.46	232.35	0.86	167.18	3.05	3671.01	5.06
57346	42.73	-3.10	-2.70	241.36	0.70	156.13	2.07	118.54	4.54	239.94	0.81	186.99	3.27	3670.59	6.08
57347	44.13	-3.10	-2.70	252.98	0.52	151.20	2.25	165.57	4.78	255.07	0.84	229.99	3.28	3665.55	7.44
57348	45.54	-3.10	-2.70	267.40	0.28	141.64	1.32	212.02	5.37	284.22	0.97	307.23	2.78	3649.21	9.03
57349	46.94	-3.10	-2.70	283.09	0.22	124.67	1.68	257.44	6.61	336.61	1.09	424.85	3.36	3611.08	10.97
57350	48.34	-3.10	-2.70	297.74	0.10	96.67	8.12	301.33	8.89	419.41	0.99	580.47	9.13	3537.68	12.22
57351	49.74	-3.10	-2.70	309.43	2.00	53.43	19.70	343.20	12.02	531.82	2.18	761.28	20.18	3416.75	16.28
57352	51.15	-3.10	-2.70	320.94	2.09	15.70	39.28	383.14	17.15	665.07	5.92	949.00	40.17	3247.66	18.28
57353	52.55	-3.10	-2.70	350.68	24.71	112.10	80.48	421.70	10.71	827.24	37.38	1142.61	80.42	3051.66	37.66
57354	53.95	-3.10	-2.70	509.78	76.64	262.65	158.06	471.12	20.56	1080.08	132.70	1393.67	156.42	2933.90	176.67
57355	24.57	-2.50	-2.70	533.56	117.25	248.81	173.66	455.61	37.01	1132.25	158.82	1417.11	176.84	3021.40	258.48
57356	25.96	-2.50	-2.70	376.61	17.12	103.85	72.19	404.86	12.72	847.80	34.57	1131.37	71.93	3094.46	61.66
57357	27.36	-2.50	-2.70	310.93	4.87	18.95	38.89	370.79	17.14	661.47	8.92	923.34	38.92	3284.10	24.83
57358	28.75	-2.50	-2.70	274.03	1.06	59.33	19.24	333.75	12.03	499.00	1.31	733.26	19.23	3432.20	13.51
57359	30.15	-2.50	-2.70	244.77	0.98	100.97	7.86	294.18	8.90	366.86	1.65	557.62	8.18	3634.84	13.47
57360	31.55	-2.50	-2.70	219.80	1.49	127.95	1.66	252.04	6.69	271.57	1.91	409.97	3.59	3595.46	11.06
57361	32.94	-2.50	-2.70	199.15	1.50	143.84	1.37	207.96	5.45	212.90	1.81	299.28	4.03	3625.88	9.36
57362	34.34	-2.50	-2.70	183.15	1.48	152.26	2.25	162.60	4.86	182.30	1.65	226.46	4.51	3638.12	7.66
57363	35.73	-2.50	-2.70	171.65	1.42	156.12	2.07	116.49	4.62	168.39	1.50	185.41	4.34	3641.14	6.25
57364	37.13	-2.50	-2.70	164.27	1.38	157.58	1.38	69.99	4.53	162.57	1.40	165.99	3.92	3640.63	5.18
57365	38.53	-2.50	-2.70	160.67	1.36	157.99	0.49	23.32	4.50	160.46	1.36	158.80	3.61	3639.70	4.58
57366	39.92	-2.50	-2.70	160.67	1.36	157.99	0.49	23.42	4.50	160.45	1.36	158.80	3.61	3639.70	4.58
57367	41.32	-2.50	-2.70	164.28	1.38	157.58	1.38	70.10	4.53	162.55	1.40	165.97	3.93	3640.63	5.17
57368	42.72	-2.50	-2.70	171.66	1.42	156.12	2.07	116.60	4.62	168.34	1.50	185.38	4.34	3641.16	6.24
57369	44.11	-2.50	-2.70	183.16	1.48	152.26	2.25	162.71	4.86	182.21	1.65	226.41	4.51	3638.14	7.64
57370	45.51	-2.50	-2.70	199.16	1.50	143.85	1.37	208.07	5.45	212.73	1.81	299.19	4.03	3625.92	9.34
57371	46.90	-2.50	-2.70	219.81	1.49	127.96	1.66	252.15	6.69	271.31	1.91	409.83	3.58	3595.51	11.05
57372	48.30	-2.50	-2.70	244.77	0.99	100.98	7.86	294.28	8.90	366.50	1.65	557.42	8.17	3534.90	13.46
57373	49.70	-2.50	-2.70	274.02	1.06	59.35	19.24	333.86	12.03	498.55	1.31	732.97	19.23	3432.26	13.50
57374	51.09	-2.50	-2.70	310.89	4.87	18.97	38.89	370.90	17.15	660.91	8.91	922.90	38.92	3284.16	24.81
57375	52.49	-2.50	-2.70	376.54	17.11	103.85	72.19	404.99	12.74	847.05	34.67	1130.66	71.92	3094.45	61.72
57376	53.88	-2.50	-2.70	533.46	117.23	248.83	173.68	455.76	36.97	1131.46	159.15	1416.29	176.90	3021.25	258.59
57377	24.50	-3.10	-4.10	304.04	51.68	152.77	78.63	432.54	26.99	282.71	58.45	1288.93	75.08	3194.14	207.55
57378	25.90	-3.10	-4.10	172.46	21.28	91.82	74.67	388.00	16.72	82.52	25.29	1302.33	74.58	3261.30	57.83
57379	27.30	-3.10	-4.10	174.49	1.60	26.71	42.93	351.96	10.64	133.94	5.22	1118.67	43.04	3422.45	12.27
57380	28.71	-3.10	-4.10	207.87	2.15	35.67	21.75	316.01	16.67	269.11	2.56	873.12	21.82	3570.70	22.05
57381	30.11	-3.10	-4.10	229.30	0.36	74.89	9.21	278.07	19.82	363.07	2.58	632.69	9.88	3656.11	22.44
57382	31.51	-3.10	-4.10	240.20	0.39	101.67	2.25	238.00	21.73	408.62	2.27	434.22	5.37	3687.32	23.81
57383	32.91	-3.10	-4.10	245.63	0.43	118.12	1.04	196.36	22.91	410.39	1.71	292.60	5.13	3687.80	24.09
57384	34.32	-3.10	-4.10	248.83	0.57	127.37	2.06	153.61	23.54	380.86	1.26	205.10	5.20	3675.79	24.18
57385	35.72	-3.10	-4.10	251.09	0.71	132.05	1.95	110.13	23.83	334.86	0.98	160.05	4.84	3661.90	24.13
57386	37.12	-3.10	-4.10	252.68	0.81	134.15	1.31	66.24	23.93	288.18	0.89	141.47	4.36	3651.15	24.03
57387	38.52	-3.10	-4.10	253.53	0.86	134.90	0.47	22.21	23.95	257.85	0.87	135.57	4.04	3645.49	23.96
57388	39.93	-3.10	-4.10	253.53	0.86	134.90	0.47	22.31	23.95	257.89	0.87	135.57	4.04	3645.49	23.96
57389	41.33	-3.10	-4.10	252.68	0.81	134.15	1.31	66.35	23.93	288.28	0.89	141.45	4.36	3651.15	24.03
57390	42.73	-3.10	-4.10	251.09	0.71	132.05	1.95	110.24	23.83	335.00	0.98	160.02	4.84	3661.90	24.13
57391	44.13	-3.10	-4.10	248.83	0.57	127.37	2.06	153.71	23.54	381.03	1.26	205.06	5.20	3675.79	24.18
57392	45.54	-3.10	-4.10	245.64	0.43	118.12	1.04	196.47	22.91	410.60	1.71	292.56	5.13	3687.80	24.08
57393	46.94	-3.10	-4.10	240.21	0.39	101.66	2.25	238.11	21.73	408.88	2.27	434.19	5.36	3687.33	23.81
57394	48.34	-3.10	-4.10	229.31	0.36	74.87	9.21	278.18	19.82	363.41	2.57	632.69	9.87	3656.10	22.44
57395	49.74	-3.10	-4.10	207.89	2.15	35.65	21.75	316.12	16.67	269.54	2.56	873.16	21.81	3570.67	22.05
57396	51.15	-3.10	-4.10	174.53	1.59	26.78	42.93	352.06	10.64	134.44	5.22	1118.79	43.05	3422.32	12.26
57397	52.55	-3.10	-4.10	172.54	21.29	91.90	74.67	388.11	16.71	81.61	25.37	1302.56	74.58	3260.98	57.82
57398	53.95	-3.10	-4.10	304.21	51.68	152.88	78.68	432.67	27.02	281.64	58.94	1289.73	75.20	3192.80	206.75
57399	24.59	-2.50	-4.10	352.04	73.54	144.97	97.42	416.24	47.91	409.06	66.54	1259.65	110.06	3303.94	332.17
57400	25.96	-2.50	-4.10	211.26	10.55	83.92	69.09	366.34	19.29	151.24	15.24	1280.67	70.59	3312.18	71.71
57401	27.36	-2.50	-4.10	157.32	3.00	19.78	41.92	337.94	10.36	130.42	5.19	1102.45	42.76	3459.08	22.04
57402	28.75	-2.50	-4.10	154.95	0.75	42.84	21.25	306.3							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
57429	35.72	-3.10	-5.50	558.94	1.31	74.65	1.25	99.82	44.06	743.23	1.33	98.22	7.53	3543.17	44.25
57430	37.12	-3.10	-5.50	565.94	1.24	74.53	0.83	60.14	44.43	639.76	1.26	80.01	7.72	3522.00	44.49
57431	38.52	-3.10	-5.50	569.46	1.21	74.27	0.30	20.44	44.53	578.18	1.21	74.73	7.82	3511.86	44.53
57432	39.93	-3.10	-5.50	569.45	1.21	74.27	0.30	20.54	44.53	578.21	1.21	74.73	7.82	3511.86	44.53
57433	41.33	-3.10	-5.50	565.93	1.24	74.53	0.83	60.24	44.43	639.85	1.26	80.01	7.72	3521.99	44.49
57434	42.73	-3.10	-5.50	558.93	1.31	74.65	1.25	99.92	44.06	743.37	1.33	98.22	7.53	3543.16	44.25
57435	44.13	-3.10	-5.50	548.53	1.40	73.79	1.32	139.27	43.12	864.11	1.40	144.57	7.23	3576.37	43.51
57436	45.54	-3.10	-5.50	534.77	1.47	70.65	0.65	178.21	41.07	978.91	1.58	236.71	6.89	3620.83	41.81
57437	46.94	-3.10	-5.50	517.53	1.36	63.61	2.23	216.72	37.26	1064.31	2.15	392.11	7.43	3669.98	38.67
57438	48.34	-3.10	-5.50	496.22	1.06	51.72	8.07	254.78	30.92	1095.85	2.95	625.67	12.00	3705.85	33.13
57439	49.74	-3.10	-5.50	470.10	1.09	38.27	19.12	292.60	20.96	1054.44	3.43	933.86	22.94	3691.87	26.46
57440	51.15	-3.10	-5.50	443.12	1.92	38.74	36.40	331.48	7.88	955.85	3.95	1256.36	46.73	3586.99	8.21
57441	52.55	-3.10	-5.50	433.18	17.25	58.48	54.55	374.75	13.20	879.99	41.04	1437.93	55.33	3406.72	53.27
57442	53.95	-3.10	-5.50	480.61	62.72	80.44	62.39	427.39	22.10	986.69	174.68	1341.80	144.67	3200.55	191.01
57443	24.57	-2.50	-5.50	493.58	72.44	81.07	66.95	413.67	44.21	874.25	170.16	1312.97	75.46	3318.52	316.54
57444	25.96	-2.50	-5.50	454.72	9.00	52.57	51.67	356.34	15.95	902.95	33.32	1428.18	57.93	3453.47	42.39
57445	27.36	-2.50	-5.50	446.94	3.50	36.69	35.88	322.09	7.91	1011.05	6.97	1267.65	37.62	3607.95	33.30
57446	28.75	-2.50	-5.50	462.30	0.99	49.91	19.04	288.07	21.72	1113.09	4.91	970.64	22.91	3688.19	26.66
57447	30.15	-2.50	-5.50	482.44	1.01	70.39	8.20	252.38	31.53	1139.26	3.71	677.98	18.56	3688.00	34.58
57448	31.55	-2.50	-5.50	501.84	1.04	84.86	2.54	215.25	37.86	1090.32	2.54	448.65	16.72	3647.77	39.01
57449	32.94	-2.50	-5.50	519.20	1.25	92.49	0.62	177.13	41.69	990.94	1.65	289.81	15.72	3598.32	42.20
57450	34.34	-2.50	-5.50	533.74	1.42	95.31	1.11	138.39	43.76	866.09	1.47	189.81	14.87	3554.68	43.98
57451	35.73	-2.50	-5.50	544.93	1.54	95.51	1.07	99.23	44.72	738.29	1.54	133.28	14.19	3522.24	44.82
57452	37.13	-2.50	-5.50	552.47	1.61	94.76	0.72	59.28	45.10	629.84	1.62	105.68	13.73	3501.56	45.13
57453	38.53	-2.50	-5.50	556.25	1.65	94.13	0.27	20.39	45.21	565.39	1.65	95.20	13.50	3491.63	45.21
57454	39.92	-2.50	-5.50	556.25	1.65	94.13	0.27	20.48	45.21	565.43	1.65	95.18	13.50	3491.63	45.21
57455	41.32	-2.50	-5.50	552.46	1.61	94.75	0.72	59.87	45.10	629.93	1.62	105.62	13.73	3501.53	45.13
57456	42.72	-2.50	-5.50	544.92	1.54	95.50	1.07	99.33	44.72	738.44	1.54	133.19	14.19	3522.20	44.82
57457	44.11	-2.50	-5.50	533.73	1.42	95.30	1.11	138.49	43.76	866.29	1.47	189.68	14.87	3554.62	43.97
57458	45.51	-2.50	-5.50	519.19	1.25	92.47	0.62	177.23	41.69	991.19	1.65	289.66	15.72	3598.22	42.19
57459	46.90	-2.50	-5.50	501.83	1.04	84.84	2.53	215.36	37.86	1090.63	2.54	448.47	16.71	3647.63	39.00
57460	48.30	-2.50	-5.50	482.44	1.01	70.36	8.20	252.48	31.52	1139.63	3.71	677.79	18.54	3687.82	34.58
57461	49.70	-2.50	-5.50	462.29	0.99	49.86	19.05	288.18	21.72	1113.50	4.91	970.45	22.89	3687.93	26.67
57462	51.09	-2.50	-5.50	446.93	3.50	36.64	35.88	322.20	7.90	1011.44	6.97	1267.53	37.61	3607.56	33.35
57463	52.49	-2.50	-5.50	454.70	9.00	52.53	51.68	356.45	15.96	903.22	33.35	1428.28	57.97	3452.87	42.33
57464	53.88	-2.50	-5.50	493.58	72.44	81.01	66.97	413.78	44.22	874.31	170.31	1313.52	75.50	3317.93	316.89
57465	24.50	-3.10	-6.90	797.52	81.93	46.43	88.18	429.20	34.18	2097.79	256.70	1608.55	212.21	3025.16	124.47
57466	25.90	-3.10	-6.90	761.47	22.35	49.21	23.90	363.08	6.04	1851.98	87.56	1672.77	96.38	3475.36	123.14
57467	27.30	-3.10	-6.90	780.72	2.54	63.85	8.35	309.60	14.31	1942.40	11.25	1354.98	50.42	3737.70	46.53
57468	28.71	-3.10	-6.90	807.71	5.29	76.39	5.97	266.61	30.92	2000.02	5.39	897.65	63.31	3750.68	48.13
57469	30.11	-3.10	-6.90	834.31	5.19	86.52	9.91	228.84	46.12	1939.11	6.35	537.53	57.33	3650.62	49.30
57470	31.51	-3.10	-6.90	858.53	6.14	92.71	10.66	192.79	56.13	1790.04	9.10	305.32	52.26	3533.58	56.85
57471	32.91	-3.10	-6.90	879.45	6.64	95.35	9.48	157.83	61.96	1592.71	9.58	174.85	48.11	3434.61	62.10
57472	34.32	-3.10	-6.90	896.54	6.97	95.71	7.49	123.26	64.97	1381.34	9.26	116.59	45.23	3362.74	65.00
57473	35.72	-3.10	-6.90	909.48	7.13	94.97	5.29	88.55	66.29	1183.40	8.50	98.47	43.47	3315.63	66.30
57474	37.12	-3.10	-6.90	918.13	7.20	94.02	3.12	53.50	66.76	1025.18	7.75	94.36	42.49	3288.05	66.76
57475	38.52	-3.10	-6.90	922.46	7.22	93.42	1.03	18.47	66.87	934.94	7.29	93.43	42.06	3275.47	66.87
57476	39.93	-3.10	-6.90	922.46	7.22	93.42	1.03	18.55	66.87	934.96	7.29	93.43	42.06	3275.47	66.87
57477	41.33	-3.10	-6.90	918.12	7.20	94.03	3.12	53.59	66.76	1025.27	7.74	94.36	42.49	3288.03	66.76
57478	42.73	-3.10	-6.90	909.46	7.13	94.98	5.29	88.64	66.29	1183.53	8.49	98.48	43.47	3315.60	66.30
57479	44.13	-3.10	-6.90	896.51	6.97	95.71	7.49	123.36	64.97	1381.51	9.25	116.62	45.24	3362.69	65.00
57480	45.54	-3.10	-6.90	879.42	6.64	95.36	9.48	157.93	61.96	1592.92	9.58	174.88	48.11	3434.55	62.10
57481	46.94	-3.10	-6.90	858.50	6.14	92.72	10.66	192.89	56.13	1790.29	9.10	305.37	52.26	3533.49	56.85
57482	48.34	-3.10	-6.90	834.28	5.19	86.54	9.91	228.95	46.12	1939.41	6.35	537.60	57.33	3650.50	49.30
57483	49.74	-3.10	-6.90	807.69	5.29	76.43	5.97	266.72	30.92	2000.38	5.39	897.77	63.30	3750.52	48.16
57484	51.15	-3.10	-6.90	780.70	2.54	63.93	8.35	309.71	14.29	1942.79	11.26	1355.22	50.40	3737.44	46.58
57485	52.55	-3.10	-6.90	761.45	22.35	49.33	23.91	363.19	6.04	1852.33	87.56	1673.21	96.37	3474.99	123.19
57486	53.95	-3.10	-6.90	797.48	81.92	46.54	88.16	429.29	34.15	2097.85	256.68	1609.34	212.14	3024.59	124.27
57487	24.57	-2.50	-6.90	783.19	85.73	53.06	73.19	416.75	46.90	1937.40	229.66	1602.01	89.18	3144.93	251.57
57488	25.96	-2.50	-6.90	783.40	20.56	53.17	18.96	350.18	10.81	1922.88	96.54	1721.33	126.64	3510.36	74.86
57489	27.36	-2.50	-6.90	794.02	3.67	72.31	7.20	307.15	12.20	2039.17	23.18	1435.16	61.67	3730.79	18.87
57490	28.75	-2.50	-6.90	816.17	6.76	89.97	7.56	268.80	30.33	2085.17	10.74	1001.11	61.15	3725.49	30.98
57491	30.15	-2.50	-6.90	838.95	8.65	104.01	11.40	231.85	45.32	1997.32	8.79	643.40	54.96	3623.19	46.43
57492	31.55	-2.50	-6.90	861.04	10.18	113.44	11.88	195.27	55.07	1826.17	10.67	400.96	53.14	3509.38	55.83
57493	32.94	-2.50	-6.90	880.79	11.04	118.50	10.52	159.41	60.68	1613.83	11.88	253.80	51.90	3413.60	61.24
57494	34.34	-2.50	-6.90	897.15	11.51	120.66	8.34	124.04	63.54	1392.82	12.32	175.36	51.00	3343.94	63.90
57495	35.73	-2.50	-6.90	909.60	11.74	121.18	5.92	88.81	64.77	1188.80	12.25	139.61	50.41	3298.14	64.96
57496	37.13	-2.50	-6.90	917.93	11.83	121.04	3.51	53.53	65.19	1026.87	12.04	125.73	50.06	3271.23	65.26
57497	38.53	-2.50	-6.90	922.09	11.87	120.82	1.17	18.48	65.28	934.77	11.89	121.25	49.90	3258.94	65.29
57498	39.92	-2.50	-6.90	922.08	11.87	120.82	1.17	18.57	65.28	934.79	11.89	121.24	49.90	3258.93	65.29
57499	41.32	-2.50	-6.90	917.92	11.83	121.03	3.51	53.62	65.19	1026.94	12.04	125.69	50.06	3271.19	65.26
57500	42.72	-2.50	-6.90	909.59											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
57527	49.74	-3.10	-8.30	1163.77	14.25	149.44	79.83	239.59	43.93	3117.92	76.34	710.50	236.72	3622.45	48.90
57528	51.15	-3.10	-8.30	1130.29	15.82	103.00	92.72	277.55	19.20	3245.24	166.57	1294.50	296.75	3839.17	62.05
57529	52.55	-3.10	-8.30	1081.93	18.96	67.69	114.79	330.39	13.10	3073.22	217.04	2050.50	316.89	3718.73	85.53
57530	53.95	-3.10	-8.30	1062.19	122.63	75.63	144.36	414.27	30.95	2966.81	460.05	2204.81	514.74	2788.61	220.74
57531	24.57	-2.50	-8.30	1046.98	128.12	96.01	141.80	421.99	20.43	2863.08	477.90	2319.69	247.75	2798.44	401.84
57532	25.96	-2.50	-8.30	1105.04	23.25	99.40	124.88	352.90	21.47	3165.63	273.90	2287.38	234.17	3679.18	225.36
57533	27.36	-2.50	-8.30	1148.88	25.01	126.42	101.85	304.81	23.44	3346.54	205.87	1533.22	325.69	3826.82	157.95
57534	28.75	-2.50	-8.30	1181.04	25.85	162.74	87.96	265.75	45.87	3197.59	105.85	916.69	314.82	3642.04	84.80
57535	30.15	-2.50	-8.30	1209.32	31.47	198.91	76.49	225.80	63.57	2914.12	47.79	546.03	301.72	3433.03	71.04
57536	31.55	-2.50	-8.30	1234.49	36.57	225.26	65.52	187.78	74.85	2577.80	36.55	354.60	286.37	3257.63	75.60
57537	32.94	-2.50	-8.30	1255.76	40.21	242.04	54.37	151.88	81.15	2236.07	42.82	282.07	274.17	3132.41	81.17
57538	34.34	-2.50	-8.30	1272.76	42.43	251.54	42.85	117.43	84.15	1916.58	46.34	262.78	265.27	3050.85	84.16
57539	35.73	-2.50	-8.30	1285.40	43.65	256.27	30.93	83.75	85.30	1640.21	46.58	259.28	259.10	3001.36	85.32
57540	37.13	-2.50	-8.30	1293.75	44.24	258.30	18.71	50.38	85.59	1429.97	45.51	258.99	255.20	2973.90	85.61
57541	38.53	-2.50	-8.30	1297.91	44.47	258.98	6.38	17.44	85.61	1313.62	44.63	259.04	253.31	2961.79	85.61
57542	39.92	-2.50	-8.30	1297.90	44.48	258.98	6.38	17.51	85.61	1313.64	44.63	259.04	253.31	2961.78	85.61
57543	41.32	-2.50	-8.30	1293.74	44.25	258.30	18.71	50.45	85.59	1430.02	45.52	258.98	255.20	2973.86	85.61
57544	42.72	-2.50	-8.30	1285.37	43.65	256.27	30.93	83.82	85.30	1640.27	46.58	259.26	259.09	3001.28	85.33
57545	44.11	-2.50	-8.30	1272.72	42.43	251.54	42.84	117.51	84.15	1916.67	46.35	262.73	265.26	3050.73	84.16
57546	45.51	-2.50	-8.30	1255.72	40.22	242.04	54.37	151.96	81.15	2236.18	42.83	281.99	274.16	3132.25	81.17
57547	46.90	-2.50	-8.30	1234.44	36.57	225.25	65.51	187.86	74.85	2577.95	36.56	354.52	286.35	3257.42	75.60
57548	48.30	-2.50	-8.30	1209.26	31.47	198.88	76.49	225.89	63.57	2914.29	47.80	546.00	301.69	3432.77	71.05
57549	49.70	-2.50	-8.30	1180.97	25.84	162.68	87.96	265.84	45.86	3197.78	105.89	916.77	314.79	3641.73	84.84
57550	51.09	-2.50	-8.30	1148.81	24.99	126.31	101.85	304.90	23.42	3346.71	205.92	1533.46	325.65	3826.52	158.02
57551	52.49	-2.50	-8.30	1104.97	23.23	99.25	124.89	352.99	21.46	3165.71	273.97	2287.85	234.14	3678.94	225.44
57552	53.88	-2.50	-8.30	1046.92	128.10	95.90	141.82	422.06	20.43	2863.02	477.94	2320.31	247.73	2798.35	401.93
57553	55.18	3.10	1.75	1044.73	29.27	286.66	95.26	391.65	77.26	3744.57	50.14	548.63	117.32	1655.86	79.37
57554	55.10	2.50	1.75	1057.68	31.43	322.25	104.24	414.34	79.21	3787.69	42.88	465.05	181.18	1723.72	79.50
57555	56.21	3.10	1.75	1022.72	34.47	296.19	98.01	356.69	88.99	3831.23	35.08	356.57	112.78	1416.37	89.05
57556	56.14	2.50	1.75	1038.28	38.38	338.60	106.55	373.97	90.58	3899.67	39.37	343.90	171.25	1470.49	94.83
57557	57.25	3.10	1.75	1001.58	36.89	299.86	107.81	320.47	102.19	3837.03	52.42	326.33	121.89	1232.29	101.43
57558	57.17	2.50	1.75	1024.09	40.80	344.81	113.42	333.00	103.65	3934.02	68.65	451.26	164.47	1262.15	122.55
57559	58.29	3.10	1.75	965.71	64.65	323.31	144.73	297.56	133.60	3720.38	100.49	730.59	152.92	1033.27	133.70
57560	58.21	2.50	1.75	997.11	54.94	362.32	150.54	309.10	129.58	3828.03	131.08	874.16	156.65	1039.13	174.55
57561	59.33	3.10	1.75	946.39	124.73	377.01	221.91	322.18	237.59	3633.75	330.26	1173.15	400.62	660.32	237.11
57562	59.24	2.50	1.75	926.63	136.37	387.30	223.78	295.63	242.28	3592.64	351.41	1226.69	287.67	698.73	301.78
57563	55.14	3.10	0.25	791.16	17.51	274.22	14.51	432.98	110.60	2906.69	82.86	959.70	27.32	1859.62	133.48
57564	55.06	2.50	0.25	796.35	18.14	285.52	12.94	440.48	109.79	2936.50	83.26	914.32	20.25	1904.79	115.93
57565	56.10	3.10	0.25	769.59	11.58	307.83	24.66	401.93	115.13	2863.93	73.32	685.71	29.81	1484.93	133.64
57566	56.02	2.50	0.25	772.06	11.62	315.08	25.42	395.50	117.08	2941.00	70.30	669.62	27.39	1514.68	120.86
57567	57.06	3.10	0.25	748.17	13.69	335.08	15.28	375.05	98.27	2766.99	28.70	343.31	15.71	1211.07	108.34
57568	56.98	2.50	0.25	756.45	14.49	333.34	18.24	357.41	103.07	2873.66	22.02	341.22	19.83	1224.43	104.04
57569	58.02	3.10	0.25	733.27	21.87	358.77	25.38	357.84	62.35	2702.35	21.17	427.52	39.47	1005.63	83.41
57570	57.94	2.50	0.25	755.09	21.22	348.22	18.00	335.84	65.09	2810.02	21.27	401.74	58.21	1020.06	69.82
57571	58.99	3.10	0.25	772.53	106.09	424.59	103.77	398.62	118.79	2836.86	252.71	786.52	303.33	845.15	118.39
57572	58.90	2.50	0.25	750.51	114.11	393.80	82.61	347.90	131.68	2754.56	234.78	709.15	185.79	906.60	154.29
57573	55.10	3.10	-1.25	617.99	108.57	481.91	44.09	514.95	213.30	1851.61	414.83	1781.41	80.60	1941.12	302.01
57574	55.02	2.50	-1.25	608.18	94.36	444.79	30.85	502.42	214.34	1851.81	429.91	1841.49	30.78	1977.53	340.05
57575	55.98	3.10	-1.25	538.96	80.22	523.87	40.44	465.61	163.98	1778.72	394.02	1337.51	62.44	1425.91	235.65
57576	55.91	2.50	-1.25	529.39	63.84	470.58	42.34	450.27	157.99	1823.37	387.48	1359.25	41.87	1462.08	228.71
57577	56.87	3.10	-1.25	487.58	63.55	524.20	32.74	418.47	117.27	1710.75	213.93	771.78	53.67	1170.57	143.54
57578	56.79	2.50	-1.25	482.01	52.04	466.78	35.86	400.78	109.43	1782.67	220.98	766.94	65.42	1207.85	133.22
57579	57.76	3.10	-1.25	455.28	57.36	512.36	23.30	370.91	89.14	1711.96	109.46	473.83	49.76	1025.45	91.97
57580	57.67	2.50	-1.25	459.31	45.77	454.65	26.58	352.51	75.08	1778.60	100.63	409.31	86.49	1074.36	75.67
57581	58.64	3.10	-1.25	445.67	105.88	467.26	79.74	348.85	119.57	1783.05	136.57	588.35	148.57	945.86	136.23
57582	58.56	2.50	-1.25	440.32	98.99	416.27	74.49	318.99	113.74	1744.92	125.63	508.09	74.56	1002.64	130.22
57583	24.50	3.10	1.75	1077.25	26.73	252.19	91.51	419.58	58.93	3557.19	61.62	611.91	126.96	1959.03	70.20
57584	24.56	2.50	1.75	1088.84	25.90	280.50	100.89	446.64	60.42	3583.31	50.43	504.73	196.18	2021.38	61.29
57585	25.90	3.10	1.75	1115.30	21.39	190.53	86.46	426.45	33.55	3282.49	69.43	555.23	137.18	2254.20	57.13
57586	25.96	2.50	1.75	1125.73	18.01	215.12	95.58	452.82	34.42	3303.15	56.66	443.03	206.85	2309.81	37.90
57587	27.30	3.10	1.75	1149.38	11.52	123.62	78.93	403.92	5.21	2997.07	65.25	438.64	145.87	2470.67	38.94
57588	27.36	2.50	1.75	1157.34	6.86	151.77	87.66	426.14	8.77	3017.00	53.13	330.42	216.77	2522.25	15.61
57589	28.70	3.10	1.75	1174.56	4.29	71.23	68.94	362.82	23.88	2724.10	56.35	337.83	150.54	2631.87	39.51
57590	28.75	2.50	1.75	1179.95	2.70	108.25	77.28	380.85	24.55	2742.45	45.71	235.32	225.77	2683.29	26.89
57591	30.11	3.10	1.75	1194.86	5.83	44.66	59.48	314.52	42.13	2455.64	48.94	264.09	153.89	2757.85	49.44
57592	30.15	2.50	1.75	1198.94	9.55	88.60	67.41	329.01	41.94	2470.73	40.14	170.47	232.70	2809.00	42.73
57593	31.51	3.10	1.75	1212.54	9.52	47.16	50.61	264.08	53.10	2191.62	42.45	208.43	156.48	2852.99	57.37
57594	31.54	2.50	1.75	1216.44	14.11	87.00	57.81	275.67	52.45	2203.96	35.45	130.99	237.80	2902.66	52.74
57595	32.91	3.10	1.75	1228.19	12.01	58.94	41.74	213.74	59.11	1938.20	36.22				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
57625	53.95	3.10	1.75	1077.16	26.75	252.28	91.52	419.63	58.96	3557.26	61.66	612.09	126.97	1959.19	70.27
57626	53.89	2.50	1.75	1088.75	25.89	280.53	100.89	446.69	60.44	3583.41	50.42	504.57	196.20	2021.51	61.30
57627	24.50	3.10	0.25	820.94	7.55	212.92	5.84	467.22	87.56	2716.56	31.02	954.59	23.81	2316.42	94.77
57628	24.56	2.50	0.25	830.50	9.09	223.01	2.46	482.39	84.75	2720.01	31.01	889.37	34.65	2331.15	84.72
57629	25.90	3.10	0.25	863.92	4.65	134.90	15.62	464.54	52.21	2438.16	6.70	771.99	30.08	2635.57	52.29
57630	25.96	2.50	0.25	875.69	9.28	148.07	13.16	474.69	51.24	2448.59	9.31	704.79	46.74	2639.11	59.86
57631	27.30	3.10	0.25	880.05	1.51	93.02	5.68	423.96	16.26	2200.68	12.31	598.65	30.69	2819.27	16.68
57632	27.36	2.50	0.25	885.81	0.94	111.41	6.93	429.84	15.47	2217.52	9.74	526.68	44.13	2822.13	22.93
57633	28.70	3.10	0.25	886.48	1.65	80.15	9.94	376.14	7.96	1978.38	10.84	479.08	37.22	2976.79	8.11
57634	28.75	2.50	0.25	885.02	1.79	99.82	12.06	379.02	7.71	1989.97	7.99	403.97	46.74	2979.22	17.35
57635	30.11	3.10	0.25	888.76	2.19	74.98	12.26	326.35	22.45	1763.38	9.76	376.77	40.22	3108.20	22.61
57636	30.15	2.50	0.25	883.02	3.94	95.27	13.99	327.25	22.33	1767.72	8.00	304.82	48.75	3105.85	26.20
57637	31.51	3.10	0.25	890.03	2.98	70.66	11.87	275.74	31.92	1557.67	8.61	288.22	41.67	3208.64	32.08
57638	31.55	2.50	0.25	882.43	5.09	92.47	13.28	275.33	31.76	1557.10	7.67	226.25	50.19	3200.13	34.08
57639	32.91	3.10	0.25	891.45	3.66	67.06	10.13	224.91	37.52	1367.12	7.58	213.92	42.23	3279.39	37.67
57640	32.94	2.50	0.25	883.50	5.73	90.89	11.27	223.80	37.35	1364.05	7.34	167.45	50.91	3265.30	38.84
57641	34.32	3.10	0.25	893.17	4.10	64.46	7.90	174.28	40.51	1198.47	6.63	154.68	42.54	3325.70	40.62
57642	34.34	2.50	0.25	885.60	6.03	90.33	8.79	172.96	40.35	1194.27	6.98	127.98	51.18	3307.37	41.27
57643	35.72	3.10	0.25	894.91	4.38	62.88	5.57	124.04	41.93	1059.18	5.76	110.21	42.75	3353.82	41.99
57644	35.73	2.50	0.25	887.92	6.16	90.42	6.21	122.89	41.80	1054.26	6.64	105.48	51.21	3332.71	42.28
57645	37.12	3.10	0.25	896.32	4.53	62.05	3.29	74.25	42.50	957.99	5.06	79.80	42.91	3369.30	42.53
57646	37.13	2.50	0.25	889.83	6.20	90.74	3.68	73.48	42.40	952.37	6.37	95.06	51.15	3346.60	42.58
57647	38.52	3.10	0.25	897.11	4.59	61.71	1.09	24.91	42.68	904.12	4.65	63.75	43.00	3376.05	42.69
57648	38.53	2.50	0.25	890.88	6.21	90.99	1.22	24.68	42.60	898.00	6.23	91.41	51.09	3352.65	42.62
57649	39.93	3.10	0.25	897.10	4.59	61.72	1.09	25.00	42.68	904.12	4.65	63.78	43.00	3376.05	42.69
57650	39.92	2.50	0.25	890.88	6.21	90.99	1.22	24.77	42.60	898.02	6.23	91.40	51.09	3352.65	42.62
57651	41.33	3.10	0.25	896.31	4.53	62.06	3.29	74.34	42.50	958.01	5.06	79.87	42.91	3369.30	42.53
57652	41.32	2.50	0.25	889.82	6.20	90.74	3.68	73.57	42.40	952.40	6.37	95.02	51.15	3346.61	42.58
57653	42.73	3.10	0.25	894.90	4.37	62.90	5.57	124.13	41.92	1059.22	5.76	110.30	42.75	3353.83	41.99
57654	42.72	2.50	0.25	887.91	6.16	90.41	6.21	122.97	41.80	1054.31	6.64	105.42	51.21	3332.71	42.28
57655	44.13	3.10	0.25	893.15	4.10	64.49	7.90	174.37	40.51	1198.51	6.63	154.76	42.54	3325.71	40.62
57656	44.11	2.50	0.25	885.57	6.03	90.32	8.79	173.05	40.35	1194.32	6.98	127.90	51.18	3307.38	41.27
57657	45.54	3.10	0.25	891.43	3.66	67.10	10.13	225.00	37.52	1367.17	7.58	214.01	42.24	3279.41	37.67
57658	45.51	2.50	0.25	883.47	5.73	90.88	11.27	223.89	37.34	1364.12	7.34	167.34	50.91	3265.31	38.84
57659	46.94	3.10	0.25	890.00	2.98	70.70	11.87	275.83	31.92	1557.72	8.61	288.30	41.67	3208.67	32.08
57660	46.90	2.50	0.25	882.39	5.09	92.46	13.28	275.41	31.75	1557.17	7.67	226.12	50.19	3200.15	34.08
57661	48.34	3.10	0.25	888.72	2.19	75.02	12.26	326.43	22.44	1763.42	9.76	376.83	40.22	3108.25	22.61
57662	48.30	2.50	0.25	882.97	3.95	95.26	13.99	327.32	22.32	1767.80	8.00	304.69	48.75	3105.87	26.21
57663	49.75	3.10	0.25	886.44	1.65	80.20	9.94	376.22	7.95	1978.43	10.84	479.12	37.22	2976.86	8.11
57664	49.70	2.50	0.25	884.96	1.79	99.81	12.06	379.09	7.70	1990.05	7.99	403.84	46.74	2979.26	17.37
57665	51.15	3.10	0.25	880.01	1.51	93.07	5.68	424.04	16.27	2200.73	12.32	598.68	30.68	2819.37	16.70
57666	51.09	2.50	0.25	885.75	0.94	111.41	6.93	429.91	15.48	2217.60	9.73	526.55	44.14	2822.19	22.97
57667	52.55	3.10	0.25	863.96	4.65	134.95	15.63	464.61	52.23	2438.22	6.70	771.98	30.07	2632.11	52.31
57668	52.49	2.50	0.25	875.62	9.28	148.09	13.16	474.76	51.26	2448.65	9.31	704.69	46.76	2639.21	59.91
57669	53.95	3.10	0.25	820.86	7.55	212.97	5.85	467.28	87.58	2716.66	31.02	954.56	23.80	2316.59	94.82
57670	53.89	2.50	0.25	830.43	9.09	223.04	2.44	482.45	84.78	2720.05	31.02	889.26	34.67	2331.29	84.76
57671	24.50	3.10	-1.25	674.16	43.34	292.94	119.60	538.58	141.43	1821.68	131.01	1444.19	119.12	2693.70	148.30
57672	24.57	2.50	-1.25	685.37	65.74	281.24	123.71	537.07	143.47	1815.33	148.73	1478.70	123.96	2734.36	198.46
57673	25.90	3.10	-1.25	620.17	15.47	94.26	62.00	470.31	43.77	1592.09	25.39	937.59	66.38	2883.24	53.49
57674	25.96	2.50	-1.25	638.48	8.80	95.52	58.58	466.90	40.60	1605.84	26.55	912.70	58.74	2902.94	44.68
57675	27.30	3.10	-1.25	603.82	0.43	43.63	30.58	416.55	19.05	1410.51	4.89	769.57	30.96	3059.37	19.29
57676	27.36	2.50	-1.25	604.43	2.30	56.83	30.44	411.98	18.63	1425.17	6.06	729.93	31.64	3081.37	21.08
57677	28.71	3.10	-1.25	591.32	1.28	70.36	14.71	368.25	5.66	1239.83	1.54	622.88	16.50	3224.20	12.16
57678	28.75	2.50	-1.25	579.72	0.65	80.00	14.72	364.55	5.35	1238.16	0.68	573.66	19.26	3238.22	7.53
57679	30.11	3.10	-1.25	579.58	0.73	96.10	5.75	320.44	5.57	1075.41	1.92	488.68	9.40	3356.35	11.06
57680	30.15	2.50	-1.25	560.17	0.44	103.42	5.87	317.07	5.84	1062.59	1.47	440.93	13.67	3358.53	9.28
57681	31.51	3.10	-1.25	568.38	0.83	112.28	1.38	271.91	11.73	926.44	2.00	370.35	8.50	3450.78	14.99
57682	31.55	2.50	-1.25	545.26	0.36	118.67	1.55	268.92	11.99	907.76	1.40	330.48	12.43	3442.67	13.80
57683	32.91	3.10	-1.25	558.49	0.92	121.29	1.34	222.74	15.72	799.12	1.88	275.47	9.12	3512.06	17.71
57684	32.94	2.50	-1.25	534.50	0.38	127.24	1.23	220.17	15.94	778.55	1.26	246.53	12.29	3496.29	17.10
57685	34.32	3.10	-1.25	550.51	0.87	125.93	1.74	173.23	18.00	696.51	1.59	207.05	9.49	3548.47	19.17
57686	34.34	2.50	-1.25	527.17	0.44	131.58	1.61	171.16	18.19	675.89	1.05	189.87	12.39	3527.73	18.89
57687	35.72	3.10	-1.25	544.66	0.81	128.10	1.50	123.63	19.16	619.42	1.25	163.60	9.51	3568.37	19.76
57688	35.73	2.50	-1.25	522.46	0.52	133.49	1.41	122.12	19.34	599.05	0.84	156.99	12.54	3544.69	19.70
57689	37.12	3.10	-1.25	540.87	0.76	128.98	0.97	74.11	19.69	567.89	0.95	140.10	9.39	3578.20	19.90
57690	37.13	2.50	-1.25	519.70	0.57	134.19	0.92	73.20	19.86	547.53	0.69	141.04	12.67	3552.96	19.99
57691	38.52	3.10	-1.25	539.03	0.74	129.27	0.35	24.72	19.88	542.03	0.76	130.40	9.30	3582.13	19.90
57692	38.53	2.50	-1.25	518.43	0.60	134.38	0.34	24.42	20.05	521.53	0.61	135.06	12.75	3556.23	20.06
57693	39.93	3.10	-1.25	539.03	0.74	129.27	0.35	24.81	19.88	542.05	0.76	130.41	9.30	3582.13	19.90
57694	39.92	2.50	-1.25	518.42	0.60	134.38	0.34	24.51	20.05	521.54	0.61	135.05	12.75	3556.23	20.06
57695	41.33	3.10	-1.25	540.87	0.76	128.99	0.97	74.20	19.69	567.93	0.95	140.12	9.39	3578.20	19.91
57696	41.32	2.50	-1.25	519.69											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
57723	19.21	2.50	1.75	926.73	136.38	387.29	223.76	295.55	242.23	3592.53	351.38	1226.53	287.64	698.42	301.70
57724	19.12	3.10	1.75	946.47	124.73	377.01	221.89	322.13	237.54	3633.72	330.25	1173.04	400.59	660.13	237.05
57725	23.39	2.50	0.25	796.41	18.13	285.48	12.94	440.43	109.76	2936.51	83.24	914.43	20.24	1904.59	115.92
57726	23.31	3.10	0.25	791.25	17.51	274.16	14.51	432.93	110.57	2906.57	82.86	959.76	27.33	1859.45	133.41
57727	22.43	2.50	0.25	772.12	11.62	315.03	25.42	395.45	117.05	2941.00	70.29	669.73	27.39	1514.43	120.84
57728	22.35	3.10	0.25	769.68	11.58	307.77	24.66	401.89	115.10	2863.81	73.32	685.81	29.81	1484.75	133.57
57729	21.47	2.50	0.25	756.50	14.49	333.29	18.24	357.36	103.04	2873.65	22.02	341.28	19.83	1224.13	104.01
57730	21.39	3.10	0.25	748.25	13.69	335.04	15.28	375.01	98.24	2766.90	28.70	343.38	15.71	1210.88	108.29
57731	20.51	2.50	0.25	755.15	21.22	348.16	18.00	335.76	65.07	2809.98	21.26	401.63	58.22	1019.73	69.81
57732	20.43	3.10	0.25	733.33	21.87	358.75	25.38	357.80	62.33	2702.31	21.16	427.45	39.45	1005.42	83.37
57733	19.55	2.50	0.25	750.59	114.13	393.74	82.64	347.79	131.63	2754.41	234.72	709.02	185.74	906.21	154.18
57734	19.46	3.10	0.25	772.57	106.09	424.59	103.76	398.58	118.76	2836.91	252.69	786.41	303.37	844.96	118.35
57735	23.43	2.50	-1.25	608.17	94.34	444.66	30.84	502.36	214.29	1851.90	429.82	1841.40	30.77	1977.31	339.91
57736	23.35	3.10	-1.25	618.05	108.55	481.82	44.09	514.90	213.26	1851.47	414.82	1781.74	80.59	1941.00	302.07
57737	22.54	2.50	-1.25	529.39	63.83	470.48	42.34	450.22	157.95	1823.45	387.43	1359.18	41.87	1461.84	228.60
57738	22.47	3.10	-1.25	539.02	80.20	523.76	40.43	465.58	163.94	1778.61	394.03	1337.87	62.39	1425.74	235.72
57739	21.66	2.50	-1.25	482.01	52.02	466.69	35.87	400.74	109.40	1782.71	220.98	766.87	65.46	1207.59	133.13
57740	21.58	3.10	-1.25	487.65	63.54	524.09	32.72	418.43	117.23	1710.66	213.96	772.08	53.59	1170.35	143.58
57741	20.78	2.50	-1.25	459.33	45.76	454.58	26.58	352.46	75.05	1778.59	100.65	409.21	86.55	1074.08	75.61
57742	20.69	3.10	-1.25	455.33	57.35	512.26	23.25	370.87	89.09	1711.90	109.52	473.89	49.63	1025.18	91.97
57743	19.89	2.50	-1.25	440.38	99.00	416.21	74.50	318.91	113.68	1744.81	125.52	507.99	74.48	1002.29	130.07
57744	19.81	3.10	-1.25	445.68	105.88	467.19	79.64	348.80	119.52	1783.07	136.46	588.17	148.70	945.62	136.26
57745	24.57	2.50	-2.70	533.54	117.25	248.76	173.65	455.61	37.01	1132.26	158.80	1417.06	176.85	3021.31	258.49
57746	25.96	2.50	-2.70	376.62	17.12	103.80	72.19	404.86	12.73	847.75	34.57	1131.37	71.92	3094.42	61.66
57747	27.36	2.50	-2.70	310.95	4.87	18.93	38.89	370.79	17.14	661.39	8.91	923.36	38.92	3284.08	24.81
57748	28.75	2.50	-2.70	274.06	1.06	59.36	19.24	333.76	12.03	498.91	1.31	733.30	19.22	3432.20	13.49
57749	30.15	2.50	-2.70	244.80	0.99	100.99	7.86	294.18	8.90	366.77	1.65	557.65	8.18	3534.86	13.45
57750	31.55	2.50	-2.70	219.83	1.49	127.96	1.66	252.05	6.69	271.50	1.91	410.00	3.59	3595.49	11.04
57751	32.94	2.50	-2.70	199.18	1.50	143.85	1.37	207.97	5.44	212.84	1.81	299.31	4.03	3625.90	9.34
57752	34.34	2.50	-2.70	183.17	1.48	152.27	2.25	162.61	4.86	182.26	1.65	226.48	4.51	3638.14	7.64
57753	35.73	2.50	-2.70	171.67	1.42	156.13	2.07	116.50	4.61	168.36	1.50	185.42	4.34	3641.17	6.23
57754	37.13	2.50	-2.70	164.29	1.38	157.58	1.38	70.00	4.53	162.56	1.40	165.99	3.92	3640.64	5.17
57755	38.53	2.50	-2.70	160.68	1.36	157.99	0.49	23.32	4.50	160.46	1.36	158.81	3.61	3639.71	4.57
57756	39.92	2.50	-2.70	160.67	1.36	157.99	0.49	23.42	4.50	160.46	1.36	158.80	3.61	3639.71	4.58
57757	41.32	2.50	-2.70	164.27	1.38	157.58	1.38	70.09	4.53	162.57	1.40	165.98	3.92	3640.65	5.18
57758	42.72	2.50	-2.70	171.65	1.42	156.12	2.07	116.59	4.61	168.39	1.50	185.39	4.34	3641.17	6.25
57759	44.11	2.50	-2.70	183.15	1.48	152.26	2.25	162.70	4.86	182.31	1.65	226.44	4.51	3638.15	7.66
57760	45.51	2.50	-2.70	199.15	1.50	143.84	1.37	208.06	5.45	212.91	1.81	299.26	4.03	3625.92	9.36
57761	46.90	2.50	-2.70	219.79	1.49	127.95	1.66	252.14	6.69	271.58	1.91	409.94	3.59	3595.51	11.06
57762	48.30	2.50	-2.70	244.77	0.98	100.97	7.86	294.27	8.90	366.87	1.65	557.58	8.18	3534.89	13.47
57763	49.70	2.50	-2.70	274.02	1.06	59.32	19.24	333.85	12.03	499.01	1.31	733.23	19.23	3432.25	13.51
57764	51.09	2.50	-2.70	310.91	4.87	18.97	38.89	370.87	17.15	661.46	8.92	923.29	38.93	3284.16	24.83
57765	52.49	2.50	-2.70	376.60	17.12	103.89	72.20	404.95	12.73	847.77	34.59	1131.31	71.94	3094.53	61.66
57766	53.88	2.50	-2.70	533.56	117.27	248.86	173.68	455.71	37.01	1132.19	158.89	1417.05	176.86	3021.47	258.49
57767	24.50	3.10	-2.70	509.94	76.67	262.53	158.07	470.94	20.52	1082.59	132.05	1393.76	156.50	2934.57	177.08
57768	25.90	3.10	-2.70	350.78	24.71	112.03	80.47	421.60	10.70	828.41	37.23	1142.73	80.41	3051.70	37.77
57769	27.30	3.10	-2.70	321.01	2.09	15.65	39.28	383.05	17.15	665.75	5.90	949.06	40.15	3247.67	18.28
57770	28.71	3.10	-2.70	309.47	2.00	53.44	19.70	343.11	12.01	532.21	2.18	761.34	20.17	3416.73	16.28
57771	30.11	3.10	-2.70	297.77	0.10	96.68	8.12	301.24	8.89	419.63	0.99	580.52	9.12	3537.65	12.21
57772	31.51	3.10	-2.70	283.12	0.22	124.67	1.68	257.34	6.61	336.73	1.09	424.90	3.35	3611.06	10.97
57773	32.91	3.10	-2.70	267.41	0.28	141.64	1.32	211.92	5.37	284.28	0.97	307.28	2.78	3649.20	9.03
57774	34.32	3.10	-2.70	252.99	0.52	151.20	2.25	165.47	4.78	255.11	0.84	230.03	3.28	3665.54	7.44
57775	35.72	3.10	-2.70	241.37	0.70	156.13	2.07	118.44	4.54	239.96	0.81	187.02	3.28	3670.59	6.07
57776	37.12	3.10	-2.70	233.34	0.83	158.40	1.38	71.12	4.45	232.36	0.86	167.19	3.05	3671.01	5.06
57777	38.52	3.10	-2.70	229.27	0.89	159.25	0.49	23.69	4.43	229.14	0.89	160.10	2.87	3670.44	4.50
57778	39.93	3.10	-2.70	229.27	0.89	159.25	0.50	23.79	4.43	229.14	0.89	160.10	2.87	3670.44	4.50
57779	41.33	3.10	-2.70	233.34	0.83	158.40	1.38	71.22	4.45	232.38	0.86	167.20	3.05	3671.01	5.07
57780	42.73	3.10	-2.70	241.36	0.70	156.13	2.07	118.54	4.54	239.98	0.81	187.02	3.28	3670.59	6.09
57781	44.13	3.10	-2.70	252.99	0.52	151.20	2.25	165.57	4.78	255.15	0.84	230.03	3.28	3665.54	7.46
57782	45.54	3.10	-2.70	267.41	0.28	141.64	1.32	212.02	5.37	284.34	0.97	307.27	2.78	3649.20	9.05
57783	46.94	3.10	-2.70	283.11	0.22	124.68	1.68	257.43	6.61	336.81	1.09	424.87	3.35	3611.06	10.99
57784	48.34	3.10	-2.70	297.76	0.10	96.68	8.12	301.33	8.89	419.71	0.99	580.46	9.12	3537.67	12.23
57785	49.74	3.10	-2.70	309.46	2.00	53.45	19.70	343.20	12.01	532.29	2.18	761.24	20.17	3416.75	16.29
57786	51.15	3.10	-2.70	320.98	2.09	15.68	39.28	383.14	17.15	665.83	5.90	948.93	40.15	3247.69	18.28
57787	52.55	3.10	-2.70	350.74	24.71	112.07	80.48	421.69	10.70	828.50	37.24	1142.53	80.43	3051.73	37.77
57788	53.95	3.10	-2.70	509.91	76.68	262.58	158.09	471.01	20.52	1082.71	132.11	1393.51	156.52	2934.59	177.09
57789	24.57	2.50	-4.10	352.05	73.55	144.91	97.43	416.24	47.92	409.03	66.55	1259.70	110.05	3303.85	332.12
57790	25.96	2.50	-4.10	211.27	10.55	83.86	69.09	366.33	19.29	151.21	15.24	1280.70	70.59	3312.14	71.69
57791	27.36	2.50	-4.10	157.35	3.00	19.73	41.92	337.93	10.36	130.49	5.19	1102.46	42.76	3459.07	22.03
57792	28.75	2.50	-4.10	154.99	0.75	42.86	21.25	306.29	16.70	265.94	1.20	869.88	22.21	3581.45	18.30
57793	30.15	2.50	-4.10	162.25	1.14	82.86	8.89	271.25	19.77	359.82	2.				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
57821	38.52	3.10	-4.10	253.54	0.86	134.90	0.47	22.21	23.95	257.89	0.87	135.57	4.04	3645.51	23.96
57822	39.93	3.10	-4.10	253.53	0.86	134.90	0.47	22.31	23.95	257.86	0.87	135.57	4.04	3645.51	23.96
57823	41.33	3.10	-4.10	252.68	0.81	134.15	1.31	66.34	23.93	288.19	0.89	141.46	4.36	3651.17	24.03
57824	42.73	3.10	-4.10	251.08	0.71	132.05	1.95	110.23	23.83	334.86	0.98	160.04	4.84	3661.92	24.13
57825	44.13	3.10	-4.10	248.83	0.57	127.36	2.06	153.71	23.54	380.86	1.26	205.08	5.20	3675.81	24.18
57826	45.54	3.10	-4.10	245.63	0.43	118.12	1.04	196.46	22.91	410.39	1.71	292.57	5.13	3687.82	24.09
57827	46.94	3.10	-4.10	240.20	0.39	101.66	2.25	238.10	21.73	408.62	2.27	434.18	5.37	3687.35	23.81
57828	48.34	3.10	-4.10	229.30	0.36	74.87	9.21	278.17	19.82	363.07	2.58	632.64	9.88	3656.14	22.44
57829	49.74	3.10	-4.10	207.87	2.15	35.65	21.76	316.11	16.67	269.11	2.56	873.05	21.82	3570.75	22.05
57830	51.15	3.10	-4.10	174.49	1.60	26.73	42.93	352.05	10.64	133.95	5.22	1118.60	43.04	3422.51	12.27
57831	52.55	3.10	-4.10	172.47	21.28	91.85	74.67	388.09	16.72	82.53	25.29	1302.23	74.58	3261.37	57.83
57832	53.95	3.10	-4.10	304.06	51.67	152.81	78.63	432.62	27.00	282.73	58.51	1288.84	75.08	3194.24	207.57
57833	24.57	2.50	-5.50	493.60	72.44	81.01	66.97	413.67	44.22	874.34	170.17	1313.06	75.49	3318.46	316.45
57834	25.96	2.50	-5.50	454.72	9.00	52.52	51.67	356.33	15.95	903.02	33.32	1428.23	57.92	3453.47	42.38
57835	27.36	2.50	-5.50	446.95	3.50	36.65	35.88	322.08	7.90	1011.13	6.97	1267.64	37.62	3607.96	33.28
57836	28.75	2.50	-5.50	462.31	0.99	49.89	19.04	288.06	21.72	1113.19	4.91	970.61	22.90	3688.21	26.64
57837	30.15	2.50	-5.50	482.46	1.01	70.38	8.20	252.37	31.52	1139.37	3.71	677.92	18.55	3688.02	34.57
57838	31.55	2.50	-5.50	501.85	1.04	84.85	2.53	215.25	37.86	1090.44	2.54	448.58	16.71	3647.79	39.00
57839	32.94	2.50	-5.50	519.21	1.25	92.49	0.62	177.13	41.69	991.05	1.65	289.74	15.72	3598.34	42.19
57840	34.34	2.50	-5.50	533.75	1.42	95.31	1.11	138.39	43.75	866.20	1.47	189.74	14.87	3554.71	43.97
57841	35.73	2.50	-5.50	544.93	1.54	95.50	1.07	99.23	44.72	738.39	1.54	133.22	14.19	3522.27	44.81
57842	37.13	2.50	-5.50	552.47	1.62	94.76	0.72	59.78	45.10	629.91	1.62	105.64	13.73	3501.60	45.13
57843	38.53	2.50	-5.50	556.25	1.65	94.13	0.27	20.39	45.21	565.42	1.65	95.18	13.50	3491.68	45.21
57844	39.92	2.50	-5.50	556.24	1.65	94.13	0.27	20.48	45.21	565.39	1.65	95.19	13.50	3491.68	45.21
57845	41.32	2.50	-5.50	552.46	1.61	94.76	0.72	59.87	45.10	629.83	1.62	105.67	13.73	3501.60	45.13
57846	42.72	2.50	-5.50	544.91	1.54	95.50	1.07	99.32	44.72	738.28	1.54	133.25	14.19	3522.28	44.82
57847	44.11	2.50	-5.50	533.72	1.42	95.31	1.11	138.49	43.76	866.07	1.47	189.77	14.87	3554.72	43.98
57848	45.51	2.50	-5.50	519.17	1.25	92.48	0.62	177.22	41.69	990.91	1.65	289.76	15.72	3598.36	42.20
57849	46.90	2.50	-5.50	501.81	1.04	84.84	2.54	215.35	37.86	1090.29	2.54	448.59	16.71	3647.81	39.00
57850	48.30	2.50	-5.50	482.42	1.01	70.37	8.20	252.48	31.53	1139.22	3.71	677.91	18.56	3688.05	34.58
57851	49.70	2.50	-5.50	462.27	0.99	49.88	19.05	288.17	21.72	1113.05	4.91	970.57	22.91	3688.24	26.65
57852	51.09	2.50	-5.50	446.92	3.50	36.67	35.88	322.19	7.90	1011.02	6.97	1267.58	37.63	3608.01	33.29
57853	52.49	2.50	-5.50	454.70	9.00	52.59	51.67	356.43	15.95	902.94	33.34	1428.11	57.93	3453.52	42.40
57854	53.88	2.50	-5.50	493.58	72.45	81.10	66.96	413.77	44.22	874.27	170.25	1312.91	75.48	3318.54	316.50
57855	24.50	3.10	-5.50	480.60	62.71	80.33	62.38	427.28	22.12	866.27	174.61	1340.98	144.67	3201.69	191.57
57856	25.90	3.10	-5.50	433.18	17.25	58.40	54.55	374.64	13.20	879.43	41.03	1437.63	55.31	3407.24	53.23
57857	27.30	3.10	-5.50	443.14	1.92	38.72	36.39	331.37	7.88	955.42	3.96	1256.27	46.69	3587.30	8.23
57858	28.71	3.10	-5.50	470.12	1.09	38.30	19.12	292.50	20.96	1054.15	3.43	933.88	22.93	3692.04	26.43
57859	30.11	3.10	-5.50	496.25	1.05	51.75	8.07	254.67	30.91	1095.65	2.95	625.73	11.99	3705.97	33.12
57860	31.51	3.10	-5.50	517.55	1.36	63.63	2.23	216.61	37.26	1064.18	2.15	392.19	7.43	3670.06	38.66
57861	32.91	3.10	-5.50	534.79	1.47	70.66	0.65	178.11	41.07	978.83	1.58	236.79	6.89	3620.89	41.81
57862	34.32	3.10	-5.50	548.54	1.40	73.80	1.32	139.17	43.11	864.06	1.40	144.63	7.23	3576.43	43.51
57863	35.72	3.10	-5.50	558.94	1.31	74.66	1.25	99.83	44.06	743.35	1.33	98.26	7.53	3543.20	44.25
57864	37.12	3.10	-5.50	565.94	1.24	74.54	0.83	60.15	44.42	639.85	1.26	80.03	7.72	3522.04	44.49
57865	38.52	3.10	-5.50	569.46	1.21	74.28	0.30	20.44	44.53	578.21	1.21	74.74	7.82	3511.90	44.53
57866	39.93	3.10	-5.50	569.45	1.21	74.28	0.30	20.54	44.53	578.18	1.21	74.73	7.82	3511.90	44.53
57867	41.33	3.10	-5.50	565.93	1.24	74.53	0.83	60.24	44.42	639.75	1.26	80.00	7.73	3522.03	44.49
57868	42.73	3.10	-5.50	558.93	1.31	74.65	1.25	99.92	44.06	743.22	1.33	98.20	7.54	3543.20	44.25
57869	44.13	3.10	-5.50	548.52	1.40	73.79	1.32	139.27	43.12	863.91	1.40	144.55	7.24	3576.42	43.51
57870	45.54	3.10	-5.50	534.76	1.47	70.64	0.65	178.20	41.07	978.67	1.58	236.69	6.90	3620.88	41.82
57871	46.94	3.10	-5.50	517.51	1.36	63.60	2.23	216.71	37.26	1064.02	2.15	392.07	7.43	3670.04	38.67
57872	48.34	3.10	-5.50	496.20	1.06	51.70	8.08	254.77	30.92	1095.49	2.95	625.58	11.99	3705.94	33.12
57873	49.74	3.10	-5.50	470.07	1.09	38.22	19.12	292.59	20.96	1053.98	3.43	933.71	22.93	3692.02	26.44
57874	51.15	3.10	-5.50	443.09	1.92	38.66	36.40	331.46	7.88	955.25	3.96	1256.08	46.69	3587.28	8.22
57875	52.55	3.10	-5.50	433.13	17.25	58.41	54.55	374.73	13.20	879.26	41.04	1437.43	55.32	3407.23	53.23
57876	53.95	3.10	-5.50	480.58	62.71	80.36	62.39	427.37	22.12	866.14	174.68	1340.79	144.70	3201.66	191.52
57877	24.57	2.50	-6.90	783.21	85.74	53.00	73.21	416.75	46.90	1937.53	229.69	1602.11	89.23	3144.91	251.43
57878	25.96	2.50	-6.90	783.40	20.56	53.13	18.96	350.17	10.81	1922.96	96.54	1721.35	126.63	3510.41	74.87
57879	27.36	2.50	-6.90	794.03	3.67	72.27	7.20	307.14	12.20	2039.27	23.17	1435.12	61.67	3730.83	18.85
57880	28.75	2.50	-6.90	816.17	6.76	89.93	7.56	268.79	30.33	2085.28	10.74	1001.02	61.16	3725.53	30.97
57881	30.15	2.50	-6.90	838.96	8.65	103.97	11.40	231.85	45.31	1997.44	8.80	643.29	54.97	3623.22	46.42
57882	31.55	2.50	-6.90	861.05	10.19	113.41	11.88	195.26	55.07	1826.30	10.68	400.84	53.14	3509.41	55.82
57883	32.94	2.50	-6.90	880.80	11.04	118.48	10.52	159.41	60.68	1613.95	11.88	253.68	51.89	3413.62	61.24
57884	34.34	2.50	-6.90	897.16	11.52	120.64	8.34	124.04	63.54	1392.93	12.32	175.25	51.00	3343.97	63.89
57885	35.73	2.50	-6.90	909.61	11.74	121.17	5.92	88.81	64.77	1188.89	12.25	139.54	50.41	3298.16	64.96
57886	37.13	2.50	-6.90	917.93	11.84	121.03	3.51	53.53	65.19	1026.93	12.04	125.69	50.06	3271.28	65.26
57887	38.53	2.50	-6.90	922.09	11.87	120.81	1.17	18.48	65.28	934.80	11.89	121.23	49.90	3258.99	65.29
57888	39.92	2.50	-6.90	922.08	11.87	120.81	1.17	18.57	65.28	934.77	11.89	121.24	49.90	3258.99	65.29
57889	41.32	2.50	-6.90	917.91	11.83	121.03	3.51	53.61	65.19	1026.85	12.04	125.72	50.06	3271.28	65.26
57890	42.72	2.50	-6.90	909.58	11.74	121.17	5.92	88.90	64.77	1188.77	12.25	139.58	50.41	3298.17	64.96
57891	44.11	2.50	-6.90	897.12	11.51	120.65	8.34	124.13	63.54	1392.79	12.32	175.31	51.00	3343.97	63.90
57892	45.51	2.50	-6.90	880.76	11.0										



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
57919	52.55	3.10	-6.90	761.43	22.35	49.22	23.90	363.17	6.04	1851.96	87.57	1672.70	96.40	3475.41	123.13
57920	53.95	3.10	-6.90	797.48	81.92	46.44	88.17	429.28	34.17	2097.73	256.74	1608.46	212.19	3025.25	124.53
57921	24.57	2.50	-8.30	1046.99	128.11	95.98	141.82	421.98	20.41	2863.22	477.90	2319.70	247.82	2798.46	401.66
57922	25.96	2.50	-8.30	1105.04	23.24	99.32	124.88	352.88	21.46	3165.74	273.88	2287.29	234.15	3679.26	225.32
57923	27.36	2.50	-8.30	1148.89	25.00	126.35	101.84	304.79	23.43	3346.67	205.85	1533.10	325.66	3826.87	157.92
57924	28.75	2.50	-8.30	1181.04	25.85	162.69	87.95	265.73	45.86	3197.72	105.83	916.55	314.80	3642.06	84.78
57925	30.15	2.50	-8.30	1209.32	31.47	198.88	76.48	225.79	63.57	2914.25	47.78	545.88	301.70	3433.05	71.03
57926	31.55	2.50	-8.30	1234.50	36.58	225.24	65.51	187.77	74.85	2577.92	36.56	354.46	286.35	3257.64	75.59
57927	32.94	2.50	-8.30	1255.76	40.22	242.03	54.36	151.87	81.15	2236.17	42.84	281.97	274.16	3132.43	81.17
57928	34.34	2.50	-8.30	1272.76	42.44	251.52	42.84	117.43	84.15	1916.67	46.36	262.71	265.26	3050.87	84.16
57929	35.73	2.50	-8.30	1285.40	43.66	256.26	30.92	83.74	85.30	1640.29	46.59	259.25	259.09	3001.38	85.33
57930	37.13	2.50	-8.30	1293.75	44.25	258.29	18.71	50.37	85.59	1430.02	45.52	258.97	255.20	2973.94	85.61
57931	38.53	2.50	-8.30	1297.90	44.48	258.97	6.38	17.43	85.61	1313.64	44.63	259.03	253.31	2961.84	85.61
57932	39.92	2.50	-8.30	1297.90	44.48	258.97	6.39	17.51	85.61	1313.62	44.63	259.03	253.31	2961.85	85.61
57933	41.32	2.50	-8.30	1293.74	44.25	258.29	18.72	50.45	85.59	1429.95	45.52	258.98	255.20	2973.95	85.61
57934	42.72	2.50	-8.30	1285.37	43.65	256.27	30.93	83.82	85.30	1640.18	46.58	259.27	259.09	3001.39	85.33
57935	44.11	2.50	-8.30	1272.71	42.43	251.53	42.85	117.51	84.15	1916.53	46.35	262.76	265.27	3050.88	84.16
57936	45.51	2.50	-8.30	1255.71	40.22	242.04	54.37	151.96	81.15	2236.01	42.83	282.03	274.16	3132.44	81.17
57937	46.90	2.50	-8.30	1234.43	36.57	225.25	65.52	187.86	74.85	2577.74	36.55	354.52	286.36	3257.65	75.59
57938	48.30	2.50	-8.30	1209.25	31.47	198.90	76.50	225.89	63.57	2914.05	47.77	545.92	301.71	3433.07	71.03
57939	49.70	2.50	-8.30	1180.96	25.85	162.71	87.97	265.84	45.86	3197.51	105.82	916.56	314.82	3642.08	84.78
57940	51.09	2.50	-8.30	1148.80	25.01	126.38	101.86	304.91	23.44	3346.46	205.83	1533.07	325.69	3826.89	157.92
57941	52.49	2.50	-8.30	1104.96	23.24	99.34	124.89	352.99	21.47	3165.55	273.86	2287.21	234.18	3679.26	225.32
57942	53.88	2.50	-8.30	1046.91	128.12	95.96	141.81	422.07	20.45	2863.02	477.93	2319.57	247.79	2798.49	401.74
57943	24.50	3.10	-8.30	1062.26	122.64	75.66	144.37	414.19	30.94	2966.99	460.08	2204.44	514.71	2788.93	220.95
57944	25.90	3.10	-8.30	1082.01	18.98	67.70	114.79	330.29	13.11	3073.30	217.03	2050.41	316.90	3719.01	85.59
57945	27.30	3.10	-8.30	1130.37	15.82	102.99	92.72	277.45	19.20	3245.27	166.55	1294.54	296.77	3839.45	62.11
57946	28.71	3.10	-8.30	1163.85	14.24	149.42	79.82	239.49	43.92	3117.93	76.33	710.60	236.75	3622.70	48.92
57947	30.11	3.10	-8.30	1193.48	18.67	190.33	69.67	203.26	62.17	2858.44	25.30	389.24	204.45	3390.74	62.42
57948	31.51	3.10	-8.30	1219.65	21.71	218.60	59.74	169.57	73.53	2539.13	25.03	259.27	182.05	3202.71	73.68
57949	32.91	3.10	-8.30	1241.73	23.59	235.79	49.61	137.94	79.71	2208.47	33.99	239.10	167.75	3071.75	80.14
57950	34.32	3.10	-8.30	1259.42	24.47	245.03	39.08	107.34	82.57	1896.10	35.34	245.00	158.95	2988.19	83.00
57951	35.72	3.10	-8.30	1272.65	24.81	249.34	28.20	76.97	83.60	1624.22	32.37	249.81	153.78	2938.49	83.87
57952	37.12	3.10	-8.30	1281.41	24.90	251.01	17.04	46.45	83.80	1416.58	28.21	251.37	151.00	2911.43	83.92
57953	38.52	3.10	-8.30	1285.77	24.90	251.48	5.76	15.88	83.78	1301.39	25.31	251.54	149.80	2899.67	83.79
57954	39.93	3.10	-8.30	1285.76	24.91	251.49	5.76	15.96	83.78	1301.35	25.32	251.54	149.80	2899.67	83.79
57955	41.33	3.10	-8.30	1281.39	24.90	251.01	17.05	46.52	83.81	1416.47	28.22	251.39	151.00	2911.44	83.92
57956	42.73	3.10	-8.30	1272.61	24.82	249.36	28.20	77.05	83.60	1624.05	32.38	249.84	153.78	2938.50	83.88
57957	44.13	3.10	-8.30	1259.38	24.48	245.05	39.09	107.41	82.57	1895.90	35.36	245.02	158.95	2988.20	83.01
57958	45.54	3.10	-8.30	1241.67	23.60	235.80	49.62	138.01	79.71	2208.25	34.01	239.10	167.75	3071.75	80.15
57959	46.94	3.10	-8.30	1219.58	21.72	218.62	59.74	169.64	73.54	2538.89	25.06	259.20	182.06	3202.71	73.69
57960	48.34	3.10	-8.30	1193.40	18.68	190.34	69.68	203.34	62.18	2858.19	25.29	389.09	204.45	3390.73	62.42
57961	49.74	3.10	-8.30	1163.76	14.24	149.41	79.83	239.57	43.93	3117.66	76.30	710.41	236.74	3622.68	48.91
57962	51.15	3.10	-8.30	1130.26	15.81	102.92	92.72	277.53	19.20	3244.99	166.53	1294.31	296.75	3839.43	62.09
57963	52.55	3.10	-8.30	1081.91	18.96	67.51	114.79	330.38	13.10	3073.02	216.99	2050.13	316.88	3718.99	85.56
57964	53.95	3.10	-8.30	1062.18	122.62	75.54	144.35	414.26	30.95	2966.74	460.08	2204.15	514.72	2788.90	220.85
57965	56.42	8.10	1.75	960.15	51.87	322.94	76.76	459.92	77.86	3821.87	56.31	437.26	224.65	1421.39	78.19
57966	57.53	8.10	1.75	935.93	58.23	348.62	74.49	407.85	85.12	3928.47	71.07	365.86	192.67	1109.17	93.76
57967	58.64	8.10	1.75	925.44	57.96	360.26	73.97	352.89	86.75	3973.89	84.58	397.05	147.38	844.01	122.92
57968	59.75	8.10	1.75	918.92	53.41	370.85	96.11	314.24	86.77	3941.03	106.33	660.71	92.87	610.14	165.82
57969	60.87	8.10	1.75	848.26	76.00	366.95	107.94	281.70	131.64	3694.93	237.21	883.37	105.97	364.17	216.65
57970	56.65	8.70	1.75	914.65	20.57	133.17	27.44	383.61	40.02	3748.44	23.18	418.62	84.17	1154.45	42.78
57971	57.78	8.70	1.75	885.51	20.17	137.32	28.12	365.38	47.06	3762.83	24.60	259.72	78.29	907.84	46.50
57972	58.90	8.70	1.75	867.44	21.76	158.55	35.00	341.29	49.21	3738.85	35.22	140.36	51.13	719.49	57.06
57973	60.03	8.70	1.75	867.20	2.36	212.59	45.36	323.96	52.79	3719.93	14.44	438.49	45.15	545.35	83.11
57974	61.16	8.70	1.75	1002.44	86.68	345.94	167.86	373.77	111.61	4141.71	235.68	879.31	489.48	395.13	128.69
57975	56.38	8.10	0.25	724.82	14.30	279.20	3.76	447.06	87.09	2955.96	68.14	858.70	4.06	1512.93	97.76
57976	57.41	8.10	0.25	689.31	11.48	314.21	17.48	380.03	95.73	3004.75	62.44	690.92	17.38	1098.08	105.03
57977	58.44	8.10	0.25	671.41	13.29	335.94	16.60	317.69	83.37	2978.09	24.75	409.87	16.95	797.18	89.96
57978	59.46	8.10	0.25	672.59	19.10	352.86	3.54	273.19	52.78	2923.91	18.40	325.82	53.38	603.46	59.72
57979	60.49	8.10	0.25	648.36	61.68	371.26	35.55	250.43	90.77	2752.22	90.16	523.28	75.39	488.06	97.46
57980	56.61	8.70	0.25	725.69	21.76	239.67	8.81	434.28	93.19	2864.63	71.68	892.71	25.72	1367.49	107.72
57981	57.65	8.70	0.25	701.97	19.02	296.94	16.48	418.66	93.92	2784.01	77.30	668.10	20.60	1012.93	107.54
57982	58.69	8.70	0.25	676.54	16.03	345.75	13.41	394.88	74.81	2701.68	48.91	385.60	15.16	772.74	81.26
57983	59.74	8.70	0.25	660.37	28.75	379.71	19.51	368.90	45.42	2691.48	28.46	404.85	22.91	596.33	63.43
57984	60.78	8.70	0.25	732.92	59.22	457.92	89.45	408.95	83.01	2988.63	162.39	722.06	340.68	492.91	82.29
57985	56.33	8.10	-1.25	535.31	59.02	336.21	13.35	474.79	179.16	1859.40	332.87	1694.08	83.33	1550.10	285.57
57986	57.28	8.10	-1.25	456.06	55.74	355.22	38.41	417.51	123.73	1876.55	317.44	1235.35	62.09	1074.86	157.81
57987	58.23	8.10	-1.25	415.84	52.24	368.34	37.53	360.71	82.75	1877.69	222.82	705.25	58.41	824.11	84.00
57988															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
58017	38.47	8.10	1.75	1365.83	51.59	182.22	4.60	28.14	81.57	1377.93	51.69	182.73	374.90	2800.81	81.64
58018	38.46	8.10	1.75	1364.74	14.95	27.60	1.45	24.51	53.03	1376.62	14.98	28.58	121.03	2569.10	53.05
58019	36.96	8.70	1.75	1357.63	51.09	179.25	13.42	83.67	81.17	1463.42	51.98	183.57	373.92	2796.54	81.81
58020	36.93	8.70	1.75	1356.94	14.79	27.90	4.17	73.14	52.98	1460.97	15.06	36.25	120.52	2564.91	53.11
58021	35.44	8.10	1.75	1341.35	49.90	172.79	22.27	139.79	80.09	1620.04	52.28	183.25	371.76	2786.49	81.79
58022	35.39	8.70	1.75	1341.40	14.42	28.69	6.83	121.29	52.70	1616.33	15.15	50.25	119.43	2554.33	53.07
58023	33.93	8.10	1.75	1317.28	47.61	161.97	31.02	196.55	77.77	1827.96	52.03	178.16	368.02	2767.47	80.82
58024	33.86	8.70	1.75	1318.26	13.71	30.42	9.36	168.52	51.87	1823.90	15.08	69.99	117.65	2533.11	52.52
58025	32.42	8.10	1.75	1286.05	43.65	145.91	39.63	254.04	73.31	2069.45	50.46	163.98	362.07	2734.37	77.70
58026	32.33	8.70	1.75	1287.71	12.52	33.74	11.72	214.40	49.90	2066.06	14.67	95.45	115.00	2495.39	50.81
58027	30.91	8.10	1.75	1248.74	37.30	124.80	48.03	312.12	65.45	2330.77	46.73	137.72	353.00	2680.04	70.93
58028	30.79	8.70	1.75	1249.97	10.67	39.48	13.88	258.40	45.91	2328.25	13.73	126.65	111.18	2434.35	47.01
58029	29.39	8.10	1.75	1207.01	27.92	103.09	56.22	370.10	52.58	2601.11	40.47	104.54	339.72	2595.86	58.94
58030	29.26	8.70	1.75	1205.09	8.10	48.44	15.95	299.84	38.67	2598.76	12.21	164.09	105.73	2343.27	39.96
58031	27.88	8.10	1.75	1162.72	16.31	96.69	64.35	426.09	33.48	2871.01	32.96	103.29	321.31	2473.15	41.29
58032	27.73	8.70	1.75	1152.72	5.41	61.54	18.49	337.56	26.73	2869.60	10.18	211.25	97.97	2216.22	28.63
58033	26.37	8.10	1.75	1115.84	13.21	127.52	72.16	475.37	15.54	3133.06	27.79	182.12	298.17	2305.23	25.55
58034	26.19	8.70	1.75	1092.98	4.30	79.75	21.98	369.74	10.63	3138.31	7.60	280.31	89.77	2046.34	14.96
58035	24.85	8.10	1.75	1061.84	27.58	192.87	77.11	506.05	34.09	3392.28	35.24	309.61	276.10	2076.96	35.63
58036	24.66	8.70	1.75	1026.84	5.98	103.83	23.77	390.31	12.63	3402.52	9.64	375.48	86.63	1810.91	15.78
58037	23.34	8.10	1.75	1004.01	42.33	269.06	77.85	499.58	59.63	3639.17	49.05	413.23	254.03	1759.28	58.54
58038	23.13	8.70	1.75	962.86	13.21	124.71	25.70	393.27	27.42	3627.79	18.44	441.22	85.03	1489.97	26.27
58039	55.11	8.10	0.25	775.70	10.41	209.12	5.07	498.57	62.09	2728.78	15.82	771.79	38.14	1935.36	61.34
58040	55.32	8.70	0.25	752.06	14.69	165.15	16.04	447.27	76.02	2731.52	20.07	842.12	17.22	1859.69	86.07
58041	53.59	8.10	0.25	834.22	16.42	130.75	16.13	488.74	35.91	2478.97	20.72	558.97	56.71	2268.07	42.57
58042	53.79	8.70	0.25	798.65	9.45	90.64	23.56	440.77	44.93	2482.59	11.80	627.43	25.63	2222.94	47.94
58043	52.08	8.10	0.25	855.46	2.86	90.98	9.62	443.92	8.71	2256.76	5.00	366.67	56.20	2479.33	10.69
58044	52.25	8.70	0.25	834.51	5.70	84.18	14.07	405.46	13.43	2252.42	5.70	454.98	17.00	2448.33	18.70
58045	50.57	8.10	0.25	867.85	3.50	72.11	9.79	393.13	13.00	2031.67	6.49	233.88	57.70	2645.77	16.40
58046	50.72	8.70	0.25	870.85	1.17	111.39	4.89	366.31	14.50	2039.35	1.19	353.27	7.75	2634.49	20.19
58047	49.06	8.10	0.25	882.94	7.58	63.88	10.76	340.56	24.13	1812.30	9.49	137.54	60.02	2765.12	27.30
58048	49.19	8.70	0.25	903.12	0.98	135.65	1.46	323.77	27.98	1833.42	0.96	278.56	5.67	2784.07	33.29
58049	47.54	8.10	0.25	901.73	9.83	64.32	10.44	287.19	31.68	1607.73	11.42	82.18	62.11	2844.68	34.73
58050	47.66	8.70	0.25	931.24	1.45	152.63	2.66	278.40	37.50	1635.64	1.55	226.37	6.19	2893.11	42.25
58051	46.03	8.10	0.25	922.21	11.01	70.00	9.10	233.84	36.39	1423.34	12.22	70.12	63.31	2894.76	38.90
58052	46.12	8.70	0.25	955.35	1.44	164.12	3.04	230.58	43.53	1452.33	1.59	196.25	6.46	2965.69	47.36
58053	44.52	8.10	0.25	941.77	11.58	77.01	7.26	180.98	39.07	1262.83	12.35	78.34	63.64	2924.83	40.82
58054	44.59	8.70	0.25	975.30	1.30	171.60	2.69	180.93	47.02	1290.76	1.40	183.35	6.04	3010.07	49.65
58055	43.01	8.10	0.25	958.17	11.81	83.07	5.21	128.74	40.46	1130.85	12.20	85.81	63.39	2942.10	41.43
58056	43.06	8.70	0.25	990.77	1.14	176.24	2.01	130.02	48.86	1158.58	1.17	179.83	5.20	3034.87	50.31
58057	41.49	8.10	0.25	969.88	11.89	87.28	3.12	77.05	41.10	1034.71	12.03	88.96	62.96	2951.35	41.46
58058	41.52	8.70	0.25	1001.35	1.02	178.87	1.23	78.33	49.74	1063.73	1.03	179.71	4.35	3047.30	50.28
58059	39.98	8.10	0.25	975.96	11.91	89.41	1.04	25.81	41.34	983.34	11.93	89.64	62.67	2955.35	41.38
58060	39.99	8.70	0.25	1006.73	0.96	180.04	0.45	26.24	50.07	1013.80	0.96	180.12	3.82	3052.30	50.14
58061	38.47	8.10	0.25	975.96	11.91	89.41	1.04	25.72	41.34	983.32	11.93	89.63	62.67	2955.35	41.38
58062	38.46	8.70	0.25	1006.74	0.96	180.04	0.45	26.15	50.07	1013.78	0.96	180.11	3.82	3052.30	50.14
58063	36.96	8.10	0.25	969.90	11.89	87.29	3.12	76.97	41.10	1034.65	12.03	88.95	62.96	2951.35	41.46
58064	36.93	8.70	0.25	1001.36	1.02	178.86	1.23	78.24	49.74	1063.67	1.03	179.70	4.35	3047.31	50.28
58065	35.44	8.10	0.25	958.20	11.81	83.08	5.21	128.65	40.46	1130.75	12.20	85.79	63.39	2942.11	41.42
58066	35.39	8.70	0.25	990.78	1.14	176.23	2.01	129.93	48.87	1158.49	1.17	179.81	5.20	3034.88	50.31
58067	33.93	8.10	0.25	941.80	11.58	77.02	7.25	180.89	39.07	1262.71	12.34	78.33	63.64	2924.83	40.82
58068	33.86	8.70	0.25	975.32	1.30	171.59	2.68	180.84	47.02	1290.65	1.40	183.32	6.04	3010.08	49.65
58069	32.42	8.10	0.25	922.26	11.01	70.02	9.10	233.75	36.39	1423.22	12.22	70.13	63.31	2894.76	38.90
58070	32.33	8.70	0.25	955.38	1.44	164.11	3.03	230.49	43.53	1452.21	1.59	196.22	6.46	2965.71	47.36
58071	30.91	8.10	0.25	901.78	9.83	64.34	10.44	287.10	31.69	1607.60	11.42	82.26	62.11	2844.68	34.73
58072	30.79	8.70	0.25	931.28	1.45	152.63	2.66	278.32	37.51	1635.52	1.55	226.34	6.19	2893.12	42.25
58073	29.39	8.10	0.25	883.00	7.58	63.89	10.76	340.47	24.14	1812.17	9.49	137.66	60.02	2765.10	27.30
58074	29.26	8.70	0.25	903.15	0.98	135.65	1.46	323.69	27.99	1833.31	0.96	278.55	5.67	2784.07	33.29
58075	27.88	8.10	0.25	867.91	3.51	72.09	9.79	393.04	13.01	2031.56	6.49	234.02	57.70	2645.74	16.39
58076	27.73	8.70	0.25	870.90	1.17	111.39	4.89	366.23	14.51	2039.26	1.19	353.29	7.75	2634.46	20.19
58077	26.37	8.10	0.25	855.53	2.86	90.94	9.62	443.83	8.71	2256.66	4.99	366.82	56.20	2479.27	10.67
58078	26.20	8.70	0.25	834.56	5.70	84.19	14.07	405.39	13.42	2252.36	5.70	455.03	16.99	2448.26	18.67
58079	24.86	8.10	0.25	834.29	16.41	130.69	16.13	488.66	35.89	2478.89	20.70	559.13	56.69	2267.98	42.54
58080	24.66	8.70	0.25	798.71	9.45	90.64	23.55	440.71	44.91	2482.54	11.79	627.53	25.62	2222.83	47.91
58081	23.34	8.10	0.25	775.77	10.41	209.05	5.08	498.49	62.06	2728.73	15.83	771.97	38.13	1935.23	61.31
58082	23.13	8.70	0.25	752.14	14.68	165.11	16.03	447.21	75.98	2731.47	20.06	842.25	17.21	1859.54	86.01
58083	55.11	8.10	-1.25	639.16	77.56	216.70	103.02	514.37	124.97	1852.06	134.27	1352.24	103.83	2284.66	207.36
58084	55.32	8.70	-1.25	652.99	30.84	295.74	101.16	524.54	123.05	1849.85	101.54	1324.99	99.07	2179.56	122.35
58085	53.59	8.10	-1.25	618.11	4.24	76.27	51.10	457.68	32.62	1618.23	23.30	784.21	50.82	2530.34	38.95
58086	53.79	8.70	-1.25	571.72	24.62	76.93	55.53	448.97	38.40	1606.74	28.09	836.09	58.34	2439.75	44.16
58087	52.08	8.10	-1.25	588.81	5.73	46.54	29.03	409.96							

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
58115	30.91	8.10	-1.25	568.45	0.63	48.41	2.41	273.18	16.85	905.13	0.69	161.46	11.50	3083.54	24.88
58116	30.79	8.10	-1.25	637.86	1.29	212.87	1.31	272.90	14.96	983.61	2.03	303.80	2.08	3101.95	22.91
58117	29.39	8.70	-1.25	565.19	0.56	49.34	6.97	320.85	11.44	1039.92	0.50	262.38	14.68	3015.53	21.03
58118	29.26	8.70	-1.25	618.49	0.80	176.10	5.92	318.22	9.88	1110.13	1.15	380.86	5.97	2998.09	18.74
58119	27.88	8.10	-1.25	571.69	1.11	47.50	15.31	366.50	6.83	1209.75	2.67	398.50	21.09	2907.18	14.59
58120	27.73	8.70	-1.25	596.96	2.18	125.18	14.37	361.25	6.25	1255.19	2.54	498.84	14.64	2846.79	14.93
58121	26.37	8.10	-1.25	588.87	5.73	46.47	29.02	409.88	14.12	1409.98	5.75	573.08	32.66	2745.06	18.13
58122	26.20	8.70	-1.25	577.72	4.37	58.41	29.06	404.14	14.63	1411.82	4.49	647.85	29.48	2653.64	14.47
58123	24.86	8.10	-1.25	618.16	4.24	76.18	51.09	457.60	32.61	1618.15	23.29	784.38	50.81	2530.27	38.95
58124	24.66	8.70	-1.25	571.76	24.61	76.86	55.52	448.90	38.39	1606.69	28.09	836.28	58.32	2439.70	44.14
58125	23.34	8.10	-1.25	639.17	77.53	216.61	102.98	514.29	124.93	1852.06	134.22	1352.37	103.79	2284.54	207.29
58126	23.13	8.70	-1.25	653.02	30.83	295.59	101.13	524.46	123.02	1849.80	101.52	1325.24	99.04	2179.47	122.31
58127	17.58	8.10	1.75	848.34	76.00	366.88	107.93	281.54	131.57	3694.85	237.26	883.17	105.96	363.89	216.54
58128	18.70	8.10	1.75	919.02	53.39	370.72	96.10	314.11	86.73	3940.98	106.29	660.43	92.87	609.82	165.76
58129	19.81	8.10	1.75	925.54	57.94	360.10	73.96	352.80	86.71	3973.83	84.53	396.82	147.35	843.72	122.84
58130	20.92	8.10	1.75	936.03	58.20	348.47	74.48	407.78	85.07	3928.41	71.02	365.85	192.64	1108.92	93.68
58131	22.03	8.10	1.75	960.25	51.84	322.81	76.75	459.86	77.82	3821.80	56.26	437.36	224.63	1421.19	78.13
58132	17.29	8.70	1.75	1002.53	86.69	345.91	167.87	373.61	111.57	4141.74	235.79	879.16	489.55	394.85	128.66
58133	18.42	8.70	1.75	867.28	2.36	212.55	45.35	323.83	52.77	3719.88	14.46	438.39	45.15	545.08	83.07
58134	19.55	8.70	1.75	867.53	21.76	158.51	34.99	341.20	49.19	3738.82	35.20	140.33	51.12	719.24	57.02
58135	20.67	8.70	1.75	885.60	20.16	137.29	28.11	365.32	47.04	3762.79	24.58	259.77	78.28	907.63	46.47
58136	21.80	8.70	1.75	914.75	20.56	133.15	27.44	383.56	40.00	3748.40	23.16	418.64	84.16	1154.26	42.76
58137	17.96	8.10	0.25	648.43	61.68	371.17	35.58	250.22	90.66	2752.21	90.17	523.09	75.35	487.71	97.33
58138	18.99	8.10	0.25	672.64	19.09	352.73	3.54	273.05	52.75	2923.94	18.39	325.72	53.38	603.15	59.71
58139	20.01	8.10	0.25	671.46	13.29	335.81	16.59	317.60	83.33	2978.12	24.74	410.02	16.94	796.92	89.94
58140	21.04	8.10	0.25	689.37	11.47	314.09	17.48	379.97	95.68	3004.78	62.42	691.14	17.39	1097.86	105.00
58141	22.07	8.10	0.25	724.88	14.30	279.10	3.77	446.99	87.05	2955.96	68.13	858.90	4.06	1512.76	97.74
58142	17.67	8.70	0.25	732.96	59.21	457.81	89.45	408.80	82.96	2988.82	162.41	721.83	340.74	492.69	82.23
58143	18.71	8.70	0.25	660.43	28.74	379.59	19.51	368.78	45.38	2691.53	28.45	404.68	22.92	596.09	63.38
58144	19.76	8.70	0.25	676.59	16.01	345.61	13.41	394.79	74.77	2701.69	48.90	385.68	15.16	772.52	81.20
58145	20.80	8.70	0.25	702.03	19.01	296.82	16.48	418.59	93.87	2783.98	77.30	668.29	20.60	1012.74	107.46
58146	21.84	8.70	0.25	725.77	21.75	239.58	8.81	434.21	93.14	2864.58	71.67	892.88	25.74	1367.32	107.64
58147	18.33	8.10	-1.25	385.28	120.09	392.52	78.01	256.72	98.63	1734.46	139.29	403.96	122.45	581.68	106.32
58148	19.28	8.10	-1.25	399.95	50.52	384.70	36.98	307.48	60.39	1852.27	126.59	355.81	113.88	685.70	60.81
58149	20.22	8.10	-1.25	415.84	52.22	368.24	37.53	360.64	82.70	1877.78	222.76	705.42	58.44	823.90	83.92
58150	21.17	8.10	-1.25	456.05	55.71	355.11	38.42	417.45	123.68	1876.63	317.37	1235.49	62.06	1074.70	157.72
58151	22.12	8.10	-1.25	535.30	58.99	336.11	13.33	474.73	179.10	1859.45	332.78	1694.19	83.33	1549.96	285.46
58152	18.05	8.70	-1.25	413.53	136.31	564.94	66.22	348.80	139.42	1830.84	146.46	586.38	262.35	497.01	200.29
58153	19.01	8.70	-1.25	422.87	96.55	603.19	25.48	367.69	115.43	1662.03	201.40	598.71	64.17	560.59	152.07
58154	19.97	8.70	-1.25	466.46	94.43	600.27	31.18	423.51	123.87	1662.96	250.42	876.38	28.56	729.98	190.58
58155	20.93	8.70	-1.25	522.84	111.95	583.05	41.18	479.03	156.24	1728.16	375.75	1342.41	77.88	993.52	267.12
58156	21.88	8.70	-1.25	609.59	126.35	516.84	60.79	529.80	190.06	1810.66	323.92	1678.14	132.04	1462.95	283.86
58157	55.10	8.10	-2.70	492.97	142.74	195.35	153.90	413.37	51.83	1175.80	145.30	1310.19	178.03	2627.20	296.17
58158	55.32	8.70	-2.70	527.91	55.99	264.25	133.10	463.63	7.92	1047.41	77.54	1308.45	126.47	2443.17	103.53
58159	53.59	8.10	-2.70	385.51	9.41	81.46	61.25	381.85	15.36	819.93	25.33	1010.72	60.84	2755.24	78.01
58160	53.79	8.70	-2.70	333.39	39.20	99.39	76.68	425.59	10.69	777.47	45.88	1075.31	77.68	2637.15	19.14
58161	52.08	8.10	-2.70	323.03	7.82	23.69	36.00	357.48	14.51	580.99	8.41	761.07	37.93	2951.14	25.62
58162	52.25	8.70	-2.70	331.24	3.48	34.01	38.68	386.64	15.17	620.07	3.58	839.63	41.83	2846.48	15.47
58163	50.57	8.10	-2.70	290.55	0.76	29.29	18.90	326.91	10.79	408.67	1.08	551.62	19.39	3082.69	18.76
58164	50.72	8.70	-2.70	359.56	3.79	120.75	20.22	348.01	10.70	525.81	3.98	626.30	21.93	3035.60	23.58
58165	49.06	8.10	-2.70	275.93	1.79	43.99	8.75	291.40	9.07	309.72	3.42	377.77	8.93	3161.63	23.03
58166	49.19	8.70	-2.70	390.66	0.68	187.74	9.66	307.05	9.08	467.57	2.38	450.38	9.97	3169.09	22.35
58167	47.54	8.10	-2.70	277.47	2.71	50.54	2.91	251.55	8.37	276.46	3.86	245.33	6.71	3204.73	21.28
58168	47.66	8.70	-2.70	416.53	0.86	236.57	3.19	263.23	8.26	443.43	2.91	340.79	3.88	3248.50	22.03
58169	46.03	8.10	-2.70	290.79	2.73	51.48	0.77	208.52	8.26	282.81	3.42	152.47	7.50	3227.33	18.24
58170	46.12	8.70	-2.70	436.75	0.82	270.44	0.52	217.31	8.25	442.34	2.23	300.42	3.72	3289.90	18.60
58171	44.52	8.10	-2.70	309.50	2.48	49.55	1.63	163.50	8.42	303.32	2.73	93.60	7.09	3239.35	14.79
58172	44.59	8.70	-2.70	452.55	0.39	292.71	1.53	169.97	8.45	451.79	1.17	298.89	3.43	3308.96	15.11
58173	43.01	8.10	-2.70	327.85	2.17	46.71	1.70	117.35	8.60	324.58	2.23	61.50	5.84	3245.92	11.95
58174	43.06	8.70	-2.70	464.56	0.15	306.40	1.67	121.80	8.68	463.16	0.42	307.25	2.33	3316.98	12.16
58175	41.49	8.10	-2.70	341.89	1.95	44.26	1.22	70.61	8.74	340.73	1.95	47.60	4.54	3249.47	9.97
58176	41.52	8.70	-2.70	472.84	0.41	314.05	1.21	73.22	8.84	472.18	0.41	314.11	1.21	3320.12	10.12
58177	39.98	8.10	-2.70	349.40	1.83	42.89	0.55	23.64	8.81	349.28	1.83	43.16	3.72	3251.06	8.95
58178	39.99	8.70	-2.70	477.11	0.56	317.42	0.54	24.49	8.92	477.03	0.56	317.42	0.52	3321.20	9.06
58179	38.47	8.10	-2.70	349.41	1.83	42.89	0.55	23.54	8.81	349.28	1.83	43.16	3.72	3251.05	8.95
58180	38.46	8.70	-2.70	477.11	0.56	317.42	0.54	24.40	8.92	477.03	0.56	317.42	0.52	3321.20	9.06
58181	36.96	8.10	-2.70	341.91	1.95	44.26	1.22	70.52	8.74	340.73	1.95	47.60	4.54	3249.48	9.97
58182	36.93	8.70	-2.70	472.86	0.41	314.05	1.21	73.13	8.84	472.18	0.41	314.11	1.21	3320.13	10.11
58183	35.44	8.10	-2.70	327.88	2.17	46.71	1.70	117.25	8.60	324.58	2.23	61.52	5.84	3245.94	11.94
58184	35.39	8.70	-2.70	464.59	0.15	306.41	1.66	121.71	8.68	463.15	0.42	307.25	2.33	3317.00	12.15
58185	33.93	8.10	-2.70	309.56	2.48	49.54	1.63	163.40	8.42	303.31	2.7				

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
58213	46.03	8.10	-4.10	285.52	2.47	50.50	0.45	194.87	21.55	506.33	3.55	192.29	5.64	3239.29	26.56
58214	46.12	8.70	-4.10	422.56	0.92	249.97	0.62	203.63	22.01	557.23	3.32	273.69	9.86	3307.38	27.08
58215	44.52	8.10	-4.10	317.14	2.22	50.05	1.43	153.41	21.97	461.97	2.55	118.26	4.04	3236.97	24.33
58216	44.59	8.70	-4.10	448.28	0.63	272.59	1.35	159.38	22.46	545.72	1.75	275.82	7.98	3302.82	24.86
58217	43.01	8.10	-4.10	343.54	1.90	48.24	1.59	110.43	22.18	420.87	1.96	75.30	2.31	3235.26	23.16
58218	43.06	8.70	-4.10	467.54	0.42	286.48	1.55	114.35	22.68	523.53	0.79	286.63	5.85	3297.65	23.67
58219	41.49	8.10	-4.10	362.21	1.67	46.41	1.17	66.63	22.25	390.70	1.67	54.02	1.11	3234.47	22.57
58220	41.52	8.70	-4.10	480.58	0.46	294.21	1.14	68.86	22.76	502.24	0.50	294.22	4.13	3294.40	23.08
58221	39.98	8.10	-4.10	371.82	1.55	45.33	0.52	22.58	22.27	375.00	1.55	46.05	0.77	3234.22	22.31
58222	39.99	8.70	-4.10	487.19	0.54	297.61	0.52	23.24	22.78	489.68	0.55	297.62	3.15	3232.02	22.81
58223	38.47	8.10	-4.10	371.82	1.55	45.33	0.52	22.50	22.27	375.05	1.55	46.05	0.77	3234.22	22.31
58224	38.46	8.70	-4.10	487.20	0.54	297.61	0.52	23.15	22.78	489.72	0.55	297.62	3.15	3233.03	22.81
58225	36.96	8.10	-4.10	362.23	1.67	46.41	1.17	66.55	22.25	390.83	1.67	54.01	1.11	3234.48	22.56
58226	36.93	8.70	-4.10	480.60	0.46	294.22	1.14	68.77	22.76	502.35	0.50	294.22	4.13	3294.42	23.07
58227	35.44	8.10	-4.10	343.59	1.90	48.24	1.59	110.35	22.18	421.06	1.96	75.29	2.31	3235.28	23.16
58228	35.39	8.70	-4.10	467.58	0.42	286.49	1.55	114.27	22.68	523.70	0.79	286.63	5.85	3297.67	23.67
58229	33.93	8.10	-4.10	317.20	2.22	50.05	1.43	153.33	21.97	462.21	2.55	118.25	4.04	3236.99	24.33
58230	33.86	8.70	-4.10	448.33	0.63	272.60	1.35	159.29	22.46	545.93	1.75	275.84	7.98	3302.86	24.85
58231	32.42	8.10	-4.10	285.61	2.47	50.51	0.45	194.79	21.54	506.60	3.55	192.30	5.64	3239.32	26.54
58232	32.33	8.70	-4.10	422.63	0.92	249.98	0.62	203.55	22.00	557.47	3.32	273.72	9.86	3307.44	27.07
58233	30.91	8.10	-4.10	252.93	2.40	47.64	3.43	233.67	20.76	539.95	4.76	307.18	6.49	3239.97	29.97
58234	30.79	8.70	-4.10	389.38	0.81	215.65	3.91	246.62	21.15	544.20	5.10	319.65	10.51	3302.57	30.81
58235	29.39	8.10	-4.10	224.89	1.46	39.13	9.83	268.48	19.32	539.44	5.24	470.63	9.86	3231.64	33.82
58236	29.26	8.70	-4.10	346.26	0.23	166.61	10.92	288.03	19.66	493.19	5.90	462.42	11.78	3269.81	33.55
58237	27.88	8.10	-4.10	207.84	1.32	24.78	20.73	297.73	16.72	477.27	2.56	682.33	23.05	3199.55	30.72
58238	27.73	8.70	-4.10	291.24	4.31	100.96	22.27	326.88	16.79	398.57	5.02	702.54	23.27	3181.65	36.04
58239	26.37	8.10	-4.10	209.94	7.46	27.75	38.43	320.64	10.57	336.57	7.44	926.22	45.74	3119.37	32.46
58240	26.20	8.70	-4.10	228.15	7.61	22.28	42.21	363.12	10.94	262.34	7.61	993.55	48.33	3030.17	11.61
58241	24.86	8.10	-4.10	251.07	18.18	68.23	59.42	338.24	19.81	176.63	23.84	1150.44	69.69	3002.50	67.97
58242	24.66	8.70	-4.10	204.49	39.99	83.26	69.92	400.27	14.31	111.27	47.72	1233.92	81.67	2868.62	53.93
58243	23.35	8.10	-4.10	339.72	93.48	120.81	98.33	378.33	68.87	370.67	88.23	1168.39	147.27	2963.72	386.46
58244	23.13	8.70	-4.10	345.73	48.48	165.37	67.10	420.91	18.48	215.63	18.83	1269.37	71.95	2730.56	113.05
58245	55.10	8.10	-5.50	459.47	70.30	79.22	63.09	378.61	68.30	991.86	100.98	1240.62	79.94	3034.41	349.02
58246	55.32	8.70	-5.50	503.18	49.73	92.51	60.78	405.28	12.88	1385.91	116.58	1318.30	197.15	2776.69	122.92
58247	53.59	8.10	-5.50	454.73	16.31	45.69	44.41	331.36	16.36	1176.44	41.40	1287.60	78.09	3162.37	22.66
58248	53.79	8.70	-5.50	432.11	30.61	52.56	46.51	383.13	12.59	1144.69	67.45	1322.36	63.75	3014.59	78.84
58249	52.08	8.10	-5.50	456.87	8.98	41.79	33.90	311.51	11.73	1325.54	9.37	1077.48	35.76	3232.26	61.69
58250	52.25	8.70	-5.50	447.13	8.44	19.99	34.70	340.71	9.67	1145.15	9.35	1062.76	53.01	3184.51	32.66
58251	50.57	8.10	-5.50	477.30	3.48	57.26	20.17	288.92	24.82	1385.69	8.86	790.86	24.16	3245.86	51.47
58252	50.72	8.70	-5.50	491.07	4.08	70.99	19.29	302.06	21.78	1184.21	6.63	693.80	19.40	3273.25	53.01
58253	49.06	8.10	-5.50	505.55	1.31	71.82	10.09	259.53	33.00	1335.38	7.66	535.63	28.44	3219.79	47.91
58254	49.19	8.70	-5.50	541.88	0.42	120.61	8.97	264.08	29.81	1195.77	7.66	401.46	14.08	3281.98	44.65
58255	47.54	8.10	-5.50	538.00	0.83	81.48	4.18	224.84	38.12	1218.76	5.04	346.21	27.52	3187.06	43.74
58256	47.66	8.70	-5.50	587.93	1.35	159.23	2.76	225.61	34.71	1151.88	5.33	241.90	13.11	3249.58	40.89
58257	46.03	8.10	-5.50	571.13	0.89	86.92	1.24	186.70	41.33	1076.29	2.76	221.42	23.89	3160.57	43.28
58258	46.12	8.70	-5.50	626.80	1.55	186.53	0.58	186.51	37.74	1064.83	3.08	198.93	9.78	3212.92	39.83
58259	44.52	8.10	-5.50	601.36	1.15	89.69	0.77	146.60	43.13	933.73	1.66	148.52	20.05	3142.95	43.82
58260	44.59	8.70	-5.50	658.31	1.31	204.48	1.48	146.55	39.45	956.78	1.68	204.94	6.24	3185.89	40.18
58261	43.01	8.10	-5.50	625.94	1.41	91.00	0.88	105.40	44.03	807.85	1.48	112.12	17.08	3132.84	44.28
58262	43.06	8.70	-5.50	682.34	1.01	215.45	1.51	105.65	40.29	849.70	1.04	215.56	3.49	3170.17	40.54
58263	41.49	8.10	-5.50	643.10	1.60	91.57	0.69	63.66	44.41	712.24	1.61	97.14	15.19	3127.84	44.48
58264	41.52	8.70	-5.50	698.63	0.79	221.54	1.05	63.95	40.63	763.16	0.78	221.76	1.66	3162.64	40.71
58265	39.98	8.10	-5.50	651.88	1.70	91.78	0.40	22.08	44.53	659.79	1.70	92.30	14.28	3125.89	44.53
58266	39.99	8.70	-5.50	706.87	0.67	224.21	0.44	22.02	40.74	714.30	0.67	224.25	0.56	3159.88	40.75
58267	38.47	8.10	-5.50	651.89	1.70	91.78	0.40	22.01	44.53	659.85	1.70	92.29	14.28	3125.90	44.53
58268	38.46	8.70	-5.50	706.88	0.67	224.21	0.44	21.94	40.74	714.36	0.67	224.25	0.56	3159.89	40.75
58269	36.96	8.10	-5.50	643.12	1.60	91.57	0.69	63.59	44.40	712.39	1.61	97.12	15.19	3127.85	44.48
58270	36.93	8.70	-5.50	698.65	0.79	221.54	1.06	63.87	40.63	763.33	0.78	221.76	1.66	3162.66	40.71
58271	35.44	8.10	-5.50	625.98	1.41	91.00	0.88	105.33	44.03	808.08	1.48	112.08	17.08	3132.87	44.27
58272	35.39	8.70	-5.50	682.38	1.01	215.46	1.51	105.57	40.29	849.94	1.04	215.56	3.49	3170.19	40.54
58273	33.93	8.10	-5.50	601.41	1.15	89.69	0.77	146.53	43.13	934.01	1.65	148.48	20.05	3142.98	43.81
58274	33.86	8.70	-5.50	658.37	1.31	204.49	1.48	146.47	39.45	957.08	1.68	204.96	6.24	3185.93	40.17
58275	32.42	8.10	-5.50	571.20	0.89	86.91	1.24	186.63	41.32	1076.60	2.75	221.39	23.90	3160.61	43.28
58276	32.33	8.70	-5.50	626.88	1.55	186.55	0.58	186.43	37.74	1065.16	3.08	198.97	9.78	3212.97	39.82
58277	30.91	8.10	-5.50	538.09	0.83	81.48	4.17	224.77	38.12	1219.07	5.04	346.19	27.52	3187.11	43.73
58278	30.79	8.70	-5.50	588.02	1.35	159.26	2.76	225.53	34.71	1152.23	5.33	241.98	13.11	3249.65	40.88
58279	29.39	8.10	-5.50	505.65	1.31	71.83	10.08	259.46	32.99	1335.70	7.66	535.65	28.44	3219.87	47.90
58280	29.26	8.70	-5.50	541.99	0.42	120.65	8.96	264.00	29.81	1196.12	7.66	401.57	14.08	3282.08	44.64
58281	27.88	8.10	-5.50	477.40	3.48	57.27	20.17	288.85	24.81	1385.99	8.85	790.93	24.16	3245.94	51.46
58282	27.73	8.70	-5.50	491.18	4.08	71.06	19.28	301.97	21.78	1184.54	6.63	693.95	19.40	3273.38	53.00
58283	26.37	8.10	-5.50	456.96	8.98	41.79	33.90	311.44	11.72	1325.79	9.37	1077.63	35.75	3232.36	61.68
58284	26.20	8.70	-5.50	447.24	8.44	20.11	34.70	340.63	9.66						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
58311	38.47	8.10	-6.90	998.59	18.00	185.08	0.96	21.99	55.89	1010.33	18.00	185.35	60.72	2899.52	55.89
58312	38.46	8.10	-6.90	1015.79	1.41	98.21	0.34	21.59	70.84	1027.53	1.41	98.40	1.08	2953.18	70.84
58313	36.96	8.70	-6.90	989.68	18.01	184.13	2.82	61.76	55.75	1091.74	18.01	186.98	60.24	2902.55	55.75
58314	36.93	8.70	-6.90	1006.36	1.48	96.84	0.94	60.85	70.66	1108.02	1.48	98.31	0.96	2955.84	70.66
58315	35.44	8.10	-6.90	972.12	17.98	181.90	4.66	102.30	55.29	1240.16	17.99	192.73	59.13	2910.39	55.32
58316	35.39	8.70	-6.90	987.67	1.62	93.77	1.51	99.66	70.06	1252.33	1.64	96.50	2.10	2964.05	70.13
58317	33.93	8.10	-6.90	946.62	17.81	177.69	6.33	142.85	54.12	1437.49	17.81	210.52	57.07	2926.72	54.21
58318	33.86	8.70	-6.90	960.09	1.78	88.30	1.89	136.95	68.57	1437.85	2.00	89.94	5.05	2983.79	68.75
58319	32.42	8.10	-6.90	914.56	17.28	170.48	7.53	183.19	51.65	1668.44	17.30	258.86	53.72	2956.83	52.04
58320	32.33	8.70	-6.90	924.23	1.88	79.43	1.71	172.61	65.44	1642.16	3.12	80.34	10.02	3023.58	66.09
58321	30.91	8.10	-6.90	878.34	16.03	158.90	7.66	222.89	47.10	1918.84	16.22	367.40	49.26	3006.48	49.08
58322	30.79	8.70	-6.90	881.13	1.62	65.98	0.71	207.26	59.73	1841.57	5.92	112.12	16.92	3091.70	62.80
58323	29.39	8.10	-6.90	841.69	13.47	141.19	6.15	260.79	39.70	2168.24	13.87	565.68	45.37	3077.91	49.68
58324	29.26	8.70	-6.90	832.85	0.80	47.32	3.87	242.27	50.44	2008.18	10.74	259.61	23.18	3187.86	64.14
58325	27.88	8.10	-6.90	809.15	8.88	115.55	4.16	294.21	28.80	2379.23	9.28	871.94	52.44	3165.82	61.30
58326	27.73	8.70	-6.90	784.48	3.31	25.88	10.64	279.37	37.30	2116.68	15.88	558.46	22.36	3284.19	87.84
58327	26.37	8.10	-6.90	782.84	3.15	81.04	10.47	319.49	16.39	2474.11	12.61	1257.34	73.97	3226.04	90.83
58328	26.20	8.70	-6.90	749.97	5.88	17.13	21.33	322.10	22.36	2174.90	14.64	1008.85	35.94	3293.60	106.34
58329	24.86	8.10	-6.90	767.37	16.43	47.53	18.41	335.71	12.69	2436.80	94.95	1552.42	164.76	3160.29	20.32
58330	24.66	8.70	-6.90	743.31	26.09	30.58	27.93	372.56	5.12	2277.04	74.51	1412.91	50.72	3083.74	164.09
58331	23.35	8.10	-6.90	722.94	61.95	51.57	47.17	378.50	71.68	2284.12	117.47	1501.50	96.46	2908.12	286.57
58332	23.13	8.70	-6.90	830.10	64.83	47.55	92.80	397.89	25.73	2803.96	212.77	1546.18	392.79	2686.31	110.22
58333	55.10	8.10	-8.30	1021.40	87.45	54.89	95.39	410.86	58.02	3646.71	378.00	2149.55	100.15	2578.61	397.97
58334	55.32	8.70	-8.30	1190.62	96.38	30.66	164.19	367.13	32.16	4454.32	356.90	1853.08	624.94	2512.54	116.51
58335	53.59	8.10	-8.30	1087.93	36.38	113.05	104.73	396.99	31.69	3900.85	174.17	2160.77	233.58	3244.55	340.71
58336	53.79	8.70	-8.30	1045.85	29.45	28.49	32.75	340.16	9.28	3606.17	37.04	1344.83	67.74	2973.43	182.00
58337	52.08	8.10	-8.30	1112.34	43.67	156.44	81.01	375.42	46.01	3767.27	162.88	1484.53	471.73	3305.18	238.60
58338	52.25	8.70	-8.30	1062.82	16.07	44.83	35.05	287.06	19.69	3386.79	74.27	724.19	139.27	3040.09	85.67
58339	50.57	8.10	-8.30	1151.16	54.75	203.63	68.66	339.32	63.70	3407.56	100.71	911.72	489.79	3163.20	122.12
58340	50.72	8.70	-8.30	1104.34	17.88	62.70	23.10	245.59	30.12	3124.37	38.53	294.94	184.12	2861.30	43.94
58341	49.06	8.10	-8.30	1196.71	65.72	245.33	56.37	294.99	81.50	3004.84	77.49	564.88	470.64	3023.36	92.21
58342	49.19	8.70	-8.30	1159.16	19.63	76.06	17.78	212.17	41.26	2839.19	26.85	111.97	170.22	2696.77	41.26
58343	47.54	8.10	-8.30	1244.15	74.45	276.22	46.11	248.80	94.26	2618.25	77.38	395.32	440.88	2913.75	95.56
58344	47.66	8.70	-8.30	1213.60	21.68	83.69	13.69	182.82	49.19	2530.47	23.35	84.11	153.58	2582.86	49.64
58345	46.03	8.10	-8.30	1287.93	80.27	296.81	36.97	202.77	102.09	2266.15	81.11	336.98	417.71	2842.01	102.27
58346	46.12	8.70	-8.30	1262.25	23.17	87.37	10.78	154.03	53.75	2221.50	23.58	95.52	140.10	2517.95	54.21
58347	44.52	8.10	-8.30	1324.90	83.67	309.33	28.53	157.34	106.24	1956.11	84.00	322.97	402.39	2800.14	106.29
58348	44.59	8.70	-8.30	1302.60	24.10	88.63	8.37	123.57	55.99	1931.49	24.23	97.84	131.48	2486.23	56.22
58349	43.01	8.10	-8.30	1353.42	85.41	316.24	20.38	112.42	108.14	1696.55	85.56	320.91	393.25	2777.82	108.16
58350	43.06	8.70	-8.30	1333.46	24.60	88.67	6.07	90.73	56.89	1679.04	24.65	94.68	126.52	2473.32	56.97
58351	41.49	8.10	-8.30	1372.70	86.18	319.63	12.35	67.94	108.85	1503.00	86.23	320.97	388.30	2767.03	108.86
58352	41.52	8.70	-8.30	1354.27	24.82	88.30	3.74	55.84	57.14	1486.42	24.83	90.72	123.93	2469.32	57.16
58353	39.98	8.10	-8.30	1382.40	86.45	320.97	4.57	24.81	109.04	1397.32	86.45	321.10	386.14	2762.79	109.04
58354	39.99	8.70	-8.30	1364.72	24.89	87.99	1.42	20.42	57.17	1379.91	24.90	88.28	122.83	2468.56	57.17
58355	38.47	8.10	-8.30	1382.41	86.45	320.96	4.56	24.76	109.04	1397.39	86.45	321.09	386.15	2762.79	109.04
58356	38.46	8.70	-8.30	1364.73	24.89	87.99	1.42	20.38	57.17	1379.99	24.90	88.27	122.83	2468.57	57.17
58357	36.96	8.10	-8.30	1372.72	86.18	319.62	12.34	67.89	108.84	1503.18	86.23	320.95	388.30	2767.04	108.86
58358	36.93	8.70	-8.30	1354.29	24.82	88.29	3.74	55.79	57.14	1486.63	24.83	90.69	123.93	2469.33	57.16
58359	35.44	8.10	-8.30	1353.46	85.40	316.22	20.37	112.37	108.14	1696.81	85.55	320.87	393.25	2777.84	108.16
58360	35.39	8.70	-8.30	1333.51	24.60	88.66	6.07	90.69	56.89	1679.35	24.64	94.63	126.53	2473.34	56.97
58361	33.93	8.10	-8.30	1324.96	83.66	309.31	28.52	157.29	106.24	1956.44	84.00	322.91	402.39	2800.16	106.29
58362	33.86	8.70	-8.30	1302.66	24.10	88.62	8.36	123.53	55.99	1931.87	24.23	97.78	131.48	2486.26	56.22
58363	32.42	8.10	-8.30	1288.01	80.26	296.78	36.96	202.72	102.08	2266.52	81.10	336.89	417.72	2842.05	102.27
58364	32.33	8.70	-8.30	1262.33	23.17	87.35	10.78	153.99	53.75	2221.93	23.57	95.46	140.10	2517.99	54.22
58365	30.91	8.10	-8.30	1244.24	74.44	276.19	46.10	248.75	94.26	2618.66	77.37	395.21	440.89	2913.81	95.55
58366	30.79	8.70	-8.30	1213.71	21.68	83.67	13.69	182.77	49.19	2530.94	23.35	84.07	153.58	2582.92	49.64
58367	29.39	8.10	-8.30	1196.82	65.71	245.30	56.36	294.94	81.50	3005.27	77.47	564.77	470.66	3023.46	92.20
58368	29.26	8.70	-8.30	1159.28	19.62	76.04	17.77	212.13	41.26	2839.69	26.84	112.03	170.23	2696.86	41.26
58369	27.88	8.10	-8.30	1151.29	54.74	203.60	68.64	339.28	63.69	3408.01	100.68	911.66	489.81	3163.33	122.09
58370	27.73	8.70	-8.30	1104.48	17.88	62.67	23.09	245.55	30.12	3124.89	38.52	295.07	184.13	2861.42	43.94
58371	26.37	8.10	-8.30	1112.49	43.65	156.43	81.00	375.38	46.00	3767.73	162.84	1484.54	471.76	3305.38	238.57
58372	26.20	8.70	-8.30	1062.97	16.06	44.84	35.05	287.01	19.68	3387.33	74.26	724.38	139.28	3040.27	85.65
58373	24.86	8.10	-8.30	1088.07	36.36	113.07	104.73	396.95	31.67	3901.29	174.13	2160.92	233.61	3244.82	340.68
58374	24.66	8.70	-8.30	1045.98	29.45	28.60	32.75	340.11	9.26	3606.66	37.04	1345.13	67.75	2973.66	181.98
58375	23.35	8.10	-8.30	1021.53	87.44	54.89	95.40	410.81	57.94	3647.08	377.95	2149.89	100.14	2578.86	397.83
58376	23.13	8.70	-8.30	1190.75	96.38	30.59	164.19	367.06	32.08	4454.64	356.85	1853.53	624.89	2512.91	116.62
58377	16.72	-8.70	4.00	1392.23	83.56	183.88	162.41	146.87	44.65	7334.68	365.21	863.80	462.76	860.14	147.00
58378	17.97	-8.70	4.00	1136.66	27.27	29.26	59.05	50.99	20.03	5986.00	45.60	59.74	61.87	229.11	32.97
58379	19.23	-8.70	4.00	1089.32	20.54	29.38	58.30	52.77	30.40	5688.54	20.46	35.21	61.75	130.73	32.40
58380	20.48	-8.70	4.00	1112.09	21.83	33.13	52.16	64.74	34.82</						

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
58409	20.46	-5.07	4.00	1229.49	71.49	10.36	348.93	20.00	41.40	5846.87	446.53	31.11	353.34	98.11	41.07
58410	21.62	-5.06	4.00	1280.78	61.32	7.89	351.33	16.44	41.27	5648.33	333.30	15.11	363.69	59.27	43.00
58411	22.78	-5.05	4.00	1339.44	55.02	7.47	347.05	17.68	37.47	5473.67	256.44	11.45	368.48	39.37	45.71
58412	18.43	-3.96	4.00	1226.10	176.50	203.39	315.45	167.24	38.92	7043.90	938.17	1116.96	318.79	1217.04	78.34
58413	19.59	-3.96	4.00	1192.47	111.15	28.23	364.24	32.91	30.96	6158.47	541.07	28.89	364.12	182.15	47.70
58414	20.74	-3.96	4.00	1240.82	89.00	27.96	371.45	30.09	25.21	5862.96	417.71	27.67	372.30	127.62	52.80
58415	21.89	-3.95	4.00	1298.91	77.87	26.57	365.87	31.46	22.80	5668.20	341.66	28.32	368.23	96.70	24.53
58416	23.05	-3.95	4.00	1360.88	67.54	24.94	356.16	34.33	20.98	5493.24	294.50	32.68	359.12	95.93	23.29
58417	17.63	-7.27	3.00	1018.55	112.88	217.65	289.42	130.28	137.56	4374.42	403.19	772.76	292.45	100.83	327.82
58418	18.79	-7.26	3.00	1093.37	121.38	104.03	323.72	73.15	91.28	4832.25	329.52	256.02	359.74	285.47	301.87
58419	19.94	-7.26	3.00	1107.23	110.13	101.28	326.38	89.54	85.40	4826.17	220.33	129.38	513.04	224.15	192.39
58420	21.10	-7.26	3.00	1124.61	105.44	105.48	329.35	101.97	84.18	4730.72	173.08	113.24	645.54	252.07	120.11
58421	22.25	-7.25	3.00	1154.44	94.19	100.25	333.23	113.20	79.98	4590.64	147.58	100.00	750.27	306.75	90.56
58422	18.04	-6.19	3.00	1105.40	105.92	210.85	334.58	130.65	123.37	4340.21	309.11	711.27	359.82	197.28	197.56
58423	19.16	-6.18	3.00	1126.77	73.21	17.10	324.96	21.15	29.12	4696.74	209.22	10.04	336.14	210.09	130.21
58424	20.29	-6.17	3.00	1136.11	61.02	14.54	325.65	13.10	32.28	4724.14	158.70	55.14	393.24	91.28	90.18
58425	21.41	-6.16	3.00	1154.85	53.92	10.13	323.65	13.42	32.15	4650.10	143.21	13.94	441.97	44.88	59.55
58426	22.53	-6.15	3.00	1181.49	47.25	10.67	318.03	14.03	29.73	4506.53	135.21	13.41	471.75	26.82	47.06
58427	18.38	-5.08	3.00	1133.22	132.97	232.74	380.53	141.53	133.33	4326.46	328.44	770.07	426.90	196.04	170.15
58428	19.49	-5.08	3.00	1150.36	87.91	16.46	354.37	20.84	26.30	4709.96	194.67	8.16	352.57	236.85	73.98
58429	20.59	-5.07	3.00	1156.78	71.32	12.75	355.99	11.32	31.50	4729.93	151.74	51.23	360.75	98.83	39.56
58430	21.70	-5.06	3.00	1178.17	60.03	9.31	352.63	12.31	29.06	4650.56	134.28	9.81	364.86	41.49	30.84
58431	22.81	-5.05	3.00	1205.38	54.65	9.90	344.48	13.00	25.72	4500.73	117.48	10.07	361.70	21.80	30.85
58432	18.66	-3.96	3.00	1073.77	173.09	239.66	399.52	120.85	161.59	4345.02	432.66	927.52	539.31	177.77	160.16
58433	19.77	-3.96	3.00	1137.53	158.36	104.90	400.09	48.81	84.69	4810.46	305.96	203.66	460.06	425.69	119.62
58434	20.87	-3.96	3.00	1162.79	120.10	101.05	403.07	69.37	76.63	4803.68	214.72	99.43	448.53	273.51	93.56
58435	21.97	-3.95	3.00	1192.09	98.68	100.05	397.20	78.79	68.14	4704.11	146.41	101.14	445.92	245.26	65.71
58436	23.07	-3.95	3.00	1223.84	88.76	96.28	391.05	85.42	62.93	4545.85	99.79	117.95	453.58	267.13	74.91
58437	18.61	-3.10	4.00	1248.95	200.06	207.21	356.88	178.46	22.48	7174.01	907.91	1209.88	367.36	1327.21	91.79
58438	19.76	-3.10	4.00	1189.44	127.51	28.21	393.24	27.40	23.94	6170.49	455.79	56.34	397.64	226.60	24.49
58439	20.91	-3.10	4.00	1245.69	94.29	28.80	389.92	39.78	50.62	5879.60	362.86	55.28	394.86	141.60	56.48
58440	22.07	-3.10	4.00	1309.75	72.95	25.18	376.42	43.10	54.96	5691.31	321.24	23.69	383.56	125.50	56.42
58441	23.22	-3.10	4.00	1373.58	57.13	23.64	362.85	46.67	53.04	5513.27	301.72	33.17	371.83	141.32	53.12
58442	18.70	-2.50	4.00	1259.10	207.42	211.88	371.82	184.35	15.51	7218.49	928.43	1239.92	395.24	1358.29	134.46
58443	19.85	-2.50	4.00	1195.02	133.89	30.79	406.37	26.17	22.74	6186.89	454.59	71.06	421.13	229.08	65.83
58444	20.99	-2.50	4.00	1254.26	98.37	32.35	402.35	41.70	48.92	5892.23	362.46	69.88	415.59	141.20	56.75
58445	22.14	-2.50	4.00	1319.02	76.41	28.58	388.54	44.47	52.78	5699.34	320.52	28.90	407.31	127.45	53.17
58446	23.29	-2.50	4.00	1382.05	62.97	26.80	375.19	48.06	50.61	5515.50	300.18	30.20	402.00	144.26	50.61
58447	18.84	-3.10	3.00	974.43	144.69	256.05	332.68	96.62	86.44	4306.00	408.56	1180.58	394.30	522.42	85.95
58448	19.94	-3.10	3.00	1127.94	99.23	156.26	327.31	96.12	45.51	4933.36	292.47	517.43	335.45	634.00	79.61
58449	21.04	-3.10	3.00	1167.05	57.82	123.81	308.34	130.52	85.32	4883.62	183.01	175.81	312.98	506.32	103.57
58450	22.14	-3.10	3.00	1201.12	38.76	119.78	297.71	148.13	95.59	4773.58	115.89	114.88	302.81	524.35	99.60
58451	23.24	-3.10	3.00	1236.97	28.03	114.03	288.82	162.03	94.99	4616.66	59.28	160.93	296.64	603.85	95.25
58452	18.93	-2.50	3.00	974.62	147.50	269.77	348.73	96.18	89.16	4306.23	440.58	1250.33	360.34	545.71	183.89
58453	20.02	-2.50	3.00	1145.42	95.19	174.37	347.08	110.29	44.30	4975.69	323.97	606.92	383.06	642.09	131.50
58454	21.12	-2.50	3.00	1183.88	58.04	141.25	325.87	143.88	81.48	4922.61	194.64	244.41	390.64	526.64	92.72
58455	22.22	-2.50	3.00	1214.39	40.28	136.33	316.43	161.12	91.21	4800.49	121.51	142.00	401.39	557.17	90.74
58456	23.32	-2.50	3.00	1248.07	27.30	128.35	307.91	175.52	90.77	4634.35	61.00	141.59	413.71	643.07	94.08
58457	18.79	-1.65	4.00	1266.59	202.80	218.29	371.28	185.89	24.56	7225.07	1048.03	1208.36	408.18	1316.48	169.06
58458	19.92	-1.65	4.00	1220.09	131.65	30.85	413.32	31.94	29.85	6236.33	590.22	32.31	435.69	195.50	140.66
58459	21.06	-1.65	4.00	1274.01	102.44	29.61	416.93	34.61	21.18	5909.09	462.72	37.76	435.10	133.71	95.94
58460	22.19	-1.65	4.00	1333.95	86.67	28.59	409.66	35.00	20.03	5693.72	378.97	28.64	434.97	104.70	46.04
58461	23.33	-1.65	4.00	1393.70	75.76	26.68	400.32	37.77	18.99	5500.50	324.67	27.85	438.73	104.55	20.04
58462	18.85	-0.55	4.00	1278.31	199.99	221.15	379.35	183.09	31.77	7222.65	1181.81	1155.50	388.65	1236.53	81.94
58463	19.97	-0.55	4.00	1247.17	124.96	15.72	426.99	34.37	49.23	6284.04	758.38	63.43	432.91	151.78	86.25
58464	21.09	-0.55	4.00	1295.28	96.77	9.40	434.63	23.60	38.50	5926.69	592.21	29.05	439.79	115.64	63.88
58465	22.21	-0.55	4.00	1348.20	80.09	7.62	433.61	19.09	39.66	5682.81	456.46	12.50	440.41	68.31	46.76
58466	23.34	-0.55	4.00	1403.73	68.64	7.17	428.42	20.12	36.79	5480.02	358.92	8.83	438.70	44.65	37.25
58467	18.85	0.55	4.00	1278.31	199.99	221.15	379.34	183.09	31.76	7222.65	1181.81	1155.49	388.61	1236.51	81.88
58468	19.97	0.55	4.00	1247.17	124.96	15.72	426.99	34.37	49.23	6284.04	758.39	63.43	432.88	151.78	86.23
58469	21.09	0.55	4.00	1295.28	96.77	9.40	434.63	23.60	38.50	5926.69	592.23	29.05	439.77	115.63	63.86
58470	22.21	0.55	4.00	1348.19	80.09	7.62	433.61	19.09	39.66	5682.81	456.47	12.50	440.39	68.30	46.74
58471	23.34	0.55	4.00	1403.73	68.64	7.17	428.42	20.12	36.79	5480.03	358.94	8.84	438.68	44.65	37.24
58472	18.79	1.65	4.00	1266.60	202.81	218.29	371.27	185.88	24.53	7225.01	1048.04	1208.33	408.10	1316.44	169.01
58473	19.92	1.65	4.00	1220.09	131.65	30.85	413.31	31.93	29.85	6236.33	590.27	32.30	435.65	195.48	140.65
58474	21.06	1.65	4.00	1274.01	102.44	29.61	416.93	34.61	21.18	5909.09	462.78	37.75	435.06	133.69	95.94
58475	22.19	1.65	4.00	1333.95	86.67	28.59	409.65	35.00	20.03	5693.72	379.04	28.64	434.92	104.69	46.03
58476	23.33	1.65	4.00	1393.70	75.77	26.68	400.32	37.77	18.98	5500.52	324.74	27.86	438.69	104.55	20.04
58477	19.01	-1.65	3.00	1090.71	179.05	262.85	468.41	113.01	170.82	4335.14	544.96	1032.98	523.42	222.20	291.92
58478	20.10														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
58507	18.84	3.10	3.00	974.43	144.68	256.04	332.66	96.58	86.42	4305.98	408.60	1180.55	394.30	522.38	85.93
58508	18.93	2.50	3.00	974.62	147.50	269.76	348.71	96.12	89.15	4306.19	440.60	1250.25	360.32	545.65	183.87
58509	19.94	3.10	3.00	1127.93	99.22	156.23	327.30	96.10	45.50	4933.34	292.50	517.44	335.45	633.96	79.57
58510	20.02	2.50	3.00	1145.42	95.20	174.36	347.07	110.25	44.29	4975.65	323.97	606.83	383.03	642.03	131.53
58511	21.04	3.10	3.00	1167.05	57.80	123.79	308.33	130.52	85.31	4883.61	183.03	175.82	312.98	506.29	103.52
58512	21.12	2.50	3.00	1183.88	58.04	141.24	325.86	143.87	81.47	4922.57	194.63	244.33	390.61	526.59	92.74
58513	22.14	3.10	3.00	1201.11	38.74	119.76	297.71	148.13	95.58	4773.57	115.91	114.83	302.81	524.32	99.57
58514	22.22	2.50	3.00	1214.38	40.30	136.32	316.43	161.12	91.20	4800.45	121.49	141.97	401.36	557.14	90.72
58515	23.24	3.10	3.00	1236.97	28.01	114.01	288.81	162.03	94.98	4616.65	59.29	160.84	296.64	603.83	95.23
58516	23.32	2.50	3.00	1248.07	27.32	128.34	307.91	175.52	90.76	4634.32	60.98	141.64	413.67	643.05	94.04
58517	18.43	3.96	4.00	1226.12	176.53	203.38	315.46	167.23	38.93	7043.79	938.15	1116.92	318.79	1217.00	78.30
58518	19.59	3.96	4.00	1192.48	111.16	28.23	364.23	32.90	30.94	6158.41	541.05	28.88	364.11	182.14	47.69
58519	20.74	3.96	4.00	1240.81	89.00	27.95	371.45	30.08	25.20	5862.92	417.68	27.67	372.30	127.61	52.79
58520	21.89	3.95	4.00	1298.91	77.86	26.57	365.86	31.46	22.80	5668.18	341.62	28.30	368.22	96.70	24.53
58521	23.05	3.95	4.00	1360.87	67.52	24.93	356.15	34.33	20.98	5493.23	294.46	32.66	359.10	95.93	23.28
58522	18.15	5.08	4.00	1196.85	151.10	194.91	274.09	153.88	52.48	6852.68	948.64	1006.53	287.39	1071.02	157.53
58523	19.31	5.08	4.00	1184.56	91.77	14.99	333.71	32.85	48.98	6116.34	597.24	51.84	335.79	121.79	60.15
58524	20.46	5.07	4.00	1229.49	71.51	10.36	348.93	19.99	41.38	5846.83	446.52	31.10	353.33	98.09	41.04
58525	21.62	5.06	4.00	1280.77	61.33	7.89	351.33	16.44	41.25	5648.31	333.28	15.10	363.66	59.26	42.97
58526	22.78	5.05	4.00	1339.43	55.02	7.46	347.04	17.68	37.46	5473.66	256.43	11.44	368.44	39.36	45.67
58527	17.80	6.19	4.00	1162.09	130.08	184.49	235.45	147.11	61.65	6663.56	860.26	937.84	276.78	996.60	258.51
58528	18.98	6.18	4.00	1154.44	75.91	15.89	295.75	31.91	47.83	6043.74	511.20	34.51	311.09	100.37	151.19
58529	20.15	6.17	4.00	1198.82	60.66	7.58	310.95	21.96	42.05	5830.94	359.33	22.39	336.54	86.17	97.01
58530	21.33	6.16	4.00	1248.71	54.19	7.74	314.20	18.35	44.44	5653.70	253.75	10.56	371.73	61.56	69.75
58531	22.51	6.15	4.00	1307.33	50.92	7.52	312.05	20.38	41.68	5485.91	185.59	7.70	412.58	47.71	53.60
58532	17.39	7.27	4.00	1145.89	109.72	175.81	198.36	143.54	62.58	6551.07	673.67	885.70	198.30	972.53	300.44
58533	18.60	7.26	4.00	1121.46	66.11	29.37	236.92	32.26	30.95	5979.30	286.74	41.43	242.18	123.68	175.79
58534	19.81	7.26	4.00	1151.46	72.50	28.23	240.86	35.98	22.57	5796.87	168.91	36.57	270.43	94.68	101.37
58535	21.02	7.26	4.00	1198.15	76.75	29.24	238.08	39.73	21.72	5654.74	123.98	29.80	314.65	93.53	55.68
58536	22.23	7.25	4.00	1260.52	75.06	27.82	233.54	45.15	20.61	5512.97	101.86	27.82	372.19	109.05	28.92
58537	18.66	3.96	3.00	1073.76	173.05	239.65	399.49	120.83	161.55	4345.02	432.74	927.51	539.31	177.75	160.12
58538	19.77	3.96	3.00	1137.52	158.30	104.88	400.08	48.80	84.66	4810.45	306.02	203.69	460.07	425.66	119.62
58539	20.87	3.96	3.00	1162.79	120.04	101.03	403.05	69.37	76.61	4803.67	214.77	99.41	448.53	273.49	93.55
58540	21.97	3.95	3.00	1192.08	98.62	100.03	397.19	78.79	68.12	4704.10	146.45	101.09	445.92	245.25	65.67
58541	23.07	3.95	3.00	1223.84	88.70	96.26	391.03	85.42	62.91	4545.84	99.79	117.88	453.58	267.12	74.85
58542	18.38	5.08	3.00	1133.19	132.92	232.74	380.49	141.51	133.29	4326.47	328.53	770.05	426.89	196.06	170.09
58543	19.49	5.08	3.00	1150.35	87.86	16.46	354.34	20.80	26.29	4709.95	194.74	8.15	352.55	236.82	73.96
58544	20.59	5.07	3.00	1156.78	71.28	12.75	355.97	11.31	31.49	4729.89	151.79	51.23	360.73	98.81	39.53
58545	21.70	5.06	3.00	1178.17	60.00	9.31	352.62	12.30	29.05	4650.52	134.32	9.81	364.83	41.48	30.82
58546	22.81	5.05	3.00	1205.38	54.62	9.90	344.46	13.00	25.70	4500.69	117.51	10.07	361.67	21.80	30.82
58547	18.04	6.19	3.00	1105.37	105.88	210.85	334.54	130.62	123.32	4340.24	309.21	711.25	359.81	197.31	197.49
58548	19.16	6.18	3.00	1126.76	73.19	17.09	324.93	21.10	29.10	4696.73	209.26	10.04	336.10	210.05	130.18
58549	20.29	6.17	3.00	1136.11	61.01	14.53	325.63	13.09	32.26	4724.11	158.71	55.13	393.19	91.25	90.15
58550	21.41	6.16	3.00	1154.85	53.91	10.12	323.63	13.41	32.14	4650.05	143.20	13.94	441.91	44.86	59.52
58551	22.53	6.15	3.00	1181.49	47.25	10.67	318.01	14.03	29.72	4506.48	135.19	13.40	471.70	26.81	47.03
58552	17.63	7.27	3.00	1018.53	112.87	217.64	289.38	130.21	137.49	4374.39	403.30	772.70	292.47	100.81	327.73
58553	18.79	7.26	3.00	1093.36	121.36	104.01	323.69	73.08	91.23	4832.21	329.51	255.96	359.66	285.36	301.80
58554	19.94	7.26	3.00	1107.23	110.10	101.24	326.34	89.51	85.36	4826.11	220.26	129.30	512.94	224.08	192.32
58555	21.10	7.26	3.00	1124.61	105.40	105.44	329.32	101.96	84.15	4730.65	172.98	113.17	645.44	252.02	120.03
58556	22.25	7.25	3.00	1154.44	94.15	100.21	333.21	113.19	79.95	4590.57	147.48	99.95	750.19	306.70	90.49
58557	17.02	8.10	4.00	1187.86	99.67	169.28	178.10	138.95	55.69	6621.08	510.94	830.10	198.60	932.43	255.15
58558	18.26	8.10	4.00	1122.30	49.92	30.33	166.35	39.93	18.87	5992.43	99.25	81.25	157.30	158.80	102.34
58559	19.49	8.10	4.00	1112.70	64.80	29.23	152.62	48.67	37.50	5745.38	65.90	56.87	173.62	110.40	42.93
58560	20.73	8.10	4.00	1150.77	69.81	25.59	145.45	57.96	42.07	5627.21	70.00	25.89	199.95	117.64	40.81
58561	21.97	8.10	4.00	1215.80	69.78	23.16	138.21	64.96	42.18	5518.64	69.73	27.02	241.15	153.58	43.55
58562	16.72	8.70	4.00	1392.29	83.60	183.87	162.41	146.75	44.65	7334.63	365.48	863.88	463.01	859.96	147.07
58563	17.97	8.70	4.00	1136.67	27.27	29.25	59.04	50.92	20.03	5985.83	45.61	59.71	61.87	229.00	32.96
58564	19.23	8.70	4.00	1089.32	20.53	29.37	58.30	52.74	30.39	5688.43	20.45	35.20	61.74	130.65	32.38
58565	20.48	8.70	4.00	1112.08	21.82	33.12	52.16	64.73	34.80	5559.06	22.59	36.68	69.73	117.00	36.60
58566	21.73	8.70	4.00	1177.95	20.62	34.44	48.14	72.30	35.18	5481.01	20.63	52.36	83.74	149.78	38.96
58567	17.27	8.10	3.00	958.97	105.57	236.16	202.76	162.62	78.29	4449.02	355.66	871.22	318.42	317.79	222.44
58568	18.45	8.10	3.00	1061.92	50.44	163.73	185.14	154.12	23.83	4943.84	167.85	474.06	182.33	409.76	154.19
58569	19.63	8.10	3.00	1058.06	37.56	135.81	169.98	177.31	43.69	4849.39	86.66	209.72	276.52	394.77	61.14
58570	20.81	8.10	3.00	1077.34	34.85	130.55	168.43	201.21	52.40	4762.07	63.45	133.52	352.78	478.00	51.46
58571	21.99	8.10	3.00	1114.40	29.94	120.09	167.86	221.03	54.89	4646.20	48.19	131.47	418.76	609.94	59.03
58572	16.98	8.70	3.00	1165.71	96.41	244.97	199.37	234.02	65.16	5238.67	315.98	966.05	620.07	395.75	112.20
58573	18.17	8.70	3.00	1023.18	8.57	113.94	62.34	167.78	25.93	4827.91	9.44	382.79	64.50	474.66	54.39
58574	19.37	8.70	3.00	1004.34	8.28	104.80	60.87	183.17	54.42	4731.01	36.09	110.78	84.53	422.09	55.07
58575	20.57	8.70	3.00	1022.20	3.97	123.30	53.36	207.57	65.02	4671.73	17.72	138.19	113.82	467.09	67.53
58576	21.76	8.70	3.00	1065.96											

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
58605	32.42	-8.10	4.00	1848.79	20.83	16.29	67.38	33.90	24.69	3086.08	32.28	17.66	417.32	359.56	29.51
58606	33.93	-8.10	4.00	1895.12	25.77	17.27	53.60	26.30	28.03	2703.18	33.39	18.32	419.47	362.31	31.17
58607	35.44	-8.10	4.00	1928.96	28.85	17.92	38.92	18.77	30.00	2371.20	33.08	18.54	420.08	363.41	31.71
58608	36.96	-8.10	4.00	1951.08	30.58	18.29	23.60	11.26	31.06	2119.52	32.21	18.54	419.96	363.69	31.70
58609	38.47	-8.10	4.00	1962.01	31.35	18.47	7.91	3.76	31.52	1981.34	31.54	18.50	419.73	363.69	31.59
58610	39.98	-8.10	4.00	1962.00	31.35	18.47	7.90	3.76	31.52	1981.32	31.53	18.50	419.74	363.69	31.59
58611	41.49	-8.10	4.00	1951.05	30.58	18.30	23.59	11.26	31.06	2119.46	32.19	18.54	419.97	363.69	31.70
58612	43.01	-8.10	4.00	1928.92	28.85	17.92	38.91	18.77	30.00	2371.12	33.06	18.54	420.10	363.42	31.70
58613	44.52	-8.10	4.00	1895.06	25.78	17.27	53.59	26.30	28.03	2703.09	33.37	18.32	419.49	362.33	31.16
58614	46.03	-8.10	4.00	1848.71	20.84	16.29	67.37	33.91	24.70	3086.02	32.27	17.66	417.34	359.58	29.51
58615	47.55	-8.10	4.00	1788.89	13.53	14.97	80.04	41.68	19.47	3496.87	29.23	16.36	412.69	354.10	26.24
58616	49.06	-8.10	4.00	1714.65	5.09	13.49	91.44	49.72	11.93	3916.98	25.12	14.44	404.33	344.49	21.55
58617	50.57	-8.10	4.00	1625.64	13.21	12.54	101.64	57.86	4.06	4329.16	24.33	12.62	390.39	328.61	18.15
58618	52.08	-8.10	4.00	1523.28	29.70	13.37	111.02	65.17	12.93	4714.65	32.49	13.65	367.67	302.76	21.83
58619	53.60	-8.10	4.00	1412.38	47.14	16.48	120.36	69.73	26.01	5050.55	46.97	19.38	332.23	262.09	31.62
58620	55.11	-8.10	4.00	1302.13	61.93	20.38	130.00	69.80	36.68	5313.80	61.46	23.49	283.71	206.41	40.42
58621	23.13	-8.70	3.00	1136.52	2.52	123.72	48.04	231.76	61.39	4468.84	12.46	210.05	145.68	784.73	63.87
58622	24.66	-8.70	3.00	1225.43	3.12	94.85	44.63	230.39	47.86	4241.81	11.10	187.25	160.81	978.10	50.49
58623	26.19	-8.70	3.00	1315.82	5.63	54.83	42.14	217.38	30.97	3957.26	9.98	142.81	174.18	1131.56	36.80
58624	27.73	-8.70	3.00	1399.93	8.07	16.24	39.23	197.18	16.64	3638.48	10.60	109.29	186.51	1235.28	30.17
58625	29.26	-8.70	3.00	1473.78	9.92	16.70	35.43	173.71	11.90	3301.31	11.44	95.10	196.99	1303.69	31.46
58626	30.79	-8.70	3.00	1536.44	11.09	38.03	31.01	148.98	17.45	2957.12	11.99	90.33	204.79	1349.09	34.83
58627	32.33	-8.70	3.00	1587.94	11.74	52.04	26.04	123.42	23.76	2618.90	12.26	86.52	210.15	1377.99	36.96
58628	33.86	-8.70	3.00	1628.59	12.05	60.51	20.64	97.08	28.37	2302.43	12.32	81.56	213.63	1394.88	37.24
58629	35.39	-8.70	3.00	1658.74	12.16	65.26	14.94	69.98	31.34	2027.52	12.29	76.16	215.71	1403.59	36.26
58630	36.93	-8.70	3.00	1678.67	12.18	67.68	9.05	42.26	33.04	1819.05	12.23	71.65	216.83	1407.38	34.92
58631	38.46	-8.70	3.00	1688.58	12.18	68.66	3.07	14.14	33.80	1704.69	12.19	69.11	217.31	1408.65	34.02
58632	39.99	-8.70	3.00	1688.58	12.18	68.66	3.07	14.16	33.80	1704.66	12.19	69.10	217.31	1408.66	34.01
58633	41.52	-8.70	3.00	1678.65	12.18	67.68	9.05	42.28	33.04	1818.98	12.23	71.61	216.84	1407.41	34.91
58634	43.06	-8.70	3.00	1658.71	12.16	65.27	14.94	70.00	31.34	2027.42	12.29	76.11	215.71	1403.64	36.24
58635	44.59	-8.70	3.00	1628.54	12.05	60.52	20.64	97.10	28.38	2302.33	12.32	81.51	213.63	1394.95	37.21
58636	46.12	-8.70	3.00	1587.88	11.74	52.04	26.04	123.44	23.76	2618.81	12.26	86.48	210.16	1378.08	36.94
58637	47.66	-8.70	3.00	1536.37	11.09	38.04	31.01	149.00	17.46	2957.06	11.99	90.31	204.80	1349.21	34.82
58638	49.19	-8.70	3.00	1473.69	9.92	16.73	35.43	173.73	11.92	3301.28	11.45	95.13	197.00	1303.82	31.46
58639	50.72	-8.70	3.00	1399.82	8.07	16.28	39.23	197.20	16.66	3638.53	10.60	109.37	186.52	1235.38	30.18
58640	52.26	-8.70	3.00	1315.70	5.63	54.85	42.14	217.39	30.98	3957.38	9.98	142.91	174.20	1131.60	36.82
58641	53.79	-8.70	3.00	1225.30	3.12	94.87	44.62	230.40	47.87	4242.01	11.10	187.30	160.83	978.08	50.49
58642	55.32	-8.70	3.00	1136.39	2.53	123.76	48.03	231.76	61.40	4469.09	12.45	209.98	145.70	784.70	63.87
58643	23.34	-8.10	3.00	1173.65	20.42	101.99	165.09	234.76	51.31	4474.39	42.46	121.35	478.28	768.30	57.51
58644	24.85	-8.10	3.00	1250.88	9.30	75.72	159.40	235.78	40.36	4226.89	36.97	92.32	536.18	924.23	46.85
58645	26.37	-8.10	3.00	1330.65	14.16	53.63	150.85	222.54	26.08	3937.77	36.35	56.49	584.74	1042.42	34.71
58646	27.88	-8.10	3.00	1406.51	27.25	45.97	138.39	200.31	12.55	3621.11	40.63	46.02	623.99	1125.14	26.91
58647	29.39	-8.10	3.00	1475.07	37.87	51.86	122.94	174.50	2.36	3286.99	46.05	57.33	654.53	1181.83	25.33
58648	30.91	-8.10	3.00	1534.80	44.99	61.49	105.73	147.72	8.33	2945.71	50.24	70.03	676.51	1219.64	26.40
58649	32.42	-8.10	3.00	1584.75	49.26	69.87	87.43	120.77	14.64	2610.15	52.61	78.44	691.26	1243.44	27.29
58650	33.93	-8.10	3.00	1624.57	51.60	75.94	68.47	93.85	18.90	2295.73	53.58	82.61	700.56	1257.36	27.08
58651	35.44	-8.10	3.00	1654.22	52.76	79.88	49.13	67.00	21.57	2022.02	53.75	83.89	706.02	1264.81	26.02
58652	36.96	-8.10	3.00	1673.85	53.27	82.17	29.58	40.21	23.07	1814.01	53.62	83.77	708.94	1268.37	24.77
58653	38.47	-8.10	3.00	1683.62	53.45	83.21	10.03	13.49	23.74	1699.71	53.48	83.40	710.19	1269.74	23.94
58654	39.98	-8.10	3.00	1683.61	53.45	83.21	10.03	13.51	23.74	1699.69	53.48	83.40	710.19	1269.75	23.93
58655	41.49	-8.10	3.00	1673.84	53.27	82.18	29.59	40.22	23.07	1813.94	53.62	83.76	708.95	1268.39	24.75
58656	43.01	-8.10	3.00	1654.19	52.76	79.89	49.13	67.02	21.57	2021.92	53.75	83.88	706.03	1264.84	26.00
58657	44.52	-8.10	3.00	1624.52	51.60	75.94	68.47	93.87	18.91	2295.62	53.58	82.60	700.57	1257.39	27.06
58658	46.03	-8.10	3.00	1584.70	49.26	69.88	87.43	120.78	14.64	2610.05	52.61	78.43	691.28	1243.48	27.27
58659	47.55	-8.10	3.00	1534.72	44.99	61.50	105.73	147.73	8.34	2945.64	50.24	70.02	676.53	1219.70	26.39
58660	49.06	-8.10	3.00	1474.99	37.87	51.87	122.94	174.52	2.41	3286.97	46.07	57.33	654.56	1181.89	25.33
58661	50.57	-8.10	3.00	1406.41	27.26	45.99	138.38	200.32	12.56	3621.14	40.66	46.02	624.03	1125.21	26.92
58662	52.08	-8.10	3.00	1330.54	14.18	53.65	150.84	222.55	26.09	3937.87	36.38	56.49	584.79	1042.51	34.73
58663	53.60	-8.10	3.00	1250.77	9.34	75.73	159.39	235.79	40.37	4227.05	36.96	92.32	536.27	924.34	46.87
58664	55.11	-8.10	3.00	1173.53	20.44	102.01	165.06	234.76	51.32	4474.64	42.41	121.37	478.39	768.44	57.51
58665	23.57	-7.25	4.00	1338.86	66.76	24.08	225.48	49.62	19.11	5281.03	78.68	24.16	429.02	136.17	20.29
58666	25.07	-7.25	4.00	1438.69	52.61	17.68	213.20	50.28	17.72	5004.35	57.74	18.03	486.08	167.52	18.51
58667	26.56	-7.25	4.00	1538.51	36.40	11.65	198.11	46.99	17.17	4665.20	37.60	14.14	524.51	191.40	19.70
58668	28.05	-7.25	4.00	1630.90	23.24	10.02	180.27	41.18	17.45	4281.92	22.96	15.00	547.54	206.70	21.56
58669	29.54	-7.25	4.00	1711.93	18.69	12.58	159.97	34.64	18.32	3873.84	20.01	17.87	560.45	215.99	22.73
58670	31.03	-7.25	4.00	1780.25	22.27	15.72	137.79	28.34	19.33	3458.54	25.41	20.35	567.04	221.18	23.14
58671	32.52	-7.25	4.00	1835.85	27.47	18.16	114.25	22.52	20.18	3052.76	30.94	21.75	569.63	223.72	23.03
58672	34.01	-7.25	4.00	1879.26	31.57	19.81	89.74	17.13	20.82	2674.70	34.42	22.24	569.80	224.71	22.67
58673	35.50	-7.25	4.00	1911.14	34.28	20.82	64.55	12.05	21.24	2346.84	36.05	22.16	568.79	224.90	22.23
58674	36.99	-7.25	4.00	1932.05	35.85	21.38	38.91	7.16	21.49	2098.11	36.58	21.89	567.54	224.80	21.86
58675	38.48	-7.25													



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
58703	47.29	-6.15	4.00	1773.04	55.25	4.20	183.94	11.54	24.49	3421.72	65.08	6.14	476.73	81.83	40.76
58704	48.76	-6.15	4.00	1710.46	53.50	3.06	215.60	14.67	19.18	3831.74	70.07	5.95	484.46	80.36	40.57
58705	50.22	-6.15	4.00	1637.04	51.63	1.68	244.79	18.07	14.80	4235.05	77.48	6.03	489.04	76.55	39.98
58706	51.69	-6.15	4.00	1554.38	50.00	2.00	269.93	21.17	17.12	4614.82	88.05	6.70	487.22	69.50	39.85
58707	53.16	-6.15	4.00	1465.92	48.99	4.24	289.77	23.01	25.93	4953.69	104.44	8.35	474.30	58.98	41.32
58708	54.62	-6.15	4.00	1377.20	48.90	6.43	304.05	22.68	35.43	5237.93	133.90	10.04	445.67	49.60	46.34
58709	24.08	-5.05	4.00	1405.91	50.87	6.20	337.12	18.73	31.10	5222.33	198.15	6.20	362.67	39.87	51.99
58710	25.52	-5.05	4.00	1488.50	51.08	4.45	321.02	18.49	21.26	4932.60	162.44	4.73	349.84	49.64	52.70
58711	26.97	-5.05	4.00	1570.28	54.54	2.30	298.77	17.08	10.19	4589.69	140.85	3.46	328.13	61.72	49.05
58712	28.41	-5.05	4.00	1646.81	59.65	0.73	270.58	14.76	4.52	4208.03	125.09	2.98	299.88	69.84	44.18
58713	29.85	-5.05	4.00	1714.90	64.93	1.60	237.89	12.07	11.49	3805.17	112.31	3.48	267.55	74.21	40.40
58714	31.29	-5.05	4.00	1772.95	69.52	2.61	202.53	9.45	17.70	3397.30	101.90	4.00	233.43	76.19	37.70
58715	32.73	-5.05	4.00	1820.56	73.12	3.29	165.97	7.14	21.92	2999.80	93.72	4.30	199.35	76.89	35.31
58716	34.18	-5.05	4.00	1857.97	75.72	3.70	129.03	5.19	24.59	2629.74	87.59	4.38	166.85	77.00	32.88
58717	35.62	-5.05	4.00	1885.58	77.46	3.94	92.05	3.52	26.17	2308.76	83.27	4.31	137.64	76.85	30.54
58718	37.06	-5.05	4.00	1903.76	78.52	4.06	55.18	2.04	27.02	2065.17	80.54	4.20	114.28	76.66	28.64
58719	38.50	-5.05	4.00	1912.78	79.01	4.11	18.40	0.69	27.39	1931.32	79.23	4.13	100.66	76.54	27.58
58720	39.95	-5.05	4.00	1912.77	79.01	4.11	18.37	0.69	27.39	1931.30	79.23	4.13	100.65	76.54	27.57
58721	41.39	-5.05	4.00	1903.74	78.52	4.06	55.15	2.04	27.02	2065.13	80.54	4.20	114.25	76.66	28.64
58722	42.83	-5.05	4.00	1885.54	77.46	3.94	92.02	3.52	26.17	2308.71	83.26	4.31	137.61	76.85	30.53
58723	44.27	-5.05	4.00	1857.91	75.72	3.70	129.00	5.19	24.59	2629.68	87.58	4.37	166.81	76.99	32.87
58724	45.72	-5.05	4.00	1820.49	73.12	3.29	165.94	7.14	21.93	2999.76	93.71	4.30	199.31	76.89	35.29
58725	47.16	-5.05	4.00	1772.87	69.52	2.61	202.50	9.45	17.70	3397.27	101.88	4.00	233.39	76.18	37.68
58726	48.60	-5.05	4.00	1714.81	64.92	1.60	237.86	12.07	11.50	3805.15	112.27	3.47	267.51	74.20	40.39
58727	50.04	-5.05	4.00	1646.70	59.64	0.73	270.56	14.76	4.54	4208.03	125.04	2.98	299.84	69.83	44.16
58728	51.48	-5.05	4.00	1570.16	54.53	2.30	298.74	17.08	10.20	4589.73	140.80	3.45	328.09	61.71	49.03
58729	52.93	-5.05	4.00	1488.37	51.06	4.45	321.00	18.49	21.26	4932.69	162.37	4.73	349.80	49.64	52.67
58730	54.37	-5.05	4.00	1405.76	50.86	6.20	337.09	18.73	31.11	5222.50	198.06	6.20	362.62	39.88	51.95
58731	24.33	-3.95	4.00	1427.48	55.28	21.89	342.82	37.02	19.11	5238.07	253.86	29.48	344.44	116.12	38.10
58732	25.75	-3.95	4.00	1507.81	44.45	16.45	324.25	37.38	17.30	4938.98	221.04	26.85	324.86	144.87	42.87
58733	27.17	-3.95	4.00	1586.58	41.24	9.90	300.76	35.35	16.11	4586.32	192.66	20.78	300.78	169.31	39.96
58734	28.59	-3.95	4.00	1659.61	46.98	5.26	272.47	31.33	15.64	4197.85	167.99	15.65	272.60	185.17	34.73
58735	30.01	-3.95	4.00	1723.96	56.33	5.72	240.29	26.37	15.74	3791.69	147.16	13.33	241.21	194.81	30.01
58736	31.43	-3.95	4.00	1778.37	65.14	8.17	205.49	21.36	16.06	3383.17	129.82	12.84	207.83	200.76	26.31
58737	32.84	-3.95	4.00	1822.76	72.04	10.06	169.14	16.73	16.40	2986.66	115.33	12.88	173.60	204.48	23.37
58738	34.26	-3.95	4.00	1857.54	76.95	11.23	131.97	12.53	16.66	2618.58	103.30	12.85	139.47	206.72	20.98
58739	35.68	-3.95	4.00	1883.17	80.18	11.90	94.40	8.70	16.85	2300.11	93.78	12.70	106.53	207.96	19.10
58740	37.10	-3.95	4.00	1900.04	82.11	12.23	56.68	5.13	16.96	2058.95	87.06	12.52	76.92	208.56	17.78
58741	38.52	-3.95	4.00	1908.41	83.00	12.37	18.91	1.72	17.02	1926.65	83.56	12.40	56.52	208.78	17.11
58742	39.93	-3.95	4.00	1908.40	83.01	12.37	18.88	1.72	17.02	1926.64	83.56	12.40	56.52	208.78	17.11
58743	41.35	-3.95	4.00	1900.02	82.11	12.23	56.65	5.13	16.96	2058.91	87.05	12.52	76.91	208.56	17.78
58744	42.77	-3.95	4.00	1883.13	80.19	11.90	94.38	8.70	16.85	2300.07	93.76	12.70	106.52	207.96	19.10
58745	44.19	-3.95	4.00	1857.49	76.95	11.24	131.94	12.54	16.66	2618.53	103.28	12.84	139.46	206.72	20.98
58746	45.61	-3.95	4.00	1822.70	72.04	10.06	169.12	16.73	16.40	2986.61	115.29	12.87	173.58	204.48	23.37
58747	47.02	-3.95	4.00	1778.29	65.14	8.17	205.47	21.37	16.06	3383.14	129.78	12.83	207.81	200.76	26.31
58748	48.44	-3.95	4.00	1723.86	56.33	5.72	240.27	26.37	15.74	3791.68	147.11	13.31	241.19	194.81	30.02
58749	49.86	-3.95	4.00	1659.50	46.98	5.26	272.45	31.33	15.65	4197.86	167.92	15.62	272.58	185.17	34.74
58750	51.28	-3.95	4.00	1586.45	41.24	9.91	300.74	35.36	16.11	4586.35	192.57	20.75	300.76	169.31	39.97
58751	52.70	-3.95	4.00	1507.67	44.45	16.45	324.23	37.38	17.30	4939.05	220.93	26.83	324.84	144.88	42.87
58752	54.12	-3.95	4.00	1427.34	55.28	21.90	342.79	37.02	19.11	5238.19	253.74	29.46	344.41	116.14	38.08
58753	23.57	-7.25	3.00	1203.78	70.21	85.85	332.55	122.14	67.76	4410.43	132.37	85.31	846.57	372.45	71.49
58754	25.07	-7.25	3.00	1265.95	35.09	61.47	324.27	123.80	50.05	4149.16	113.10	61.04	932.57	442.54	55.70
58755	26.56	-7.25	3.00	1331.79	23.27	38.08	305.94	116.75	35.52	3861.32	104.77	43.64	1003.20	494.15	49.82
58756	28.05	-7.25	3.00	1396.73	55.78	29.96	278.57	104.11	33.48	3551.59	108.05	45.20	1060.19	530.90	53.52
58757	29.54	-7.25	3.00	1457.46	85.14	38.75	245.18	89.40	40.96	3226.25	117.91	56.41	1103.87	555.80	60.34
58758	31.03	-7.25	3.00	1511.76	105.81	50.09	208.74	74.51	49.29	2893.80	127.07	66.05	1134.94	571.80	65.50
58759	32.52	-7.25	3.00	1558.02	118.99	58.91	171.02	60.08	55.65	2565.84	132.63	71.59	1155.52	581.36	67.86
58760	34.01	-7.25	3.00	1595.35	126.81	64.86	132.91	46.16	59.91	2257.15	134.89	73.58	1168.35	586.67	67.98
58761	35.50	-7.25	3.00	1623.37	131.10	68.54	94.82	32.68	62.51	1987.09	135.16	73.41	1175.88	589.38	66.90
58762	36.99	-7.25	3.00	1642.01	133.23	70.59	56.90	19.51	63.94	1780.94	134.68	72.45	1179.95	590.65	65.59
58763	38.48	-7.25	3.00	1651.30	134.09	71.49	19.33	6.57	64.57	1667.27	134.25	71.70	1181.71	591.13	64.76
58764	39.97	-7.25	3.00	1651.30	134.09	71.49	19.33	6.58	64.57	1667.25	134.24	71.70	1181.71	591.13	64.76
58765	41.46	-7.25	3.00	1641.99	133.24	70.59	56.90	19.52	63.95	1780.87	134.67	72.44	1179.96	590.65	65.58
58766	42.95	-7.25	3.00	1623.34	131.11	68.54	94.82	32.69	62.51	1987.00	135.15	73.40	1175.89	589.39	66.89
58767	44.44	-7.25	3.00	1595.30	126.82	64.87	132.91	46.17	59.91	2257.05	134.87	73.57	1168.35	586.67	67.97
58768	45.93	-7.25	3.00	1557.96	119.00	58.92	171.01	60.08	55.66	2565.77	132.62	71.57	1155.53	581.37	67.84
58769	47.42	-7.25	3.00	1511.69	105.82	50.10	208.73	74.52	49.30	2893.75	127.08	66.04	1134.95	571.81	65.49
58770	48.91	-7.25	3.00	1457.39	85.15	38.77	245.17	89.40	40.97	3226.25	117.95	56.42	1103.89	555.81	60.34
58771	50.40	-7.25	3.00	1396.64	55.81	29.98	278.55	104.12	33.49	3551.63	108.13	45.22	1060.24	530.92	53.52
58772	51.89	-7.25	3.00	1331.69	23.35	38.10	305.92	116.75	35.53	3861.43	104.85	43.66	1003.30	494.20	49.82
58773	53.38	-7.25	3.00	1265.85	35.16	61.49	324.24								

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
58801	29.85	-5.05	3.00	1431.02	47.02	1.83	231.36	8.02	9.63	3110.79	49.12	5.47	255.38	43.88	33.31
58802	31.29	-5.05	3.00	1472.12	46.99	2.55	197.13	6.13	14.26	2787.93	47.21	4.81	223.36	44.88	31.20
58803	32.73	-5.05	3.00	1507.84	47.17	3.16	161.63	4.53	17.45	2470.29	47.16	4.47	191.56	44.89	29.10
58804	34.18	-5.05	3.00	1537.19	47.36	3.55	125.65	3.23	19.49	2171.19	47.52	4.25	161.42	44.51	26.88
58805	35.62	-5.05	3.00	1559.58	47.50	3.77	89.63	2.16	20.72	1909.06	47.71	4.10	134.57	44.05	24.69
58806	37.06	-5.05	3.00	1574.64	47.58	3.89	53.74	1.25	21.41	1708.45	47.70	4.00	113.36	43.68	22.90
58807	38.50	-5.05	3.00	1582.20	47.61	3.94	18.04	0.43	21.71	1597.60	47.62	3.95	101.18	43.48	21.88
58808	39.95	-5.05	3.00	1582.19	47.61	3.94	18.02	0.43	21.71	1597.58	47.62	3.95	101.18	43.48	21.87
58809	41.39	-5.05	3.00	1574.62	47.57	3.89	53.72	1.25	21.41	1708.40	47.70	4.00	113.34	43.68	22.90
58810	42.83	-5.05	3.00	1559.55	47.50	3.77	89.61	2.16	20.72	1909.00	47.71	4.10	134.55	44.05	24.69
58811	44.27	-5.05	3.00	1537.15	47.36	3.55	125.63	3.23	19.49	2171.13	47.51	4.25	161.39	44.50	26.87
58812	45.72	-5.05	3.00	1507.78	47.17	3.16	161.60	4.53	17.45	2470.24	47.15	4.46	191.53	44.88	29.10
58813	47.16	-5.05	3.00	1472.05	46.99	2.55	197.11	6.13	14.26	2787.90	47.21	4.81	223.33	44.87	31.20
58814	48.60	-5.05	3.00	1430.94	47.02	1.83	231.33	8.02	9.64	3110.79	49.14	5.46	255.35	43.87	33.31
58815	50.04	-5.05	3.00	1385.80	47.44	1.88	263.00	10.03	4.16	3429.53	55.27	6.78	286.01	40.77	35.64
58816	51.48	-5.05	3.00	1338.40	48.29	3.55	290.71	11.83	6.29	3738.12	67.51	9.06	313.55	34.52	37.78
58817	52.93	-5.05	3.00	1290.91	49.52	5.91	313.65	13.08	13.77	4033.64	85.29	11.44	336.44	25.89	38.14
58818	54.37	-5.05	3.00	1245.83	51.39	8.21	331.84	13.46	20.74	4312.16	106.75	16.18	353.58	18.57	35.18
58819	24.33	-3.95	3.00	1266.25	77.97	84.26	381.38	91.17	53.33	4339.73	77.44	115.00	469.02	316.22	91.39
58820	25.75	-3.95	3.00	1313.59	62.97	61.81	363.94	92.75	38.16	4052.47	69.32	103.51	490.61	377.42	91.74
58821	27.17	-3.95	3.00	1361.04	45.99	34.93	338.47	88.13	22.42	3747.24	64.68	79.24	510.19	426.50	79.62
58822	28.59	-3.95	3.00	1406.33	31.11	12.21	305.42	78.80	15.96	3429.79	60.35	59.80	523.43	461.12	67.32
58823	30.01	-3.95	3.00	1447.87	22.38	13.74	267.08	67.14	21.83	3104.99	57.12	50.31	530.45	484.61	59.23
58824	31.43	-3.95	3.00	1484.86	19.86	25.53	226.18	55.15	28.79	2778.70	54.00	47.61	533.38	500.88	54.29
58825	32.84	-3.95	3.00	1516.64	21.08	33.64	184.46	43.70	33.68	2460.17	49.48	46.89	533.71	512.00	50.47
58826	34.26	-3.95	3.00	1542.64	20.18	38.55	142.80	33.03	36.70	2162.43	43.18	46.12	532.50	519.24	46.93
58827	35.68	-3.95	3.00	1562.43	21.63	41.28	101.53	23.06	38.41	1903.20	35.66	45.05	530.63	523.64	43.73
58828	37.10	-3.95	3.00	1575.75	22.00	42.66	60.71	13.63	39.29	1705.95	28.15	44.00	528.89	526.05	41.24
58829	38.52	-3.95	3.00	1582.43	22.16	43.22	20.24	4.54	39.66	1597.40	22.94	43.37	527.87	527.08	39.88
58830	39.93	-3.95	3.00	1582.42	22.16	43.22	20.22	4.55	39.66	1597.39	22.94	43.37	527.87	527.09	39.87
58831	41.35	-3.95	3.00	1575.72	22.00	42.66	60.69	13.64	39.30	1705.91	28.14	43.99	528.90	526.05	41.23
58832	42.77	-3.95	3.00	1562.40	21.63	41.28	101.50	23.07	38.42	1903.16	35.64	45.02	530.65	523.65	43.71
58833	44.19	-3.95	3.00	1542.59	21.00	38.55	142.77	33.04	36.70	2162.39	43.16	46.09	532.52	519.25	46.91
58834	45.61	-3.95	3.00	1516.58	20.19	33.64	184.44	43.71	33.69	2460.14	49.44	46.85	533.74	512.01	50.45
58835	47.02	-3.95	3.00	1484.79	19.86	25.54	226.15	55.16	28.79	2778.68	53.94	47.55	533.40	500.89	54.26
58836	48.44	-3.95	3.00	1447.78	22.37	13.75	267.05	67.15	21.83	3105.00	57.04	50.23	530.48	484.62	59.20
58837	49.86	-3.95	3.00	1406.24	31.10	12.22	305.39	78.81	15.97	3429.84	60.25	59.70	523.47	461.13	67.27
58838	51.28	-3.95	3.00	1360.94	46.00	34.94	338.45	88.14	22.42	3747.34	64.59	79.13	510.24	426.53	79.56
58839	52.70	-3.95	3.00	1313.48	62.98	61.82	363.90	92.76	38.17	4052.65	69.29	103.41	490.67	377.47	91.67
58840	54.12	-3.95	3.00	1266.14	78.00	84.27	381.34	91.18	53.34	4340.01	77.47	114.93	469.10	316.30	91.33
58841	24.49	-3.10	4.00	1440.47	42.25	21.70	346.41	50.06	46.58	5253.19	276.50	35.17	355.84	176.95	46.71
58842	25.90	-3.10	4.00	1519.77	30.15	18.22	325.36	50.20	36.18	4945.85	246.66	34.21	335.24	218.83	36.55
58843	27.30	-3.10	4.00	1597.01	27.25	14.55	300.88	47.31	24.20	4586.05	214.29	27.17	310.56	251.12	24.61
58844	28.70	-3.10	4.00	1667.97	33.76	12.70	273.07	42.06	13.92	4192.61	183.56	21.16	282.28	272.09	14.24
58845	30.11	-3.10	4.00	1729.94	42.94	12.79	242.03	35.76	9.15	3783.87	156.84	17.92	250.88	285.30	9.28
58846	31.51	-3.10	4.00	1781.98	51.12	13.72	208.23	29.37	10.80	3374.49	134.11	16.71	217.03	293.95	10.81
58847	32.91	-3.10	4.00	1824.30	57.47	14.65	172.37	23.31	13.72	2978.31	114.65	16.35	181.62	299.67	13.72
58848	34.31	-3.10	4.00	1857.39	62.04	15.33	135.12	17.67	15.84	2611.39	98.02	16.22	145.57	303.27	15.85
58849	35.72	-3.10	4.00	1881.76	65.14	15.75	96.99	12.38	17.09	2294.55	84.31	16.16	110.05	305.35	17.10
58850	37.12	-3.10	4.00	1897.79	67.04	15.98	58.36	7.34	17.74	2055.02	74.22	16.12	77.28	306.43	17.74
58851	38.52	-3.10	4.00	1905.73	67.94	16.08	19.49	2.47	18.00	1923.78	68.75	16.09	53.66	306.88	18.01
58852	39.93	-3.10	4.00	1905.73	67.94	16.08	19.47	2.48	18.00	1923.77	68.75	16.09	53.64	306.88	18.01
58853	41.33	-3.10	4.00	1897.76	67.04	15.98	58.34	7.35	17.74	2054.99	74.21	16.11	77.25	306.44	17.74
58854	42.73	-3.10	4.00	1881.72	65.15	15.75	96.97	12.39	17.09	2294.50	84.30	16.16	110.02	305.36	17.10
58855	44.14	-3.10	4.00	1857.33	62.05	15.33	135.10	17.68	15.84	2611.34	98.00	16.22	145.54	303.27	15.85
58856	45.54	-3.10	4.00	1824.23	57.48	14.65	172.35	23.32	13.72	2978.27	114.64	16.34	181.58	299.68	13.72
58857	46.94	-3.10	4.00	1781.90	51.13	13.72	208.21	29.37	10.80	3374.47	134.09	16.70	217.00	293.96	10.81
58858	48.34	-3.10	4.00	1729.84	42.95	12.79	242.01	35.76	9.15	3783.86	156.81	17.91	250.84	285.31	9.29
58859	49.75	-3.10	4.00	1667.86	33.77	12.70	273.05	42.07	13.92	4192.62	183.52	21.14	282.24	272.09	14.26
58860	51.15	-3.10	4.00	1596.89	27.26	14.55	300.86	47.32	24.21	4586.08	214.24	27.16	310.53	251.13	24.63
58861	52.55	-3.10	4.00	1519.63	30.17	18.22	325.34	50.21	36.19	4945.90	246.58	34.20	335.21	218.84	36.56
58862	53.96	-3.10	4.00	1440.33	42.26	21.70	346.39	50.06	46.58	5253.28	276.39	35.15	355.80	176.96	46.72
58863	24.56	-2.50	4.00	1447.85	52.22	24.63	358.82	51.56	43.82	5251.07	273.70	30.89	394.09	180.06	44.62
58864	25.96	-2.50	4.00	1525.83	43.30	21.06	337.49	51.64	32.89	4940.75	242.51	29.08	382.42	221.45	34.05
58865	27.35	-2.50	4.00	1601.54	37.38	17.46	312.49	48.49	20.10	4579.46	208.85	22.64	365.61	253.24	21.21
58866	28.75	-2.50	4.00	1670.88	35.02	15.39	283.89	42.91	8.40	4185.51	176.79	17.80	344.45	273.95	9.60
58867	30.15	-2.50	4.00	1731.30	35.87	14.93	251.83	36.34	4.09	3776.74	148.32	15.78	320.14	287.09	5.30
58868	31.54	-2.50	4.00	1782.05	38.42	15.29	216.82	29.76	9.75	3367.70	123.58	15.54	294.27	295.65	10.13
58869	32.94	-2.50	4.00	1823.31	41.39	15.84	179.59	23.59	14.12	2972.17	102.10	15.89	268.51	301.22	14.32
58870	34.34	-2.50	4.00	1855.59	44.09	16.30	140.84	17.86	16.83	2606.11	83.53	16.31	244.53	304.66	16.95
58871	35.73	-2.50	4.00	1879.38	46.21	16.62	101.13	12.50	18.37	2290.20					

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
58899	44.14	-3.10	3.00	1558.79	8.45	54.18	105.56	65.63	24.30	2174.45	19.87	62.48	218.44	1141.32	24.73
58900	45.54	-3.10	3.00	1534.42	8.80	49.95	135.21	85.90	20.85	2473.95	23.42	65.37	230.10	1124.62	21.37
58901	46.94	-3.10	3.00	1504.39	9.39	43.76	164.11	107.02	17.17	2796.14	26.08	70.21	242.67	1099.46	17.59
58902	48.34	-3.10	3.00	1468.97	10.39	37.04	191.74	128.57	18.25	3128.11	27.66	79.66	255.21	1063.49	18.33
58903	49.75	-3.10	3.00	1428.35	12.04	36.86	217.39	149.28	29.24	3460.52	27.95	98.82	266.70	1013.59	29.19
58904	51.15	-3.10	3.00	1382.49	14.42	51.92	240.03	166.20	47.52	3787.74	25.60	131.08	275.93	943.47	47.64
58905	52.55	-3.10	3.00	1332.62	16.87	76.74	259.34	175.11	68.55	4103.54	18.16	167.37	282.75	844.88	68.77
58906	53.96	-3.10	3.00	1281.56	21.43	100.51	276.36	172.92	86.03	4394.85	25.01	179.81	289.97	721.11	86.10
58907	24.56	-2.50	3.00	1290.72	16.38	113.24	295.40	186.80	81.90	4405.05	21.07	148.32	425.50	761.21	88.54
58908	25.96	-2.50	3.00	1339.91	8.80	89.17	278.14	188.54	64.10	4109.14	8.15	131.77	436.92	884.22	72.04
58909	27.35	-2.50	3.00	1388.03	11.18	65.91	258.21	178.41	42.35	3790.82	22.45	97.13	445.58	981.47	50.87
58910	28.75	-2.50	3.00	1432.46	17.65	51.89	234.55	160.04	22.20	3462.22	30.04	69.40	449.73	1051.36	32.07
58911	30.15	-2.50	3.00	1472.05	22.80	49.33	207.55	138.01	6.40	3129.01	33.91	56.76	450.44	1101.48	20.57
58912	31.54	-2.50	3.00	1506.75	26.13	52.57	178.20	115.21	6.83	2796.68	35.32	54.97	448.73	1137.51	18.02
58913	32.94	-2.50	3.00	1536.27	28.04	56.62	147.24	92.81	14.56	2474.45	35.04	57.20	445.51	1162.49	20.17
58914	34.34	-2.50	3.00	1560.25	29.02	59.76	115.24	71.16	19.53	2175.05	33.76	59.84	441.67	1178.94	22.48
58915	35.73	-2.50	3.00	1578.42	29.44	61.80	82.63	50.26	22.42	1915.73	32.10	61.79	438.01	1189.06	23.85
58916	37.13	-2.50	3.00	1590.61	29.58	62.95	49.70	29.95	23.95	1719.26	30.61	62.95	435.19	1194.69	24.46
58917	38.53	-2.50	3.00	1596.72	29.61	63.46	16.65	10.12	24.60	1611.50	29.73	63.46	433.66	1197.17	24.66
58918	39.92	-2.50	3.00	1596.72	29.61	63.46	16.64	10.15	24.60	1611.49	29.73	63.46	433.66	1197.18	24.65
58919	41.32	-2.50	3.00	1590.59	29.58	62.95	49.69	29.98	23.95	1719.23	30.61	62.95	435.19	1194.71	24.45
58920	42.72	-2.50	3.00	1578.39	29.44	61.80	82.63	50.29	22.42	1915.68	32.11	61.79	438.01	1189.08	23.83
58921	44.11	-2.50	3.00	1560.20	29.01	59.77	115.24	71.20	19.53	2174.99	33.77	59.84	441.66	1178.97	22.45
58922	45.51	-2.50	3.00	1536.21	28.03	56.63	147.24	92.85	14.56	2474.40	35.05	57.21	445.50	1162.54	20.12
58923	46.91	-2.50	3.00	1506.68	26.12	52.58	178.20	115.25	6.83	2796.63	35.33	55.00	448.72	1137.57	17.94
58924	48.30	-2.50	3.00	1471.97	22.79	49.33	207.54	138.04	6.41	3128.98	33.91	56.81	450.44	1101.56	20.48
58925	49.70	-2.50	3.00	1432.37	17.65	51.90	234.54	160.07	22.21	3462.21	30.06	69.49	449.72	1051.44	32.00
58926	51.10	-2.50	3.00	1387.93	11.19	65.92	258.20	178.43	42.36	3790.85	22.47	97.24	445.57	981.54	50.81
58927	52.49	-2.50	3.00	1339.79	8.82	89.17	278.13	188.55	64.11	4109.23	8.16	131.86	436.90	884.29	71.99
58928	53.89	-2.50	3.00	1290.60	16.39	113.25	295.38	186.80	81.91	4405.23	21.07	148.36	425.48	761.28	88.51
58929	24.60	-1.65	4.00	1456.28	65.36	23.40	387.00	40.51	18.04	5231.44	277.58	24.50	442.29	125.16	20.61
58930	25.99	-1.65	4.00	1531.35	55.48	17.88	367.22	40.69	17.08	4921.80	238.19	19.99	441.62	153.02	22.34
58931	27.38	-1.65	4.00	1604.24	48.42	11.96	341.51	38.11	16.39	4563.38	204.60	13.64	433.39	176.52	19.68
58932	28.78	-1.65	4.00	1671.22	46.03	8.47	310.17	33.41	16.05	4172.53	175.28	9.31	418.48	192.03	17.25
58933	30.17	-1.65	4.00	1729.93	47.80	8.58	274.25	27.91	16.06	3766.09	149.64	8.81	399.39	201.70	16.34
58934	31.56	-1.65	4.00	1779.47	51.54	10.15	235.13	22.54	16.27	3358.79	127.37	10.18	378.67	207.63	16.30
58935	32.96	-1.65	4.00	1819.90	55.51	11.56	193.98	17.63	16.52	2964.67	108.19	11.56	358.37	211.20	16.52
58936	34.35	-1.65	4.00	1851.60	58.89	12.50	151.63	13.21	16.74	2599.76	92.00	12.50	340.06	213.21	16.74
58937	35.74	-1.65	4.00	1874.99	61.41	13.04	108.62	9.17	16.89	2284.69	78.96	13.05	325.01	214.25	16.89
58938	37.14	-1.65	4.00	1890.40	63.06	13.32	65.27	5.41	16.99	2046.49	69.59	13.32	314.29	214.71	16.99
58939	38.53	-1.65	4.00	1898.05	63.87	13.43	21.78	1.83	17.03	1915.96	64.61	13.44	308.71	214.87	17.03
58940	39.92	-1.65	4.00	1898.04	63.87	13.43	21.78	1.84	17.03	1915.95	64.62	13.44	308.70	214.87	17.03
58941	41.31	-1.65	4.00	1890.38	63.06	13.32	65.26	5.42	16.99	2046.46	69.60	13.32	314.28	214.71	16.99
58942	42.71	-1.65	4.00	1874.95	61.41	13.04	108.61	9.18	16.89	2284.65	78.98	13.05	324.99	214.25	16.89
58943	44.10	-1.65	4.00	1851.55	58.88	12.50	151.62	13.21	16.74	2599.73	92.02	12.50	340.03	213.22	16.74
58944	45.49	-1.65	4.00	1819.83	55.51	11.56	193.97	17.64	16.52	2964.65	108.23	11.56	358.34	211.21	16.52
58945	46.89	-1.65	4.00	1779.39	51.54	10.15	235.12	22.54	16.27	3358.78	127.42	10.18	378.63	207.65	16.30
58946	48.28	-1.65	4.00	1729.83	47.80	8.58	274.24	27.92	16.06	3766.10	149.70	8.81	399.35	201.72	16.34
58947	49.67	-1.65	4.00	1671.11	46.03	8.47	310.15	33.41	16.05	4172.55	175.34	9.33	418.44	192.04	17.25
58948	51.07	-1.65	4.00	1604.12	48.42	11.97	341.50	38.11	16.39	4563.43	204.66	13.66	433.35	176.52	19.68
58949	52.46	-1.65	4.00	1531.22	55.49	17.89	367.20	40.70	17.08	4921.86	238.22	20.01	441.58	153.01	22.34
58950	53.85	-1.65	4.00	1456.15	65.37	23.40	386.98	40.51	18.04	5231.51	277.57	24.50	442.24	125.14	20.60
58951	24.60	-0.55	4.00	1462.71	60.54	5.98	417.54	21.06	31.43	5208.15	284.88	6.47	432.72	45.19	31.74
58952	25.99	-0.55	4.00	1534.65	57.27	4.11	398.73	20.79	23.26	4900.67	235.01	4.36	419.75	55.10	24.43
58953	27.38	-0.55	4.00	1604.71	58.54	1.96	371.94	19.12	14.69	4547.00	202.68	2.07	398.79	67.44	15.86
58954	28.78	-0.55	4.00	1669.63	62.79	0.09	337.72	16.45	9.17	4160.36	178.01	0.30	370.63	76.09	9.86
58955	30.17	-0.55	4.00	1727.03	68.33	1.42	297.85	13.42	9.72	3756.91	157.02	1.42	337.56	81.06	9.89
58956	31.56	-0.55	4.00	1775.82	73.90	2.38	254.45	10.54	12.67	3351.61	138.65	2.38	302.31	83.50	12.69
58957	32.96	-0.55	4.00	1815.83	78.78	2.96	209.17	8.01	15.05	2958.87	122.79	2.97	267.25	84.46	15.05
58958	34.35	-0.55	4.00	1847.28	82.67	3.30	163.00	5.85	16.53	2594.81	109.63	3.30	234.43	84.66	16.53
58959	35.74	-0.55	4.00	1870.53	85.51	3.47	116.50	3.99	17.33	2280.13	99.41	3.47	205.97	84.53	17.33
58960	37.14	-0.55	4.00	1885.86	87.35	3.55	69.90	2.33	17.71	2041.99	92.39	3.55	184.42	84.33	17.71
58961	38.53	-0.55	4.00	1893.48	88.24	3.58	23.30	0.80	17.85	1911.40	88.80	3.58	172.60	84.19	17.85
58962	39.92	-0.55	4.00	1893.47	88.24	3.58	23.30	0.80	17.85	1911.39	88.80	3.58	172.60	84.19	17.85
58963	41.31	-0.55	4.00	1885.84	87.35	3.55	69.89	2.33	17.71	2041.97	92.39	3.55	184.41	84.33	17.71
58964	42.71	-0.55	4.00	1870.49	85.51	3.47	116.49	3.99	17.33	2280.11	99.41	3.47	205.95	84.54	17.33
58965	44.10	-0.55	4.00	1847.23	82.67	3.30	163.00	5.86	16.53	2594.79	109.64	3.30	234.41	84.67	16.53
58966	45.49	-0.55	4.00	1815.76	78.78	2.96	209.16	8.01	15.05	2958.84	122.80	2.97	267.23	84.46	15.05
58967	46.89	-0.55	4.00	1775.74	73.90	2.38	254.44	10.54	12.67	3351.60	138.66	2.38	302.29	83.50	12.69
58968	48.28	-0.55	4.00	1726.93	68.33	1.42	297.84	13.42	9.73	3756.92	157.04	1.42	337.53	81.07	9.89
58969	49.67	-0.55	4.00	1669.52	62.79	0.09</									

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
58997	27.38	1.65	4.00	1604.24	48.43	11.97	341.51	38.11	16.39	4563.39	204.66	13.65	433.35	176.52	19.69
58998	28.78	1.65	4.00	1671.22	46.04	8.47	310.16	33.41	16.05	4172.53	175.34	9.32	418.44	192.03	17.25
58999	30.17	1.65	4.00	1729.93	47.80	8.58	274.25	27.92	16.06	3766.09	149.69	8.81	399.35	201.70	16.34
59000	31.56	1.65	4.00	1779.47	51.55	10.15	235.13	22.54	16.27	3358.79	127.42	10.18	378.63	207.64	16.30
59001	32.96	1.65	4.00	1819.90	55.51	11.56	193.98	17.63	16.52	2964.67	108.23	11.56	358.34	211.20	16.52
59002	34.35	1.65	4.00	1851.60	58.89	12.50	151.63	13.21	16.74	2599.75	92.03	12.50	340.03	213.21	16.74
59003	35.74	1.65	4.00	1874.99	61.41	13.04	108.62	9.17	16.89	2284.68	78.99	13.05	324.99	214.25	16.89
59004	37.14	1.65	4.00	1890.40	63.06	13.32	65.27	5.41	16.99	2046.48	69.61	13.32	314.27	214.71	16.99
59005	38.53	1.65	4.00	1898.05	63.88	13.43	21.78	1.83	17.03	1915.96	64.62	13.44	308.70	214.87	17.03
59006	39.92	1.65	4.00	1898.04	63.88	13.43	21.78	1.84	17.03	1915.96	64.61	13.44	308.70	214.87	17.03
59007	41.31	1.65	4.00	1890.38	63.06	13.32	65.27	5.42	16.99	2046.47	69.59	13.32	314.28	214.71	16.99
59008	42.71	1.65	4.00	1874.96	61.41	13.04	108.62	9.18	16.89	2284.67	78.96	13.05	325.00	214.25	16.89
59009	44.10	1.65	4.00	1851.55	58.89	12.50	151.63	13.21	16.74	2599.74	92.00	12.50	340.05	213.21	16.74
59010	45.49	1.65	4.00	1819.83	55.51	11.56	193.98	17.63	16.52	2964.65	108.20	11.56	358.37	211.20	16.52
59011	46.89	1.65	4.00	1779.39	51.54	10.15	235.13	22.54	16.27	3358.78	127.38	10.18	378.66	207.64	16.30
59012	48.28	1.65	4.00	1729.84	47.80	8.58	274.24	27.92	16.06	3766.09	149.65	8.81	399.38	201.70	16.34
59013	49.67	1.65	4.00	1671.12	46.03	8.47	310.15	33.41	16.05	4172.54	175.30	9.32	418.48	192.03	17.25
59014	51.07	1.65	4.00	1604.12	48.42	11.97	341.50	38.11	16.39	4563.41	204.63	13.65	433.39	176.52	19.69
59015	52.46	1.65	4.00	1531.23	55.48	17.89	367.20	40.70	17.08	4921.83	238.23	20.00	441.62	153.02	22.35
59016	53.85	1.65	4.00	1456.15	65.35	23.41	386.98	40.51	18.04	5231.48	277.63	24.50	442.28	125.16	20.62
59017	24.60	-1.65	3.00	1294.63	62.99	88.66	445.34	104.38	57.39	4352.29	60.04	92.88	736.01	357.61	62.52
59018	25.99	-1.65	3.00	1335.74	37.66	65.66	426.20	105.41	43.07	4051.11	43.53	73.71	776.89	417.66	53.81
59019	27.38	-1.65	3.00	1377.05	15.31	40.77	397.81	99.45	29.67	3736.98	44.84	47.35	810.60	464.99	39.29
59020	28.78	-1.65	3.00	1416.77	21.07	24.03	360.82	88.56	23.80	3414.61	54.04	28.20	835.43	499.18	29.63
59021	30.17	-1.65	3.00	1453.52	37.05	23.77	317.73	75.60	25.99	3087.81	62.81	24.98	852.18	522.91	28.31
59022	31.56	-1.65	3.00	1486.58	48.34	30.97	271.77	62.45	30.15	2761.62	67.81	31.10	862.51	539.25	30.92
59023	32.96	-1.65	3.00	1515.15	55.18	37.15	222.81	49.85	33.42	2444.58	69.15	37.14	867.98	550.13	33.66
59024	34.35	-1.65	3.00	1538.62	58.92	41.15	173.60	37.96	35.47	2149.02	68.03	41.17	870.14	557.04	35.54
59025	35.74	-1.65	3.00	1556.53	60.74	43.44	124.06	26.68	36.60	1892.10	65.73	43.48	870.40	561.14	36.62
59026	37.14	-1.65	3.00	1568.60	61.51	44.61	74.45	15.85	37.15	1696.80	63.40	44.64	869.91	563.36	37.15
59027	38.53	-1.65	3.00	1574.66	61.76	45.09	24.93	5.36	37.36	1589.40	61.98	45.10	869.46	564.30	37.36
59028	39.92	-1.65	3.00	1574.65	61.76	45.09	24.93	5.38	37.36	1589.39	61.98	45.09	869.46	564.30	37.36
59029	41.31	-1.65	3.00	1568.58	61.50	44.61	74.45	15.87	37.15	1696.76	63.41	44.63	869.91	563.36	37.15
59030	42.71	-1.65	3.00	1556.51	60.74	43.44	124.06	26.69	36.60	1892.06	65.74	43.48	870.41	561.16	36.62
59031	44.10	-1.65	3.00	1538.58	58.91	41.15	173.60	37.97	35.47	2148.97	68.05	41.17	870.15	557.06	35.54
59032	45.49	-1.65	3.00	1515.10	55.16	37.15	222.81	49.87	33.42	2444.53	69.18	37.14	868.00	550.16	33.66
59033	46.89	-1.65	3.00	1486.51	48.33	30.97	271.17	62.46	30.16	2761.57	67.86	31.11	862.53	539.28	30.93
59034	48.28	-1.65	3.00	1453.45	37.04	23.77	317.73	75.61	25.99	3087.78	62.88	25.01	852.22	522.95	28.33
59035	49.67	-1.65	3.00	1416.68	21.07	24.04	360.82	88.57	23.80	3414.60	54.13	28.27	835.47	499.22	29.67
59036	51.07	-1.65	3.00	1376.96	15.35	40.78	397.80	99.45	29.68	3737.01	44.94	47.42	810.63	465.02	39.34
59037	52.46	-1.65	3.00	1335.63	37.68	65.67	426.19	105.41	43.08	4051.20	43.58	73.77	776.90	417.66	53.84
59038	53.85	-1.65	3.00	1294.52	62.99	88.66	445.32	104.38	57.38	4352.46	60.02	92.91	736.00	357.61	62.53
59039	24.60	-0.55	3.00	1293.25	38.93	9.42	410.91	14.56	19.99	4304.91	62.26	12.61	438.34	20.12	20.04
59040	25.99	-0.55	3.00	1327.80	33.10	7.29	389.67	13.90	14.54	4003.90	36.92	8.83	423.60	27.15	14.64
59041	27.38	-0.55	3.00	1363.85	29.71	4.98	362.49	12.47	9.07	3692.99	28.52	6.32	404.21	35.93	9.27
59042	28.78	-0.55	3.00	1399.73	28.82	3.45	329.44	10.48	5.65	3375.87	34.39	4.20	380.57	42.54	5.78
59043	30.17	-0.55	3.00	1434.06	29.47	3.08	291.45	8.30	6.47	3054.31	41.37	3.33	353.55	46.08	6.50
59044	31.56	-0.55	3.00	1465.62	30.45	3.38	249.94	6.30	8.66	2732.80	44.79	3.42	324.83	47.46	8.66
59045	32.96	-0.55	3.00	1493.32	31.15	3.79	206.19	4.62	10.31	2419.36	44.72	3.78	296.29	47.68	10.31
59046	34.35	-0.55	3.00	1516.31	31.50	4.10	161.15	3.27	11.29	2126.01	42.16	4.10	269.86	47.40	11.29
59047	35.74	-0.55	3.00	1533.98	31.60	4.29	115.42	2.18	11.80	1869.95	38.29	4.30	247.46	46.97	11.80
59048	37.14	-0.55	3.00	1545.95	31.60	4.40	69.35	1.25	12.02	1674.55	34.40	4.40	230.99	46.59	12.02
59049	38.53	-0.55	3.00	1551.98	31.57	4.44	23.14	0.45	12.11	1566.78	31.91	4.45	222.21	46.38	12.11
59050	39.92	-0.55	3.00	1551.97	31.57	4.44	23.13	0.45	12.11	1566.77	31.91	4.45	222.21	46.38	12.11
59051	41.31	-0.55	3.00	1545.93	31.59	4.40	69.34	1.25	12.02	1674.54	34.41	4.40	230.99	46.59	12.02
59052	42.71	-0.55	3.00	1533.96	31.60	4.29	115.41	2.18	11.80	1869.93	38.30	4.30	247.46	46.97	11.80
59053	44.10	-0.55	3.00	1516.27	31.49	4.10	161.15	3.27	11.29	2125.99	42.17	4.10	269.88	47.40	11.29
59054	45.49	-0.55	3.00	1493.26	31.14	3.79	206.19	4.62	10.31	2419.34	44.74	3.78	296.30	47.69	10.31
59055	46.89	-0.55	3.00	1465.55	30.45	3.39	249.93	6.30	8.66	2732.80	44.82	3.42	324.82	47.46	8.66
59056	48.28	-0.55	3.00	1433.99	29.47	3.08	291.44	8.30	6.47	3054.31	41.41	3.33	353.55	46.08	6.50
59057	49.67	-0.55	3.00	1399.65	28.82	3.46	329.44	10.48	5.65	3375.89	34.42	4.20	380.56	42.53	5.79
59058	51.07	-0.55	3.00	1363.75	29.72	4.98	362.48	12.47	9.07	3693.05	28.53	6.33	404.21	35.92	9.27
59059	52.46	-0.55	3.00	1327.69	33.11	7.29	389.66	13.90	14.54	4004.00	36.92	8.84	423.58	27.13	14.64
59060	53.85	-0.55	3.00	1293.13	38.94	9.43	410.90	14.56	19.98	4305.08	62.26	12.62	438.33	20.10	20.04
59061	24.60	0.55	3.00	1293.25	38.95	9.42	410.91	14.56	19.99	4304.91	62.24	12.62	438.33	20.12	20.04
59062	25.99	0.55	3.00	1327.80	33.11	7.29	389.67	13.90	14.55	4003.89	36.91	8.83	423.58	27.15	14.64
59063	27.38	0.55	3.00	1363.85	29.72	4.98	362.49	12.47	9.07	3692.99	28.52	6.32	404.20	35.93	9.27
59064	28.78	0.55	3.00	1399.73	28.81	3.45	329.44	10.48	5.65	3375.86	34.40	4.20	380.55	42.54	5.79
59065	30.17	0.55	3.00	1434.06	29.47	3.08	291.45	8.30	6.47	3054.30	41.38	3.33	353.53	46.08	6.50
59066	31.56	0.55	3.00	1465.62	30.44	3.39	249.94	6.30	8.66	2732.80	44.80	3.42	324.81	47.46	8.66
59067	32.96	0.55	3.00	1493.32	31.14	3.79	206.19	4.62	10.30	2419.35	44.72	3.79	296.29	47.68	10.31

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
59095	41.31	1.65	3.00	1568.58	61.50	44.61	74.45	15.86	37.15	1696.79	63.40	44.63	869.89	563.35	37.15
59096	42.71	1.65	3.00	1556.51	60.74	43.44	124.05	26.69	36.60	1892.08	65.72	43.48	870.39	561.15	36.62
59097	44.10	1.65	3.00	1538.58	58.91	41.15	173.59	37.97	35.47	2149.00	68.03	41.17	870.12	557.04	35.54
59098	45.49	1.65	3.00	1515.10	55.17	37.14	222.80	49.86	33.42	2444.56	69.16	37.13	867.96	550.14	33.66
59099	46.89	1.65	3.00	1486.51	48.33	30.96	271.16	62.46	30.15	2761.60	67.82	31.10	862.49	539.25	30.92
59100	48.28	1.65	3.00	1453.45	37.04	23.76	317.73	75.61	25.99	3087.81	62.83	24.98	852.17	522.91	28.31
59101	49.67	1.65	3.00	1416.68	21.06	24.03	360.82	88.57	23.80	3414.62	54.06	28.21	835.43	499.19	29.63
59102	51.07	1.65	3.00	1376.96	15.33	40.78	397.81	99.46	29.68	3737.01	44.88	47.36	810.60	465.00	39.30
59103	52.46	1.65	3.00	1335.63	37.69	65.67	426.20	105.42	43.08	4051.16	43.57	73.73	776.90	417.67	53.82
59104	53.85	1.65	3.00	1294.51	63.02	88.66	445.33	104.39	57.39	4352.37	60.07	92.90	736.03	357.64	62.54
59105	24.56	2.50	4.00	1447.85	52.23	24.63	358.82	51.56	43.82	5251.08	273.76	30.90	394.04	180.06	44.60
59106	25.96	2.50	4.00	1525.83	43.31	21.06	337.49	51.64	32.88	4940.76	242.56	29.09	382.37	221.45	34.04
59107	27.35	2.50	4.00	1601.54	37.40	17.46	312.48	48.49	20.10	4579.47	208.90	22.65	365.57	253.24	21.19
59108	28.75	2.50	4.00	1670.87	35.04	15.39	283.89	42.91	8.40	4185.51	176.84	17.81	344.41	273.95	9.59
59109	30.15	2.50	4.00	1731.30	35.88	14.93	251.82	36.34	4.10	3776.73	148.36	15.79	320.10	287.09	5.29
59110	31.54	2.50	4.00	1782.05	38.43	15.29	216.81	29.76	9.75	3367.69	123.62	15.54	294.24	295.65	10.12
59111	32.94	2.50	4.00	1823.31	41.40	15.84	179.58	23.59	14.12	2972.15	102.14	15.90	268.47	301.22	14.31
59112	34.34	2.50	4.00	1855.59	44.10	16.30	140.83	17.86	16.83	2606.10	83.57	16.31	244.50	304.66	16.95
59113	35.73	2.50	4.00	1879.38	46.22	16.62	101.12	12.50	18.37	2290.20	67.98	16.61	224.07	306.62	18.43
59114	37.13	2.50	4.00	1895.03	47.66	16.80	60.86	7.41	19.16	2051.49	56.09	16.80	209.01	307.62	19.18
59115	38.53	2.50	4.00	1902.80	48.39	16.88	20.32	2.50	19.48	1920.75	49.37	16.88	200.96	308.02	19.49
59116	39.92	2.50	4.00	1902.79	48.39	16.88	20.33	2.50	19.48	1920.74	49.36	16.88	200.97	308.02	19.49
59117	41.32	2.50	4.00	1895.01	47.66	16.80	60.87	7.41	19.16	2051.48	56.07	16.80	209.02	307.62	19.18
59118	42.72	2.50	4.00	1879.34	46.22	16.62	101.13	12.51	18.37	2290.18	67.95	16.61	224.09	306.62	18.43
59119	44.11	2.50	4.00	1855.54	44.09	16.30	140.84	17.87	16.83	2606.08	83.53	16.31	244.52	304.66	16.95
59120	45.51	2.50	4.00	1823.25	41.39	15.84	179.58	23.60	14.12	2972.14	102.10	15.89	268.50	301.22	14.31
59121	46.91	2.50	4.00	1781.97	38.42	15.29	216.81	29.77	9.75	3367.69	123.58	15.54	294.27	295.65	10.12
59122	48.30	2.50	4.00	1731.22	35.87	14.93	251.82	36.34	4.09	3776.73	148.33	15.78	320.14	287.09	5.30
59123	49.70	2.50	4.00	1670.77	35.02	15.39	283.88	42.92	8.41	4185.51	176.81	17.80	344.45	273.95	9.61
59124	51.10	2.50	4.00	1601.43	37.38	17.46	312.48	48.50	20.11	4579.48	208.88	22.65	365.61	253.24	21.21
59125	52.49	2.50	4.00	1525.71	43.29	21.06	337.48	51.64	32.90	4940.78	242.56	29.08	382.41	221.46	34.06
59126	53.89	2.50	4.00	1447.72	52.21	24.63	358.81	51.56	43.83	5251.10	273.77	30.90	394.08	180.07	44.63
59127	24.49	3.10	4.00	1440.46	42.24	21.70	346.40	50.06	46.58	5253.20	276.48	35.15	355.81	176.94	46.71
59128	25.90	3.10	4.00	1519.76	30.15	18.22	325.35	50.20	36.18	4945.85	246.65	34.20	335.21	218.83	36.55
59129	27.30	3.10	4.00	1597.01	27.27	14.55	300.87	47.31	24.20	4586.05	214.29	27.16	310.53	251.12	24.62
59130	28.70	3.10	4.00	1667.97	33.79	12.70	273.06	42.06	13.92	4192.60	183.56	21.15	282.25	272.08	14.24
59131	30.11	3.10	4.00	1729.94	42.97	12.79	242.02	35.76	9.15	3783.86	156.84	17.91	250.85	285.30	9.29
59132	31.51	3.10	4.00	1781.98	51.15	13.72	208.22	29.37	10.80	3374.48	134.12	16.71	217.00	293.95	10.81
59133	32.91	3.10	4.00	1824.30	57.49	14.66	172.36	23.31	13.72	2978.29	114.66	16.34	181.59	299.67	13.72
59134	34.31	3.10	4.00	1857.39	62.06	15.33	135.10	17.67	15.84	2611.37	98.02	16.22	145.54	303.27	15.85
59135	35.72	3.10	4.00	1881.76	65.16	15.75	96.97	12.38	17.09	2294.53	84.32	16.16	110.03	305.35	17.10
59136	37.12	3.10	4.00	1897.79	67.05	15.98	58.34	7.34	17.74	2055.01	74.23	16.12	77.25	306.43	17.74
59137	38.52	3.10	4.00	1905.73	67.95	16.08	19.47	2.47	18.00	1923.77	68.76	16.09	53.65	306.87	18.00
59138	39.93	3.10	4.00	1905.73	67.94	16.08	19.49	2.48	18.00	1923.77	68.76	16.09	53.65	306.87	18.00
59139	41.33	3.10	4.00	1897.77	67.04	15.98	58.36	7.34	17.74	2055.00	74.22	16.12	77.27	306.43	17.74
59140	42.73	3.10	4.00	1881.72	65.15	15.75	96.98	12.39	17.09	2294.52	84.31	16.16	110.05	305.35	17.10
59141	44.14	3.10	4.00	1857.34	62.05	15.33	135.11	17.68	15.83	2611.36	98.01	16.22	145.56	303.27	15.85
59142	45.54	3.10	4.00	1824.23	57.47	14.65	172.37	23.32	13.72	2978.28	114.65	16.35	181.61	299.67	13.72
59143	46.94	3.10	4.00	1781.90	51.12	13.72	208.22	29.37	10.80	3374.47	134.11	16.71	217.02	293.96	10.81
59144	48.34	3.10	4.00	1729.85	42.94	12.79	242.02	35.77	9.15	3783.86	156.84	17.92	250.87	285.31	9.28
59145	49.75	3.10	4.00	1667.87	33.75	12.70	273.06	42.07	13.92	4192.61	183.57	21.15	282.27	272.09	14.24
59146	51.15	3.10	4.00	1596.90	27.24	14.55	300.87	47.32	24.21	4586.06	214.32	27.17	310.55	251.13	24.62
59147	52.55	3.10	4.00	1519.64	30.15	18.22	325.35	50.21	36.19	4945.86	246.71	34.21	335.23	218.84	36.55
59148	53.96	3.10	4.00	1440.33	42.25	21.70	346.40	50.07	46.59	5253.22	276.56	35.17	355.82	176.96	46.72
59149	24.56	2.50	3.00	1290.72	16.41	113.23	295.40	186.80	81.88	4405.03	21.05	148.39	425.47	761.20	88.50
59150	25.96	2.50	3.00	1339.91	8.82	89.16	278.14	188.55	64.09	4109.11	8.17	131.83	436.89	884.22	71.99
59151	27.35	2.50	3.00	1388.03	11.17	65.91	258.21	178.42	42.34	3790.79	22.46	97.19	445.56	981.47	50.82
59152	28.75	2.50	3.00	1432.46	17.64	51.89	234.55	160.05	22.20	3462.19	30.05	69.45	449.70	1051.36	32.02
59153	30.15	2.50	3.00	1472.05	22.78	49.33	207.55	138.02	6.40	3128.98	33.91	56.79	450.42	1101.49	20.51
59154	31.54	2.50	3.00	1506.75	26.11	52.58	178.20	115.22	6.84	2796.65	35.33	54.99	448.70	1137.51	17.96
59155	32.94	2.50	3.00	1536.27	28.02	56.63	147.24	92.82	14.57	2474.42	35.04	57.21	445.48	1162.49	20.14
59156	34.34	2.50	3.00	1560.25	29.01	59.77	115.24	71.17	19.53	2175.02	33.76	59.84	441.65	1178.94	22.45
59157	35.73	2.50	3.00	1578.42	29.43	61.80	82.63	50.26	22.43	1915.70	32.10	61.79	438.00	1189.05	23.83
59158	37.13	2.50	3.00	1590.61	29.58	62.95	49.70	29.96	23.96	1719.25	30.61	62.95	435.18	1194.69	24.45
59159	38.53	2.50	3.00	1596.73	29.61	63.46	16.65	10.13	24.60	1611.50	29.73	63.46	433.65	1197.17	24.66
59160	39.92	2.50	3.00	1596.72	29.61	63.46	16.64	10.15	24.60	1611.50	29.73	63.46	433.65	1197.17	24.66
59161	41.32	2.50	3.00	1590.59	29.58	62.95	49.69	29.98	23.96	1719.25	30.61	62.95	435.18	1194.70	24.46
59162	42.72	2.50	3.00	1578.39	29.44	61.80	82.63	50.29	22.42	1915.71	32.10	61.79	438.00	1189.06	23.85
59163	44.11	2.50	3.00	1560.21	29.01	59.76	115.24	71.19	19.53	2175.03	33.77	59.84	441.66	1178.94	22.48
59164	45.51	2.50	3.00	1536.22	28.03	56.62	147.24	92.84	14.56	2474.44	35.04	57.19	445.50	1162.50	20.17
59165	46.91	2.50													

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
59193	24.33	3.95	4.00	1427.47	55.27	21.89	342.80	37.02	19.11	5238.06	253.82	29.46	344.42	116.11	38.10
59194	25.75	3.95	4.00	1507.80	44.44	16.45	324.24	37.38	17.30	4938.98	221.01	26.83	324.84	144.87	42.87
59195	27.17	3.95	4.00	1586.57	41.25	9.90	300.74	35.35	16.11	4586.32	192.64	20.76	300.76	169.30	39.96
59196	28.59	3.95	4.00	1659.60	47.00	5.26	272.45	31.33	15.65	4197.84	167.98	15.63	272.58	185.17	34.72
59197	30.01	3.95	4.00	1723.96	56.34	5.73	240.27	26.37	15.74	3791.68	147.15	13.31	241.19	194.81	30.01
59198	31.43	3.95	4.00	1778.37	65.15	8.17	205.47	21.36	16.07	3383.15	129.82	12.83	207.81	200.76	26.30
59199	32.84	3.95	4.00	1822.76	72.06	10.06	169.12	16.73	16.40	2986.63	115.33	12.87	173.58	204.48	23.37
59200	34.26	3.95	4.00	1857.54	76.96	11.24	131.95	12.53	16.66	2618.56	103.30	12.84	139.46	206.72	20.98
59201	35.68	3.95	4.00	1883.18	80.19	11.90	94.38	8.70	16.85	2300.09	93.78	12.70	106.52	207.96	19.10
59202	37.10	3.95	4.00	1900.04	82.12	12.24	56.66	5.13	16.96	2058.94	87.06	12.52	76.91	208.56	17.78
59203	38.52	3.95	4.00	1908.41	83.01	12.37	18.88	1.72	17.02	1926.65	83.56	12.40	56.52	208.78	17.11
59204	39.93	3.95	4.00	1908.40	83.01	12.37	18.90	1.72	17.02	1926.64	83.56	12.40	56.52	208.78	17.11
59205	41.35	3.95	4.00	1900.02	82.11	12.24	56.68	5.13	16.96	2058.93	87.06	12.52	76.92	208.56	17.79
59206	42.77	3.95	4.00	1883.14	80.19	11.90	94.40	8.71	16.85	2300.09	93.77	12.70	106.52	207.96	19.10
59207	44.19	3.95	4.00	1857.49	76.95	11.24	131.97	12.54	16.66	2618.56	103.30	12.85	139.47	206.72	20.98
59208	45.61	3.95	4.00	1822.70	72.04	10.06	169.14	16.73	16.40	2986.63	115.33	12.88	173.59	204.48	23.37
59209	47.02	3.95	4.00	1778.30	65.13	8.17	205.48	21.37	16.06	3383.15	129.82	12.84	207.82	200.76	26.31
59210	48.44	3.95	4.00	1723.87	56.32	5.72	240.29	26.38	15.74	3791.68	147.16	13.32	241.20	194.81	30.01
59211	49.86	3.95	4.00	1659.50	46.97	5.26	272.46	31.33	15.64	4197.85	168.00	15.65	272.59	185.17	34.73
59212	51.28	3.95	4.00	1586.46	41.23	9.91	300.75	35.36	16.11	4586.32	192.68	20.78	300.77	169.31	39.96
59213	52.70	3.95	4.00	1507.68	44.45	16.45	324.25	37.38	17.30	4939.00	221.07	26.85	324.86	144.88	42.88
59214	54.12	3.95	4.00	1427.35	55.29	21.90	342.81	37.02	19.11	5238.10	253.91	29.48	344.43	116.13	38.10
59215	24.08	5.05	4.00	1405.89	50.88	6.20	337.10	18.73	31.09	5222.33	198.14	6.19	362.63	39.86	51.95
59216	25.52	5.05	4.00	1488.49	51.08	4.45	321.00	18.49	21.25	4932.60	162.44	4.73	349.79	49.63	52.66
59217	26.97	5.05	4.00	1570.27	54.54	2.30	298.74	17.08	10.19	4589.69	140.86	3.45	328.09	61.71	49.02
59218	28.41	5.05	4.00	1646.81	59.66	0.73	270.56	14.76	4.54	4208.01	125.10	2.98	299.83	69.84	44.15
59219	29.85	5.05	4.00	1714.90	64.93	1.60	237.86	12.07	11.50	3805.15	112.32	3.47	267.51	74.21	40.39
59220	31.29	5.05	4.00	1772.95	69.53	2.62	202.50	9.45	17.71	3397.28	101.91	4.00	233.39	76.19	37.68
59221	32.73	5.05	4.00	1820.56	73.13	3.29	165.94	7.14	21.93	2999.77	93.73	4.30	199.31	76.89	35.29
59222	34.18	5.05	4.00	1857.97	75.73	3.70	129.00	5.19	24.60	2629.70	87.59	4.37	166.81	77.00	32.87
59223	35.62	5.05	4.00	1885.58	77.47	3.94	92.02	3.52	26.17	2308.73	83.27	4.31	137.61	76.85	30.53
59224	37.06	5.05	4.00	1903.76	78.52	4.06	55.15	2.04	27.03	2065.15	80.55	4.20	114.25	76.66	28.64
59225	38.50	5.05	4.00	1912.78	79.01	4.11	18.37	0.69	27.39	1931.32	79.24	4.13	100.66	76.54	27.58
59226	39.95	5.05	4.00	1912.78	79.01	4.11	18.40	0.69	27.39	1931.32	79.23	4.13	100.66	76.54	27.58
59227	41.39	5.05	4.00	1903.74	78.52	4.06	55.17	2.04	27.02	2065.15	80.54	4.20	114.27	76.66	28.65
59228	42.83	5.05	4.00	1885.54	77.46	3.94	92.05	3.52	26.17	2308.73	83.27	4.31	137.64	76.85	30.54
59229	44.27	5.05	4.00	1857.93	75.72	3.70	129.02	5.19	24.59	2629.71	87.59	4.38	166.85	77.00	32.88
59230	45.72	5.05	4.00	1820.50	73.12	3.29	165.97	7.14	21.93	2999.78	93.72	4.30	199.34	76.90	35.30
59231	47.16	5.05	4.00	1772.87	69.52	2.61	202.53	9.45	17.70	3397.28	101.91	4.00	233.42	76.19	37.69
59232	48.60	5.05	4.00	1714.81	64.92	1.60	237.88	12.07	11.49	3805.15	112.31	3.47	267.55	74.22	40.40
59233	50.04	5.05	4.00	1646.71	59.64	0.73	270.58	14.76	4.52	4208.01	125.10	2.98	299.87	69.85	44.18
59234	51.48	5.05	4.00	1570.17	54.53	2.30	298.76	17.08	10.19	4589.69	140.87	3.46	328.12	61.72	49.06
59235	52.93	5.05	4.00	1488.37	51.07	4.45	321.02	18.49	21.26	4932.62	162.47	4.73	349.83	49.64	52.70
59236	54.37	5.05	4.00	1405.77	50.86	6.20	337.12	18.73	31.11	5222.35	198.18	6.20	362.66	39.87	51.99
59237	23.83	6.15	4.00	1377.34	48.91	6.43	304.06	22.67	35.41	5237.73	133.97	10.04	445.63	49.58	46.33
59238	25.29	6.15	4.00	1466.05	49.00	4.24	289.77	23.01	25.91	4953.57	104.50	8.35	474.26	58.97	41.30
59239	26.76	6.15	4.00	1554.49	50.00	2.00	269.92	21.17	17.11	4614.76	88.11	6.70	487.19	69.50	39.83
59240	28.23	6.15	4.00	1637.15	51.64	1.68	244.79	18.07	14.80	4235.02	77.54	6.02	489.01	76.56	39.97
59241	29.69	6.15	4.00	1710.56	53.51	3.06	215.59	14.67	19.18	3831.73	70.12	5.95	484.44	80.37	40.57
59242	31.16	6.15	4.00	1773.12	55.26	4.20	183.94	11.53	24.49	3421.71	65.11	6.14	476.71	81.84	40.76
59243	32.63	6.15	4.00	1824.46	56.68	4.96	151.06	8.83	28.60	3021.21	62.03	6.23	467.86	81.98	40.11
59244	34.09	6.15	4.00	1864.78	57.73	5.42	117.67	6.50	31.37	2647.91	60.34	6.18	459.32	81.57	38.72
59245	35.56	6.15	4.00	1894.51	58.43	5.67	84.10	4.46	33.08	2323.89	59.54	6.07	452.08	81.03	37.01
59246	37.03	6.15	4.00	1914.08	58.85	5.80	50.47	2.61	34.04	2077.84	59.20	5.94	446.89	80.59	35.51
59247	38.49	6.15	4.00	1923.79	59.05	5.85	16.83	0.88	34.47	1942.59	59.09	5.87	444.19	80.36	34.63
59248	39.96	6.15	4.00	1923.77	59.05	5.85	16.86	0.88	34.47	1942.59	59.09	5.87	444.19	80.36	34.64
59249	41.42	6.15	4.00	1914.06	58.85	5.80	50.50	2.61	34.04	2077.85	59.20	5.94	446.90	80.59	35.51
59250	42.89	6.15	4.00	1894.48	58.43	5.67	84.13	4.46	33.08	2323.90	59.53	6.07	452.10	81.03	37.02
59251	44.36	6.15	4.00	1864.73	57.73	5.42	117.70	6.50	31.37	2647.93	60.34	6.19	459.34	81.57	38.73
59252	45.82	6.15	4.00	1824.40	56.68	4.96	151.09	8.83	28.59	3021.23	62.02	6.23	467.89	81.98	40.12
59253	47.29	6.15	4.00	1773.05	55.26	4.20	183.96	11.54	24.48	3421.72	65.09	6.14	476.74	81.84	40.77
59254	48.76	6.15	4.00	1710.47	53.51	3.06	215.62	14.67	19.17	3831.73	70.10	5.95	484.48	80.37	40.58
59255	50.22	6.15	4.00	1637.05	51.64	1.68	244.81	18.07	14.79	4235.02	77.52	6.03	489.06	76.56	39.99
59256	51.69	6.15	4.00	1554.39	50.00	2.00	269.94	21.17	17.12	4614.76	88.10	6.70	487.25	69.50	39.86
59257	53.16	6.15	4.00	1465.93	49.00	4.24	289.79	23.01	25.92	4953.58	104.50	8.35	474.32	58.97	41.34
59258	54.62	6.15	4.00	1377.21	48.90	6.43	304.07	22.68	35.43	5237.74	133.97	10.05	445.69	49.58	46.37
59259	23.57	7.25	4.00	1338.84	66.74	24.07	225.47	49.62	19.11	5281.03	78.69	24.15	428.96	136.15	20.28
59260	25.07	7.25	4.00	1438.67	52.59	17.68	213.18	50.28	17.72	5004.35	57.74	18.02	486.02	167.51	18.51
59261	26.56	7.25	4.00	1538.50	36.39	11.65	198.09	46.98	17.17	4665.20	37.59	14.13	524.46	191.40	19.70
59262	28.05	7.25	4.00	1630.89	23.24	10.03	180.25	41.18	17.45	4281.91	22.95	14.99	547.50	206.70	21.56
59263	29.54	7.25	4.00	1711.92	18.70	12.58	159.95	34.64	18.32	3873.81	19.99	17.86	560.42	215.99	22.73
59264	31.03														

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
59291	38.52	3.95	3.00	1582.44	22.16	43.23	20.22	4.53	39.66	1597.40	22.94	43.37	527.87	527.08	39.88
59292	39.93	3.95	3.00	1582.43	22.16	43.23	20.23	4.55	39.66	1597.40	22.95	43.38	527.87	527.08	39.88
59293	41.35	3.95	3.00	1575.73	22.00	42.66	60.70	13.64	39.30	1705.93	28.15	44.01	528.90	526.05	41.24
59294	42.77	3.95	3.00	1562.41	21.63	41.28	101.52	23.08	38.42	1903.19	35.66	45.04	530.64	523.64	43.73
59295	44.19	3.95	3.00	1542.60	21.00	38.55	142.79	33.04	36.70	2162.42	43.19	46.12	532.50	519.24	46.93
59296	45.61	3.95	3.00	1516.59	20.18	33.64	184.46	43.71	33.68	2460.16	49.48	46.89	533.72	512.00	50.46
59297	47.02	3.95	3.00	1484.79	19.86	25.53	226.17	55.16	28.79	2778.68	54.01	47.61	533.38	500.89	54.29
59298	48.44	3.95	3.00	1447.79	22.37	13.74	267.07	67.16	21.83	3104.99	57.14	50.31	530.46	484.62	59.23
59299	49.86	3.95	3.00	1406.25	31.11	12.21	305.42	78.81	15.97	3429.79	60.37	59.80	523.44	461.13	67.32
59300	51.28	3.95	3.00	1360.94	45.99	34.94	338.47	88.14	22.42	3747.26	64.69	79.24	510.20	426.52	79.62
59301	52.70	3.95	3.00	1313.49	62.98	61.83	363.94	92.76	38.17	4052.50	69.33	103.51	490.62	377.44	91.75
59302	54.12	3.95	3.00	1266.14	77.98	84.27	381.38	91.18	53.34	4339.78	77.45	115.00	469.03	316.24	91.40
59303	24.08	5.05	3.00	1245.93	51.35	8.21	331.87	13.46	20.72	4311.80	106.81	16.18	353.62	18.56	35.17
59304	25.52	5.05	3.00	1291.01	49.49	5.91	313.68	13.08	13.75	4033.40	85.27	11.44	336.47	25.89	38.13
59305	26.97	5.05	3.00	1338.49	48.27	3.54	290.72	11.83	6.28	3737.97	67.45	9.06	313.57	34.52	37.78
59306	28.41	5.05	3.00	1385.89	47.43	1.88	263.01	10.03	4.16	3429.43	55.21	6.78	286.02	40.78	35.64
59307	29.85	5.05	3.00	1431.02	47.00	1.83	231.35	8.02	9.64	3110.74	49.11	5.47	255.36	43.88	33.30
59308	31.29	5.05	3.00	1472.12	46.98	2.55	197.12	6.13	14.27	2787.88	47.20	4.81	223.34	44.88	31.19
59309	32.73	5.05	3.00	1507.84	47.16	3.16	161.61	4.53	17.46	2470.24	47.15	4.46	191.54	44.89	29.10
59310	34.18	5.05	3.00	1537.20	47.36	3.55	125.64	3.23	19.50	2171.15	47.51	4.25	161.40	44.51	26.87
59311	35.62	5.05	3.00	1559.58	47.49	3.77	89.62	2.16	20.73	1909.02	47.71	4.10	134.55	44.05	24.69
59312	37.06	5.05	3.00	1574.64	47.57	3.89	53.72	1.25	21.41	1708.42	47.69	4.00	113.35	43.68	22.90
59313	38.50	5.05	3.00	1582.20	47.60	3.94	18.03	0.43	21.71	1597.59	47.62	3.95	101.18	43.48	21.88
59314	39.95	5.05	3.00	1582.20	47.60	3.94	18.03	0.43	21.71	1597.60	47.62	3.95	101.18	43.48	21.88
59315	41.39	5.05	3.00	1574.62	47.57	3.89	53.73	1.25	21.41	1708.44	47.70	4.00	113.35	43.68	22.90
59316	42.83	5.05	3.00	1559.56	47.50	3.77	89.63	2.16	20.72	1909.05	47.71	4.10	134.56	44.05	24.69
59317	44.27	5.05	3.00	1537.16	47.36	3.55	125.65	3.23	19.49	2171.18	47.51	4.25	161.41	44.51	26.88
59318	45.72	5.05	3.00	1507.79	47.17	3.16	161.62	4.53	17.45	2470.27	47.16	4.46	191.55	44.89	29.10
59319	47.16	5.05	3.00	1472.06	46.99	2.55	197.12	6.13	14.26	2787.92	47.21	4.81	223.35	44.88	31.20
59320	48.60	5.05	3.00	1430.95	47.02	1.83	231.35	8.02	9.63	3110.79	49.12	5.47	255.38	43.88	33.31
59321	50.04	5.05	3.00	1385.80	47.44	1.88	263.02	10.03	4.14	3429.48	55.21	6.79	286.04	40.79	35.65
59322	51.48	5.05	3.00	1338.40	48.28	3.55	290.73	11.83	6.28	3738.02	67.44	9.07	313.58	34.52	37.80
59323	52.93	5.05	3.00	1290.91	49.51	5.91	313.69	13.08	13.77	4033.46	85.25	11.45	336.49	25.89	38.16
59324	54.37	5.05	3.00	1245.82	51.37	8.21	331.88	13.46	20.73	4311.88	106.78	16.19	353.64	18.56	35.21
59325	23.83	6.15	3.00	1224.30	37.85	8.60	307.92	14.65	24.67	4327.82	134.62	12.00	497.21	22.66	41.52
59326	25.29	6.15	3.00	1274.39	31.95	6.64	292.67	14.38	17.84	4057.70	119.36	7.69	514.47	28.86	38.96
59327	26.76	6.15	3.00	1327.87	38.51	4.52	272.43	12.83	12.00	3768.02	103.68	4.98	525.73	35.30	37.67
59328	28.23	6.15	3.00	1381.42	51.88	3.37	247.13	10.52	11.11	3462.39	92.21	3.33	533.15	39.87	36.46
59329	29.69	6.15	3.00	1432.45	64.49	3.44	217.72	8.09	14.75	3144.18	87.07	3.69	537.02	41.96	35.22
59330	31.16	6.15	3.00	1478.82	73.86	4.07	185.70	5.98	18.79	2819.97	85.99	4.64	538.01	42.26	33.86
59331	32.63	6.15	3.00	1518.98	80.01	4.69	152.36	4.30	21.85	2499.90	86.31	5.34	537.07	41.68	32.24
59332	34.09	6.15	3.00	1551.84	83.71	5.16	118.52	3.00	23.89	2197.87	86.77	5.69	535.16	40.83	30.40
59333	35.56	6.15	3.00	1576.79	85.74	5.47	84.59	1.97	25.15	1932.81	87.04	5.80	533.08	40.05	28.58
59334	37.03	6.15	3.00	1593.52	86.75	5.66	50.76	1.12	25.85	1729.79	87.15	5.79	531.41	39.49	27.12
59335	38.49	6.15	3.00	1601.90	87.15	5.74	17.16	0.38	26.16	1617.57	87.19	5.76	530.49	39.20	26.30
59336	39.96	6.15	3.00	1601.89	87.15	5.74	17.17	0.38	26.16	1617.58	87.19	5.76	530.49	39.20	26.30
59337	41.42	6.15	3.00	1593.49	86.75	5.66	50.76	1.12	25.85	1729.81	87.16	5.79	531.41	39.49	27.12
59338	42.89	6.15	3.00	1576.76	85.74	5.47	84.60	1.97	25.14	1932.85	87.04	5.80	533.09	40.05	28.59
59339	44.36	6.15	3.00	1551.80	83.71	5.16	118.53	3.00	23.89	2197.92	86.77	5.69	535.18	40.83	30.40
59340	45.82	6.15	3.00	1518.93	80.01	4.69	152.37	4.30	21.85	2499.95	86.32	5.34	537.09	41.68	32.25
59341	47.29	6.15	3.00	1478.76	73.86	4.06	185.71	5.98	18.78	2820.02	86.00	4.64	538.03	42.27	33.87
59342	48.76	6.15	3.00	1432.37	64.48	3.44	217.73	8.09	14.74	3144.23	87.08	3.69	537.05	41.96	35.23
59343	50.22	6.15	3.00	1381.35	51.87	3.37	247.14	10.52	11.10	3462.44	92.22	3.33	533.19	39.87	36.47
59344	51.69	6.15	3.00	1327.78	38.49	4.52	272.44	12.84	12.00	3768.07	103.69	4.97	525.77	35.30	37.69
59345	53.16	6.15	3.00	1274.29	31.93	6.64	292.69	14.38	17.85	4057.77	119.37	7.69	514.51	28.87	38.99
59346	54.62	6.15	3.00	1224.19	37.85	8.60	307.94	14.65	24.69	4327.89	134.63	12.00	497.26	22.66	41.56
59347	23.57	7.25	3.00	1203.77	70.19	85.82	332.52	122.13	67.74	4410.35	132.28	85.26	846.51	372.43	71.44
59348	25.07	7.25	3.00	1265.94	35.10	61.46	324.24	123.79	50.04	4149.08	113.02	61.00	932.52	442.53	55.66
59349	26.56	7.25	3.00	1331.79	23.34	38.08	305.92	116.74	35.52	3861.25	104.71	43.59	1003.17	494.14	49.78
59350	28.05	7.25	3.00	1396.73	55.81	29.98	278.55	104.10	33.49	3551.52	108.01	45.15	1060.17	530.89	53.49
59351	29.54	7.25	3.00	1457.46	85.16	38.77	245.16	89.39	40.97	3226.17	117.87	56.38	1103.86	555.80	60.32
59352	31.03	7.25	3.00	1511.76	105.82	50.11	208.72	74.50	49.30	2893.72	127.05	66.02	1134.93	571.80	65.48
59353	32.52	7.25	3.00	1558.02	119.01	58.92	171.01	60.07	55.66	2565.76	132.61	71.57	1155.51	581.36	67.84
59354	34.01	7.25	3.00	1595.35	126.82	64.87	132.90	46.16	59.91	2257.06	134.87	73.56	1168.34	586.67	67.97
59355	35.50	7.25	3.00	1623.37	131.11	68.55	94.81	32.68	62.51	1987.02	135.15	73.40	1175.88	589.39	66.89
59356	36.99	7.25	3.00	1642.01	133.24	70.59	56.89	19.51	63.95	1780.89	134.67	72.44	1179.95	590.65	65.59
59357	38.48	7.25	3.00	1651.31	134.09	71.49	19.32	6.56	64.57	1667.26	134.25	71.70	1181.71	591.13	64.76
59358	39.97	7.25	3.00	1651.30	134.09	71.49	19.34	6.58	64.57	1667.28	134.25	71.71	1181.71	591.13	64.76
59359	41.46	7.25	3.00	1642.00	133.24	70.59	56.91	19.52	63.94	1780.93	134.68	72.45	1179.95	590.65	65.59
59360	42.95	7.25	3.00	1623.34	131.10	68.54	94.83	32.70	62.51	1987.07	135.16	73.41	1175.88	589.39	66.90
59361	44.44	7.25	3.00	1595.31	126.81	64.86	132.92	46.18	59.91	2257.12	134.89	73.58	1168.35	586.67	67.98

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{zx}$ [kPa]
59389	39.98	8.10	4.00	1962.01	31.35	18.47	7.92	3.77	31.52	1981.34	31.54	18.50	419.73	363.69	31.59
59390	39.99	8.70	4.00	1978.09	8.08	22.39	2.77	4.39	25.28	1997.71	8.14	22.47	154.40	433.98	25.35
59391	38.47	8.10	4.00	1962.01	31.35	18.47	7.90	3.75	31.52	1981.33	31.53	18.50	419.73	363.69	31.59
59392	38.46	8.70	4.00	1978.10	8.08	22.39	2.76	4.37	25.28	1997.69	8.14	22.47	154.40	433.98	25.34
59393	36.96	8.10	4.00	1951.09	30.58	18.30	23.59	11.26	31.07	2119.49	32.19	18.54	419.96	363.69	31.70
59394	36.93	8.70	4.00	1966.63	7.85	22.15	8.23	13.04	24.91	2137.47	8.35	22.89	154.52	434.17	25.49
59395	35.44	8.10	4.00	1928.96	28.85	17.92	38.90	18.76	30.00	2371.15	33.06	18.54	420.08	363.42	31.70
59396	35.39	8.70	4.00	1943.39	7.34	21.56	13.51	21.51	24.06	2392.03	8.65	23.59	154.62	434.11	25.59
59397	33.93	8.10	4.00	1895.12	25.78	17.27	53.58	26.29	28.03	2703.12	33.37	18.32	419.47	362.32	31.16
59398	33.86	8.70	4.00	1907.73	6.46	20.35	18.45	29.73	22.47	2727.63	8.80	24.26	154.44	432.99	25.28
59399	32.42	8.10	4.00	1848.78	20.85	16.29	67.37	33.90	24.70	3086.03	32.25	17.66	417.31	359.57	29.50
59400	32.33	8.70	4.00	1858.68	5.10	18.14	22.95	37.72	19.78	3114.27	8.57	24.53	153.63	429.72	24.05
59401	30.91	8.10	4.00	1788.97	13.53	14.97	80.03	41.67	19.47	3496.87	29.20	16.36	412.65	354.08	26.22
59402	30.79	8.70	4.00	1795.01	3.24	14.44	26.90	45.68	15.55	3528.31	7.85	24.10	151.87	423.06	21.47
59403	29.39	8.10	4.00	1714.75	5.09	13.49	91.44	49.71	11.93	3916.93	25.07	14.44	404.28	344.46	21.52
59404	29.26	8.70	4.00	1715.46	2.22	8.91	30.30	53.87	9.47	3950.36	6.96	23.60	148.68	411.31	17.56
59405	27.88	8.10	4.00	1625.76	13.20	12.54	101.64	57.85	4.06	4329.08	24.27	12.62	390.36	328.59	18.10
59406	27.73	8.70	4.00	1619.53	5.03	4.92	33.28	62.31	3.57	4362.35	7.11	25.77	143.34	391.00	14.31
59407	26.37	8.10	4.00	1523.40	29.68	13.37	111.02	65.16	12.91	4714.53	32.44	13.65	367.65	302.74	21.77
59408	26.19	8.70	4.00	1508.93	9.43	13.09	36.21	70.09	11.15	4743.18	9.64	33.62	134.43	355.36	16.77
59409	24.85	8.10	4.00	1412.51	47.12	16.48	120.36	69.72	26.00	5050.40	46.93	19.38	332.23	262.07	31.58
59410	24.66	8.70	4.00	1389.50	14.31	23.88	39.72	75.33	21.87	5066.52	14.21	44.99	119.64	297.22	24.65
59411	23.34	8.10	4.00	1302.27	61.89	20.38	130.01	69.80	36.65	5313.64	61.42	23.49	283.71	206.39	40.40
59412	23.13	8.70	4.00	1271.96	18.44	31.59	44.06	75.86	30.64	5310.11	18.39	49.75	99.17	222.85	33.43
59413	55.11	8.10	3.00	1173.53	20.42	102.00	165.09	234.77	51.31	4474.37	42.46	121.05	478.29	768.31	57.51
59414	55.32	8.70	3.00	1136.41	2.52	123.74	48.04	231.78	61.39	4468.81	12.46	210.35	145.68	783.73	63.87
59415	53.60	8.10	3.00	1250.77	9.30	75.72	159.40	235.80	40.37	4226.87	36.96	92.32	536.20	924.25	46.85
59416	53.79	8.70	3.00	1225.32	3.12	94.86	44.63	230.42	47.86	4241.78	11.10	187.25	160.81	978.11	50.49
59417	52.08	8.10	3.00	1330.56	14.16	53.63	150.85	222.57	26.09	3937.75	36.35	56.49	584.75	1042.44	34.71
59418	52.26	8.70	3.00	1315.73	5.63	54.84	48.14	217.40	30.97	3957.23	9.98	142.80	174.19	1131.57	36.80
59419	50.57	8.10	3.00	1406.43	27.25	45.97	138.39	200.33	12.55	3621.08	40.63	46.01	624.00	1125.15	26.91
59420	50.72	8.70	3.00	1399.85	8.07	16.25	39.23	197.21	16.64	3638.46	10.60	109.28	186.51	1235.28	30.17
59421	49.06	8.10	3.00	1475.00	37.87	51.86	122.95	174.53	2.36	3286.97	46.05	57.33	654.54	1181.84	25.33
59422	49.19	8.70	3.00	1473.71	9.92	16.70	35.44	173.74	11.90	3301.28	11.44	95.09	196.99	1303.70	31.45
59423	47.55	8.10	3.00	1534.73	44.99	61.49	105.74	147.74	8.33	2945.69	50.24	70.02	676.51	1219.65	26.40
59424	47.66	8.70	3.00	1536.38	11.09	38.03	31.01	149.01	17.44	2957.10	11.98	90.32	204.79	1349.10	34.83
59425	46.03	8.10	3.00	1584.71	49.26	69.87	87.44	120.79	14.64	2610.12	52.61	78.43	691.27	1243.44	27.28
59426	46.12	8.70	3.00	1587.89	11.74	52.04	26.04	123.46	23.76	2618.88	12.26	86.51	210.15	1378.00	36.95
59427	44.52	8.10	3.00	1624.53	51.60	75.94	68.48	93.88	18.91	2295.71	53.58	82.61	700.56	1257.37	27.08
59428	44.59	8.70	3.00	1628.56	12.05	60.52	20.65	97.12	28.37	2302.41	12.32	81.55	213.63	1394.89	37.23
59429	43.01	8.10	3.00	1654.20	52.76	79.88	49.14	67.03	21.57	2022.00	53.75	83.89	706.02	1264.82	26.02
59430	43.06	8.70	3.00	1658.72	12.16	65.27	14.95	70.02	31.34	2027.50	12.29	76.15	215.71	1403.60	36.26
59431	41.49	8.10	3.00	1673.84	53.27	82.18	29.59	40.23	23.07	1814.00	53.62	83.77	708.94	1268.38	24.77
59432	41.52	8.70	3.00	1678.66	12.18	67.68	9.05	42.29	33.04	1819.04	12.23	71.65	216.83	1407.38	34.92
59433	39.98	8.10	3.00	1683.62	53.45	83.21	10.04	13.52	23.74	1699.71	53.49	83.40	710.19	1269.74	23.94
59434	39.99	8.70	3.00	1688.58	12.18	68.67	3.08	14.17	33.80	1704.69	12.19	69.11	217.31	1408.65	34.02
59435	38.47	8.10	3.00	1683.62	53.45	83.21	10.02	13.48	23.74	1699.70	53.49	83.40	710.18	1269.74	23.93
59436	38.46	8.70	3.00	1688.59	12.18	68.67	3.07	14.12	33.80	1704.67	12.19	69.10	217.31	1408.64	34.01
59437	36.96	8.10	3.00	1673.86	53.27	82.18	29.58	40.19	23.08	1813.96	53.62	83.76	708.94	1268.38	24.75
59438	36.93	8.70	3.00	1678.68	12.18	67.69	9.05	42.24	33.04	1819.01	12.23	71.62	216.83	1407.38	34.91
59439	35.44	8.10	3.00	1654.23	52.77	79.89	49.12	66.99	21.57	2021.94	53.75	83.88	706.02	1264.82	26.00
59440	35.39	8.70	3.00	1658.75	12.16	65.28	14.94	69.97	31.34	2027.45	12.29	76.11	215.71	1403.60	36.24
59441	33.93	8.10	3.00	1624.57	51.60	75.95	68.46	93.84	18.91	2295.64	53.58	82.59	700.56	1257.36	27.05
59442	33.86	8.70	3.00	1628.60	12.05	60.53	20.64	97.07	28.38	2302.36	12.32	81.50	213.63	1394.89	37.21
59443	32.42	8.10	3.00	1584.76	49.26	69.88	87.42	120.75	14.65	2610.06	52.61	78.42	691.26	1243.44	27.25
59444	32.33	8.70	3.00	1587.93	11.74	52.06	26.04	123.41	23.77	2618.82	12.26	86.46	210.15	1378.00	36.92
59445	30.91	8.10	3.00	1534.80	45.00	61.50	105.72	147.70	8.34	2945.63	50.23	70.01	676.50	1219.64	26.36
59446	30.79	8.70	3.00	1536.44	11.09	38.06	31.00	148.97	17.46	2957.05	11.98	90.26	204.79	1349.09	34.80
59447	29.39	8.10	3.00	1475.07	37.87	51.87	122.94	174.49	2.40	3286.91	46.05	57.32	654.53	1181.82	25.29
59448	29.26	8.70	3.00	1473.77	9.92	16.75	35.43	173.70	11.92	3301.24	11.44	95.02	196.98	1303.69	31.41
59449	27.88	8.10	3.00	1406.51	27.26	45.99	138.38	200.30	12.55	3621.04	40.62	46.01	623.97	1125.12	26.86
59450	27.73	8.70	3.00	1399.92	8.07	16.25	39.23	197.17	16.64	3638.43	10.60	109.20	186.51	1235.25	30.12
59451	26.37	8.10	3.00	1330.65	14.18	53.63	150.84	222.53	26.08	3937.71	36.34	56.50	584.72	1042.39	34.67
59452	26.19	8.70	3.00	1315.81	5.63	54.81	42.14	217.37	30.96	3957.21	9.98	142.72	174.18	1131.52	36.76
59453	24.85	8.10	3.00	1250.87	9.32	75.70	159.39	235.77	40.35	4226.83	36.94	92.34	536.16	924.19	46.81
59454	24.66	8.70	3.00	1225.42	3.12	94.82	44.63	230.39	47.84	4241.77	11.10	187.15	160.80	978.04	50.45
59455	23.34	8.10	3.00	1173.64	20.41	101.96	165.07	234.74	51.29	4474.33	42.43	121.36	478.24	768.23	57.47
59456	23.13	8.70	3.00	1136.51	2.53	123.69	48.04	231.75	61.37	4468.79	12.45	209.95	145.66	784.64	63.83
59457	56.72	-8.70	4.00	1177.80	20.63	34.47	48.14	72.30	35.21	5481.17	20.64	52.32	83.75	149.78	38.97
59458	57.97	-8.70	4.00	1111.90	21.84	33.14	52.15	64.74	34.83	5559.31	22.60	36.64	69.75	117.09	36.61
59459	59.22	-8.70	4.00	1089.12	20.54	29.38									



Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{yz}$ [kPa]	$\tau_{xz}$ [kPa]
59487	58.30	-6.17	4.00	1198.66	60.64	7.58	310.90	21.96	42.08	5831.54	359.35	22.36	336.54	86.19	97.00
59488	58.64	-7.26	4.00	1151.28	72.53	28.26	240.83	35.98	22.58	5797.42	168.99	36.59	270.48	94.76	101.39
59489	58.86	-3.96	4.00	1192.32	111.16	28.24	364.18	32.89	30.96	6159.01	541.15	28.89	364.05	182.30	47.72
59490	59.14	-5.08	4.00	1184.40	91.75	15.01	333.66	32.84	49.00	6117.11	597.40	51.83	335.73	121.90	60.19
59491	59.47	-6.18	4.00	1154.28	75.88	15.89	295.71	31.91	47.87	6044.57	511.37	34.50	311.07	100.48	151.28
59492	59.85	-7.26	4.00	1121.28	66.11	29.38	236.90	32.26	30.99	5980.07	286.85	41.43	242.20	123.84	175.92
59493	60.02	-3.96	4.00	1225.95	176.51	203.29	315.42	167.21	38.91	7044.62	938.32	1116.74	318.73	1217.14	78.14
59494	60.30	-5.08	4.00	1196.66	151.08	194.80	274.04	153.85	52.50	6853.51	948.97	1006.20	287.34	1071.06	157.51
59495	60.65	-6.19	4.00	1161.91	130.06	184.40	235.41	147.07	61.70	6664.39	860.60	937.52	276.84	996.59	258.68
59496	61.06	-7.27	4.00	1145.71	109.69	175.77	198.34	143.51	62.64	6551.96	673.90	885.54	198.40	972.57	300.73
59497	55.38	-3.95	3.00	1223.74	88.79	96.29	391.00	85.42	62.95	4546.22	99.81	117.91	453.66	267.24	74.87
59498	55.64	-5.05	3.00	1205.28	54.68	9.91	344.42	13.00	25.72	4501.19	117.36	10.07	361.63	21.81	30.83
59499	55.92	-6.15	3.00	1181.39	47.31	10.68	317.97	14.04	29.74	4507.02	134.99	13.40	471.79	26.83	47.03
59500	56.20	-7.25	3.00	1154.34	94.25	100.28	333.18	113.20	80.00	4591.05	147.35	100.01	750.52	306.87	90.52
59501	56.48	-3.95	3.00	1191.99	98.71	100.06	397.15	78.79	68.15	4704.60	146.37	101.13	446.01	245.40	65.71
59502	56.75	-5.06	3.00	1178.09	60.06	9.32	352.57	12.31	29.07	4651.18	134.10	9.81	364.78	41.50	30.83
59503	57.04	-6.16	3.00	1154.77	53.98	10.13	323.58	13.42	32.16	4650.74	142.94	13.94	441.99	44.88	59.51
59504	57.35	-7.26	3.00	1124.51	105.51	105.52	329.28	101.96	84.21	4731.27	172.79	113.23	645.78	252.19	120.03
59505	57.58	-3.96	3.00	1162.70	120.12	101.06	403.00	69.37	76.63	4804.32	214.64	99.43	448.63	273.67	93.56
59506	57.86	-5.07	3.00	1156.71	71.35	12.76	355.92	11.32	31.51	4730.73	151.55	51.24	360.66	98.83	39.54
59507	58.16	-6.17	3.00	1136.04	61.08	14.54	325.58	13.10	32.29	4724.98	158.45	55.13	393.24	91.26	90.14
59508	58.51	-7.26	3.00	1107.13	110.21	101.33	326.29	89.50	85.42	4826.88	220.09	129.35	513.24	224.25	192.30
59509	58.68	-3.96	3.00	1137.45	158.35	104.89	400.02	48.80	84.68	4811.24	305.92	203.78	460.23	425.83	119.60
59510	58.96	-5.08	3.00	1150.32	87.91	16.43	354.28	20.81	26.29	4711.02	194.55	8.00	352.49	236.74	73.93
59511	59.29	-6.18	3.00	1126.69	73.26	17.07	324.88	21.12	29.12	4697.79	209.14	10.11	336.11	209.99	130.12
59512	59.66	-7.26	3.00	1093.25	121.46	104.08	323.65	73.07	91.31	4833.06	329.50	256.08	358.82	285.54	301.82
59513	59.79	-3.96	3.00	1073.71	173.06	239.49	399.40	120.83	161.47	4345.90	432.71	926.84	539.56	177.84	160.06
59514	60.07	-5.08	3.00	1133.20	132.98	232.42	380.41	141.54	133.30	4327.86	328.54	768.85	426.91	196.24	170.15
59515	60.41	-6.19	3.00	1105.33	105.92	210.58	334.50	130.66	123.35	4341.62	309.06	710.09	359.70	197.59	197.89
59516	60.82	-7.27	3.00	1018.39	112.88	217.57	289.38	130.18	137.56	4375.27	403.05	772.14	292.31	100.75	328.28
59517	55.16	-2.50	4.00	1381.90	62.97	26.80	375.17	48.06	50.62	5515.59	300.10	30.19	401.95	144.26	50.61
59518	55.23	-3.10	4.00	1373.43	57.14	23.64	362.83	46.67	53.04	5513.39	301.60	33.15	371.79	141.34	53.12
59519	56.31	-2.50	4.00	1318.87	76.42	28.58	388.51	44.47	52.78	5699.47	320.41	28.91	407.25	127.48	53.17
59520	56.38	-3.10	4.00	1309.60	72.97	25.18	376.39	43.10	54.95	5691.49	321.12	23.68	383.50	125.56	56.42
59521	57.46	-2.50	4.00	1254.11	98.37	32.34	402.32	41.70	48.92	5892.44	362.36	69.93	415.52	141.30	56.75
59522	57.54	-3.10	4.00	1245.54	94.30	28.80	389.88	39.78	50.61	5879.89	362.78	55.31	394.80	141.70	56.49
59523	58.60	-2.50	4.00	1194.88	133.89	30.78	406.32	26.17	22.75	6187.26	454.53	71.09	421.06	229.25	65.83
59524	58.69	-3.10	4.00	1189.29	127.52	28.21	393.18	27.39	23.94	6170.98	455.77	56.37	397.56	226.76	24.51
59525	59.75	-2.50	4.00	1258.94	207.41	211.83	371.80	184.30	15.46	7219.09	928.38	1239.96	395.18	1358.51	134.34
59526	59.84	-3.10	4.00	1248.80	200.06	207.14	356.85	178.42	22.47	7174.67	907.91	1209.83	367.30	1327.39	91.61
59527	55.13	-2.50	3.00	1247.96	27.29	128.35	307.89	175.51	90.78	4634.62	61.03	141.56	413.68	643.16	94.07
59528	55.21	-3.10	3.00	1236.85	28.04	114.04	288.79	162.03	94.99	4616.96	59.30	160.82	296.65	604.03	95.25
59529	56.23	-2.50	3.00	1214.27	40.26	136.32	316.41	161.11	91.22	4800.82	121.57	142.06	401.35	557.32	90.75
59530	56.31	-3.10	3.00	1201.00	38.77	119.80	297.69	148.13	95.59	4773.96	115.90	114.86	302.81	524.59	99.60
59531	57.33	-2.50	3.00	1183.76	58.01	141.22	325.84	143.86	81.49	4923.01	194.72	244.62	390.59	526.89	92.74
59532	57.41	-3.10	3.00	1166.94	57.83	123.83	308.31	130.52	85.31	4884.10	183.02	175.91	312.99	506.65	103.60
59533	58.43	-2.50	3.00	1145.30	95.16	174.29	347.04	110.26	44.33	4976.10	324.05	607.15	382.99	642.48	131.52
59534	58.51	-3.10	3.00	1127.82	99.24	156.27	327.27	96.11	45.51	4933.88	292.52	517.56	335.48	634.41	79.65
59535	59.52	-2.50	3.00	974.52	147.46	269.68	348.68	96.16	89.00	4306.60	440.54	1250.40	360.28	546.09	183.73
59536	59.61	-3.10	3.00	974.33	144.67	256.00	332.61	96.60	86.30	4306.50	408.51	1180.45	394.39	522.79	85.85
59537	55.12	1.65	4.00	1393.56	75.75	26.68	400.30	37.78	18.99	5500.55	324.75	27.86	438.72	104.56	20.03
59538	55.11	0.55	4.00	1403.59	68.63	7.17	428.40	20.12	36.78	5480.07	358.96	8.83	438.68	44.65	37.24
59539	55.11	-0.55	4.00	1403.59	68.64	7.17	428.39	20.12	36.78	5480.07	358.93	8.83	438.65	44.64	37.25
59540	55.12	-1.65	4.00	1393.56	75.78	26.68	400.30	37.77	18.98	5500.57	324.64	27.85	438.68	104.54	20.05
59541	56.26	1.65	4.00	1333.81	86.65	28.60	409.64	35.00	20.03	5693.78	379.06	28.65	434.94	104.72	46.02
59542	56.24	0.55	4.00	1348.05	80.08	7.62	433.59	19.09	39.65	5682.87	456.52	12.50	440.38	68.32	46.73
59543	56.24	-0.55	4.00	1348.05	80.09	7.62	433.58	19.09	39.65	5682.87	456.48	12.49	440.36	68.31	46.78
59544	56.26	-1.65	4.00	1333.81	86.68	28.59	409.62	35.00	20.03	5693.80	378.93	28.65	434.91	104.71	46.09
59545	57.39	1.65	4.00	1273.86	102.41	29.61	416.93	34.62	21.18	5909.22	462.81	37.76	435.08	133.74	95.94
59546	57.36	0.55	4.00	1295.14	96.75	9.40	434.61	23.61	38.49	5926.82	592.30	29.05	439.76	115.68	63.85
59547	57.36	-0.55	4.00	1295.13	96.77	9.39	434.60	23.60	38.48	5926.83	592.27	29.04	439.75	115.69	63.92
59548	57.39	-1.65	4.00	1273.86	102.45	29.60	416.89	34.61	21.17	5909.26	462.68	37.78	435.04	133.78	96.01
59549	58.53	1.65	4.00	1219.93	131.62	30.85	413.32	31.95	29.84	6236.53	590.30	32.30	435.68	195.54	140.67
59550	58.48	0.55	4.00	1247.01	124.93	15.72	426.99	34.38	49.22	6284.29	758.47	63.45	432.89	151.85	86.23
59551	58.48	-0.55	4.00	1247.02	124.94	15.72	426.97	34.38	49.20	6284.30	758.44	63.45	432.88	151.88	86.28
59552	58.53	-1.65	4.00	1219.94	131.65	30.84	413.28	31.94	29.81	6236.64	590.19	32.30	435.64	195.64	140.71
59553	59.66	-1.65	4.00	1266.39	202.76	218.26	371.30	185.85	24.55	7225.44	1048.11	1208.43	408.17	1316.58	169.08
59554	59.61	0.55	4.00	1278.11	199.94	221.12	379.37	183.05	31.76	7223.02	1181.90	1155.56	388.65	1236.65	81.93
59555	59.61	-0.55	4.00	1278.12	199.95	221.12	379.36	183.05	31.72	7223.13	1181.87	1155.56	388.65	1236.68	81.90
59556</															

Elemento	X [m]	Y [m]	Z [m]	Cross beam stiffness K=0						Cross beam stiffness K=∞					
				$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]	$\sigma_{xx}$ [kPa]	$\sigma_{yy}$ [kPa]	$\sigma_{zz}$ [kPa]	$\tau_{xy}$ [kPa]	$\tau_{xz}$ [kPa]	$\tau_{yz}$ [kPa]
59585	59.84	3.10	4.00	1248.76	200.02	207.18	356.90	178.43	22.48	7174.27	907.96	1209.95	367.37	1327.28	91.79
59586	59.75	2.50	4.00	1258.90	207.38	211.85	371.84	184.31	15.51	7218.74	928.50	1239.99	395.24	1358.38	134.47
59587	55.21	3.10	3.00	1236.85	28.02	114.05	288.81	162.05	95.00	4616.72	59.28	160.93	296.64	603.90	95.26
59588	55.13	2.50	3.00	1247.95	27.31	128.36	307.91	175.53	90.79	4634.42	61.00	141.61	413.72	643.13	94.10
59589	56.31	3.10	3.00	1201.00	38.75	119.80	297.71	148.14	95.60	4773.65	115.90	114.90	302.81	524.41	99.60
59590	56.23	2.50	3.00	1214.26	40.28	136.33	316.43	161.13	91.23	4800.56	121.52	141.99	401.41	557.25	90.76
59591	57.41	3.10	3.00	1166.92	57.81	123.83	308.34	130.54	85.33	4883.71	183.03	175.84	312.98	506.40	103.57
59592	57.33	2.50	3.00	1183.75	58.03	141.25	325.87	143.90	81.50	4922.70	194.66	244.40	390.66	526.73	92.74
59593	58.51	3.10	3.00	1127.81	99.21	156.27	327.32	96.14	45.51	4933.46	292.50	517.48	335.47	634.10	79.60
59594	58.43	2.50	3.00	1145.29	95.19	174.36	347.08	110.31	44.31	4975.80	324.00	606.94	383.08	642.20	131.52
59595	59.61	3.10	3.00	974.32	144.67	256.03	332.69	96.64	86.44	4306.08	408.59	1180.65	394.32	522.51	85.95
59596	59.52	2.50	3.00	974.51	147.48	269.74	348.74	96.20	89.16	4306.32	440.61	1250.39	360.35	545.81	183.90
59597	56.22	7.25	4.00	1260.39	75.08	27.83	233.55	45.16	20.61	5512.99	101.86	27.83	372.24	109.07	28.93
59598	55.94	6.15	4.00	1307.19	50.91	7.52	312.07	20.38	41.71	5485.94	185.60	7.71	412.63	47.72	53.64
59599	55.67	5.05	4.00	1339.30	55.01	7.47	347.06	17.68	37.48	5473.70	256.48	11.45	368.47	39.37	45.71
59600	55.40	3.95	4.00	1360.74	67.54	24.94	356.16	34.34	20.98	5493.27	294.56	32.68	359.12	95.94	23.29
59601	57.43	7.26	4.00	1198.01	76.77	29.25	238.09	39.74	21.73	5654.79	123.98	29.82	314.70	93.56	55.70
59602	57.12	6.16	4.00	1248.57	54.17	7.74	314.21	18.35	44.47	5653.76	253.77	10.56	371.78	61.58	69.80
59603	56.83	5.06	4.00	1280.63	61.31	7.90	351.34	16.45	41.28	5648.39	333.34	15.11	363.68	59.28	43.01
59604	56.56	3.95	4.00	1298.77	77.88	26.58	365.87	31.46	22.80	5668.26	341.72	28.32	368.23	96.71	24.53
59605	58.64	7.26	4.00	1151.30	72.52	28.25	240.88	36.00	22.58	5796.97	168.91	36.59	270.47	94.72	101.41
59606	58.30	6.17	4.00	1198.67	60.64	7.58	310.97	21.97	42.07	5831.05	359.37	22.39	336.58	86.20	97.06
59607	57.99	5.07	4.00	1229.33	71.47	10.36	348.94	20.00	41.40	5846.95	446.59	31.11	353.34	98.12	41.08
59608	57.71	3.96	4.00	1240.66	89.00	27.96	371.46	30.09	25.21	5863.05	417.77	27.68	372.31	127.64	52.80
59609	59.85	7.26	4.00	1121.28	66.12	29.37	236.96	32.30	30.98	5979.50	286.74	41.43	242.22	123.75	175.84
59610	59.47	6.18	4.00	1154.27	75.88	15.90	295.78	31.93	47.86	6043.94	511.25	34.52	311.13	100.41	151.24
59611	59.14	5.08	4.00	1184.38	91.72	15.01	333.73	32.86	49.00	6116.54	597.31	51.86	335.81	121.82	60.19
59612	58.86	3.96	4.00	1192.30	111.14	28.24	364.25	32.91	30.96	6158.61	541.13	28.89	364.12	182.18	47.71
59613	61.06	7.27	4.00	1145.67	109.68	175.80	198.42	143.54	62.62	6551.38	673.69	885.80	198.34	972.65	300.51
59614	60.65	6.19	4.00	1161.87	130.02	184.47	235.49	147.09	61.67	6663.87	860.34	937.93	276.84	996.71	258.58
59615	60.30	5.08	4.00	1196.63	151.03	194.89	274.10	153.86	52.49	6852.99	948.74	1006.62	287.41	1071.12	157.58
59616	60.02	3.96	4.00	1225.90	176.47	203.36	315.47	167.21	38.92	7044.10	938.24	1117.01	318.79	1217.11	78.33
59617	56.20	7.25	3.00	1154.32	94.20	100.25	333.24	113.21	79.99	4590.66	147.59	100.00	750.29	306.75	90.56
59618	55.92	6.15	3.00	1181.37	47.26	10.67	318.03	14.03	29.74	4506.56	135.21	13.41	471.75	26.82	47.07
59619	55.64	5.05	3.00	1205.26	54.65	9.91	344.48	13.00	25.72	4500.77	117.47	10.07	361.70	21.80	30.86
59620	55.38	3.95	3.00	1223.73	88.76	96.29	391.05	85.43	62.95	4545.90	99.79	117.96	453.59	267.16	74.92
59621	57.35	7.26	3.00	1124.48	105.45	105.49	329.36	101.98	84.19	4730.75	173.09	113.25	645.55	252.08	120.12
59622	57.04	6.16	3.00	1154.73	53.93	10.13	323.66	13.42	32.16	4650.14	143.22	13.94	441.97	44.88	59.56
59623	56.75	5.06	3.00	1178.05	60.02	9.32	352.63	12.31	29.07	4650.61	134.29	9.81	364.86	41.49	30.85
59624	56.48	3.95	3.00	1191.97	98.68	100.06	397.20	78.80	68.15	4704.18	146.43	101.15	445.94	245.29	65.72
59625	58.51	7.26	3.00	1107.10	110.14	101.29	326.39	89.54	85.40	4826.21	220.35	129.39	513.04	224.16	192.41
59626	58.16	6.17	3.00	1135.99	61.03	14.54	325.66	13.10	32.28	4724.19	158.72	55.14	393.24	91.28	90.19
59627	57.86	5.07	3.00	1156.65	71.31	12.76	356.00	11.33	31.51	4729.98	151.76	51.23	360.75	98.84	39.56
59628	57.58	3.96	3.00	1162.67	120.09	101.07	403.07	69.38	76.64	4803.76	214.75	99.45	448.55	273.54	93.57
59629	59.66	7.26	3.00	1093.23	121.39	104.03	323.74	73.15	91.28	4832.31	329.56	256.03	359.73	285.48	301.90
59630	59.29	6.18	3.00	1126.64	73.21	17.10	324.97	21.15	29.12	4696.79	209.26	10.04	336.15	210.11	130.23
59631	58.96	5.08	3.00	1150.23	87.90	16.46	354.38	20.84	26.30	4710.01	194.71	8.17	352.58	236.87	73.98
59632	58.68	3.96	3.00	1137.40	158.34	104.91	400.11	48.82	84.70	4810.54	306.00	203.69	460.09	425.74	119.64
59633	60.82	7.27	3.00	1018.43	112.88	217.63	289.43	130.28	137.56	4374.46	403.27	772.78	292.48	100.84	327.85
59634	60.41	6.19	3.00	1105.28	105.91	210.83	334.60	130.64	123.38	4340.23	309.17	711.27	359.85	197.25	197.58
59635	60.07	5.08	3.00	1133.10	132.95	232.72	380.55	141.52	133.34	4326.47	328.50	770.08	426.94	196.02	170.16
59636	59.79	3.96	3.00	1073.65	173.06	239.64	399.53	120.85	161.60	4345.07	432.72	927.56	539.36	177.82	160.17
59637	56.72	8.70	4.00	1177.83	20.62	34.46	48.15	72.30	35.20	5481.01	20.63	52.38	83.76	149.81	38.99
59638	56.48	8.10	4.00	1215.67	69.81	23.17	138.21	64.97	42.19	5518.65	69.76	27.01	241.19	153.61	43.59
59639	57.97	8.70	4.00	1111.94	21.83	33.13	52.16	64.74	34.82	5559.12	22.60	36.70	69.75	117.04	36.63
59640	57.72	8.10	4.00	1150.64	69.84	25.60	145.46	57.97	42.09	5627.26	70.03	25.90	199.98	117.69	40.83
59641	59.22	8.70	4.00	1089.16	20.54	29.38	58.30	52.77	30.40	5688.58	20.46	35.21	61.75	130.73	32.40
59642	58.96	8.10	4.00	1112.54	64.83	29.24	152.64	48.68	37.52	5745.50	65.92	56.90	173.65	110.46	42.94
59643	60.48	8.70	4.00	1136.50	27.27	29.26	59.05	51.00	20.03	5986.09	45.61	59.74	61.88	229.09	32.98
59644	60.19	8.10	4.00	1122.12	49.95	30.34	166.38	39.98	18.88	5992.63	99.24	81.27	157.30	158.88	102.36
59645	61.73	8.70	4.00	1392.04	83.57	183.85	162.42	146.84	44.64	7334.93	365.37	863.81	462.90	860.06	146.98
59646	61.43	8.10	4.00	1187.65	99.64	169.28	178.16	138.98	55.70	6621.39	510.88	830.18	198.51	932.56	255.16
59647	56.69	8.70	3.00	1065.86	2.96	132.49	50.80	224.03	67.07	4605.26	13.03	201.86	130.15	591.08	70.70
59648	56.46	8.10	3.00	1114.28	29.96	120.14	167.88	221.06	54.91	4646.26	48.23	131.47	418.82	610.04	59.07
59649	57.88	8.70	3.00	1022.08	3.97	123.34	53.37	207.61	65.05	4671.79	17.73	138.26	113.83	467.23	67.57
59650	57.64	8.10	3.00	1077.21	34.86	130.60	168.45	201.24	52.41	4762.15	63.49	133.59	352.84	478.12	51.48
59651	59.08	8.70	3.00	1004.21	8.28	104.84	60.88	183.24	54.44	4731.10	36.09	110.81	84.55	422.27	55.10
59652	58.82	8.10	3.00	1057.93	37.58	135.87	170.01	177.36	43.70	4849.49	86.70	209.84	276.57	394.93	61.14
59653	60.28	8.70	3.00	1023.05	8.57	113.97	62.35	167.93	25.94	4828.09	9.44	382.82	64.50	474.88	54.40
59654	60.00	8.10	3.00	1061.											