

Slide Analysis Information

SLIDE - An Interactive Slope Stability Program

Project Summary

File Name: Condizione 1
 Slide Modeler Version: 7.01
 Project Title: SLIDE - An Interactive Slope Stability Program
 Date Created: 02/09/2020, 09:03:12

General Settings

Units of Measurement: Metric Units
 Time Units: days
 Permeability Units: meters/second
 Failure Direction: Left to Right
 Data Output: Standard
 Maximum Material Properties: 20
 Maximum Support Properties: 20

Analysis Options

Slices Type: Vertical

Analysis Methods Used

GLE/Morgenstern-Price with interslice force function: Half Sine

Number of slices: 50
 Tolerance: 0.005
 Maximum number of iterations: 75
 Check $m\alpha < 0.2$: Yes
 Create Interslice boundaries at intersections with water tables and piezos: Yes
 Initial trial value of FS: 1
 Steffensen Iteration: Yes

Groundwater Analysis

Groundwater Method: Water Surfaces
 Pore Fluid Unit Weight [kN/m³]: 9.81
 Advanced Groundwater Method: None

Random Numbers

Pseudo-random Seed: 10116
 Random Number Generation Method: Park and Miller v.3

Surface Options

Surface Type: Circular
 Search Method: Grid Search
 Radius Increment: 10
 Composite Surfaces: Disabled
 Reverse Curvature: Invalid Surfaces
 Minimum Elevation: Not Defined
 Minimum Depth [m]: 0.8
 Minimum Area: Not Defined
 Minimum Weight: Not Defined

Seismic

Advanced seismic analysis: No
 Staged pseudostatic analysis: No




Loading

1 Distributed Load present

Distributed Load 1

Distribution: Constant
 Magnitude [kPa]: 196
 Orientation: Normal to boundary

Material Properties

Property	Sabbia e ghiaia	Scogliera in massi	Rilevato in ghiaia
Color			
Strength Type	Mohr-Coulomb	Mohr-Coulomb	Mohr-Coulomb
Unit Weight [kN/m ³]	20	20	20
Cohesion [kPa]	0	80	0
Friction Angle [deg]	34	44	39
Water Surface	None	None	None
Ru Value	0	0	0

Global Minimums

Method: gle/morgenstern-price

FS	1.354820
Center:	16.716, 10.772
Radius:	6.599
Left Slip Surface Endpoint:	11.301, 7.000
Right Slip Surface Endpoint:	19.051, 4.600
Resisting Moment:	2063.88 kN-m
Driving Moment:	1523.36 kN-m
Resisting Horizontal Force:	252.63 kN
Driving Horizontal Force:	186.467 kN
Total Slice Area:	10.649 m ²
Surface Horizontal Width:	7.75014 m
Surface Average Height:	1.37404 m

Valid / Invalid Surfaces

Method: gle/morgenstern-price

Number of Valid Surfaces: 4702
 Number of Invalid Surfaces: 2734

Error Codes:

Error Code -103 reported for 34 surfaces
 Error Code -106 reported for 1 surface
 Error Code -112 reported for 157 surfaces
 Error Code -115 reported for 2542 surfaces

Error Codes

The following errors were encountered during the computation:

- 103 = Two surface / slope intersections, but one or more surface / nonslope external polygon intersections lie between them. This usually occurs when the slip surface extends past the bottom of the soil region, but may also occur on a benched slope model with two sets of Slope Limits.
- 106 = Average slice width is less than 0.0001 * (maximum horizontal extent of soil region). This limitation is imposed to avoid numerical errors which may result from too many slices, or too small a slip region.
- 112 = The coefficient $M\text{-}\alpha = \cos(\alpha)(1 + \tan(\alpha)\tan(\phi))/F < 0.2$ for the final iteration of the safety factor calculation. This screens out some slip surfaces which may not be valid in the context of the analysis, in particular, deep seated slip surfaces with many high negative base angle slices in the passive zone.
- 115 = Surface too shallow, below the minimum depth.

Slice Data

Global Minimum Query (gle/morgenstern-price) - Safety Factor: 1.35482

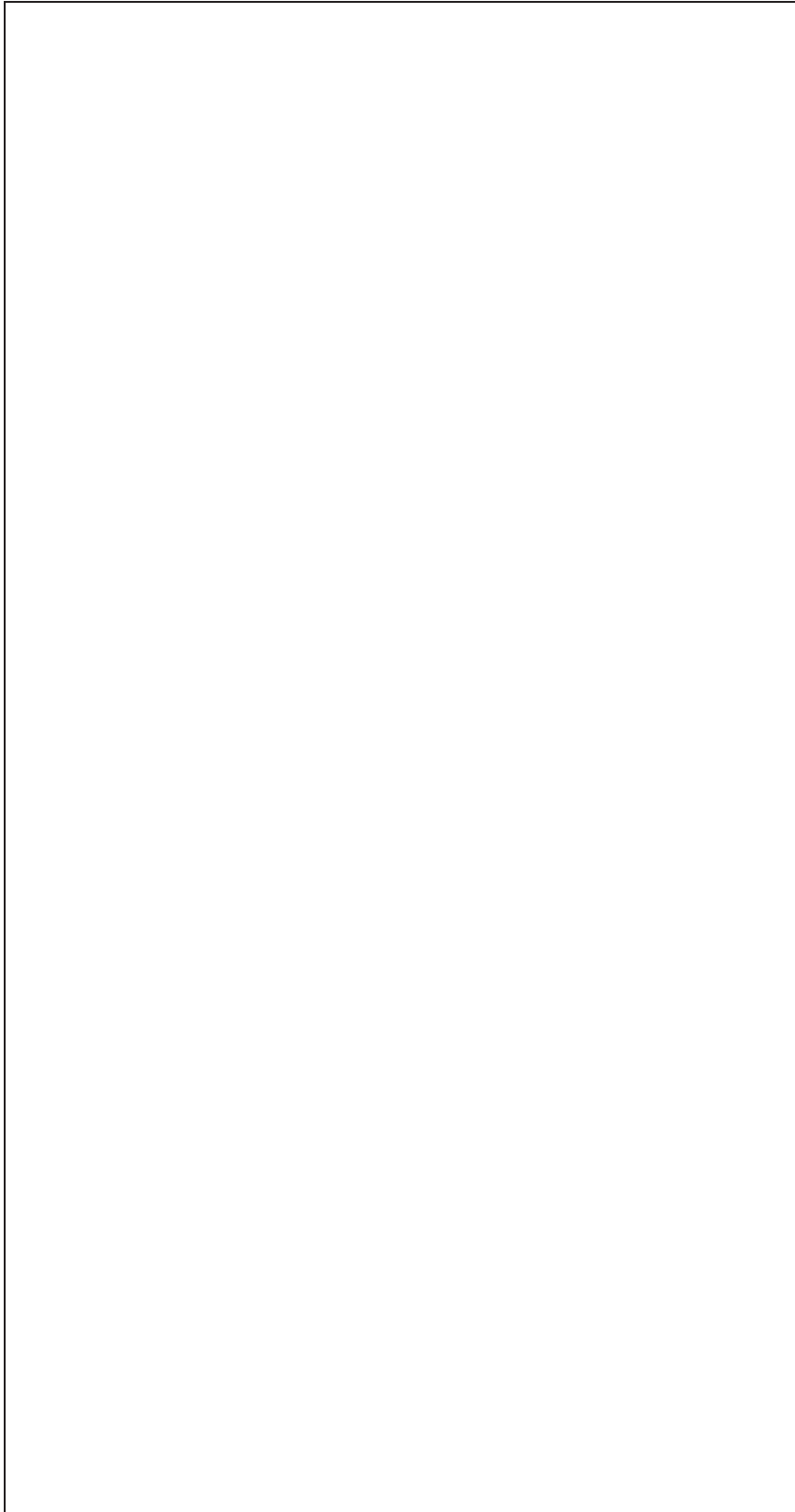
Slice Number	Width [m]	Weight [kN]	Angle of Slice Base [degrees]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]
1	0.153969	0.326304	-54.0011	Rilevato in ghiaia	0	39	64.0066	86.7174	107.087	0	107.087
2	0.153969	0.953682	-51.7833	Rilevato in ghiaia	0	39	65.9072	89.2924	110.267	0	110.267
3	0.153969	1.534	-49.6699	Rilevato in ghiaia	0	39	67.8343	91.9033	113.491	0	113.491
4	0.153969	2.07326	-47.6449	Rilevato in ghiaia	0	39	69.8277	94.6039	116.826	0	116.826
5	0.153969	2.57618	-45.6957	Rilevato in ghiaia	0	39	71.9191	97.4375	120.325	0	120.325
6	0.153969	3.04651	-43.8124	Rilevato in ghiaia	0	39	74.1353	100.44	124.033	0	124.033
7	0.153969	3.4873	-41.9868	Rilevato in ghiaia	0	39	76.4995	103.643	127.988	0	127.988
8	0.153969	3.90108	-40.2122	Rilevato in ghiaia	0	39	63.2384	85.6767	105.802	0	105.802
9	0.153969	4.28995	-38.483	Rilevato in ghiaia	0	39	5.51285	7.46892	9.22337	0	9.22337
10	0.153969	4.65572	-36.7944	Rilevato in ghiaia	0	39	6.79078	9.20029	11.3614	0	11.3614
11	0.153969	4.9999	-35.1422	Rilevato in ghiaia	0	39	8.10285	10.9779	13.5565	0	13.5565
12	0.153969	5.32382	-33.523	Rilevato in ghiaia	0	39	9.45616	12.8114	15.8208	0	15.8208
13	0.153969	5.62862	-31.9336	Rilevato in ghiaia	0	39	10.8576	14.7101	18.1655	0	18.1655
14	0.153969	5.91529	-30.3712	Rilevato in ghiaia	0	39	12.3132	16.6822	20.6008	0	20.6008
15	0.153969	6.18472	-28.8334	Rilevato in ghiaia	0	39	13.8284	18.735	23.1358	0	23.1358

16	0.153969	6.43768	-27.318	Rilevato in ghiaia	0	39	15.4076	20.8745	25.7779	0	25.7779
17	0.153969	6.67486	-25.8231	Rilevato in ghiaia	0	39	17.0541	23.1053	28.5326	0	28.5326
18	0.153969	6.87043	-24.3469	Rilevato in ghiaia	0	39	18.684	25.3135	31.2595	0	31.2595
19	0.153969	6.87376	-22.8876	Rilevato in ghiaia	0	39	19.7819	26.8009	33.0964	0	33.0964
20	0.153969	6.82989	-21.4439	Rilevato in ghiaia	0	39	20.7872	28.1629	34.7783	0	34.7783
21	0.155692	6.84768	-20.0065	Sabbia e ghiaia	0	34	17.8353	24.1636	35.824	0	35.824
22	0.155692	6.77499	-18.5741	Sabbia e ghiaia	0	34	18.582	25.1753	37.3239	0	37.3239
23	0.155692	6.68887	-17.1537	Sabbia e ghiaia	0	34	19.3175	26.1718	38.8013	0	38.8013
24	0.155692	6.58962	-15.7441	Sabbia e ghiaia	0	34	20.0313	27.1388	40.235	0	40.235
25	0.155692	6.47755	-14.3441	Sabbia e ghiaia	0	34	20.7111	28.0598	41.6003	0	41.6003
26	0.155692	6.35288	-12.9529	Sabbia e ghiaia	0	34	21.3429	28.9158	42.8694	0	42.8694
27	0.155692	6.21586	-11.5694	Sabbia e ghiaia	0	34	21.9113	29.6859	44.0111	0	44.0111
28	0.155692	6.06667	-10.1928	Sabbia e ghiaia	0	34	22.3998	30.3477	44.9923	0	44.9923
29	0.155692	5.90547	-8.82203	Sabbia e ghiaia	0	34	22.7911	30.8778	45.7781	0	45.7781
30	0.155692	5.73242	-7.45636	Sabbia e ghiaia	0	34	23.0675	31.2523	46.3335	0	46.3335
31	0.155692	5.54762	-6.09494	Sabbia e ghiaia	0	34	23.2121	31.4482	46.6239	0	46.6239
32	0.155692	5.35119	-4.73697	Sabbia e ghiaia	0	34	23.2088	31.4438	46.6173	0	46.6173
33	0.155692	5.1432	-3.38166	Sabbia e ghiaia	0	34	23.0435	31.2198	46.2853	0	46.2853
34	0.155692	4.92371	-2.02824	Sabbia e ghiaia	0	34	22.7046	30.7607	45.6046	0	45.6046
35	0.155692	4.69276	0.675954	Sabbia e ghiaia	0	34	22.1838	30.055	44.5583	0	44.5583
36	0.155692	4.45036	0.675954	Sabbia e ghiaia	0	34	21.4765	29.0968	43.1378	0	43.1378
37	0.155692	4.19651	2.02824	Sabbia e ghiaia	0	34	20.583	27.8862	41.343	0	41.343
38	0.155692	3.9312	3.38166	Sabbia e ghiaia	0	34	19.5078	26.4295	39.1834	0	39.1834
39	0.155692	3.65439	4.73697	Sabbia e ghiaia	0	34	18.2607	24.7399	36.6784	0	36.6784
40	0.155692	3.36602	6.09494	Sabbia e ghiaia	0	34	16.856	22.8369	33.8571	0	33.8571
41	0.155692	3.06602	7.45636	Sabbia e ghiaia	0	34	15.3128	20.7461	30.7574	0	30.7574
42	0.155692	2.75427	8.82203	Sabbia e ghiaia	0	34	13.6538	18.4984	27.425	0	27.425
43	0.155692	2.43067	10.1928	Sabbia e ghiaia	0	34	11.9048	16.1288	23.9118	0	23.9118
44	0.155692	2.09506	11.5694	Sabbia e ghiaia	0	34	10.0932	13.6745	20.2734	0	20.2734
45	0.155692	1.74728	12.9529	Sabbia e ghiaia	0	34	8.24766	11.1741	16.5663	0	16.5663
46	0.155692	1.38715	14.3441	Sabbia e ghiaia	0	34	6.39558	8.66486	12.8462	0	12.8462
47	0.155692	1.01442	15.7441	Sabbia e ghiaia	0	34	4.56233	6.18113	9.16391	0	9.16391
48	0.155692	0.628866	17.1537	Sabbia e	0	34	2.76983	3.75262	5.56349	0	5.56349

				ghiaia								
49	0.155692	0.275972	18.5741	Sabbia e ghiaia	0	34	1.21792	1.65006	2.44632	0	2.44632	
50	0.155692	0.0882574	20.0065	Sabbia e ghiaia	0	34	0.419971	0.568985	0.843553	0	0.843553	

Interslice Data

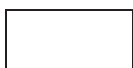
Global Minimum Query (gle/morgenstern-price) - Safety Factor: 1.35482



Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	11.3012	7	0	0	0
2	11.4552	6.78807	12.846	0.46086	2.05465
3	11.6092	6.59253	24.2666	1.73777	4.09605
4	11.7631	6.41117	34.4117	3.68442	6.11131
5	11.9171	6.24229	43.3971	6.16713	8.0881
6	12.0711	6.08453	51.3126	9.06161	10.015
7	12.2251	5.93682	58.2268	12.2507	11.8815
8	12.379	5.79825	64.1911	15.6225	13.6784
9	12.533	5.66808	68.2327	18.7918	15.398
10	12.687	5.54568	68.5134	20.9902	17.0333
11	12.8409	5.43052	68.7769	23.1182	18.5792
12	12.9949	5.32214	68.9993	25.1566	20.0315
13	13.1489	5.22014	69.158	27.0843	21.3868
14	13.3028	5.12418	69.2305	28.879	22.6431
15	13.4568	5.03395	69.1946	30.517	23.799
16	13.6108	4.94919	69.0279	31.9739	24.8537
17	13.7647	4.86966	68.7072	33.2247	25.807
18	13.9187	4.79515	68.209	34.2446	26.6591
19	14.0727	4.72548	67.5119	35.0106	27.4105
20	14.2267	4.66048	66.6193	35.5143	28.0618
21	14.3806	4.6	65.524	35.7451	28.6137
22	14.5363	4.54331	64.7797	36.0136	29.0714
23	14.692	4.49099	63.8412	36.0153	29.429
24	14.8477	4.44294	62.7002	35.7449	29.6871
25	15.0034	4.39905	61.3494	35.2008	29.8462
26	15.1591	4.35923	59.7831	34.3857	29.9064
27	15.3148	4.32342	57.9975	33.3069	29.868
28	15.4705	4.29155	55.9909	31.9766	29.7308
29	15.6262	4.26356	53.7651	30.4123	29.4947
30	15.7818	4.23939	51.3252	28.6367	29.1592
31	15.9375	4.21902	48.6801	26.6777	28.7237
32	16.0932	4.20239	45.8436	24.5682	28.1875
33	16.2489	4.18949	42.8339	22.3452	27.5497
34	16.4046	4.18029	39.6743	20.0494	26.8097
35	16.5603	4.17478	36.393	17.7241	25.967
36	16.716	4.17294	33.0232	15.4136	25.0208
37	16.8717	4.17478	29.6024	13.1618	23.9709
38	17.0274	4.18029	26.1718	11.011	22.8175
39	17.1831	4.18949	22.7761	8.99988	21.5612
40	17.3388	4.20239	19.4616	7.16185	20.2036
41	17.4945	4.21902	16.276	5.52386	18.7465
42	17.6502	4.23939	13.2667	4.10501	17.1932
43	17.8058	4.26356	10.4796	2.91568	15.5479
44	17.9615	4.29155	7.95793	1.95702	13.8161
45	18.1172	4.32342	5.74133	1.22082	12.0044
46	18.2729	4.35923	3.8648	0.689894	10.1211
47	18.4286	4.39905	2.35824	0.338799	8.17552
48	18.5843	4.44294	1.24615	0.134899	6.17836
49	18.74	4.49099	0.547819	0.039667	4.1415
50	18.8957	4.54331	0.230332	0.00835568	2.07759
51	19.0514	4.6	0	0	0

List Of Coordinates

Distributed Load



X	Y
12.5003	7
8.49999	7
7	7

External Boundary

X	Y
21.8	0
21.8	2
21.8	4
21.8	4.6
18.8	4.6
14	7
13	7
12.5003	7
8.49999	7
7	7
6	7
5	7
3.9	4.1
2.1	4.1
1	7
0	7
0	0

Material Boundary

X	Y
7	7
9	4.6
18.8	4.6

Material Boundary

X	Y
6	7
8	2
12.5	2
12.5	4
9.5	4
9	4.6

Surface Type: Circular
 Search Method: Grid Search
 Radius Increment: 10
 Composite Surfaces: Disabled
 Reverse Curvature: Invalid Surfaces
 Minimum Elevation: Not Defined
 Minimum Depth [m]: 0.8
 Minimum Area: Not Defined
 Minimum Weight: Not Defined

Seismic

Advanced seismic analysis: No
 Staged pseudostatic analysis: No




Loading

1 Distributed Load present

Distributed Load 1

Distribution: Constant
 Magnitude [kPa]: 196
 Orientation: Normal to boundary

Material Properties

Property	Sabbia e ghiaia	Scogliera in massi	Rilevato in ghiaia
Color			
Strength Type	Mohr-Coulomb	Mohr-Coulomb	Mohr-Coulomb
Unit Weight [kN/m3]	20	20	20
Cohesion [kPa]	0	80	0
Friction Angle [deg]	34	44	39
Water Surface	None	None	None
Ru Value	0	0	0

Global Minimums

Method: gle/morgenstern-price

FS	1.270900
Center:	16.984, 10.396
Radius:	6.239
Left Slip Surface Endpoint:	11.751, 7.000
Right Slip Surface Endpoint:	19.292, 4.600
Resisting Moment:	1893.14 kN-m
Driving Moment:	1489.61 kN-m
Resisting Horizontal Force:	240.378 kN
Driving Horizontal Force:	189.141 kN
Total Slice Area:	9.76071 m2
Surface Horizontal Width:	7.54119 m
Surface Average Height:	1.29432 m

Valid / Invalid Surfaces

Method: gle/morgenstern-price

Number of Valid Surfaces: 4667
 Number of Invalid Surfaces: 2769

Error Codes:

- Error Code -103 reported for 34 surfaces
- Error Code -106 reported for 1 surface
- Error Code -108 reported for 1 surface
- Error Code -112 reported for 191 surfaces
- Error Code -115 reported for 2542 surfaces

Error Codes

The following errors were encountered during the computation:

- 103 = Two surface / slope intersections, but one or more surface / nonslope external polygon intersections lie between them. This usually occurs when the slip surface extends past the bottom of the soil region, but may also occur on a benched slope model with two sets of Slope Limits.
- 106 = Average slice width is less than 0.0001 * (maximum horizontal extent of soil region). This limitation is imposed to avoid numerical errors which may result from too many slices, or too small a slip region.
- 108 = Total driving moment or total driving force < 0.1. This is to limit the calculation of extremely high safety factors if the driving force is very small (0.1 is an arbitrary number).
- 112 = The coefficient M-Alpha = $\cos(\alpha)(1+\tan(\alpha)\tan(\phi)/F) < 0.2$ for the final iteration of the safety factor calculation. This screens out some slip surfaces which may not be valid in the context of the analysis, in particular, deep seated slip surfaces with many high negative base angle slices in the passive zone.
- 115 = Surface too shallow, below the minimum depth.

Slice Data

Global Minimum Query (gle/morgenstern-price) - Safety Factor: 1.2709

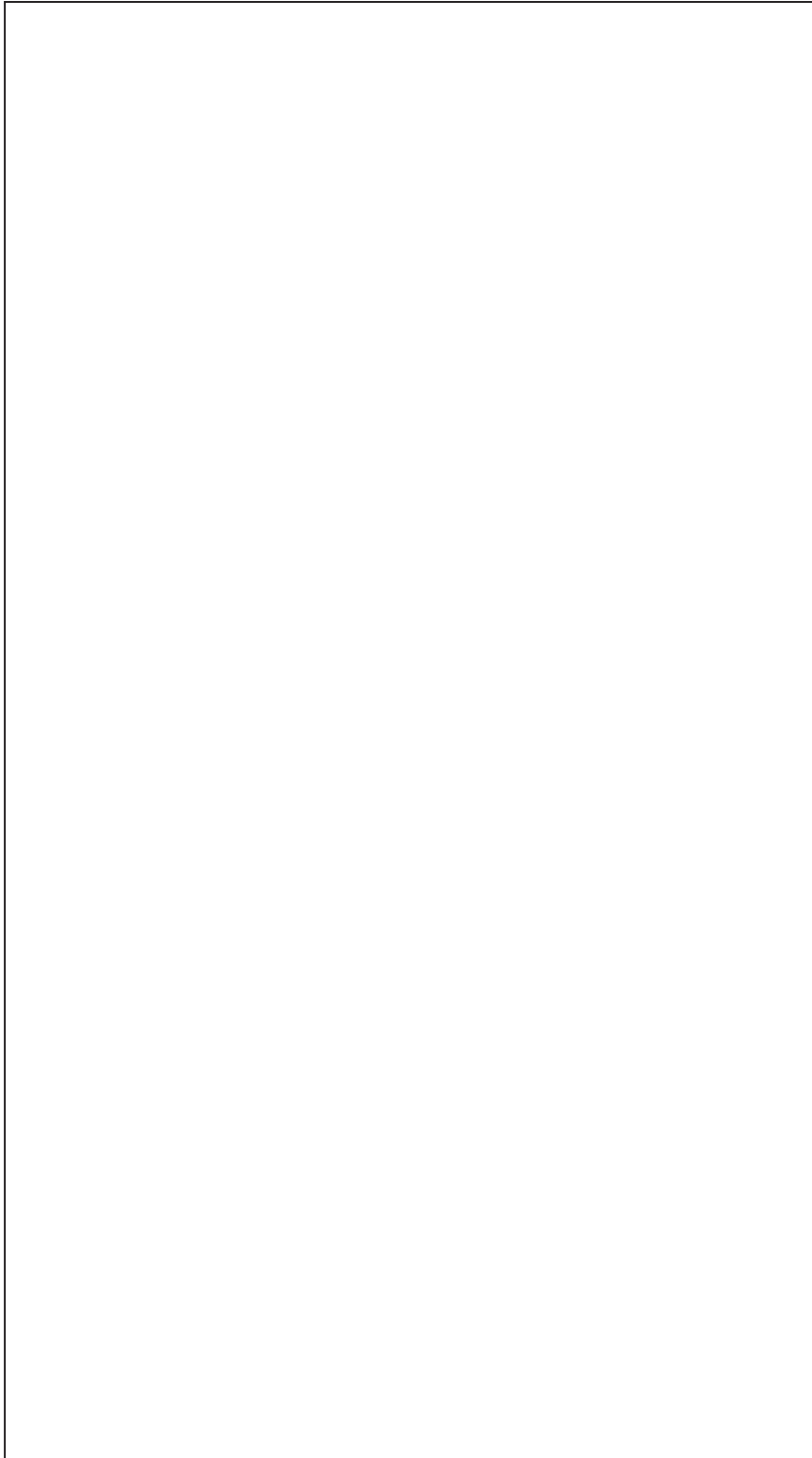
Slice Number	Width [m]	Weight [kN]	Angle of Slice Base [degrees]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]
1	0.153967	0.348334	-55.7627	Rilevato in ghiaia	0	39	64.1634	81.5453	100.7	0	100.7
2	0.153967	1.01496	-53.3222	Rilevato in ghiaia	0	39	66.5129	84.5313	104.387	0	104.387
3	0.153967	1.62615	-51.0146	Rilevato in ghiaia	0	39	68.8574	87.5109	108.067	0	108.067
4	0.153967	2.19	-48.8169	Rilevato in ghiaia	0	39	71.256	90.5592	111.831	0	111.831
5	0.153967	2.71262	-46.7119	Rilevato in ghiaia	0	39	73.7543	93.7344	115.753	0	115.753
6	0.153967	3.19876	-44.6862	Rilevato in ghiaia	0	39	76.39	97.0841	119.889	0	119.889
7	0.153967	3.65221	-42.7291	Rilevato in ghiaia	0	39	79.1943	100.648	124.29	0	124.29
8	0.153967	4.07604	-40.8321	Rilevato in ghiaia	0	39	82.1953	104.462	129	0	129
9	0.153967	4.47278	-38.988	Rilevato in ghiaia	0	39	15.0319	19.1041	23.5915	0	23.5915
10	0.153967	4.84454	-37.1908	Rilevato in ghiaia	0	39	7.3657	9.36107	11.56	0	11.56
11	0.153967	5.1931	-35.4354	Rilevato in ghiaia	0	39	8.8206	11.2101	13.8433	0	13.8433
12	0.153967	5.52	-33.7176	Rilevato in ghiaia	0	39	10.3326	13.1317	16.2163	0	16.2163
13	0.153967	5.82652	-32.0335	Rilevato in ghiaia	0	39	11.9101	15.1366	18.6921	0	18.6921
14	0.153967	6.11382	-30.3799	Rilevato in	0	39	13.5609	17.2345	21.2828	0	21.2828

				ghiaia							
15	0.153967	6.36473	-28.7538	Rilevato in ghiaia	0	39	15.2342	19.3611	23.9089	0	23.9089
16	0.153967	6.42327	-27.1527	Rilevato in ghiaia	0	39	16.4158	20.8629	25.7636	0	25.7636
17	0.153967	6.42124	-25.5742	Rilevato in ghiaia	0	39	17.4931	22.232	27.4543	0	27.4543
18	0.153967	6.40326	-24.0163	Rilevato in ghiaia	0	39	18.6023	23.6417	29.195	0	29.195
19	0.153967	6.36991	-22.4771	Rilevato in ghiaia	0	39	19.7387	25.0859	30.9785	0	30.9785
20	0.148897	6.11455	-20.9796	Sabbia e ghiaia	0	34	17.0725	21.6974	32.1677	0	32.1677
21	0.148897	6.05646	-19.5219	Sabbia e ghiaia	0	34	17.899	22.7478	33.725	0	33.725
22	0.148897	5.98573	-18.0771	Sabbia e ghiaia	0	34	18.7232	23.7953	35.2779	0	35.2779
23	0.148897	5.90267	-16.6442	Sabbia e ghiaia	0	34	19.5355	24.8277	36.8086	0	36.8086
24	0.148897	5.80757	-15.2219	Sabbia e ghiaia	0	34	20.3244	25.8303	38.295	0	38.295
25	0.148897	5.70069	-13.8092	Sabbia e ghiaia	0	34	21.0761	26.7856	39.7113	0	39.7113
26	0.148897	5.58224	-12.405	Sabbia e ghiaia	0	34	21.7748	27.6736	41.0277	0	41.0277
27	0.148897	5.45243	-11.0083	Sabbia e ghiaia	0	34	22.4029	28.4718	42.2111	0	42.2111
28	0.148897	5.31143	-9.61821	Sabbia e ghiaia	0	34	22.9411	29.1559	43.2254	0	43.2254
29	0.148897	5.15938	-8.23382	Sabbia e ghiaia	0	34	23.3695	29.7003	44.0325	0	44.0325
30	0.148897	4.9964	-6.85426	Sabbia e ghiaia	0	34	23.6673	30.0788	44.5936	0	44.5936
31	0.148897	4.82261	-5.47868	Sabbia e ghiaia	0	34	23.8145	30.2658	44.8709	0	44.8709
32	0.148897	4.63809	-4.10626	Sabbia e ghiaia	0	34	23.792	30.2372	44.8284	0	44.8284
33	0.148897	4.4429	-2.73621	Sabbia e ghiaia	0	34	23.5833	29.972	44.4353	0	44.4353
34	0.148897	4.23708	-1.36771	Sabbia e ghiaia	0	34	23.1752	29.4534	43.6664	0	43.6664
35	0.148897	4.02067	0	Sabbia e ghiaia	0	34	22.5589	28.6701	42.5051	0	42.5051
36	0.148897	3.79368	1.36771	Sabbia e ghiaia	0	34	21.7306	27.6174	40.9445	0	40.9445
37	0.148897	3.55608	2.73621	Sabbia e ghiaia	0	34	20.6924	26.298	38.9884	0	38.9884
38	0.148897	3.30787	4.10626	Sabbia e ghiaia	0	34	19.4528	24.7225	36.6527	0	36.6527
39	0.148897	3.04898	5.47868	Sabbia e ghiaia	0	34	18.0263	22.9096	33.9648	0	33.9648
40	0.148897	2.77936	6.85426	Sabbia e ghiaia	0	34	16.4333	20.8851	30.9634	0	30.9634
41	0.148897	2.49893	8.23382	Sabbia e ghiaia	0	34	14.6996	18.6817	27.6968	0	27.6968
42	0.148897	2.20757	9.61821	Sabbia e ghiaia	0	34	12.8548	16.3372	24.2209	0	24.2209
43	0.148897	1.90517	11.0083	Sabbia e ghiaia	0	34	10.9312	13.8925	20.5965	0	20.5965
44	0.148897	1.59157	12.405	Sabbia e ghiaia	0	34	8.96207	11.3899	16.8862	0	16.8862
45	0.148897	1.26661	13.8092	Sabbia e ghiaia	0	34	6.97961	8.87039	13.1509	0	13.1509
46	0.148897	0.930085	15.2219	Sabbia e ghiaia	0	34	5.01373	6.37195	9.44682	0	9.44682

47	0.148897	0.591997	16.6442	Sabbia e ghiaia	0	34	3.13888	3.9892	5.91422	0	5.91422
48	0.148897	0.399603	18.0771	Sabbia e ghiaia	0	34	2.06016	2.61826	3.88173	0	3.88173
49	0.148897	0.248632	19.5219	Sabbia e ghiaia	0	34	1.24255	1.57916	2.3412	0	2.3412
50	0.148897	0.0850138	20.9796	Sabbia e ghiaia	0	34	0.428133	0.544114	0.806684	0	0.806684

Interslice Data

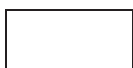
Global Minimum Query (gle/morgenstern-price) - Safety Factor: 1.2709



Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	11.7507	7	0	0	0
2	11.9047	6.77376	12.8961	0.494015	2.19377
3	12.0587	6.56703	24.2278	1.85239	4.37217
4	12.2126	6.3768	34.1762	3.90609	6.5202
5	12.3666	6.20082	42.8772	6.50267	8.62365
6	12.5206	6.03736	50.4334	9.50163	10.6694
7	12.6745	5.88508	56.9211	12.7712	12.6458
8	12.8285	5.74285	62.3957	16.1861	14.5426
9	12.9825	5.6098	66.8948	19.6261	16.351
10	13.1364	5.48518	67.5188	22.0218	18.0642
11	13.2904	5.36835	67.7344	24.221	19.6764
12	13.4444	5.25879	67.8921	26.3113	21.1836
13	13.5983	5.15603	67.9663	28.2679	22.5829
14	13.7523	5.0597	67.9319	30.0642	23.8724
15	13.9063	4.96944	67.7634	31.6725	25.0513
16	14.0602	4.88496	67.436	33.0646	26.1192
17	14.2142	4.80599	66.9412	34.2207	27.0764
18	14.3682	4.73231	66.2688	35.1224	27.9235
19	14.5221	4.6637	65.4054	35.7514	28.6616
20	14.6761	4.6	64.3376	36.0919	29.2914
21	14.825	4.5429	63.6303	36.4395	29.7987
22	14.9739	4.49011	62.7436	36.5275	30.2067
23	15.1228	4.44151	61.6683	36.3489	30.5162
24	15.2717	4.397	60.3959	35.9003	30.7279
25	15.4206	4.35648	58.919	35.1816	30.8422
26	15.5695	4.31988	57.2319	34.1974	30.8593
27	15.7184	4.28713	55.331	32.9569	30.7794
28	15.8673	4.25817	53.2156	31.4742	30.6021
29	16.0162	4.23294	50.8879	29.7689	30.3272
30	16.1651	4.21139	48.3544	27.8657	29.954
31	16.314	4.19349	45.626	25.7949	29.4819
32	16.4629	4.17921	42.7184	23.5915	28.9099
33	16.6118	4.16852	39.6524	21.2946	28.2372
34	16.7607	4.16141	36.4546	18.947	27.4628
35	16.9096	4.15785	33.1566	16.5934	26.5859
36	17.0584	4.15785	29.7952	14.2791	25.6057
37	17.2073	4.16141	26.4117	12.0486	24.5217
38	17.3562	4.16852	23.0509	9.94353	23.3341
39	17.5051	4.17921	19.7606	8.00107	22.043
40	17.654	4.19349	16.5895	6.25213	20.6501
41	17.8029	4.21139	13.5867	4.71994	19.1569
42	17.9518	4.23294	10.7996	3.41895	17.5668
43	18.1007	4.25817	8.27301	2.35407	15.8836
44	18.2496	4.28713	6.04762	1.52051	14.1129
45	18.3985	4.31988	4.15919	0.903913	12.2614
46	18.5474	4.35648	2.6379	0.481152	10.3371
47	18.6963	4.397	1.50808	0.221339	8.34962
48	18.8452	4.44151	0.777107	0.0859275	6.30977
49	18.9941	4.49011	0.281475	0.0208159	4.22949
50	19.143	4.5429	-0.0272667	-0.00101017	2.12171
51	19.2919	4.6	0	0	0

List Of Coordinates

Distributed Load



X	Y
13	7
12.5003	7
8.49999	7
7	7

External Boundary

X	Y
21.8	0
21.8	2
21.8	4
21.8	4.6
18.8	4.6
14	7
13	7
12.5003	7
8.49999	7
7	7
6	7
5	7
3.9	4.1
2.1	4.1
1	7
0	7
0	0

Material Boundary

X	Y
7	7
9	4.6
18.8	4.6

Material Boundary

X	Y
6	7
8	2
12.5	2
12.5	4
9.5	4
9	4.6

SAIPEM SPA
 Il Progettista
 Dott. Ing. A. PARLATO iscritto all'ordine
 degli ingegneri della Provincia di Avellino al n. 2095
 Tel. 0721.1686481 Fax 0721.1682018
 C.F. e P. IVA 00825790157

