

REGIONE SARDEGNA
Provincia di Sassari
Comune di Ossi

**PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN
IMPIANTO EOLICO DA 31 MW E DELLE OPERE DI
CONNESSIONE ALLA RTN NEL COMUNE DI OSSI**

<p>ELABORATO</p> C.09	<p>CALCOLI PRILIMINARI DELLE STRUTTURE (Fondazioni Aerogeneratori)</p>
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DATA	REV	DESCRIZIONE	ELABORATO	APPROVATO
21/06/2021	0	Prima emissione	Zingarelli	Diliberto

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1. Premessa

La seguente relazione specialistica è riferita al progetto per la realizzazione di un parco eolico proposto dalla società

GRV WIND SARDEGNA 3 S.r.l. con sede legale in CVia Durini, 9 20122 Milano (MI)

La proposta progettuale è finalizzata alla realizzazione di un impianto eolico per la produzione di energia elettrica da fonte rinnovabile eolica, costituito da 5 aerogeneratori, ciascuno di potenza nominale pari a 6,2 MW per una potenza complessiva di 31.00 MW, da realizzarsi nella Provincia di Sassari, nel territorio comunale di Ossi.

Gli aerogeneratori saranno ad asse orizzontale, costituiti da un sistema tripala, con generatore di tipo asincrono o sincrono. Il tipo di aerogeneratore da utilizzare verrà scelto in fase di progettazione esecutiva dell'impianto, le dimensioni previste per l'aerogeneratore tipo sono: diametro del rotore 162 m, altezza mozzo 125 m.

Nella presente relazione verranno riportati i calcoli preliminari delle strutture di fondazione. In particolare si analizzano le azioni agenti sulla fondazione dell'aerogeneratore, verificando, in funzione delle caratteristiche geotecniche del terreno, la capacità portante dello stesso alle azioni agenti.

La torre, il generatore e la cabina di trasformazione andranno a scaricare su una struttura di fondazione in cemento armato del tipo indiretto su pali.

La fondazione viene calcolata in modo tale da poter sopportare il carico della macchina e il momento prodotto sia dal carico concentrato posto in testa alla torre che dall'azione cinetica delle pale in movimento.

Le verifiche di stabilità del terreno e delle strutture di fondazione sono state eseguite con i metodi ed i procedimenti della geotecnica, tenendo conto delle massime sollecitazioni sul terreno che la struttura trasmette.

Le strutture di fondazione sono dimensionate in conformità alla normativa tecnica vigente.

Tutti i calcoli di seguito riportati e la relativa scelta di materiali, sezioni e dimensioni andranno verificati in sede di progettazione esecutiva e potranno pertanto subire variazioni anche sostanziali per mantenere i necessari livelli di sicurezza.

2. Normative di Riferimento

- Legge nr. 1086 del 05/11/1971.

Norme per la disciplina delle opere in conglomerato cementizio, normale e precompresso ed a struttura metallica.

- Legge nr. 64 del 02/02/1974.

Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.

- D.M. LL.PP. del 11/03/1988.

Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione.

- D.M. LL.PP. del 14/02/1992.

Norme tecniche per l'esecuzione delle opere in cemento armato normale e precompresso e per le strutture metalliche.

- D.M. 9 Gennaio 1996

Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato normale e precompresso e per le strutture metalliche

- D.M. 16 Gennaio 1996

Norme Tecniche relative ai 'Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi'

- D.M. 16 Gennaio 1996

Norme Tecniche per le costruzioni in zone sismiche

- Circolare Ministero LL.PP. 15 Ottobre 1996 N. 252 AA.GG. /S.T.C.

Istruzioni per l'applicazione delle Norme Tecniche di cui al D.M. 9 Gennaio 1996

- Circolare Ministero LL.PP. 10 Aprile 1997 N. 65/AA.GG.

Istruzioni per l'applicazione delle Norme Tecniche per le costruzioni in zone sismiche di cui al D.M. 16 Gennaio 1996

- Norme Tecniche per le Costruzioni 2018 (D.M. 17 Gennaio 2018).

3. Richiami teorici - Metodi di analisi

Calcolo - Analisi ad elementi finiti

Per l'analisi platea si utilizza il metodo degli elementi finiti (FEM). La struttura viene suddivisa in elementi connessi fra di loro in corrispondenza dei nodi. Il campo di spostamenti interno all'elemento viene approssimato in funzione degli spostamenti nodali mediante le funzioni di forma. Il programma utilizza, per l'analisi tipo piastra, elementi quadrangolari e triangolari. Nel problema di tipo piastra gli spostamenti nodali sono lo spostamento verticale w e le rotazione intorno agli assi x e y , ϕ_x e ϕ_y , legati allo spostamento w tramite relazioni

$$\phi_x = -dw/dy$$

$$\phi_y = dw/dx$$

Note le funzioni di forma che legano gli spostamenti nodali al campo di spostamenti sul singolo elemento è possibile costruire la matrice di rigidezza dell'elemento \mathbf{k}_e ed il vettore dei carichi nodali dell'elemento \mathbf{p}_e .

La fase di assemblaggio consente di ottenere la matrice di rigidezza globale della struttura \mathbf{K} ed il vettore dei carichi nodali \mathbf{p} . La soluzione del sistema

$$\mathbf{K} \mathbf{u} = \mathbf{p}$$

consente di ricavare il vettore degli spostamenti nodali \mathbf{u} .

Dagli spostamenti nodali è possibile risalire per ogni elemento al campo di spostamenti ed alle sollecitazioni M_x , M_y ed M_{xy} .

Il terreno di fondazione se presente viene modellato con delle molle disposte in corrispondenza dei nodi. La rigidità delle molle è proporzionale alla costante di sottofondo k ed all'area dell'elemento.

I pali di fondazione sono modellati con molle verticali aventi rigidità pari alla rigidità verticale del palo.

Per l'analisi tipo lastra (analisi della piastra soggetta a carichi nel piano) vengono utilizzati elementi triangolari a 6 nodi a deformazione quadratica. Gli spostamenti nodali sono gli spostamenti u e v nel piano XY. L'analisi fornisce in tal caso il campo di spostamenti orizzontali e le tensioni nel piano della lastra σ_x , σ_y e τ_{xy} . Dalle tensioni è possibile ricavare, noto lo spessore, gli sforzi normali N_x , N_y e N_{xy} .

Nell'analisi tipo lastra i pali di fondazione sono modellati con molle orizzontali in direzione X e Y aventi rigidità pari alla rigidità orizzontale del palo.

Nel caso di platea nervata le nervature sono modellate con elementi tipo trave (con eventuale rigidità torsionale) connesse alla piastra in corrispondenza dei nodi degli elementi.

Metodo calcolo portanza

Il rapporto fra il carico limite in fondazione e la componente normale della risultante dei carichi trasmessi deve essere superiore a η_q . Cioè, detto Q_u , il carico limite ed R la risultante verticale dei carichi in fondazione, deve essere:

$$\frac{Q_u}{R} \geq \eta_q$$

Eseguendo il calcolo mediante gli Eurocodici si può impostare $\eta_q \geq 1.0$

Le espressioni di Hansen per il calcolo della capacità portante si differenziano a secondo se siamo in presenza di un terreno puramente coesivo ($\phi=0$) o meno e si esprimono nel modo seguente:

Caso generale

$$q_u = cN_c s_c d_c i_c g_c b_c + qN_q s_q d_q i_q g_q b_q + 0.5B\gamma N_\gamma s_\gamma d_\gamma i_\gamma g_\gamma b_\gamma$$

Caso di terreno puramente coesivo $\phi=0$

$$q_u = 5.14c(1+s_c+d_c-i_c-g_c-b_c) + q$$

in cui d_c , d_q , d_γ , sono i fattori di profondità; s_c , s_q , s_γ , sono i fattori di forma; i_c , i_q , i_γ , sono i fattori di inclinazione del carico; b_c , b_q , b_γ , sono i fattori di inclinazione del piano di posa; g_c , g_q , g_γ , sono i fattori che tengono conto del fatto che la fondazione poggia su un terreno in pendenza.

I fattori N_c , N_q , N_γ sono espressi come:

$$N_q = e^{\pi \tan \phi} K_p$$

$$N_c = (N_q - 1) \cot \phi$$

$$N_\gamma = 1.5(N_q - 1) \tan \phi$$

Vediamo ora come si esprimono i vari fattori che compaiono nella espressione del carico ultimo.

Fattori di forma

$$\begin{aligned} & \text{per } \phi=0 \quad s_c = 0.2 \frac{B}{L} \\ & \text{per } \phi>0 \quad s_c = 1 + \frac{N_q}{N_c} \frac{B}{L} \\ & s_q = 1 + \frac{B}{L} \operatorname{tg} \phi \\ & s_\gamma = 1 - 0.4 \frac{B}{L} \end{aligned}$$

Fattori di profondità

Si definisce il parametro k come

$$k = \frac{D}{B} \quad \text{se} \quad \frac{D}{B} \leq 1$$

$$k = \operatorname{arctg} \frac{D}{B} \quad \text{se} \quad \frac{D}{B} > 1$$

I vari coefficienti si esprimono come

$$\text{per } \phi=0 \quad d_c = 0.4k$$

$$\text{per } \phi>0 \quad d_c = 1 + 0.4k$$

$$d_q = 1 + 2 \operatorname{tg} \phi (1 - \sin \phi)^2 k$$

$$d_\gamma = 1$$

Fattori di inclinazione del carico

Indichiamo con V e H le componenti del carico rispettivamente perpendicolare e parallela alla base e con A_f l'area efficace della fondazione ottenuta come $A_f = B' \times L'$ (B' e L' sono legate alle dimensioni effettive della fondazione B , L e all'eccentricità del carico e_B , e_L dalle relazioni $B' = B - 2e_B$ $L' = L - 2e_L$) e con η l'angolo di inclinazione della fondazione espresso in gradi ($\eta=0$ per fondazione orizzontale).

I fattori di inclinazione del carico si esprimono come:

$$\text{per } \phi = 0 \quad i_c = 1/2(1 - [1 - \frac{H}{ArCa}]^{0.5})$$

$$\text{per } \phi > 0 \quad i_c = i_q - \frac{1 - i_q}{N_q - 1}$$

$$i_q = (1 - \frac{0.5H}{V + ArCa \text{ctg} \phi})^5$$

$$\text{per } \eta = 0 \quad i_\gamma = (1 - \frac{0.7H}{V + ArCa \text{ctg} \phi})^5$$

$$\text{per } \eta > 0 \quad i_\gamma = (1 - \frac{(0.7 - \eta^\circ / 450^\circ)H}{V + ArCa \text{ctg} \phi})^5$$

Fattori di inclinazione del piano di posa della fondazione

$$\text{per } \phi = 0 \quad b_c = \frac{\eta^\circ}{147^\circ}$$

$$\text{per } \phi > 0 \quad b_c = 1 - \frac{\eta^\circ}{147^\circ}$$

$$b_q = e^{-2.7 \eta \text{tg} \phi}$$

$$b_\gamma = e^{-2.7 \eta \text{tg} \phi}$$

Fattori di inclinazione del terreno

Indicando con β la pendenza del pendio i fattori g si ottengono dalle espressioni seguenti:

$$\text{per } \phi = 0 \quad g_c = \frac{\beta^\circ}{147^\circ}$$

$$\text{per } \phi > 0 \quad g_c = 1 - \frac{\beta^\circ}{147^\circ}$$

$$g_q = g_\gamma = (1 - 0.05 \text{tg} \beta)^5$$

Per poter applicare la formula di Hansen devono risultare verificate le seguenti condizioni:

$$H < V \text{tg} \delta + ArCa$$

$$\beta \leq \phi$$

$$i_q, i_\gamma > 0$$

$$\beta + \eta \leq 90^\circ$$

Cedimenti della fondazione

Metodo Edometrico

Il metodo edometrico è il classico procedimento per il calcolo dei cedimenti in terreni a grana fina, proposto da Terzaghi negli anni '20.

L'ipotesi edometrica è verificata con approssimazione tanto migliore quanto più ridotto è il valore del rapporto tra lo spessore dello strato compressibile e la dimensione in pianta della fondazione.

Tuttavia il metodo risulta dotato di ottima approssimazione anche nei casi di strati deformabili di grande spessore.

L'implementazione del metodo è espressa secondo la seguente espressione:

$$\Delta H = \sum_{i=1}^n \frac{\Delta \sigma_i}{E_{ed,i}} \Delta z_i$$

dove:

$\Delta \sigma$ è la tensione indotta nel terreno, alla profondità z , dalla pressione di contatto della fondazione;

E_{ed} è il modulo elastico determinato attraverso la prova edometrica e relativa allo strato i -esimo;

Δz rappresenta lo spessore dello strato i -esimo in cui è stato suddiviso lo strato compressibile e per il quale si conosce il modulo elastico.

Lo spessore dello strato compressibile considerato nell'analisi dei cedimenti è stato determinato in funzione della percentuale della tensione di contatto.

Disposizione delle armature

Le armature vengono disposte secondo due direzioni, una principale ed una secondaria. Per il calcolo delle stesse si fa riferimento ai valori nodali delle sollecitazioni ottenute dall'analisi ad elementi finiti. Per la disposizione delle stesse occorre suddividere la piastra in un numero di strisce opportuno nelle due direzioni.

Il programma utilizza strisce della larghezza di circa un metro.



Dati

Materiali

Simbologia adottata

n°	Indice materiale
Descrizione	Descrizione materiale
TC	Tipo calcestruzzo
Rck	Resistenza cubica caratteristica, espresso in [kg/cmq]
γ_{cls}	Peso specifico calcestruzzo, espresso in [kN/mc]
E	Modulo elastico calcestruzzo, espresso in [kg/cmq]
ν	Coeff. di Poisson
n	Coeff. di omogeneizzazione
TA	Tipo acciaio

n°	Descrizione	TC	Rck	γ_{cls}	E	ν	n	TA
			[kg/cmq]	[kN/mc]	[kg/cmq]			
1	Piastra	C32/40	407,88	24,52	343054,09	0.200	15.00	B450C

Geometria

Coordinate contorno esterno

n°	X	Y	n°	X	Y	n°	X	Y	n°	X	Y
	[m]	[m]		[m]	[m]		[m]	[m]		[m]	[m]
1	23,00	11,50	2	22,94	12,63	3	22,78	13,74	4	22,50	14,84
5	22,12	15,90	6	21,64	16,92	7	21,06	17,89	8	20,39	18,80
9	19,63	19,63	10	18,80	20,39	11	17,89	21,06	12	16,92	21,64
13	15,90	22,12	14	14,84	22,50	15	13,74	22,78	16	12,63	22,94
17	11,50	23,00	18	10,37	22,94	19	9,26	22,78	20	8,16	22,50
21	7,10	22,12	22	6,08	21,64	23	5,11	21,06	24	4,20	20,39
25	3,37	19,63	26	2,61	18,80	27	1,94	17,89	28	1,36	16,92
29	0,88	15,90	30	0,50	14,84	31	0,22	13,74	32	0,06	12,63
33	0,00	11,50	34	0,06	10,37	35	0,22	9,26	36	0,50	8,16
37	0,88	7,10	38	1,36	6,08	39	1,94	5,11	40	2,61	4,20
41	3,37	3,37	42	4,20	2,61	43	5,11	1,94	44	6,08	1,36
45	7,10	0,88	46	8,16	0,50	47	9,26	0,22	48	10,37	0,06
49	11,50	0,00	50	12,63	0,06	51	13,74	0,22	52	14,84	0,50
53	15,90	0,88	54	16,92	1,36	55	17,89	1,94	56	18,80	2,61
57	19,63	3,37	58	20,39	4,20	59	21,06	5,11	60	21,64	6,08
61	22,12	7,10	62	22,50	8,16	63	22,78	9,26	64	22,94	10,37

Spessori piastra

Simbologia adottata

Sp	Spessore, espresso in [cm]
n°	Indice del punto
X, Y	Ascissa e ordinata del punto, espresso in [cm]

Sp	n°	X	Y	n°	X	Y	n°	X	Y	n°	X	Y
[cm]		[m]	[m]		[m]	[m]		[m]	[m]		[m]	[m]
120,00	1	0,00	0,00	2	23,00	0,00	3	23,00	23,00	4	0,00	23,00
185,00	1	10,71	3,53	2	12,29	3,53	3	13,83	3,83	4	15,28	4,43
	5	16,58	5,31	6	17,69	6,42	7	18,57	7,72	8	19,17	9,17
	9	19,47	10,71	10	19,47	12,29	11	19,17	13,83	12	18,57	15,28
	13	17,69	16,58	14	16,58	17,69	15	15,28	18,57	16	13,83	19,17
	17	12,29	19,47	18	10,71	19,47	19	9,17	19,17	20	7,72	18,57
	21	6,42	17,69	22	5,31	16,58	23	4,43	15,28	24	3,83	13,83
	25	3,53	12,29	26	3,53	10,71	27	3,83	9,17	28	4,43	7,72
	29	5,31	6,42	30	6,42	5,31	31	7,72	4,43	32	9,17	3,83
350,00	1	11,05	6,96	2	11,95	6,96	3	12,82	7,14	4	13,65	7,48
	5	14,39	7,98	6	15,02	8,61	7	15,52	9,35	8	15,86	10,18
	9	16,04	11,05	10	16,04	11,95	11	15,86	12,82	12	15,52	13,65
	13	15,02	14,39	14	14,39	15,02	15	13,65	15,52	16	12,82	15,86
	17	11,95	16,04	18	11,05	16,04	19	10,18	15,86	20	9,35	15,52
	21	8,61	15,02	22	7,98	14,39	23	7,48	13,65	24	7,14	12,82
	25	6,96	11,95	26	6,96	11,05	27	7,14	10,18	28	7,48	9,35
	29	7,98	8,61	30	8,61	7,98	31	9,35	7,48	32	10,18	7,14

Descrizione terreni

Caratteristiche fisico meccaniche

Simbologia adottata

Descrizione	Descrizione terreno
γ	Peso di volume del terreno espresso in [kN/mc]
γ_{sat}	Peso di volume saturo del terreno espresso in [kN/mc]
ϕ	Angolo di attrito interno del terreno espresso in gradi
δ	Angolo di attrito palo-terreno espresso in gradi
c	Coesione del terreno espressa in [kg/cm ^q]
ca	Adesione del terreno espressa in [kg/cm ^q]
τ_1	Tensione tangenziale, per calcolo portanza micropali con il metodo di Bustamante-Doix, espressa in [kg/cm ^q]
α	Coeff. di espansione laterale

Descrizione	γ [kN/mc]	γ_{sat} [kN/mc]	ϕ [°]	δ [°]	c [kg/cm ^q]	ca [kg/cm ^q]
Terreno Vegetale	16,500	17,500	25.00	16.67	0,000	0,000
Calcari	20,000	20,000	35.00	23.33	2,000	1,000

Descrizione stratigrafia e falda

Simbologia adottata

N	Identificativo strato
Z1	Quota dello strato in corrispondenza del punto di sondaggio n°1 espressa in [m]
Z2	Quota dello strato in corrispondenza del punto di sondaggio n°2 espressa in [m]
Z3	Quota dello strato in corrispondenza del punto di sondaggio n°3 espressa in [m]
Terreno	Terreno associato allo strato

N	Z1 [m]	Z2 [m]	Z3 [m]	Terreno
1	-1,0	-1,0	-1,0	Terreno Vegetale
2	-30,0	-30,0	-30,0	Calcari

Falda

Profondità dal piano campagna 10,00 [m]

Costante di Winkler

Direzione	Simbolo	Kw [Kg/cm ² /cm]
Verticale	Kwv	3.182
Orizzontale	Kwo	Calcolata dal programma (Kwo=Kwv*tan(ϕ))

Convenzioni adottate

Carichi e reazioni vincolari

Fz	Carico verticale positivo verso il basso
Fx	Forza orizzontale in direzione X positiva nel verso delle X crescenti.
Fy	Forza orizzontale in direzione Y positiva nel verso delle Y crescenti.
Mx	Momento con asse vettore parallelo all'asse X positivo antiorario.
My	Momento con asse vettore parallelo all'asse Y positivo antiorario.

Sollecitazioni

Mx	Momento flettente X con asse vettore parallelo all'asse Y (positivo se tende le fibre inferiori).
My	Momento flettente Y con asse vettore parallelo all'asse X (positivo se tende le fibre inferiori).
Mxy	Momento flettente XY.

Condizioni di carico

Carichi concentrati

Simbologia adottata

Ic	Indice carico
X	Ascissa carico espressa in [m]
Y	Ordinata carico espressa in [m]
N	Carico verticale espresso in [kN]

Mx Momento intorno all'asse X espresso in [kNm]
 My Momento intorno all'asse Y espresso in [kNm]
 Tx Forza orizzontale in direzione X espressa in [kN]
 Ty Forza orizzontale in direzione Y espressa in [kN]

Condizione n° 1 - Condizione 1 [Variabile - $\Psi_0=1.00$ $\Psi_1=1.00$ $\Psi_2=1.00$ - Partecipa al sisma]

Carichi concentrati

Oggetto	X [m]	Y [m]	N [kN]	Mx [kNm]	My [kNm]	Tx [kN]	Ty [kN]
Piastra	11,50	11,50	7260,000	0,000	0,000	0,000	1356,000
Piastra	11,50	14,50	26800,000	0,000	0,000	605,000	0,000
Piastra	11,50	8,50	-26800,000	0,000	0,000	-605,000	0,000

Condizione n° 2 - Condizione 2 [Variabile - $\Psi_0=1.00$ $\Psi_1=1.00$ $\Psi_2=1.00$ - Partecipa al sisma]

Carichi concentrati

Oggetto	X [m]	Y [m]	N [kN]	Mx [kNm]	My [kNm]	Tx [kN]	Ty [kN]
Piastra	11,50	11,50	7535,000	0,000	0,000	1255,000	0,000
Piastra	14,50	11,50	24420,000	0,000	0,000	370,000	0,000
Piastra	8,50	11,50	-24420,000	0,000	0,000	-370,000	0,000

Condizione n° 3 - Condizione 3 [Variabile - $\Psi_0=1.00$ $\Psi_1=1.00$ $\Psi_2=1.00$ - Partecipa al sisma]

Carichi concentrati

Oggetto	X [m]	Y [m]	N [kN]	Mx [kNm]	My [kNm]	Tx [kN]	Ty [kN]
Piastra	11,50	11,50	7483,000	0,000	0,000	1364,000	0,000
Piastra	11,50	8,50	-26550,000	0,000	0,000	-2250,000	0,000
Piastra	11,50	14,50	26550,000	0,000	0,000	2250,000	0,000

Normativa - Coefficienti di sicurezza

Coefficienti parziali per le azioni o per l'effetto delle azioni

CARICHI	EFFETTO	Coefficiente parziale	(A1) - STR
Permanenti	Favorevole	$\gamma_{G1, fav}$	1.00
Permanenti	Sfavorevole	$\gamma_{G1, sfav}$	1.30
Permanenti non strutturali	Favorevole	$\gamma_{G2, fav}$	0.80
Permanenti non strutturali	Sfavorevole	$\gamma_{G2, sfav}$	1.50
Variabili	Favorevole	$\gamma_{Q1, fav}$	0.00
Variabili	Sfavorevole	$\gamma_{Q1, sfav}$	1.50
Variabili traffico	Favorevole	$\gamma_{Q, fav}$	0.00
Variabili traffico	Sfavorevole	$\gamma_{Q, sfav}$	1.35

Coefficienti parziali per i parametri geotecnici del terreno

PARAMETRO	GRANDEZZA	Coefficiente parziale	(M1)
Tangente dell'angolo di resistenza al taglio	$\tan \phi'_k$	γ_ϕ'	1.00
Coesione efficace	c'_k	$\gamma_{c'}$	1.00
Resistenza non drenata	c_{uk}	γ_{cu}	1.00

Coefficienti parziali γ_R per le verifiche agli stati limite ultimi di fondazioni superficiali

Elenco combinazioni di calcolo

Numero combinazioni definite 4

Simbologia adottata

CP Coefficiente di partecipazione della condizione

Combinazione n° 1 - - STR - A1-M1-R3

Condizione	CP
Peso proprio	1.30
Condizione 1	1.00

Combinazione n° 2 - - STR - A1-M1-R3

Condizione	CP
Peso proprio	1.30
Condizione 2	1.00

Combinazione n° 3 - - STR - A1-M1-R3

Condizione	CP
Peso proprio	1.30
Condizione 3	1.00

Combinazione n° 4 - - STR - A1-M1-R3

Condizione	CP
Peso proprio	1.30

Impostazioni di analisi

Portanza fondazione superficiale

Metodo calcolo portanza: Hansen

Criterio di media calcolo strato equivalente: Ponderata

Riduzione portanza per effetto eccentricità: Meyerhof

Piastra infinitamente rigida

Fattore di rigidezza della sovrastruttura 0.00

Modello

Caratteristiche Mesh

Numero elementi 686

Numero nodi 376

Risultati Piastra

Risultati involuppo

Spostamenti

Spostamenti massimi e minimi della piastra

Simbologia adottata

Ic	Indice della combinazione
w	Spostamento verticale, espresso in [cm]
u	Spostamento direzione X, espresso in [cm]
v	Spostamento direzione Y, espresso in [cm]
ϕ_x	Rotazione intorno all'asse X, espressa in [°]
ϕ_y	Rotazione intorno all'asse Y, espressa in [°]
p	Pressione sul terreno (solo per calcolo fondazione), espressa in [kg/cmq]
kw	Costante di Winkler (solo per calcolo fondazione), espressa in [kg/cm ² /cm]. Il valore viene stampato solo se si è utilizzato il modello di interazione

Tra parentesi l'indice del nodo in cui si sono misurati i valori massimi e minimi

In	X	Y		Valore	UM	Cmb	
	[m]	[m]					
236	11,50	23,00	w	0,712285	[cm]	1	MAX
206	11,50	0,00		-0,417940		1	MIN
236	11,50	23,00	ux	0,060530	[cm]	3	MAX
206	11,50	0,00		-0,016341		3	MIN
374	0,00	11,50	uy	0,038428	[cm]	3	MAX
20	23,00	11,50		-0,038429		3	MIN
195	10,32	11,76	ϕ_x	0,000528	[°]	2	MAX
92	15,42	15,18		-0,000074		3	MIN
104	14,69	16,11	ϕ_y	0,000072	[°]	2	MAX
158	11,78	10,40		-0,000632		1	MIN
236	11,50	23,00	p	2,266332	[kg/cmq]	1	MAX
171	12,21	7,75		0,005903		3	MIN

Sollecitazioni

Sollecitazioni massime e minime piastra

Simbologia adottata

In	Indice nodo modello
Mx	Momento X espresso in [kNm]
My	Momento Y espresso in [kNm]
Mxy	Momento XY espresso in [kNm]
Tx	Taglio X, espresso in [kN]
Ty	Taglio Y, espresso in [kN]
Nx	Tensione normale X espressa in [kg/cmq]
Ny	Tensione normale Y espressa in [kg/cmq]
Nxy	Tensione tangenziale XY espressa in [kg/cmq]

In	X	Y		Valore	UM	Cmb	
	[m]	[m]					
84	14,50	11,50	Mx	9921,0546	[kNm]	2	MAX
247	8,50	11,50		-7680,3512		2	MIN
185	11,50	14,50	My	10760,1172	[kNm]	1	MAX
180	11,50	8,50		-8344,0472		1	MIN
216	9,40	11,06	Mxy	1574,9585	[kNm]	1	MAX
112	13,67	10,91		-1591,9885		1	MIN
161	12,54	14,44	Nx	1,45	[kg/cmq]	3	MAX
211	10,42	14,50		-1,45		3	MIN
155	12,02	12,31	Ny	0,71	[kg/cmq]	1	MAX
158	11,78	10,40		-0,69		1	MIN
199	11,50	15,41	Nxy	0,64	[kg/cmq]	3	MAX
186	11,06	9,43		-0,94		3	MIN

Verifiche strutturali

Verifica a flessione

Simbologia adottata

Is	Identificativo tratto-sezione-direzione (P: direzione principale, S: direzione secondaria)
A _{fi}	Area di armatura lembo inferiore espressa in [cmq]
A _{fs}	Area di armatura lembo superiore espressa in [cmq]
M _u	Momento ultimo espresso in [kNm]
N _u	Sforzo normale ultimo espresso in [kN]
FS	Fattore di sicurezza

Is	A _{fi} [cmq]	A _{fs} [cmq]	M _u [kNm]	N _u [kN]	FS
1-1-P	8,04	8,04	358,70	5,13	8.898
1-2-P	8,04	8,04	359,03	4,67	4.687
1-3-P	8,04	8,04	359,50	4,27	3.088
1-4-P	16,08	16,08	716,99	7,79	4.466
1-5-P	16,08	16,08	717,33	7,15	3.431
1-6-P	16,08	16,08	717,66	6,70	2.887
1-7-P	24,13	24,13	1074,51	9,44	3.817
1-8-P	24,13	24,13	1074,66	8,82	3.414
1-9-P	24,13	24,13	1074,82	8,21	3.082
1-10-P	32,17	32,17	1431,06	9,87	3.656
1-11-P	32,17	32,17	1430,75	8,76	3.322
1-12-P	32,17	32,17	1430,51	7,78	3.043
1-13-P	32,17	32,17	1430,32	6,89	2.806
1-14-P	32,17	32,17	1430,19	6,12	2.615
1-15-P	32,17	32,17	1430,02	5,48	2.530
1-16-P	32,17	32,17	1429,76	4,82	2.482
1-17-P	40,21	40,21	1784,92	5,15	3.042
1-18-P	40,21	40,21	1784,52	4,22	2.970
1-19-P	40,21	40,21	1784,10	3,27	2.857
1-20-P	40,21	40,21	1783,51	2,35	2.801
1-21-P	40,21	40,21	1782,96	1,51	2.758
1-22-P	32,17	32,17	1427,48	0,58	2.187
1-23-P	32,17	32,17	1427,07	-0,01	2.189
1-24-P	32,17	32,17	1426,58	-0,57	2.239
1-25-P	32,17	32,17	1425,96	-1,17	2.335
1-26-P	32,17	32,17	1425,31	-1,81	2.443
1-27-P	32,17	32,17	1424,68	-2,44	2.545
1-28-P	32,17	32,17	1424,07	-3,02	2.632
1-29-P	24,13	24,13	1068,93	-2,66	2.099
1-30-P	24,13	24,13	1068,23	-3,04	2.267
1-31-P	24,13	24,13	1067,54	-3,41	2.471
1-32-P	16,08	16,08	712,66	-2,52	1.829
1-33-P	16,08	16,08	711,95	-2,77	2.124
1-34-P	16,08	16,08	711,10	-3,05	2.645
1-35-P	8,04	8,04	356,27	-1,68	1.744
1-36-P	8,04	8,04	355,50	-1,82	2.515
1-37-P	8,04	8,04	354,83	-1,96	4.492
2-1-P	8,04	8,04	360,75	8,49	10.798
2-2-P	8,04	8,04	361,39	7,57	5.029
2-3-P	16,08	16,08	720,71	13,57	6.125
2-4-P	24,13	24,13	1079,39	18,43	6.316
2-5-P	24,13	24,13	1079,78	17,32	4.969
2-6-P	32,17	32,17	1438,12	22,00	5.516
2-7-P	32,17	32,17	1438,49	20,98	4.701
2-8-P	40,21	40,21	1795,65	24,71	5.546
2-9-P	40,21	40,21	1794,25	22,11	5.161
2-10-P	40,21	40,21	1792,95	19,71	4.793
2-11-P	40,21	40,21	1791,80	17,58	4.478
2-12-P	40,21	40,21	1790,79	15,70	4.207
2-13-P	40,21	40,21	1790,08	14,38	4.027
2-14-P	40,21	40,21	1789,40	13,12	3.888
2-15-P	40,21	40,21	1788,74	11,89	3.763
2-16-P	40,21	40,21	1788,08	10,66	3.646
2-17-P	40,21	40,21	1787,37	9,34	3.487
2-18-P	40,21	40,21	1786,68	8,05	3.313
2-19-P	40,21	40,21	1786,07	6,92	3.155
2-20-P	40,21	40,21	1785,60	6,05	3.014
2-21-P	40,21	40,21	1785,22	5,34	2.901
2-22-P	40,21	40,21	1784,84	4,65	2.809
2-23-P	40,21	40,21	1784,47	3,96	2.736
2-24-P	40,21	40,21	1784,09	3,25	2.679
2-25-P	40,21	40,21	1783,68	2,49	2.625
2-26-P	40,21	40,21	1783,27	1,73	2.554
2-27-P	40,21	40,21	1782,93	1,09	2.490
2-28-P	40,21	40,21	1782,65	0,58	2.431

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
2-29-P	40,21	40,21	1782,42	0,15	2.380
2-30-P	40,21	40,21	1782,17	-0,32	2.345
2-31-P	40,21	40,21	1781,87	-0,85	2.327
2-32-P	40,21	40,21	1781,54	-1,45	2.324
2-33-P	40,21	40,21	1781,17	-2,10	2.316
2-34-P	40,21	40,21	1780,80	-2,78	2.299
2-35-P	40,21	40,21	1780,46	-3,39	2.280
2-36-P	40,21	40,21	1780,16	-3,93	2.263
2-37-P	40,21	40,21	1779,89	-4,41	2.251
2-38-P	40,21	40,21	1779,57	-4,98	2.271
2-39-P	40,21	40,21	1779,21	-5,63	2.305
2-40-P	40,21	40,21	1778,84	-6,30	2.340
2-41-P	40,21	40,21	1778,44	-7,02	2.376
2-42-P	40,21	40,21	1778,03	-7,76	2.406
2-43-P	40,21	40,21	1777,68	-8,40	2.423
2-44-P	40,21	40,21	1777,35	-8,99	2.432
2-45-P	32,17	32,17	1422,96	-7,66	2.026
2-46-P	32,17	32,17	1421,79	-8,08	2.319
2-47-P	24,13	24,13	1066,92	-6,38	2.043
2-48-P	24,13	24,13	1065,74	-6,72	2.507
2-49-P	16,08	16,08	710,78	-4,72	2.268
2-50-P	8,04	8,04	355,94	-2,49	1.722
2-51-P	8,04	8,04	354,72	-2,62	3.387
3-1-P	16,08	16,08	714,55	5,04	15.857
3-2-P	16,08	16,08	716,03	5,15	8.837
3-3-P	24,13	24,13	1073,91	8,00	10.069
3-4-P	32,17	32,17	1432,06	11,34	11.279
3-5-P	40,21	40,21	1807,17	46,19	11.214
3-6-P	40,21	40,21	1804,93	41,95	10.458
3-7-P	40,21	40,21	1801,71	35,98	9.323
3-8-P	40,21	40,21	1799,03	31,00	8.409
3-9-P	40,21	40,21	1796,73	26,72	7.659
3-10-P	40,21	40,21	1794,88	23,29	7.079
3-11-P	40,21	40,21	1793,39	20,53	6.638
3-12-P	40,21	40,21	1791,92	17,78	6.220
3-13-P	40,21	40,21	1790,52	15,18	5.831
3-14-P	40,21	40,21	1789,26	12,85	5.496
3-15-P	40,21	40,21	1788,13	10,76	5.150
3-16-P	40,21	40,21	1787,18	8,98	4.801
3-17-P	40,21	40,21	1786,51	7,75	4.483
3-18-P	40,21	40,21	1785,97	6,74	4.201
3-19-P	40,21	40,21	1785,52	5,90	3.948
3-20-P	40,21	40,21	1785,12	5,16	3.722
3-21-P	40,21	40,21	1784,78	4,52	3.518
3-22-P	40,21	40,21	1784,45	3,91	3.348
3-23-P	40,21	40,21	1784,17	3,39	3.156
3-24-P	40,21	40,21	1783,95	2,99	2.975
3-25-P	40,21	40,21	1783,72	2,57	2.830
3-26-P	40,21	40,21	1783,48	2,12	2.716
3-27-P	40,21	40,21	1783,25	1,69	2.612
3-28-P	40,21	40,21	1783,04	1,29	2.514
3-29-P	40,21	40,21	1782,84	0,93	2.422
3-30-P	40,21	40,21	1782,71	0,69	2.324
3-31-P	40,21	40,21	1782,59	0,47	2.241
3-32-P	40,21	40,21	1782,44	0,19	2.179
3-33-P	40,21	40,21	1782,26	-0,15	2.137
3-34-P	40,21	40,21	1782,07	-0,48	2.099
3-35-P	40,21	40,21	1781,89	-0,81	2.062
3-36-P	40,21	40,21	1781,73	-1,11	2.024
3-37-P	40,21	40,21	1781,61	-1,32	1.984
3-38-P	40,21	40,21	1781,49	-1,53	1.953
3-39-P	40,21	40,21	1781,34	-1,80	1.948
3-40-P	40,21	40,21	1781,16	-2,12	1.951
3-41-P	40,21	40,21	1780,99	-2,44	1.953
3-42-P	40,21	40,21	1780,81	-2,76	1.953
3-43-P	40,21	40,21	1780,63	-3,09	1.950
3-44-P	40,21	40,21	1780,42	-3,45	1.955
3-45-P	40,21	40,21	1780,18	-3,89	1.979
3-46-P	40,21	40,21	1779,87	-4,45	2.017
3-47-P	40,21	40,21	1779,55	-5,02	2.050
3-48-P	40,21	40,21	1779,24	-5,59	2.084
3-49-P	40,21	40,21	1778,92	-6,16	2.120
3-50-P	40,21	40,21	1778,60	-6,74	2.163
3-51-P	40,21	40,21	1778,20	-7,46	2.228
3-52-P	40,21	40,21	1777,76	-8,26	2.300
3-53-P	40,21	40,21	1777,30	-9,08	2.374
3-54-P	40,21	40,21	1776,79	-10,00	2.455

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
3-55-P	40,21	40,21	1776,35	-10,80	2.526
3-56-P	40,21	40,21	1775,98	-11,46	2.587
3-57-P	40,21	40,21	1775,57	-12,12	2.666
3-58-P	32,17	32,17	1420,36	-10,07	2.671
3-59-P	24,13	24,13	1065,25	-7,84	2.654
3-60-P	16,08	16,08	710,24	-5,43	2.582
3-61-P	8,04	8,04	355,11	-2,82	2.612
4-1-P	16,08	16,08	715,78	6,92	9.119
4-2-P	16,08	16,08	718,09	7,41	4.617
4-3-P	32,17	32,17	1434,35	15,91	6.597
4-4-P	40,21	40,21	1793,89	21,45	6.964
4-5-P	40,21	40,21	1795,55	24,54	7.210
4-6-P	40,21	40,21	1797,43	28,02	7.464
4-7-P	40,21	40,21	1799,66	32,16	7.715
4-8-P	40,21	40,21	1802,40	37,25	8.086
4-9-P	40,21	40,21	1806,17	44,26	8.585
4-10-P	40,21	40,21	1811,30	53,78	9.247
4-11-P	40,21	40,21	1817,36	65,05	10.076
4-12-P	40,21	40,21	1787,00	8,66	11.214
4-13-P	40,21	40,21	1784,77	4,51	10.144
4-14-P	40,21	40,21	1783,59	2,32	9.070
4-15-P	40,21	40,21	1782,84	0,92	8.186
4-16-P	40,21	40,21	1782,30	-0,07	7.448
4-17-P	40,21	40,21	1781,92	-0,76	6.825
4-18-P	40,21	40,21	1781,68	-1,19	6.292
4-19-P	40,21	40,21	1781,57	-1,39	5.831
4-20-P	40,21	40,21	1781,59	-1,36	5.366
4-21-P	40,21	40,21	1781,77	-1,02	4.857
4-22-P	40,21	40,21	1781,88	-0,83	4.449
4-23-P	40,21	40,21	1781,93	-0,75	4.114
4-24-P	40,21	40,21	1781,93	-0,74	3.834
4-25-P	40,21	40,21	1983,58	-1,25	4.005
4-26-P	40,21	48,25	1986,92	-1,23	3.766
4-27-P	40,21	48,25	1986,99	-1,12	3.492
4-28-P	40,21	48,25	1987,05	-1,02	3.247
4-29-P	40,21	48,25	2189,20	-1,20	3.334
4-30-P	40,21	56,30	2192,11	-1,09	3.121
4-31-P	40,21	48,25	2189,27	-1,08	2.941
4-32-P	40,21	48,25	2189,26	-1,11	2.788
4-33-P	40,21	48,25	2189,25	-1,12	2.655
4-34-P	40,21	48,25	2189,15	-1,26	2.554
4-35-P	40,21	40,21	2185,42	-1,39	2.454
4-36-P	40,21	48,25	2188,98	-1,52	2.367
4-37-P	40,21	48,25	2188,90	-1,63	2.282
4-38-P	40,21	48,25	2188,81	-1,77	2.209
4-39-P	40,21	48,25	2188,72	-1,90	2.154
4-40-P	40,21	48,25	2188,64	-2,01	2.118
4-41-P	40,21	48,25	2188,58	-2,11	2.082
4-42-P	40,21	48,25	1986,56	-1,82	1.855
4-43-P	40,21	48,25	1986,51	-1,89	1.820
4-44-P	40,21	48,25	1986,42	-2,04	1.800
4-45-P	40,21	40,21	1982,98	-2,21	1.799
4-46-P	40,21	40,21	1781,26	-1,94	1.620
4-47-P	40,21	40,21	1781,22	-2,01	1.622
4-48-P	40,21	40,21	1781,22	-2,03	1.622
4-49-P	40,21	40,21	1781,21	-2,04	1.622
4-50-P	40,21	40,21	1781,13	-2,17	1.653
4-51-P	40,21	40,21	1781,02	-2,38	1.701
4-52-P	40,21	40,21	1780,90	-2,60	1.750
4-53-P	40,21	40,21	1780,75	-2,86	1.797
4-54-P	40,21	40,21	1780,61	-3,12	1.844
4-55-P	40,21	40,21	1780,47	-3,37	1.894
4-56-P	40,21	40,21	1780,20	-3,85	1.972
4-57-P	40,21	40,21	1779,84	-4,50	2.056
4-58-P	40,21	40,21	1779,41	-5,27	2.135
4-59-P	40,21	40,21	1778,96	-6,08	2.219
4-60-P	40,21	40,21	1778,48	-6,95	2.309
4-61-P	40,21	40,21	1777,98	-7,86	2.406
4-62-P	40,21	40,21	1777,42	-8,86	2.518
4-63-P	40,21	40,21	1776,86	-9,87	2.636
4-64-P	40,21	40,21	1776,29	-10,90	2.762
4-65-P	40,21	40,21	1775,76	-11,85	2.886
4-66-P	40,21	40,21	1775,30	-12,68	3.006
4-67-P	32,17	32,17	1419,96	-10,50	3.167
4-68-P	16,08	16,08	711,08	-5,45	2.378
4-69-P	8,04	8,04	355,48	-2,83	2.485
5-1-P	24,13	24,13	1073,85	11,32	10.018

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
5-2-P	24,13	24,13	1076,33	11,81	5.040
5-3-P	32,17	32,17	1436,08	16,46	4.660
5-4-P	40,21	40,21	1794,46	22,50	5.529
5-5-P	40,21	40,21	1795,52	24,47	5.404
5-6-P	40,21	40,21	1797,04	27,30	5.303
5-7-P	40,21	40,21	1799,42	31,73	5.283
5-8-P	40,21	40,21	1802,20	36,88	5.324
5-9-P	40,21	40,21	1805,20	42,46	5.401
5-10-P	40,21	40,21	1808,34	48,29	5.517
5-11-P	40,21	40,21	1811,75	54,62	5.757
5-12-P	40,21	40,21	1815,58	61,74	6.070
5-13-P	40,21	40,21	1819,92	69,79	6.415
5-14-P	40,21	40,21	1824,85	78,95	6.797
5-15-P	40,21	40,21	1830,46	89,37	7.222
5-16-P	40,21	40,21	1836,83	101,21	7.694
5-17-P	40,21	40,21	1845,07	116,51	8.465
5-18-P	40,21	40,21	-1768,33	-25,38	9.763
5-19-P	40,21	56,30	1772,94	-26,22	10.230
5-20-P	40,21	56,30	1774,86	-22,79	8.977
5-21-P	40,21	64,34	1976,16	-25,75	8.862
5-22-P	40,21	72,38	2177,55	-28,04	8.761
5-23-P	56,30	72,38	3477,60	-42,92	12.615
5-24-P	56,30	80,42	3327,65	-33,48	10.586
5-25-P	56,30	88,47	3613,11	-32,35	10.244
5-26-P	56,30	88,47	3616,82	-27,79	9.276
5-27-P	56,30	96,51	3902,00	-27,46	9.147
5-28-P	56,30	88,47	3902,22	-24,00	8.402
5-29-P	56,30	80,42	3902,43	-19,94	7.494
5-30-P	56,30	72,38	3901,43	-16,51	6.693
5-31-P	56,30	56,30	-4015,46	132,73	5.598
5-32-P	56,30	56,30	-4005,11	120,28	5.053
5-33-P	56,30	56,30	-3998,32	112,11	4.679
5-34-P	56,30	56,30	-3993,16	105,90	4.420
5-35-P	56,30	56,30	-3988,77	100,62	4.253
5-36-P	56,30	56,30	-3984,56	95,56	4.095
5-37-P	56,30	56,30	-3980,67	90,87	3.948
5-38-P	56,30	56,30	3899,37	-6,65	3.797
5-39-P	56,30	56,30	3899,59	-6,39	3.642
5-40-P	56,30	56,30	3899,76	-6,20	3.498
5-41-P	56,30	56,30	3900,00	-5,92	3.350
5-42-P	56,30	56,30	3900,23	-5,66	3.208
5-43-P	56,30	56,30	3900,35	-5,52	3.100
5-44-P	56,30	56,30	3900,46	-5,39	3.042
5-45-P	56,30	56,30	3900,66	-5,16	2.997
5-46-P	56,30	72,38	3911,65	-4,77	2.952
5-47-P	56,30	80,42	3916,17	-4,20	2.898
5-48-P	56,30	88,47	3919,90	-3,79	2.870
5-49-P	56,30	96,51	3922,81	-3,72	2.896
5-50-P	56,30	88,47	3636,86	-3,11	2.706
5-51-P	56,30	88,47	3636,94	-3,02	2.723
5-52-P	56,30	80,42	3350,94	-2,34	2.521
5-53-P	56,30	72,38	3442,10	-2,07	2.600
5-54-P	40,21	72,38	2196,06	-1,13	1.709
5-55-P	40,21	64,34	1991,65	-0,92	1.602
5-56-P	40,21	56,30	1787,19	-0,75	1.484
5-57-P	40,21	56,30	1787,22	-0,70	1.528
5-58-P	40,21	40,21	1781,99	-0,63	1.569
5-59-P	40,21	40,21	1781,96	-0,69	1.644
5-60-P	40,21	40,21	1781,90	-0,80	1.735
5-61-P	40,21	40,21	1781,83	-0,91	1.836
5-62-P	40,21	40,21	1781,72	-1,12	1.939
5-63-P	40,21	40,21	1781,57	-1,38	2.044
5-64-P	40,21	40,21	1781,36	-1,77	2.152
5-65-P	40,21	40,21	1780,92	-2,56	2.279
5-66-P	40,21	40,21	1780,31	-3,65	2.413
5-67-P	40,21	40,21	1779,61	-4,92	2.565
5-68-P	40,21	40,21	1778,82	-6,35	2.735
5-69-P	40,21	40,21	1778,05	-7,72	2.907
5-70-P	40,21	40,21	1777,37	-8,96	3.065
5-71-P	40,21	40,21	1776,72	-10,12	3.231
5-72-P	40,21	40,21	1776,18	-11,09	3.402
5-73-P	32,17	32,17	1421,85	-9,67	2.965
5-74-P	24,13	24,13	1065,82	-7,49	3.401
5-75-P	16,08	16,08	709,60	-5,14	4.826
6-1-P	32,17	32,17	1430,97	13,69	10.355
6-2-P	32,17	32,17	1434,09	14,81	5.050
6-3-P	40,21	40,21	1793,14	20,06	5.085

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
6-4-P	40,21	40,21	1794,14	21,92	4.956
6-5-P	40,21	40,21	1795,38	24,23	4.868
6-6-P	40,21	40,21	1796,88	27,01	4.775
6-7-P	40,21	40,21	1798,58	30,16	4.683
6-8-P	40,21	40,21	1800,85	34,38	4.624
6-9-P	40,21	40,21	1803,32	38,97	4.588
6-10-P	40,21	40,21	1805,77	43,51	4.553
6-11-P	40,21	40,21	1808,11	47,86	4.508
6-12-P	40,21	40,21	1810,33	51,98	4.441
6-13-P	40,21	40,21	1812,44	55,90	4.363
6-14-P	40,21	40,21	1814,77	60,24	4.340
6-15-P	40,21	40,21	1817,92	66,09	4.458
6-16-P	40,21	56,30	1827,47	73,14	4.659
6-17-P	40,21	56,30	1831,58	80,67	4.867
6-18-P	40,21	56,30	2057,70	111,48	5.708
6-19-P	40,21	72,38	2298,87	152,12	6.634
6-20-P	56,30	80,42	3560,62	285,23	10.660
6-21-P	56,30	96,51	3965,89	407,72	13.543
6-22-P	56,30	112,59	4455,57	610,96	18.456
6-23-P	56,30	96,51	3926,07	0,00	19.961
6-24-P	56,30	88,47	-5965,11	-144,67	17.867
6-25-P	56,30	72,38	-4904,61	-112,68	14.153
6-26-P	56,30	56,30	-3832,64	-84,27	10.888
6-27-P	56,30	56,30	-3834,78	-81,78	11.178
6-28-P	56,30	56,30	-3837,02	-79,17	11.397
6-29-P	56,30	56,30	3843,64	-71,15	10.728
6-30-P	56,30	56,30	3852,36	-61,06	9.522
6-31-P	56,30	56,30	3863,01	-48,73	8.068
6-32-P	56,30	56,30	-4045,20	168,50	6.478
6-33-P	56,30	56,30	-4020,84	139,19	5.373
6-34-P	56,30	56,30	-4003,52	118,36	4.580
6-35-P	56,30	56,30	-3989,22	101,16	3.930
6-36-P	56,30	56,30	-3978,18	87,89	3.482
6-37-P	56,30	56,30	-3970,23	78,32	3.230
6-38-P	56,30	56,30	-3964,12	70,97	3.031
6-39-P	56,30	56,30	-3959,41	65,30	2.873
6-40-P	56,30	56,30	-3955,81	60,98	2.747
6-41-P	56,30	56,30	-3954,34	59,20	2.751
6-42-P	56,30	56,30	-3954,17	59,00	2.876
6-43-P	56,30	56,30	3899,01	-7,07	2.930
6-44-P	56,30	56,30	3899,94	-5,99	2.785
6-45-P	56,30	56,30	3900,76	-5,04	2.646
6-46-P	56,30	56,30	3901,68	-3,97	2.504
6-47-P	56,30	56,30	3902,40	-3,15	2.431
6-48-P	56,30	56,30	3902,81	-2,67	2.402
6-49-P	56,30	56,30	3903,23	-2,18	2.371
6-50-P	56,30	56,30	3903,76	-1,57	2.336
6-51-P	56,30	56,30	3904,50	-0,72	2.312
6-52-P	56,30	56,30	3904,79	-0,37	2.328
6-53-P	56,30	56,30	3905,18	0,08	2.346
6-54-P	56,30	56,30	3905,64	0,63	2.360
6-55-P	56,30	56,30	3906,15	1,23	2.373
6-56-P	56,30	72,38	3917,35	1,84	2.408
6-57-P	56,30	88,47	3925,23	2,36	2.500
6-58-P	56,30	96,51	3928,61	2,96	2.597
6-59-P	56,30	112,59	3933,73	3,71	2.702
6-60-P	56,30	96,51	3645,27	4,13	2.605
6-61-P	56,30	80,42	3355,80	4,27	2.515
6-62-P	40,21	72,38	2198,80	2,92	1.753
6-63-P	40,21	56,30	1991,83	2,63	1.686
6-64-P	40,21	56,30	1788,82	2,22	1.605
6-65-P	40,21	56,30	1788,96	2,48	1.703
6-66-P	40,21	40,21	1783,81	2,73	1.810
6-67-P	40,21	40,21	1783,87	2,84	1.966
6-68-P	40,21	40,21	1783,93	2,96	2.151
6-69-P	40,21	40,21	1783,88	2,87	2.343
6-70-P	40,21	40,21	1783,69	2,51	2.536
6-71-P	40,21	40,21	1783,30	1,79	2.721
6-72-P	40,21	40,21	1782,70	0,68	2.899
6-73-P	40,21	40,21	1781,88	-0,83	3.099
6-74-P	40,21	40,21	1780,85	-2,68	3.338
6-75-P	40,21	40,21	1779,66	-4,83	3.620
6-76-P	40,21	40,21	1778,60	-6,73	3.901
6-77-P	40,21	40,21	1777,96	-7,90	4.140
6-78-P	40,21	40,21	1777,26	-9,15	4.395
6-79-P	32,17	32,17	1421,61	-8,12	4.540
6-80-P	16,08	16,08	710,74	-4,19	4.962

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
7-1-P	40,21	40,21	1787,56	14,98	10.892
7-2-P	40,21	40,21	1791,08	16,23	5.483
7-3-P	40,21	40,21	1791,83	17,62	5.239
7-4-P	40,21	40,21	1792,56	18,99	5.013
7-5-P	40,21	40,21	1793,43	20,59	4.804
7-6-P	40,21	40,21	1795,09	23,67	4.607
7-7-P	40,21	40,21	1797,03	27,28	4.425
7-8-P	40,21	40,21	1798,78	30,54	4.270
7-9-P	40,21	40,21	1800,37	33,48	4.130
7-10-P	40,21	40,21	1801,86	36,25	4.008
7-11-P	40,21	40,21	1803,40	39,12	3.883
7-12-P	40,21	40,21	1805,11	42,29	3.791
7-13-P	40,21	40,21	1806,89	45,59	3.720
7-14-P	40,21	56,30	1814,31	48,99	3.667
7-15-P	40,21	56,30	1816,06	52,20	3.610
7-16-P	40,21	56,30	1817,79	55,37	3.558
7-17-P	40,21	64,34	2254,19	88,48	4.337
7-18-P	56,30	80,42	3414,29	84,51	6.615
7-19-P	56,30	104,55	4037,17	126,79	7.917
7-20-P	56,30	112,59	4050,03	139,05	8.079
7-21-P	56,30	104,55	4058,62	151,82	8.247
7-22-P	56,30	88,47	4063,85	165,06	8.423
7-23-P	56,30	64,34	-4351,02	-120,26	8.657
7-24-P	56,30	56,30	-3815,75	-103,90	7.490
7-25-P	56,30	56,30	-3817,07	-102,37	7.367
7-26-P	56,30	56,30	-3818,50	-100,71	7.161
7-27-P	56,30	56,30	-3819,94	-99,04	6.906
7-28-P	56,30	56,30	-3820,47	-98,42	6.848
7-29-P	56,30	56,30	-3820,02	-98,95	7.065
7-30-P	56,30	56,30	-3819,80	-99,20	7.247
7-31-P	56,30	56,30	-3819,50	-99,55	7.408
7-32-P	56,30	56,30	-3818,35	-100,89	7.764
7-33-P	56,30	56,30	-3817,37	-102,03	8.332
7-34-P	56,30	56,30	-4098,19	232,23	7.059
7-35-P	56,30	56,30	-4046,92	170,56	5.193
7-36-P	56,30	56,30	-4013,43	130,28	4.039
7-37-P	56,30	56,30	-3993,08	105,80	3.337
7-38-P	56,30	56,30	-3975,47	84,63	2.786
7-39-P	56,30	56,30	-3961,24	67,51	2.392
7-40-P	56,30	56,30	-3952,31	56,76	2.141
7-41-P	56,30	56,30	-4123,09	54,43	2.070
7-42-P	56,30	56,30	-4117,80	48,33	2.006
7-43-P	56,30	56,30	-4113,05	42,85	2.015
7-44-P	56,30	56,30	-4109,83	39,14	2.080
7-45-P	56,30	56,30	-3933,11	33,67	2.132
7-46-P	56,30	56,30	3900,19	-5,70	2.319
7-47-P	56,30	56,30	3901,72	-3,94	2.185
7-48-P	56,30	56,30	3903,15	-2,28	2.096
7-49-P	56,30	56,30	3904,54	-0,67	2.016
7-50-P	56,30	56,30	3905,88	0,91	1.946
7-51-P	56,30	56,30	3907,03	2,29	1.910
7-52-P	56,30	56,30	3908,21	3,69	1.887
7-53-P	56,30	56,30	3909,36	5,07	1.865
7-54-P	56,30	56,30	3910,29	6,18	1.847
7-55-P	56,30	56,30	3910,85	6,85	1.860
7-56-P	56,30	56,30	3911,05	7,09	1.882
7-57-P	56,30	56,30	3911,28	7,37	1.906
7-58-P	56,30	56,30	3911,60	7,74	1.946
7-59-P	56,30	56,30	3912,20	8,47	2.035
7-60-P	56,30	56,30	3912,92	9,32	2.123
7-61-P	56,30	56,30	3913,76	10,32	2.207
7-62-P	56,30	64,34	3920,62	11,49	2.307
7-63-P	56,30	88,47	3934,05	12,72	2.453
7-64-P	56,30	104,55	3940,57	14,10	2.615
7-65-P	56,30	112,59	3944,07	15,73	2.798
7-66-P	56,30	104,55	3943,57	17,60	3.006
7-67-P	56,30	80,42	3363,57	14,93	2.764
7-68-P	40,21	64,34	2201,69	9,90	1.978
7-69-P	40,21	56,30	1791,37	6,89	1.758
7-70-P	40,21	56,30	1791,69	7,49	1.922
7-71-P	40,21	56,30	1792,09	8,22	2.118
7-72-P	40,21	40,21	1787,21	9,05	2.345
7-73-P	40,21	40,21	1787,65	9,86	2.626
7-74-P	40,21	40,21	1787,85	10,23	2.951
7-75-P	40,21	40,21	1787,60	9,77	3.258
7-76-P	40,21	40,21	1786,90	8,46	3.546
7-77-P	40,21	40,21	1785,99	6,77	3.866

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
7-78-P	40,21	40,21	1784,88	4,72	4.237
7-79-P	40,21	40,21	1770,23	-21,82	4.594
7-80-P	40,21	40,21	1771,21	-20,05	4.743
7-81-P	40,21	40,21	1772,17	-18,32	4.903
7-82-P	40,21	40,21	1773,07	-16,70	5.084
7-83-P	40,21	40,21	1773,79	-15,40	5.337
7-84-P	16,08	16,08	710,91	-5,44	4.267
8-1-P	40,21	40,21	1785,82	10,47	8.807
8-2-P	40,21	40,21	1788,72	11,84	5.761
8-3-P	40,21	40,21	1789,16	12,66	5.458
8-4-P	40,21	40,21	1789,71	13,68	5.215
8-5-P	40,21	40,21	1790,47	15,09	4.990
8-6-P	40,21	40,21	1791,31	16,66	4.794
8-7-P	40,21	40,21	1792,28	18,46	4.611
8-8-P	40,21	40,21	1793,60	20,91	4.436
8-9-P	40,21	40,21	1795,15	23,79	4.271
8-10-P	40,21	40,21	1796,62	26,52	4.089
8-11-P	40,21	40,21	1797,96	29,02	3.879
8-12-P	40,21	40,21	1792,59	19,03	3.675
8-13-P	40,21	72,38	1801,53	19,75	3.513
8-14-P	40,21	72,38	1801,87	20,36	3.358
8-15-P	40,21	72,38	1802,33	21,20	3.246
8-16-P	40,21	104,55	2223,50	33,13	3.896
8-17-P	72,38	128,68	4754,94	88,60	8.133
8-18-P	72,38	144,76	5147,84	108,68	8.566
8-19-P	72,38	144,76	5152,26	113,80	8.348
8-20-P	72,38	120,64	5148,61	118,60	8.135
8-21-P	72,38	96,51	5141,63	124,35	7.979
8-22-P	72,38	72,38	-4890,47	-148,64	7.836
8-23-P	72,38	72,38	-4894,92	-143,46	7.346
8-24-P	72,38	72,38	-4899,36	-138,31	6.757
8-25-P	72,38	72,38	-4903,27	-133,77	6.178
8-26-P	72,38	72,38	-4903,15	-133,90	5.940
8-27-P	72,38	72,38	-4902,25	-134,95	5.796
8-28-P	72,38	72,38	-4903,28	-133,76	5.627
8-29-P	72,38	72,38	-4908,08	-128,18	5.485
8-30-P	72,38	72,38	-4909,52	-126,50	5.673
8-31-P	72,38	72,38	-4913,01	-122,44	5.799
8-32-P	72,38	88,47	-5992,12	-142,25	7.154
8-33-P	72,38	104,55	-8437,23	-230,45	10.537
8-34-P	72,38	136,72	-11879,69	-318,36	15.968
8-35-P	72,38	160,85	6510,00	-334,64	16.021
8-36-P	88,47	160,85	8907,06	-378,74	18.184
8-37-P	88,47	160,85	9504,97	-317,14	16.289
8-38-P	104,55	152,81	12194,63	-328,37	17.772
8-39-P	104,55	128,68	-17617,45	1179,72	13.244
8-40-P	104,55	136,72	-18779,38	1005,26	10.551
8-41-P	104,55	136,72	-18989,50	850,49	8.648
8-42-P	104,55	136,72	-19024,90	591,47	6.894
8-43-P	104,55	136,72	-18661,97	360,61	5.741
8-44-P	104,55	136,72	-18076,01	-11,71	5.123
8-45-P	104,55	136,72	-17514,98	-356,60	5.485
8-46-P	104,55	136,72	-16610,59	-912,55	6.134
8-47-P	104,55	136,72	13500,42	-79,48	6.944
8-48-P	104,55	136,72	13216,93	-59,81	6.330
8-49-P	104,55	128,68	12918,64	-42,53	5.753
8-50-P	104,55	152,81	12652,12	-26,93	5.330
8-51-P	88,47	160,85	9939,28	-9,42	4.049
8-52-P	88,47	152,81	9409,48	0,67	3.708
8-53-P	72,38	152,81	6920,51	5,97	2.672
8-54-P	72,38	128,68	6605,33	9,14	2.517
8-55-P	72,38	96,51	6075,49	12,12	2.281
8-56-P	72,38	88,47	5040,24	10,94	1.880
8-57-P	72,38	72,38	5030,20	14,05	1.916
8-58-P	72,38	72,38	5032,56	16,86	1.954
8-59-P	72,38	72,38	5034,43	19,09	1.990
8-60-P	72,38	72,38	5036,35	21,37	2.079
8-61-P	72,38	72,38	5038,00	23,34	2.173
8-62-P	72,38	72,38	5039,62	25,27	2.271
8-63-P	72,38	72,38	5041,10	27,02	2.399
8-64-P	72,38	72,38	5042,05	28,17	2.579
8-65-P	72,38	72,38	5043,40	29,77	2.770
8-66-P	72,38	72,38	5045,21	31,92	2.972
8-67-P	72,38	96,51	5065,64	34,98	3.204
8-68-P	72,38	120,64	5079,87	38,46	3.482
8-69-P	72,38	144,76	5090,69	42,49	3.839
8-70-P	72,38	144,76	5094,88	47,34	4.268

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
8-71-P	72,38	128,68	4721,32	46,53	4.440
8-72-P	40,21	104,55	2215,30	21,05	2.338
8-73-P	40,21	72,38	1798,94	15,03	2.122
8-74-P	40,21	72,38	1799,63	16,28	2.380
8-75-P	40,21	72,38	1800,48	17,83	2.711
8-76-P	40,21	40,21	1792,99	19,78	3.131
8-77-P	40,21	40,21	1794,34	22,28	3.678
8-78-P	40,21	40,21	1769,19	-23,69	3.969
8-79-P	40,21	40,21	1770,58	-21,19	4.142
8-80-P	40,21	40,21	1771,49	-19,55	4.296
8-81-P	40,21	40,21	1772,41	-17,90	4.477
8-82-P	40,21	40,21	1773,41	-16,09	4.698
8-83-P	40,21	40,21	1774,58	-13,98	4.965
8-84-P	40,21	40,21	1775,38	-12,55	5.248
8-85-P	40,21	40,21	1775,96	-11,49	5.544
8-86-P	40,21	40,21	1776,46	-10,59	5.859
8-87-P	24,13	24,13	1066,99	-5,70	5.401
9-1-P	40,21	40,21	1784,46	4,69	7.369
9-2-P	40,21	40,21	1785,02	4,97	6.582
9-3-P	40,21	40,21	1785,14	5,19	6.242
9-4-P	40,21	40,21	1785,31	5,51	5.931
9-5-P	40,21	40,21	1785,88	6,57	5.622
9-6-P	40,21	40,21	1786,80	8,28	5.317
9-7-P	40,21	40,21	1787,51	9,61	5.041
9-8-P	40,21	40,21	1787,97	10,46	4.791
9-9-P	40,21	40,21	1788,29	11,04	4.560
9-10-P	40,21	40,21	1788,65	11,72	4.283
9-11-P	40,21	40,21	1789,18	12,70	4.019
9-12-P	40,21	72,38	1798,41	14,06	3.820
9-13-P	40,21	72,38	1798,92	15,00	3.637
9-14-P	40,21	72,38	1799,32	15,72	3.482
9-15-P	40,21	88,47	2008,26	20,01	3.722
9-16-P	72,38	136,72	4736,50	62,72	8.289
9-17-P	72,38	144,76	5118,21	74,36	8.384
9-18-P	72,38	144,76	5119,25	75,57	7.904
9-19-P	72,38	128,68	5117,06	78,47	7.562
9-20-P	72,38	88,47	5101,20	82,89	7.319
9-21-P	72,38	72,38	5092,07	87,73	7.117
9-22-P	72,38	72,38	-4886,62	-153,11	6.536
9-23-P	72,38	72,38	-4892,80	-145,93	5.762
9-24-P	72,38	72,38	-4896,94	-141,12	5.188
9-25-P	72,38	72,38	-4899,33	-138,34	4.788
9-26-P	72,38	72,38	-4902,37	-134,81	4.432
9-27-P	72,38	72,38	-4908,53	-127,66	4.058
9-28-P	72,38	104,55	-7055,54	-172,20	5.465
9-29-P	72,38	104,55	-7064,73	-161,37	5.303
9-30-P	72,38	112,59	-7605,87	-162,04	5.526
9-31-P	72,38	152,81	7328,93	353,91	9.377
9-32-P	104,55	168,89	-17291,06	-535,15	12.832
9-33-P	104,55	193,02	-23947,42	-876,35	18.425
9-34-P	104,55	209,10	-25954,84	-924,02	20.711
9-35-P	104,55	160,85	-20073,18	-708,69	17.208
9-36-P	104,55	144,76	-18065,46	-661,05	17.134
9-37-P	104,55	120,64	-15036,41	-590,66	15.968
9-38-P	104,55	104,55	-12955,69	-574,67	15.988
9-39-P	104,55	104,55	-12805,71	-666,04	19.213
9-40-P	104,55	104,55	12995,63	-548,13	16.370
9-41-P	104,55	104,55	-16871,02	1873,32	12.490
9-42-P	104,55	104,55	-15347,31	912,92	6.598
9-43-P	104,55	104,55	-14562,59	418,30	3.873
9-44-P	104,55	104,55	-14242,65	216,64	2.784
9-45-P	104,55	104,55	-14081,91	115,33	2.390
9-46-P	104,55	104,55	-13465,19	-264,26	2.639
9-47-P	104,55	104,55	-12766,64	-689,84	3.298
9-48-P	104,55	104,55	-11474,13	-1467,61	4.577
9-49-P	104,55	104,55	13788,30	-67,14	5.452
9-50-P	104,55	104,55	13825,25	-44,72	5.060
9-51-P	104,55	104,55	13855,21	-26,54	4.765
9-52-P	104,55	104,55	13880,30	-11,31	4.523
9-53-P	104,55	120,64	13928,84	2,12	4.355
9-54-P	104,55	144,76	13980,82	14,92	4.255
9-55-P	104,55	160,85	14019,69	28,65	4.173
9-56-P	104,55	209,10	14080,38	44,01	4.137
9-57-P	104,55	193,02	14098,10	60,90	4.180
9-58-P	104,55	168,89	11374,00	51,85	3.417
9-59-P	72,38	152,81	6953,93	34,44	2.119
9-60-P	72,38	112,59	5062,53	21,96	1.608

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
9-61-P	72,38	104,55	5062,36	26,07	1.686
9-62-P	72,38	104,55	5066,30	30,69	1.774
9-63-P	72,38	72,38	5048,85	36,26	1.887
9-64-P	72,38	72,38	5053,95	42,33	2.053
9-65-P	72,38	72,38	5056,25	45,08	2.211
9-66-P	72,38	72,38	5058,67	47,95	2.394
9-67-P	72,38	72,38	5061,42	51,23	2.629
9-68-P	72,38	72,38	5064,79	55,24	2.942
9-69-P	72,38	72,38	5069,05	60,32	3.288
9-70-P	72,38	88,47	5087,39	66,59	3.628
9-71-P	72,38	128,68	5112,76	73,48	4.039
9-72-P	72,38	144,76	5123,68	80,69	4.543
9-73-P	72,38	144,76	5130,67	88,80	5.191
9-74-P	72,38	136,72	4755,49	86,44	5.604
9-75-P	40,21	88,47	2015,60	31,96	2.768
9-76-P	40,21	72,38	1806,38	28,57	2.856
9-77-P	40,21	72,38	1808,51	32,45	3.344
9-78-P	40,21	72,38	1783,11	-13,47	3.790
9-79-P	40,21	40,21	1775,24	-12,79	4.032
9-80-P	40,21	40,21	1775,57	-12,20	4.335
9-81-P	40,21	40,21	1776,06	-11,32	4.626
9-82-P	40,21	40,21	1776,77	-10,03	4.866
9-83-P	40,21	40,21	1777,57	-8,59	5.126
9-84-P	40,21	40,21	1778,35	-7,18	5.380
9-85-P	40,21	40,21	1779,73	-4,70	5.608
9-86-P	40,21	40,21	1779,54	-5,05	5.861
9-87-P	40,21	40,21	1779,83	-4,51	6.173
9-88-P	40,21	40,21	1780,06	-4,11	6.544
9-89-P	32,17	32,17	1425,28	-3,18	5.914
10-1-P	40,21	40,21	1779,97	-4,26	8.300
10-2-P	40,21	40,21	1779,52	-5,09	7.749
10-3-P	40,21	40,21	1779,19	-5,67	7.266
10-4-P	40,21	40,21	1778,81	-6,35	6.857
10-5-P	40,21	40,21	1777,80	-8,17	6.496
10-6-P	40,21	40,21	1776,73	-10,11	6.174
10-7-P	40,21	40,21	1776,23	-11,01	5.864
10-8-P	40,21	40,21	1776,29	-10,90	5.568
10-9-P	40,21	40,21	1776,81	-9,96	5.267
10-10-P	40,21	40,21	1777,66	-8,43	4.893
10-11-P	40,21	72,38	1786,59	-7,27	4.584
10-12-P	40,21	72,38	1787,11	-6,35	4.300
10-13-P	40,21	72,38	1787,41	-5,81	4.058
10-14-P	40,21	72,38	1787,65	-5,39	3.845
10-15-P	72,38	120,64	4664,37	-21,25	9.499
10-16-P	72,38	144,76	5042,15	-13,46	9.576
10-17-P	72,38	144,76	5051,05	-3,36	8.982
10-18-P	72,38	144,76	5061,03	8,13	8.467
10-19-P	72,38	104,55	5057,84	20,78	7.995
10-20-P	72,38	72,38	5045,73	32,55	7.558
10-21-P	72,38	72,38	5054,37	42,84	7.130
10-22-P	72,38	72,38	-4881,54	-159,02	6.135
10-23-P	72,38	72,38	-4889,36	-149,93	5.359
10-24-P	72,38	72,38	-4895,27	-143,05	4.773
10-25-P	72,38	72,38	-4900,61	-136,85	4.297
10-26-P	72,38	104,55	-7053,01	-175,17	5.352
10-27-P	72,38	104,55	-7068,88	-156,49	4.717
10-28-P	72,38	104,55	-7079,77	-143,66	4.273
10-29-P	72,38	120,64	-9594,32	-211,77	5.294
10-30-P	104,55	176,93	-20224,37	-571,61	10.055
10-31-P	104,55	209,10	-26140,23	-808,14	12.302
10-32-P	104,55	209,10	-26166,42	-791,76	12.100
10-33-P	104,55	201,06	-25170,23	-761,41	11.419
10-34-P	104,55	144,76	-18175,12	-593,49	8.673
10-35-P	104,55	104,55	-13100,50	-486,44	6.796
10-36-P	104,55	104,55	-12986,32	-556,01	7.283
10-37-P	104,55	104,55	-12870,90	-626,32	8.068
10-38-P	104,55	104,55	-12704,95	-727,43	9.395
10-39-P	104,55	104,55	-12419,14	-901,55	11.327
10-40-P	104,55	104,55	-11915,24	-1206,71	14.392
10-41-P	104,55	104,55	11767,19	-1293,56	15.573
10-42-P	104,55	104,55	12250,13	-1000,51	12.792
10-43-P	104,55	104,55	12619,58	-776,32	10.568
10-44-P	104,55	104,55	-15194,17	816,39	8.736
10-45-P	104,55	104,55	-14751,32	537,26	7.041
10-46-P	104,55	104,55	13567,07	-201,38	6.991
10-47-P	104,55	104,55	13687,65	-128,21	6.205
10-48-P	104,55	104,55	13780,57	-71,83	5.583

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
10-49-P	104,55	104,55	13821,95	-46,72	5.114
10-50-P	104,55	104,55	13858,59	-24,48	4.711
10-51-P	104,55	104,55	13898,02	-0,56	4.362
10-52-P	104,55	104,55	13933,31	21,54	4.058
10-53-P	104,55	104,55	13956,81	36,27	3.768
10-54-P	104,55	104,55	13973,84	46,95	3.542
10-55-P	104,55	104,55	13989,39	56,70	3.370
10-56-P	104,55	104,55	14003,57	65,59	3.257
10-57-P	104,55	104,55	14012,73	71,33	3.238
10-58-P	104,55	144,76	14084,42	78,94	3.239
10-59-P	104,55	201,06	14149,77	89,23	3.272
10-60-P	104,55	209,10	14181,21	105,40	3.420
10-61-P	104,55	209,10	14217,43	127,45	3.581
10-62-P	104,55	176,93	12843,09	131,32	3.446
10-63-P	72,38	120,64	6028,59	54,32	1.769
10-64-P	72,38	104,55	5078,98	45,56	1.621
10-65-P	72,38	104,55	5086,75	54,67	1.783
10-66-P	72,38	104,55	5095,61	65,05	1.992
10-67-P	72,38	72,38	5079,75	73,06	2.215
10-68-P	72,38	72,38	5084,69	78,95	2.454
10-69-P	72,38	72,38	5090,21	85,52	2.743
10-70-P	72,38	72,38	5094,81	91,00	3.090
10-71-P	72,38	72,38	5097,57	94,29	3.502
10-72-P	72,38	72,38	5101,88	99,42	3.950
10-73-P	72,38	104,55	5132,78	108,62	4.453
10-74-P	72,38	144,76	5157,88	120,31	5.080
10-75-P	72,38	144,76	5170,21	134,59	5.887
10-76-P	72,38	144,76	5185,70	152,53	6.985
10-77-P	72,38	120,64	4803,15	152,37	7.886
10-78-P	40,21	72,38	1815,36	44,90	3.528
10-79-P	40,21	72,38	1783,38	-12,97	4.004
10-80-P	40,21	72,38	1783,64	-12,52	4.266
10-81-P	40,21	72,38	1783,95	-11,96	4.566
10-82-P	40,21	40,21	1776,04	-11,35	4.889
10-83-P	40,21	40,21	1776,30	-10,88	5.280
10-84-P	40,21	40,21	1776,73	-10,11	5.564
10-85-P	40,21	40,21	1777,23	-9,20	5.841
10-86-P	40,21	40,21	1777,86	-8,08	6.160
10-87-P	40,21	40,21	1778,60	-6,74	6.529
10-88-P	40,21	40,21	1779,43	-5,24	6.960
10-89-P	40,21	40,21	1779,75	-4,67	7.381
10-90-P	40,21	40,21	1780,10	-4,03	7.850
10-91-P	40,21	40,21	1780,50	-3,31	8.368
11-1-P	40,21	40,21	1772,29	-18,10	10.203
11-2-P	40,21	40,21	1770,82	-20,75	9.633
11-3-P	40,21	40,21	1769,40	-23,32	9.177
11-4-P	40,21	40,21	1768,17	-25,52	8.751
11-5-P	40,21	40,21	1766,72	-28,13	8.194
11-6-P	40,21	40,21	1765,03	-31,19	7.697
11-7-P	40,21	40,21	1763,11	-34,65	7.255
11-8-P	40,21	40,21	1761,00	-38,45	6.860
11-9-P	40,21	40,21	1759,53	-41,09	6.427
11-10-P	40,21	40,21	1759,37	-41,39	5.936
11-11-P	40,21	80,42	1768,41	-41,38	5.548
11-12-P	40,21	80,42	1768,68	-40,89	5.187
11-13-P	40,21	80,42	1769,09	-40,16	4.873
11-14-P	40,21	80,42	1769,29	-39,81	4.614
11-15-P	80,42	160,85	5459,04	-178,01	13.196
11-16-P	80,42	160,85	5470,96	-164,49	12.253
11-17-P	80,42	160,85	5481,44	-152,60	11.431
11-18-P	80,42	160,85	5489,89	-143,01	10.717
11-19-P	80,42	80,42	5459,90	-133,57	10.015
11-20-P	80,42	80,42	5464,41	-128,36	9.444
11-21-P	80,42	80,42	-5406,61	-196,00	8.378
11-22-P	80,42	80,42	-5423,71	-176,15	7.105
11-23-P	80,42	80,42	-5436,36	-161,46	6.122
11-24-P	80,42	80,42	-5445,93	-150,34	5.375
11-25-P	80,42	104,55	-7070,79	-170,20	6.033
11-26-P	80,42	104,55	-7095,74	-140,96	5.138
11-27-P	80,42	104,55	-7112,93	-120,82	4.458
11-28-P	80,42	120,64	-9661,05	-165,14	5.314
11-29-P	104,55	209,10	-26464,34	-605,54	12.084
11-30-P	104,55	209,10	-26624,33	-505,53	10.300
11-31-P	104,55	209,10	-26717,00	-445,77	9.032
11-32-P	104,55	201,06	-25579,12	-505,82	7.599
11-33-P	104,55	104,55	-13397,26	-305,65	3.611
11-34-P	104,55	104,55	-13349,21	-334,92	3.309

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
11-35-P	104,55	104,55	-13132,66	-466,85	3.884
11-36-P	104,55	104,55	-12834,35	-648,59	4.679
11-37-P	104,55	104,55	-12420,64	-900,64	5.759
11-38-P	104,55	104,55	-11926,50	-1200,05	7.236
11-39-P	104,55	104,55	-11228,87	-1612,68	9.384
11-40-P	104,55	104,55	-10214,99	-2212,38	12.460
11-41-P	104,55	104,55	12477,90	-862,29	13.431
11-42-P	104,55	104,55	10299,02	-2169,56	12.166
11-43-P	104,55	104,55	11636,56	-1372,83	9.562
11-44-P	104,55	104,55	12545,46	-821,30	7.855
11-45-P	104,55	104,55	13182,17	-434,94	6.530
11-46-P	104,55	104,55	13635,17	-160,06	5.588
11-47-P	104,55	104,55	13933,53	21,68	5.014
11-48-P	104,55	104,55	14116,09	136,12	4.905
11-49-P	104,55	104,55	14183,52	178,38	4.650
11-50-P	104,55	104,55	14196,93	186,78	4.351
11-51-P	104,55	104,55	14207,15	193,19	4.084
11-52-P	104,55	104,55	14126,57	142,68	3.679
11-53-P	104,55	104,55	14064,85	103,99	3.336
11-54-P	104,55	104,55	14034,18	84,77	3.071
11-55-P	104,55	104,55	14028,81	81,40	2.844
11-56-P	104,55	104,55	14050,78	95,17	2.622
11-57-P	104,55	104,55	14068,61	106,35	2.419
11-58-P	104,55	104,55	14080,99	114,11	2.242
11-59-P	104,55	104,55	14119,99	138,56	2.412
11-60-P	104,55	209,10	14288,97	171,00	2.672
11-61-P	104,55	209,10	14360,01	214,25	2.997
11-62-P	104,55	209,10	14429,58	256,61	3.362
11-63-P	104,55	209,10	14511,17	306,28	3.840
11-64-P	80,42	120,64	6739,10	106,99	2.050
11-65-P	80,42	104,55	5666,48	85,16	1.915
11-66-P	80,42	104,55	5677,30	97,88	2.155
11-67-P	80,42	104,55	5690,28	113,13	2.461
11-68-P	80,42	80,42	5682,51	127,35	2.809
11-69-P	80,42	80,42	5686,29	131,85	3.119
11-70-P	80,42	80,42	5690,86	137,28	3.499
11-71-P	80,42	80,42	5696,06	143,47	3.973
11-72-P	80,42	80,42	5701,64	150,10	4.587
11-73-P	80,42	80,42	5709,99	160,03	5.276
11-74-P	80,42	160,85	5768,19	175,96	6.076
11-75-P	80,42	160,85	5784,80	195,16	7.084
11-76-P	80,42	160,85	5808,09	222,08	8.498
11-77-P	80,42	160,85	5842,59	261,97	10.611
11-78-P	40,21	80,42	1826,94	63,88	4.234
11-79-P	40,21	80,42	1786,98	-8,41	4.777
11-80-P	40,21	80,42	1787,16	-8,09	5.122
11-81-P	40,21	80,42	1787,31	-7,83	5.541
11-82-P	40,21	40,21	1778,17	-7,52	6.000
11-83-P	40,21	40,21	1778,35	-7,19	6.574
11-84-P	40,21	40,21	1778,73	-6,50	7.067
11-85-P	40,21	40,21	1779,25	-5,56	7.511
11-86-P	40,21	40,21	1779,69	-4,78	7.946
11-87-P	40,21	40,21	1779,98	-4,25	8.348
11-88-P	40,21	40,21	1780,12	-4,00	8.713
11-89-P	40,21	40,21	1780,35	-3,58	9.239
11-90-P	40,21	40,21	1780,63	-3,08	9.875
11-91-P	40,21	40,21	1780,89	-2,62	10.615
12-1-P	48,25	48,25	-2114,77	-40,80	14.421
12-2-P	48,25	48,25	-2111,38	-46,93	13.762
12-3-P	48,25	48,25	-2108,23	-52,63	13.204
12-4-P	48,25	48,25	-2103,81	-60,64	12.678
12-5-P	48,25	48,25	-2096,20	-74,42	12.029
12-6-P	48,25	48,25	-2089,79	-86,03	11.468
12-7-P	48,25	48,25	-2084,48	-95,65	10.974
12-8-P	48,25	48,25	-2080,03	-103,71	10.532
12-9-P	48,25	48,25	-2077,43	-108,43	10.038
12-10-P	48,25	48,25	2076,86	-108,91	9.332
12-11-P	48,25	80,42	2085,89	-109,14	8.701
12-12-P	48,25	80,42	2085,37	-110,07	8.154
12-13-P	48,25	80,42	2084,24	-112,07	7.705
12-14-P	48,25	80,42	2083,24	-113,85	7.303
12-15-P	80,42	160,85	5245,94	-419,72	16.672
12-16-P	80,42	160,85	5263,98	-399,26	15.203
12-17-P	80,42	160,85	5280,11	-380,96	13.990
12-18-P	80,42	160,85	5292,90	-366,46	13.017
12-19-P	80,42	80,42	-5360,45	-249,61	11.921
12-20-P	80,42	80,42	-5387,67	-217,99	9.932

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
12-21-P	80,42	80,42	-5409,09	-193,13	8.400
12-22-P	80,42	80,42	-5424,96	-174,70	7.283
12-23-P	80,42	80,42	-5437,46	-160,19	6.405
12-24-P	80,42	104,55	-7054,99	-188,71	7.270
12-25-P	80,42	104,55	-7090,53	-147,07	6.092
12-26-P	80,42	104,55	-7116,00	-117,22	5.233
12-27-P	80,42	104,55	-7134,58	-95,44	4.585
12-28-P	104,55	209,10	-26597,22	-522,47	14.955
12-29-P	104,55	209,10	-26984,58	-271,92	12.421
12-30-P	104,55	209,10	-27192,30	-136,96	10.523
12-31-P	104,55	209,10	-27130,36	-177,20	7.973
12-32-P	104,55	104,55	-13651,97	-150,46	2.858
12-33-P	104,55	104,55	-13594,70	-185,36	2.292
12-34-P	104,55	104,55	-13548,82	-213,31	2.019
12-35-P	104,55	104,55	-13361,83	-327,23	2.371
12-36-P	104,55	104,55	-13058,18	-512,22	3.005
12-37-P	104,55	104,55	-12453,72	-880,49	4.339
12-38-P	104,55	104,55	-11502,25	-1450,98	6.347
12-39-P	104,55	104,55	11524,02	-1441,12	8.623
12-40-P	104,55	104,55	11487,12	-1463,51	7.906
12-41-P	104,55	104,55	11496,88	-1457,58	7.333
12-42-P	104,55	104,55	11981,93	-1163,25	6.619
12-43-P	104,55	104,55	12683,69	-737,42	5.885
12-44-P	104,55	104,55	13248,57	-394,65	5.303
12-45-P	104,55	104,55	13152,27	-453,08	4.702
12-46-P	104,55	104,55	13563,30	-203,67	4.098
12-47-P	104,55	104,55	13880,02	-11,48	4.090
12-48-P	104,55	104,55	14176,59	174,03	4.252
12-49-P	104,55	104,55	14496,65	374,66	4.430
12-50-P	104,55	104,55	14707,69	506,94	4.468
12-51-P	104,55	104,55	14634,69	461,18	4.144
12-52-P	104,55	104,55	14437,70	337,70	3.653
12-53-P	104,55	104,55	14270,17	232,69	3.265
12-54-P	104,55	104,55	14118,57	137,67	2.952
12-55-P	104,55	104,55	14035,79	85,78	2.532
12-56-P	104,55	104,55	14051,21	95,44	2.039
12-57-P	104,55	104,55	14062,33	102,41	1.751
12-58-P	104,55	104,55	14071,57	108,20	1.571
12-59-P	104,55	104,55	14126,46	142,61	1.757
12-60-P	104,55	104,55	14222,21	202,63	2.108
12-61-P	104,55	209,10	14521,19	312,38	2.770
12-62-P	104,55	209,10	14673,76	405,27	3.419
12-63-P	104,55	209,10	14738,57	444,73	3.920
12-64-P	104,55	209,10	14791,31	476,84	4.561
12-65-P	80,42	104,55	5684,64	106,50	1.963
12-66-P	80,42	104,55	5695,51	119,28	2.211
12-67-P	80,42	104,55	5708,90	135,01	2.527
12-68-P	80,42	104,55	5721,56	149,89	2.897
12-69-P	80,42	80,42	5704,91	153,99	3.214
12-70-P	80,42	80,42	5709,03	158,89	3.621
12-71-P	80,42	80,42	5714,05	164,87	4.143
12-72-P	80,42	80,42	5721,24	173,42	4.829
12-73-P	80,42	80,42	5732,67	187,00	5.563
12-74-P	80,42	160,85	5793,62	205,35	6.423
12-75-P	80,42	160,85	5811,46	225,98	7.491
12-76-P	80,42	160,85	5833,86	251,87	8.946
12-77-P	80,42	160,85	5866,07	289,10	11.085
12-78-P	48,25	80,42	2193,00	83,30	5.330
12-79-P	48,25	80,42	2200,19	96,37	6.502
12-80-P	48,25	80,42	2147,42	0,39	8.328
12-81-P	48,25	80,42	2147,62	0,74	8.972
12-82-P	48,25	48,25	2137,77	0,88	9.652
12-83-P	48,25	48,25	-2137,77	0,89	9.860
12-84-P	48,25	48,25	-2137,61	0,60	10.178
12-85-P	48,25	48,25	-2137,37	0,14	10.767
12-86-P	48,25	48,25	-2137,23	-0,10	11.452
12-87-P	48,25	48,25	-2137,27	-0,03	12.252
12-88-P	48,25	48,25	-2137,48	0,36	13.199
12-89-P	48,25	48,25	-2137,54	0,47	13.814
12-90-P	48,25	48,25	-2137,53	0,45	14.277
12-91-P	48,25	48,25	-2137,51	0,41	14.756
13-1-P	40,21	40,21	-1760,77	-39,07	11.090
13-2-P	40,21	40,21	-1757,57	-44,86	10.399
13-3-P	40,21	40,21	-1754,65	-50,15	9.783
13-4-P	40,21	40,21	-1751,44	-55,96	9.263
13-5-P	40,21	40,21	-1745,99	-65,83	8.907
13-6-P	40,21	40,21	-1740,02	-76,65	8.554

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
13-7-P	40,21	40,21	-1733,93	-87,68	8.195
13-8-P	40,21	40,21	-1727,85	-98,68	7.840
13-9-P	40,21	40,21	-1723,03	-107,42	7.498
13-10-P	40,21	40,21	-1719,89	-113,10	7.164
13-11-P	40,21	80,42	1686,70	-186,40	10.808
13-12-P	40,21	80,42	1686,39	-186,95	9.986
13-13-P	40,21	80,42	1685,07	-189,31	9.377
13-14-P	40,21	80,42	1682,37	-194,09	8.933
13-15-P	80,42	160,85	4864,09	-851,82	23.834
13-16-P	80,42	160,85	4876,39	-838,04	22.033
13-17-P	80,42	160,85	4887,44	-825,66	20.505
13-18-P	80,42	160,85	4899,17	-812,51	19.152
13-19-P	80,42	80,42	-5367,67	-241,22	11.107
13-20-P	80,42	80,42	-5386,75	-219,07	9.677
13-21-P	80,42	80,42	-5406,00	-196,72	8.135
13-22-P	80,42	80,42	-5421,59	-178,61	6.953
13-23-P	80,42	80,42	-5433,78	-164,46	6.059
13-24-P	80,42	80,42	-5443,26	-153,44	5.371
13-25-P	80,42	104,55	-7067,05	-174,58	6.042
13-26-P	80,42	104,55	-7092,14	-145,17	5.142
13-27-P	80,42	104,55	-7110,36	-123,83	4.472
13-28-P	80,42	120,64	-9660,04	-166,15	5.356
13-29-P	104,55	209,10	-26454,18	-611,89	12.179
13-30-P	104,55	209,10	-26607,73	-515,91	10.361
13-31-P	104,55	209,10	-26694,04	-460,69	9.040
13-32-P	104,55	201,06	-25562,52	-516,19	7.571
13-33-P	104,55	104,55	-13399,46	-304,31	3.569
13-34-P	104,55	104,55	-13347,44	-336,00	3.315
13-35-P	104,55	104,55	-13131,38	-467,63	3.840
13-36-P	104,55	104,55	-12822,98	-655,52	4.564
13-37-P	104,55	104,55	-12402,28	-911,82	5.576
13-38-P	104,55	104,55	11824,22	-1258,95	6.957
13-39-P	104,55	104,55	12050,78	-1121,47	6.130
13-40-P	104,55	104,55	12182,74	-1041,40	5.515
13-41-P	104,55	104,55	12356,71	-935,84	4.971
13-42-P	104,55	104,55	12684,75	-736,78	4.487
13-43-P	104,55	104,55	12957,04	-571,55	4.088
13-44-P	104,55	104,55	13212,66	-416,44	3.762
13-45-P	104,55	104,55	13601,30	-180,61	3.667
13-46-P	104,55	104,55	13782,53	-70,64	3.848
13-47-P	104,55	104,55	13828,35	-42,84	3.999
13-48-P	104,55	104,55	13874,58	-14,78	4.183
13-49-P	104,55	104,55	13930,52	19,80	4.600
13-50-P	104,55	104,55	14239,75	213,63	4.309
13-51-P	104,55	104,55	14197,38	187,07	4.058
13-52-P	104,55	104,55	14135,29	148,15	3.694
13-53-P	104,55	104,55	14081,06	114,16	3.351
13-54-P	104,55	104,55	14051,91	95,89	3.082
13-55-P	104,55	104,55	14042,23	89,82	2.860
13-56-P	104,55	104,55	14058,41	99,96	2.639
13-57-P	104,55	104,55	14071,58	108,21	2.433
13-58-P	104,55	104,55	14080,40	113,74	2.247
13-59-P	104,55	104,55	14118,43	137,58	2.414
13-60-P	104,55	209,10	14288,10	170,48	2.674
13-61-P	104,55	209,10	14361,06	214,90	2.998
13-62-P	104,55	209,10	14434,03	259,32	3.365
13-63-P	104,55	209,10	14519,85	311,57	3.847
13-64-P	80,42	120,64	6740,91	108,78	2.053
13-65-P	80,42	104,55	5666,79	85,53	1.915
13-66-P	80,42	104,55	5676,98	97,50	2.153
13-67-P	80,42	104,55	5689,61	112,34	2.459
13-68-P	80,42	80,42	5680,19	124,59	2.790
13-69-P	80,42	80,42	5683,59	128,64	3.093
13-70-P	80,42	80,42	5687,73	133,56	3.466
13-71-P	80,42	80,42	5693,16	140,03	3.944
13-72-P	80,42	80,42	5700,14	148,32	4.576
13-73-P	80,42	80,42	5709,10	158,98	5.285
13-74-P	80,42	160,85	5766,67	174,21	6.075
13-75-P	80,42	160,85	5782,88	192,95	7.073
13-76-P	80,42	160,85	5805,88	219,53	8.474
13-77-P	80,42	160,85	5839,78	258,72	10.566
13-78-P	40,21	80,42	1826,45	62,99	4.207
13-79-P	40,21	80,42	1831,75	72,60	5.103
13-80-P	40,21	80,42	1839,41	86,49	6.445
13-81-P	40,21	80,42	1852,05	109,42	8.703
13-82-P	40,21	40,21	-1787,69	10,02	7.256
13-83-P	40,21	40,21	-1787,40	9,47	7.333

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
13-84-P	40,21	40,21	-1787,15	9,00	7.563
13-85-P	40,21	40,21	-1786,81	8,37	7.929
13-86-P	40,21	40,21	-1786,32	7,45	8.350
13-87-P	40,21	40,21	-1785,65	6,19	8.837
13-88-P	40,21	40,21	-1784,76	4,53	9.399
13-89-P	40,21	40,21	-1784,47	3,99	9.643
13-90-P	40,21	40,21	-1784,24	3,55	9.884
13-91-P	40,21	40,21	-1783,95	3,01	10.181
14-1-P	40,21	40,21	-1780,23	-3,82	9.591
14-2-P	40,21	40,21	-1779,90	-4,42	9.072
14-3-P	40,21	40,21	-1756,14	-47,45	8.601
14-4-P	40,21	40,21	-1753,17	-52,83	8.191
14-5-P	40,21	40,21	-1745,54	-66,65	7.817
14-6-P	40,21	40,21	-1738,09	-80,15	7.499
14-7-P	40,21	40,21	-1731,33	-92,39	7.221
14-8-P	40,21	40,21	-1725,20	-103,48	6.977
14-9-P	40,21	40,21	-1719,49	-113,82	6.761
14-10-P	40,21	40,21	-1714,63	-122,62	6.605
14-11-P	40,21	72,38	-3045,35	-235,84	11.596
14-12-P	40,21	72,38	-3035,45	-254,18	11.478
14-13-P	40,21	72,38	-3025,81	-272,04	11.371
14-14-P	40,21	72,38	-3016,35	-289,56	11.267
14-15-P	72,38	120,64	-6892,27	-1015,62	25.863
14-16-P	72,38	144,76	-9440,26	-555,40	29.373
14-17-P	72,38	144,76	-9498,06	-483,82	24.490
14-18-P	72,38	144,76	-9539,74	-432,21	21.001
14-19-P	72,38	104,55	-6959,14	-285,72	13.359
14-20-P	72,38	72,38	-4860,51	-183,45	8.269
14-21-P	72,38	72,38	-4872,53	-169,48	7.115
14-22-P	72,38	72,38	-4882,26	-158,17	6.053
14-23-P	72,38	72,38	-4889,71	-149,52	5.284
14-24-P	72,38	72,38	-4895,46	-142,84	4.710
14-25-P	72,38	72,38	-4900,93	-136,48	4.248
14-26-P	72,38	104,55	-7051,62	-176,81	5.369
14-27-P	72,38	104,55	-7066,76	-158,99	4.777
14-28-P	72,38	104,55	-7078,05	-145,69	4.337
14-29-P	72,38	120,64	-9592,32	-213,77	5.362
14-30-P	104,55	176,93	-20213,87	-578,82	10.178
14-31-P	104,55	209,10	-26144,72	-805,33	12.389
14-32-P	104,55	209,10	-26202,89	-768,97	12.098
14-33-P	104,55	201,06	-25224,81	-727,29	11.352
14-34-P	104,55	144,76	-18230,29	-559,50	8.630
14-35-P	104,55	104,55	-13166,90	-445,99	6.670
14-36-P	104,55	104,55	-13088,31	-493,87	7.079
14-37-P	104,55	104,55	11523,89	-1441,19	6.761
14-38-P	104,55	104,55	11713,61	-1326,07	5.886
14-39-P	104,55	104,55	11879,79	-1225,23	5.224
14-40-P	104,55	104,55	12070,72	-1109,37	4.533
14-41-P	104,55	104,55	12310,63	-963,79	3.846
14-42-P	104,55	104,55	12485,78	-857,51	3.365
14-43-P	104,55	104,55	12667,97	-746,96	3.003
14-44-P	104,55	104,55	13068,89	-503,68	2.720
14-45-P	104,55	104,55	13476,99	-256,04	2.701
14-46-P	104,55	104,55	13731,18	-101,80	2.675
14-47-P	104,55	104,55	13815,68	-50,53	2.617
14-48-P	104,55	104,55	13909,27	6,48	2.852
14-49-P	104,55	104,55	14009,72	69,44	3.414
14-50-P	104,55	104,55	14070,03	107,24	3.902
14-51-P	104,55	104,55	13879,92	-11,54	4.333
14-52-P	104,55	104,55	13929,94	19,43	4.051
14-53-P	104,55	104,55	13956,26	35,93	3.773
14-54-P	104,55	104,55	13976,17	48,41	3.551
14-55-P	104,55	104,55	13996,39	61,08	3.379
14-56-P	104,55	104,55	14013,96	72,10	3.267
14-57-P	104,55	104,55	14021,55	76,85	3.246
14-58-P	104,55	144,76	14092,06	83,66	3.245
14-59-P	104,55	201,06	14157,66	94,03	3.275
14-60-P	104,55	209,10	14191,46	111,64	3.423
14-61-P	104,55	209,10	14229,51	134,80	3.585
14-62-P	104,55	176,93	12854,02	138,71	3.452
14-63-P	72,38	120,64	6032,00	57,69	1.776
14-64-P	72,38	104,55	5081,85	48,92	1.634
14-65-P	72,38	104,55	5090,35	58,89	1.802
14-66-P	72,38	104,55	5097,64	67,44	1.998
14-67-P	72,38	72,38	5079,42	72,67	2.201
14-68-P	72,38	72,38	5083,09	77,05	2.442
14-69-P	72,38	72,38	5087,16	81,88	2.723

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
14-70-P	72,38	72,38	5090,30	85,63	3.020
14-71-P	72,38	72,38	5094,14	90,20	3.399
14-72-P	72,38	72,38	5099,28	96,32	3.891
14-73-P	72,38	104,55	5130,50	105,96	4.441
14-74-P	72,38	144,76	5155,73	117,82	5.073
14-75-P	72,38	144,76	5168,01	132,04	5.883
14-76-P	72,38	144,76	5183,88	150,42	6.993
14-77-P	72,38	120,64	4802,68	151,78	7.928
14-78-P	40,21	72,38	1815,15	44,52	3.536
14-79-P	40,21	72,38	1818,11	49,91	4.178
14-80-P	40,21	72,38	1822,41	57,73	5.109
14-81-P	40,21	72,38	1829,28	70,24	6.589
14-82-P	40,21	40,21	-1791,32	16,81	6.753
14-83-P	40,21	40,21	-1790,29	14,89	6.722
14-84-P	40,21	40,21	-1789,35	13,11	6.928
14-85-P	40,21	40,21	-1788,45	11,44	7.230
14-86-P	40,21	40,21	-1787,63	9,90	7.588
14-87-P	40,21	40,21	-1786,86	8,46	8.010
14-88-P	40,21	40,21	-1786,11	7,06	8.448
14-89-P	40,21	40,21	-1785,60	6,10	8.794
14-90-P	40,21	40,21	-1785,11	5,19	9.141
14-91-P	40,21	40,21	-1784,57	4,17	9.506
15-1-P	40,21	40,21	-1778,37	-6,45	9.651
15-2-P	40,21	40,21	-1778,32	-7,27	8.606
15-3-P	40,21	40,21	-1777,86	-8,12	8.134
15-4-P	40,21	40,21	-1777,33	-9,07	7.747
15-5-P	40,21	40,21	-1776,64	-10,32	7.490
15-6-P	40,21	40,21	-1740,83	-75,18	7.303
15-7-P	40,21	40,21	-1732,77	-89,78	7.106
15-8-P	40,21	40,21	-1724,61	-104,56	6.904
15-9-P	40,21	40,21	-1716,92	-118,47	6.716
15-10-P	40,21	40,21	-1710,20	-130,65	6.596
15-11-P	40,21	40,21	-1703,99	-141,90	6.525
15-12-P	40,21	72,38	-3025,07	-273,41	11.538
15-13-P	40,21	72,38	-3011,49	-298,57	11.613
15-14-P	40,21	72,38	-2994,41	-330,21	11.883
15-15-P	40,21	88,47	-4193,55	-172,74	14.281
15-16-P	72,38	136,72	-8383,18	-390,82	23.814
15-17-P	72,38	144,76	-9552,66	-416,20	22.553
15-18-P	72,38	144,76	-9586,18	-374,70	19.382
15-19-P	72,38	128,68	-8568,92	-308,28	15.284
15-20-P	72,38	88,47	-5942,06	-200,81	9.589
15-21-P	72,38	72,38	-4883,48	-156,76	7.103
15-22-P	72,38	72,38	-4888,81	-150,56	6.365
15-23-P	72,38	72,38	-4893,03	-145,66	5.680
15-24-P	72,38	72,38	-4896,10	-142,09	5.144
15-25-P	72,38	72,38	-4898,31	-139,53	4.738
15-26-P	72,38	72,38	-4900,76	-136,68	4.415
15-27-P	72,38	72,38	-4906,47	-130,04	4.106
15-28-P	72,38	104,55	-7053,63	-174,44	5.612
15-29-P	72,38	104,55	-7065,06	-160,98	5.384
15-30-P	72,38	112,59	-7607,66	-159,92	5.570
15-31-P	72,38	152,81	5557,67	-1115,96	7.400
15-32-P	104,55	168,89	8968,75	-1712,25	9.785
15-33-P	104,55	193,02	10413,01	-2109,95	9.548
15-34-P	104,55	209,10	10765,28	-1904,45	8.428
15-35-P	104,55	160,85	11007,37	-1759,21	7.278
15-36-P	104,55	144,76	11209,34	-1639,16	6.350
15-37-P	104,55	120,64	11382,25	-1534,67	5.613
15-38-P	104,55	104,55	11470,97	-1473,30	4.831
15-39-P	104,55	104,55	11452,56	-1484,48	4.130
15-40-P	104,55	104,55	11503,36	-1453,65	3.596
15-41-P	104,55	104,55	11750,55	-1303,66	3.119
15-42-P	104,55	104,55	12528,94	-831,32	2.504
15-43-P	104,55	104,55	13147,26	-456,13	2.054
15-44-P	104,55	104,55	13565,01	-202,63	1.770
15-45-P	104,55	104,55	13764,65	-81,49	1.632
15-46-P	104,55	104,55	13837,69	-37,17	1.807
15-47-P	104,55	104,55	13949,62	31,77	2.212
15-48-P	104,55	104,55	14131,48	145,76	2.907
15-49-P	104,55	104,55	14359,93	288,96	3.874
15-50-P	104,55	104,55	14422,29	328,05	4.515
15-51-P	104,55	104,55	13844,62	-32,97	4.762
15-52-P	104,55	104,55	13870,84	-17,05	4.520
15-53-P	104,55	120,64	13921,45	-2,41	4.351
15-54-P	104,55	144,76	13976,36	12,17	4.248
15-55-P	104,55	160,85	14017,49	27,30	4.163

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
15-56-P	104,55	209,10	14079,97	43,76	4.128
15-57-P	104,55	193,02	14100,50	62,37	4.175
15-58-P	104,55	168,89	11376,99	54,10	3.420
15-59-P	72,38	152,81	6956,22	36,39	2.129
15-60-P	72,38	112,59	5063,82	23,46	1.614
15-61-P	72,38	104,55	5064,85	28,99	1.702
15-62-P	72,38	104,55	5069,61	34,57	1.800
15-63-P	72,38	72,38	5051,32	39,20	1.911
15-64-P	72,38	72,38	5053,93	42,31	2.053
15-65-P	72,38	72,38	5056,62	45,52	2.229
15-66-P	72,38	72,38	5059,42	48,85	2.422
15-67-P	72,38	72,38	5061,68	51,54	2.638
15-68-P	72,38	72,38	5063,66	53,90	2.896
15-69-P	72,38	72,38	5066,03	56,72	3.211
15-70-P	72,38	88,47	5082,78	61,15	3.580
15-71-P	72,38	128,68	5107,60	67,47	4.001
15-72-P	72,38	144,76	5118,87	75,12	4.504
15-73-P	72,38	144,76	5127,15	84,71	5.173
15-74-P	72,38	136,72	4754,15	84,76	5.626
15-75-P	40,21	88,47	2015,48	31,76	2.787
15-76-P	40,21	72,38	1806,09	28,03	2.856
15-77-P	40,21	72,38	1807,95	31,43	3.315
15-78-P	40,21	72,38	1810,33	35,75	3.938
15-79-P	40,21	40,21	1804,62	41,37	4.807
15-80-P	40,21	40,21	1808,95	49,42	6.125
15-81-P	40,21	40,21	-1791,70	17,52	6.377
15-82-P	40,21	40,21	-1790,69	15,64	6.607
15-83-P	40,21	40,21	-1789,58	13,55	6.867
15-84-P	40,21	40,21	-1788,31	11,18	7.154
15-85-P	40,21	40,21	-1786,90	8,53	7.468
15-86-P	40,21	40,21	-1785,88	6,62	7.754
15-87-P	40,21	40,21	-1785,32	5,59	8.010
15-88-P	40,21	40,21	-1784,73	4,48	8.299
15-89-P	32,17	32,17	-1428,48	2,69	7.305
16-1-P	40,21	40,21	-1775,02	-9,31	12.648
16-2-P	40,21	40,21	-1776,59	-10,41	8.245
16-3-P	40,21	40,21	-1776,03	-11,42	7.803
16-4-P	40,21	40,21	-1775,46	-12,46	7.402
16-5-P	40,21	40,21	-1774,62	-13,98	7.087
16-6-P	40,21	40,21	-1773,18	-16,58	6.910
16-7-P	40,21	40,21	-1771,78	-19,13	6.773
16-8-P	40,21	40,21	-1727,23	-99,81	6.677
16-9-P	40,21	40,21	-1718,98	-114,74	6.595
16-10-P	40,21	40,21	-1710,41	-130,27	6.600
16-11-P	40,21	40,21	-1700,86	-147,57	6.738
16-12-P	40,21	40,21	-1690,81	-165,77	6.916
16-13-P	40,21	72,38	-2994,71	-329,65	12.660
16-14-P	40,21	72,38	-3118,56	-100,19	11.105
16-15-P	40,21	72,38	-3122,18	-93,49	9.825
16-16-P	40,21	104,55	-5440,64	-188,29	15.390
16-17-P	72,38	128,68	-7954,18	-300,02	20.119
16-18-P	72,38	144,76	-9600,07	-357,50	21.535
16-19-P	72,38	144,76	-9618,64	-334,50	19.314
16-20-P	72,38	120,64	-8062,24	-264,14	14.644
16-21-P	72,38	96,51	-6486,75	-201,78	10.789
16-22-P	72,38	72,38	-4892,99	-145,71	7.614
16-23-P	72,38	72,38	-4897,03	-141,01	7.188
16-24-P	72,38	72,38	-4900,00	-137,57	6.783
16-25-P	72,38	72,38	-4902,44	-134,72	6.366
16-26-P	72,38	72,38	-4904,84	-131,94	5.984
16-27-P	72,38	72,38	-4906,44	-130,08	5.698
16-28-P	72,38	72,38	-4908,92	-127,20	5.552
16-29-P	72,38	72,38	-4908,65	-127,51	5.690
16-30-P	72,38	72,38	4528,11	-567,20	5.211
16-31-P	72,38	72,38	4587,32	-498,70	4.463
16-32-P	72,38	88,47	4647,80	-440,48	3.887
16-33-P	72,38	104,55	5429,46	-519,20	3.870
16-34-P	72,38	136,72	5505,19	-456,75	3.405
16-35-P	72,38	160,85	6267,33	-533,82	3.421
16-36-P	88,47	160,85	8487,46	-691,69	4.001
16-37-P	88,47	160,85	9023,31	-656,70	3.664
16-38-P	104,55	152,81	11514,13	-776,74	4.108
16-39-P	104,55	128,68	11852,64	-731,61	3.649
16-40-P	104,55	136,72	12226,03	-684,03	3.268
16-41-P	104,55	136,72	12630,23	-615,02	2.997
16-42-P	104,55	136,72	13257,64	-414,84	2.765
16-43-P	104,55	136,72	13677,96	-161,99	2.582

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
16-44-P	104,55	136,72	13758,48	-113,55	2.439
16-45-P	104,55	136,72	13822,56	-75,00	2.613
16-46-P	104,55	136,72	13923,61	-14,21	2.904
16-47-P	104,55	136,72	13692,98	40,19	3.247
16-48-P	104,55	136,72	13399,86	57,04	3.570
16-49-P	104,55	128,68	13087,68	68,71	4.027
16-50-P	104,55	152,81	12812,43	80,83	4.573
16-51-P	88,47	160,85	9938,09	-10,27	4.050
16-52-P	88,47	152,81	9407,95	-0,50	3.698
16-53-P	72,38	152,81	6919,55	5,15	2.657
16-54-P	72,38	128,68	5984,70	7,58	2.273
16-55-P	72,38	96,51	5971,52	11,08	2.241
16-56-P	72,38	88,47	5039,43	9,98	1.873
16-57-P	72,38	72,38	5029,53	13,25	1.906
16-58-P	72,38	72,38	5032,50	16,78	1.962
16-59-P	72,38	72,38	5034,80	19,53	2.019
16-60-P	72,38	72,38	5036,58	21,65	2.084
16-61-P	72,38	72,38	5037,76	23,05	2.168
16-62-P	72,38	72,38	5039,18	24,75	2.276
16-63-P	72,38	72,38	5040,92	26,81	2.411
16-64-P	72,38	72,38	5041,85	27,92	2.580
16-65-P	72,38	72,38	5043,06	29,36	2.768
16-66-P	72,38	72,38	5044,69	31,31	2.974
16-67-P	72,38	96,51	5064,70	33,87	3.211
16-68-P	72,38	120,64	5078,73	37,14	3.495
16-69-P	72,38	144,76	5089,75	41,40	3.857
16-70-P	72,38	144,76	5094,20	46,55	4.295
16-71-P	72,38	128,68	4720,96	46,08	4.473
16-72-P	40,21	104,55	2215,17	20,85	2.356
16-73-P	40,21	72,38	1798,84	14,85	2.135
16-74-P	40,21	72,38	1799,50	16,04	2.386
16-75-P	40,21	72,38	1800,27	17,46	2.711
16-76-P	40,21	40,21	1792,70	19,25	3.129
16-77-P	40,21	40,21	1794,01	21,68	3.694
16-78-P	40,21	40,21	1795,18	23,85	4.343
16-79-P	40,21	40,21	1795,15	23,79	4.871
16-80-P	40,21	40,21	1794,27	22,16	5.357
16-81-P	40,21	40,21	1792,86	19,54	5.858
16-82-P	40,21	40,21	1790,78	15,67	6.345
16-83-P	40,21	40,21	1788,52	11,48	6.869
16-84-P	40,21	40,21	1786,69	8,07	7.468
16-85-P	40,21	40,21	-1783,87	2,87	7.782
16-86-P	40,21	40,21	-1783,15	1,52	8.074
16-87-P	24,13	24,13	-1070,47	0,57	7.176
17-1-P	40,21	40,21	-1772,11	-13,25	15.935
17-2-P	40,21	40,21	-1773,70	-15,64	8.272
17-3-P	40,21	40,21	-1773,03	-16,86	7.867
17-4-P	40,21	40,21	-1772,20	-18,37	7.586
17-5-P	40,21	40,21	-1771,14	-20,29	7.396
17-6-P	40,21	40,21	-1769,84	-22,64	7.287
17-7-P	40,21	40,21	-1767,98	-26,00	7.266
17-8-P	40,21	40,21	-1765,78	-29,99	7.261
17-9-P	40,21	40,21	-1763,60	-33,95	7.251
17-10-P	40,21	40,21	-1761,40	-37,92	7.250
17-11-P	40,21	40,21	-1759,01	-42,26	7.329
17-12-P	40,21	40,21	-1756,08	-47,56	7.553
17-13-P	40,21	40,21	-1752,37	-54,28	8.132
17-14-P	40,21	56,30	-2442,63	-70,62	10.135
17-15-P	40,21	56,30	-2444,96	-66,34	9.136
17-16-P	40,21	56,30	-2446,95	-62,70	8.300
17-17-P	40,21	64,34	-3402,04	-101,82	10.419
17-18-P	56,30	80,42	-4639,27	-141,34	12.761
17-19-P	56,30	104,55	-6975,18	-226,61	17.655
17-20-P	56,30	112,59	-7516,96	-227,91	17.625
17-21-P	56,30	104,55	-6998,35	-198,99	15.264
17-22-P	56,30	88,47	-5952,72	-159,32	12.124
17-23-P	56,30	64,34	-4359,57	-110,27	8.323
17-24-P	56,30	56,30	-3823,34	-95,09	7.087
17-25-P	56,30	56,30	-3822,84	-95,67	7.095
17-26-P	56,30	56,30	3544,61	-417,21	6.107
17-27-P	56,30	56,30	3587,13	-367,99	5.147
17-28-P	56,30	56,30	3624,78	-324,42	4.306
17-29-P	56,30	56,30	3660,73	-282,82	3.628
17-30-P	56,30	56,30	3695,50	-242,58	3.122
17-31-P	56,30	56,30	3724,21	-209,36	2.737
17-32-P	56,30	56,30	3747,38	-182,54	2.433
17-33-P	56,30	56,30	3766,04	-160,95	2.191

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
17-34-P	56,30	56,30	3788,08	-135,44	1.949
17-35-P	56,30	56,30	3811,32	-108,55	1.714
17-36-P	56,30	56,30	3829,36	-87,67	1.536
17-37-P	56,30	56,30	3843,75	-71,02	1.399
17-38-P	56,30	56,30	3859,16	-53,19	1.275
17-39-P	56,30	56,30	3873,59	-36,48	1.177
17-40-P	56,30	56,30	3879,42	-29,73	1.107
17-41-P	56,30	56,30	3881,68	-27,13	1.059
17-42-P	56,30	56,30	3883,96	-24,48	1.045
17-43-P	56,30	56,30	3886,24	-21,85	1.050
17-44-P	56,30	56,30	3887,82	-20,01	1.068
17-45-P	56,30	56,30	3889,09	-18,55	1.109
17-46-P	56,30	56,30	3891,21	-16,10	1.189
17-47-P	56,30	56,30	3894,25	-12,58	1.313
17-48-P	56,30	56,30	3897,03	-9,36	1.434
17-49-P	56,30	56,30	3900,10	-5,80	1.575
17-50-P	56,30	56,30	3903,89	-1,41	1.770
17-51-P	56,30	56,30	3906,55	1,71	1.898
17-52-P	56,30	56,30	3907,46	2,80	1.885
17-53-P	56,30	56,30	3908,23	3,72	1.872
17-54-P	56,30	56,30	3908,90	4,52	1.857
17-55-P	56,30	56,30	3909,49	5,23	1.846
17-56-P	56,30	56,30	3910,20	6,07	1.860
17-57-P	56,30	56,30	3910,80	6,79	1.906
17-58-P	56,30	56,30	3911,41	7,52	1.974
17-59-P	56,30	56,30	3912,10	8,34	2.045
17-60-P	56,30	56,30	3912,91	9,32	2.119
17-61-P	56,30	56,30	3913,89	10,48	2.195
17-62-P	56,30	64,34	3920,82	11,72	2.302
17-63-P	56,30	88,47	3934,26	12,96	2.452
17-64-P	56,30	104,55	3940,82	14,39	2.619
17-65-P	56,30	112,59	3944,31	16,02	2.807
17-66-P	56,30	104,55	3943,82	17,89	3.022
17-67-P	56,30	80,42	3363,70	15,11	2.782
17-68-P	40,21	64,34	2201,79	10,05	1.989
17-69-P	40,21	56,30	1791,39	6,94	1.767
17-70-P	40,21	56,30	1791,64	7,39	1.929
17-71-P	40,21	56,30	1791,93	7,92	2.122
17-72-P	40,21	40,21	1786,93	8,52	2.345
17-73-P	40,21	40,21	1787,33	9,26	2.619
17-74-P	40,21	40,21	1787,63	9,82	2.924
17-75-P	40,21	40,21	1787,52	9,63	3.233
17-76-P	40,21	40,21	1786,77	8,23	3.491
17-77-P	40,21	40,21	1785,78	6,38	3.779
17-78-P	40,21	40,21	1784,61	4,22	4.120
17-79-P	40,21	40,21	1783,20	1,59	4.534
17-80-P	40,21	40,21	1781,78	-1,00	4.961
17-81-P	40,21	40,21	1780,90	-2,59	5.325
17-82-P	40,21	40,21	1779,94	-4,32	5.710
17-83-P	40,21	40,21	1778,76	-6,44	6.137
17-84-P	16,08	16,08	712,47	-2,64	5.329
18-1-P	32,17	32,17	-1414,32	-16,67	17.264
18-2-P	32,17	32,17	-1416,08	-18,19	8.383
18-3-P	40,21	40,21	-1768,93	-24,28	8.347
18-4-P	40,21	40,21	-1768,12	-25,76	7.964
18-5-P	40,21	40,21	-1767,25	-27,34	7.630
18-6-P	40,21	40,21	-1765,70	-30,13	7.465
18-7-P	40,21	40,21	-1763,38	-34,34	7.507
18-8-P	40,21	40,21	-1760,70	-39,18	7.648
18-9-P	40,21	40,21	-1757,70	-44,62	7.872
18-10-P	40,21	40,21	-1753,97	-51,37	8.240
18-11-P	40,21	40,21	-1749,42	-59,62	8.740
18-12-P	40,21	40,21	-1743,80	-69,79	9.419
18-13-P	40,21	40,21	-1736,66	-82,73	10.342
18-14-P	40,21	40,21	-1757,59	-44,82	9.563
18-15-P	40,21	40,21	-1759,49	-41,37	8.334
18-16-P	40,21	56,30	-2451,53	-54,30	10.722
18-17-P	40,21	56,30	-2453,15	-51,33	9.985
18-18-P	40,21	56,30	-2725,69	-60,95	10.306
18-19-P	40,21	72,38	1841,16	-317,30	9.956
18-20-P	56,30	80,42	3010,25	-457,86	12.639
18-21-P	56,30	96,51	3309,47	-408,57	10.233
18-22-P	56,30	112,59	3611,42	-362,84	8.434
18-23-P	56,30	96,51	3662,07	-301,19	6.892
18-24-P	56,30	88,47	3696,69	-258,98	5.839
18-25-P	56,30	72,38	3717,44	-227,95	5.068
18-26-P	56,30	56,30	3732,09	-200,23	4.452

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
18-27-P	56,30	56,30	3761,34	-166,39	3.872
18-28-P	56,30	56,30	3783,53	-140,71	3.410
18-29-P	56,30	56,30	3800,63	-120,92	3.033
18-30-P	56,30	56,30	3813,57	-105,95	2.723
18-31-P	56,30	56,30	3825,53	-92,11	2.457
18-32-P	56,30	56,30	3841,21	-73,96	2.221
18-33-P	56,30	56,30	3853,26	-60,01	2.032
18-34-P	56,30	56,30	3863,35	-48,33	1.863
18-35-P	56,30	56,30	3871,44	-38,97	1.712
18-36-P	56,30	56,30	3879,42	-29,73	1.599
18-37-P	56,30	56,30	3872,72	-37,49	1.535
18-38-P	56,30	56,30	3874,94	-34,93	1.481
18-39-P	56,30	56,30	3876,73	-32,85	1.436
18-40-P	56,30	56,30	3878,16	-31,19	1.398
18-41-P	56,30	56,30	3878,78	-30,48	1.407
18-42-P	56,30	56,30	3879,20	-30,00	1.440
18-43-P	56,30	56,30	3879,82	-29,28	1.482
18-44-P	56,30	56,30	3880,61	-28,36	1.535
18-45-P	56,30	56,30	3881,68	-27,12	1.605
18-46-P	56,30	56,30	3883,33	-25,21	1.743
18-47-P	56,30	56,30	3885,19	-23,06	1.926
18-48-P	56,30	56,30	3886,62	-21,41	2.104
18-49-P	56,30	56,30	3887,70	-20,15	2.278
18-50-P	56,30	56,30	3903,91	-1,40	2.343
18-51-P	56,30	56,30	3904,02	-1,27	2.315
18-52-P	56,30	56,30	3904,11	-1,17	2.308
18-53-P	56,30	56,30	3904,46	-0,76	2.321
18-54-P	56,30	56,30	3904,84	-0,32	2.332
18-55-P	56,30	56,30	3905,32	0,25	2.340
18-56-P	56,30	72,38	3916,49	0,82	2.398
18-57-P	56,30	88,47	3924,56	1,57	2.496
18-58-P	56,30	96,51	3928,16	2,44	2.597
18-59-P	56,30	112,59	3933,48	3,41	2.709
18-60-P	56,30	96,51	3645,24	4,08	2.616
18-61-P	56,30	80,42	3355,83	4,31	2.532
18-62-P	40,21	72,38	2198,81	2,94	1.767
18-63-P	40,21	56,30	1933,83	2,52	1.651
18-64-P	40,21	56,30	1788,75	2,09	1.617
18-65-P	40,21	56,30	1788,83	2,23	1.714
18-66-P	40,21	40,21	1783,62	2,38	1.816
18-67-P	40,21	40,21	1783,71	2,54	1.944
18-68-P	40,21	40,21	1783,76	2,63	2.119
18-69-P	40,21	40,21	1783,69	2,50	2.322
18-70-P	40,21	40,21	1783,42	2,01	2.527
18-71-P	40,21	40,21	1782,92	1,08	2.719
18-72-P	40,21	40,21	1782,26	-0,15	2.918
18-73-P	40,21	40,21	1781,47	-1,57	3.142
18-74-P	40,21	40,21	1780,50	-3,31	3.378
18-75-P	40,21	40,21	1779,49	-5,14	3.599
18-76-P	40,21	40,21	1778,55	-6,83	3.834
18-77-P	40,21	40,21	1777,77	-8,23	4.076
18-78-P	40,21	40,21	1777,02	-9,59	4.336
18-79-P	32,17	32,17	1421,41	-8,48	4.481
18-80-P	16,08	16,08	710,66	-4,32	4.884
19-1-P	24,13	24,13	-1057,85	-17,85	16.483
19-2-P	24,13	24,13	-1058,78	-20,28	8.334
19-3-P	32,17	32,17	-1410,47	-30,33	7.796
19-4-P	40,21	40,21	-1759,56	-41,26	9.415
19-5-P	40,21	40,21	-1757,93	-44,21	9.307
19-6-P	40,21	40,21	-1756,03	-47,66	9.246
19-7-P	40,21	40,21	-1753,57	-52,11	9.278
19-8-P	40,21	40,21	-1750,01	-58,55	9.504
19-9-P	40,21	40,21	-1745,71	-66,34	9.837
19-10-P	40,21	40,21	-1741,23	-74,46	10.161
19-11-P	40,21	40,21	-1736,18	-83,59	10.570
19-12-P	40,21	40,21	1712,67	-125,51	11.188
19-13-P	40,21	40,21	1715,77	-119,93	9.750
19-14-P	40,21	40,21	1719,21	-113,73	8.580
19-15-P	40,21	40,21	1722,21	-108,32	7.663
19-16-P	40,21	40,21	1725,01	-103,28	6.903
19-17-P	40,21	40,21	1727,54	-98,73	6.253
19-18-P	40,21	40,21	1732,82	-89,21	5.463
19-19-P	40,21	56,30	1748,12	-70,58	4.391
19-20-P	40,21	56,30	1755,66	-57,11	3.611
19-21-P	40,21	64,34	1954,41	-60,61	3.392
19-22-P	40,21	72,38	2152,48	-64,46	3.244
19-23-P	56,30	72,38	3278,37	-95,05	4.372

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
19-24-P	56,30	80,42	3294,23	-78,16	3.832
19-25-P	56,30	88,47	3577,79	-75,84	3.695
19-26-P	56,30	88,47	3586,48	-65,14	3.342
19-27-P	56,30	96,51	3869,15	-64,94	3.294
19-28-P	56,30	88,47	3873,07	-57,33	3.034
19-29-P	56,30	80,42	3879,30	-46,45	2.763
19-30-P	56,30	72,38	3884,71	-35,72	2.521
19-31-P	56,30	56,30	3856,91	-55,78	2.336
19-32-P	56,30	56,30	3859,55	-52,73	2.200
19-33-P	56,30	56,30	3861,38	-50,62	2.099
19-34-P	56,30	56,30	3862,91	-48,84	2.028
19-35-P	56,30	56,30	3864,51	-46,99	1.982
19-36-P	56,30	56,30	3866,10	-45,15	1.937
19-37-P	56,30	56,30	3867,55	-43,47	1.897
19-38-P	56,30	56,30	3868,56	-42,31	1.871
19-39-P	56,30	56,30	3868,92	-41,88	1.881
19-40-P	56,30	56,30	3869,12	-41,66	1.929
19-41-P	56,30	56,30	3869,31	-41,43	1.995
19-42-P	56,30	56,30	3869,57	-41,14	2.062
19-43-P	56,30	56,30	3869,63	-41,07	2.140
19-44-P	56,30	56,30	3869,41	-41,33	2.238
19-45-P	56,30	56,30	3869,22	-41,54	2.370
19-46-P	56,30	72,38	3879,45	-41,76	2.557
19-47-P	56,30	80,42	3883,36	-41,80	2.806
19-48-P	56,30	88,47	3919,83	-3,88	2.835
19-49-P	56,30	96,51	3922,80	-3,73	2.855
19-50-P	56,30	88,47	3636,86	-3,11	2.675
19-51-P	56,30	88,47	3636,94	-3,02	2.699
19-52-P	56,30	80,42	3350,89	-2,40	2.505
19-53-P	56,30	72,38	3347,64	-2,17	2.515
19-54-P	40,21	72,38	2196,01	-1,20	1.705
19-55-P	40,21	64,34	1991,61	-0,98	1.604
19-56-P	40,21	56,30	1787,13	-0,86	1.490
19-57-P	40,21	56,30	1787,12	-0,88	1.538
19-58-P	40,21	40,21	1781,85	-0,88	1.585
19-59-P	40,21	40,21	1781,85	-0,88	1.642
19-60-P	40,21	40,21	1781,80	-0,96	1.732
19-61-P	40,21	40,21	1781,74	-1,08	1.841
19-62-P	40,21	40,21	1781,63	-1,28	1.954
19-63-P	40,21	40,21	1781,44	-1,63	2.069
19-64-P	40,21	40,21	1781,16	-2,13	2.183
19-65-P	40,21	40,21	1780,78	-2,81	2.294
19-66-P	40,21	40,21	1780,29	-3,70	2.403
19-67-P	40,21	40,21	1779,65	-4,84	2.532
19-68-P	40,21	40,21	1778,93	-6,15	2.684
19-69-P	40,21	40,21	1778,13	-7,58	2.856
19-70-P	40,21	40,21	1777,31	-9,06	3.045
19-71-P	40,21	40,21	1776,66	-10,24	3.225
19-72-P	40,21	40,21	1776,11	-11,22	3.400
19-73-P	32,17	32,17	1421,76	-9,83	2.966
19-74-P	24,13	24,13	1065,69	-7,72	3.411
19-75-P	16,08	16,08	709,47	-5,37	4.852
20-1-P	16,08	16,08	-700,94	-20,10	16.393
20-2-P	16,08	16,08	-702,23	-21,50	8.164
20-3-P	32,17	32,17	-1400,45	-45,89	11.260
20-4-P	40,21	40,21	-1747,64	-62,84	11.249
20-5-P	40,21	40,21	-1745,76	-66,24	11.045
20-6-P	40,21	40,21	-1743,24	-70,80	10.997
20-7-P	40,21	40,21	1738,27	-79,38	11.464
20-8-P	40,21	40,21	1790,44	15,04	9.829
20-9-P	40,21	40,21	1783,93	2,95	8.509
20-10-P	40,21	40,21	1779,11	-5,81	7.502
20-11-P	40,21	40,21	1775,29	-12,69	6.674
20-12-P	40,21	40,21	1772,25	-18,18	5.988
20-13-P	40,21	40,21	1769,73	-22,72	5.428
20-14-P	40,21	40,21	1767,81	-26,18	4.955
20-15-P	40,21	40,21	1767,16	-27,34	4.476
20-16-P	40,21	40,21	1768,50	-24,93	3.988
20-17-P	40,21	40,21	1769,61	-22,94	3.584
20-18-P	40,21	40,21	1770,56	-21,23	3.223
20-19-P	40,21	40,21	1771,50	-19,53	2.898
20-20-P	40,21	40,21	1772,33	-18,03	2.620
20-21-P	40,21	40,21	1773,51	-15,91	2.359
20-22-P	40,21	40,21	1775,28	-12,72	2.104
20-23-P	40,21	40,21	1776,71	-10,15	1.899
20-24-P	40,21	40,21	1777,66	-8,43	1.745
20-25-P	40,21	40,21	1978,48	-9,50	1.809

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
20-26-P	40,21	48,25	1982,43	-8,47	1.704
20-27-P	40,21	48,25	1983,14	-7,33	1.614
20-28-P	40,21	48,25	1984,03	-5,89	1.530
20-29-P	40,21	48,25	2186,16	-5,66	1.600
20-30-P	40,21	56,30	2189,94	-4,26	1.524
20-31-P	40,21	48,25	2171,60	-27,01	1.454
20-32-P	40,21	48,25	2172,12	-26,24	1.411
20-33-P	40,21	48,25	2172,43	-25,78	1.397
20-34-P	40,21	48,25	2172,56	-25,60	1.397
20-35-P	40,21	40,21	2169,13	-25,37	1.395
20-36-P	40,21	48,25	2172,81	-25,22	1.398
20-37-P	40,21	48,25	2172,94	-25,04	1.398
20-38-P	40,21	48,25	2173,01	-24,93	1.413
20-39-P	40,21	48,25	2172,86	-25,16	1.462
20-40-P	40,21	48,25	2172,58	-25,56	1.528
20-41-P	40,21	48,25	2172,25	-26,05	1.609
20-42-P	40,21	48,25	1991,08	5,65	1.542
20-43-P	40,21	48,25	1991,95	7,09	1.630
20-44-P	40,21	48,25	1992,90	8,67	1.729
20-45-P	40,21	40,21	1982,98	-2,21	1.763
20-46-P	40,21	40,21	1781,25	-1,96	1.598
20-47-P	40,21	40,21	1781,17	-2,10	1.612
20-48-P	40,21	40,21	1781,11	-2,21	1.624
20-49-P	40,21	40,21	1781,06	-2,30	1.636
20-50-P	40,21	40,21	1781,03	-2,36	1.646
20-51-P	40,21	40,21	1780,95	-2,50	1.689
20-52-P	40,21	40,21	1780,84	-2,70	1.749
20-53-P	40,21	40,21	1780,70	-2,96	1.809
20-54-P	40,21	40,21	1780,53	-3,26	1.868
20-55-P	40,21	40,21	1780,33	-3,62	1.926
20-56-P	40,21	40,21	1780,10	-4,03	1.982
20-57-P	40,21	40,21	1779,83	-4,52	2.041
20-58-P	40,21	40,21	1779,42	-5,25	2.117
20-59-P	40,21	40,21	1778,95	-6,12	2.204
20-60-P	40,21	40,21	1778,40	-7,10	2.306
20-61-P	40,21	40,21	1777,79	-8,20	2.420
20-62-P	40,21	40,21	1777,22	-9,23	2.533
20-63-P	40,21	40,21	1776,70	-10,17	2.643
20-64-P	40,21	40,21	1776,19	-11,08	2.753
20-65-P	40,21	40,21	1775,71	-11,95	2.863
20-66-P	40,21	40,21	1775,23	-12,81	2.978
20-67-P	32,17	32,17	1419,89	-10,63	3.126
20-68-P	16,08	16,08	711,04	-5,52	2.349
20-69-P	8,04	8,04	355,47	-2,86	2.463
21-1-P	16,08	16,08	695,56	-29,29	21.290
21-2-P	16,08	16,08	697,28	-28,77	9.992
21-3-P	24,13	24,13	1048,16	-38,62	8.901
21-4-P	32,17	32,17	1399,93	-46,87	7.910
21-5-P	40,21	40,21	1752,36	-53,94	7.067
21-6-P	40,21	40,21	1753,08	-52,71	6.537
21-7-P	40,21	40,21	1752,82	-53,19	6.271
21-8-P	40,21	40,21	1752,84	-53,14	5.953
21-9-P	40,21	40,21	1799,81	32,44	5.561
21-10-P	40,21	40,21	1795,82	25,04	4.944
21-11-P	40,21	40,21	1792,40	18,68	4.389
21-12-P	40,21	40,21	1789,75	13,76	3.930
21-13-P	40,21	40,21	1788,16	10,81	3.567
21-14-P	40,21	40,21	1786,90	8,47	3.277
21-15-P	40,21	40,21	1785,76	6,34	3.032
21-16-P	40,21	40,21	1784,72	4,42	2.823
21-17-P	40,21	40,21	1783,78	2,67	2.644
21-18-P	40,21	40,21	1783,19	1,58	2.441
21-19-P	40,21	40,21	1782,89	1,02	2.281
21-20-P	40,21	40,21	1782,74	0,73	2.144
21-21-P	40,21	40,21	1782,61	0,50	2.017
21-22-P	40,21	40,21	1782,50	0,30	1.901
21-23-P	40,21	40,21	1782,41	0,13	1.796
21-24-P	40,21	40,21	1782,45	0,20	1.699
21-25-P	40,21	40,21	1782,67	0,61	1.613
21-26-P	40,21	40,21	1782,77	0,79	1.559
21-27-P	40,21	40,21	1782,61	0,50	1.532
21-28-P	40,21	40,21	1782,41	0,14	1.509
21-29-P	40,21	40,21	1782,22	-0,22	1.487
21-30-P	40,21	40,21	1782,06	-0,50	1.467
21-31-P	40,21	40,21	1782,04	-0,54	1.454
21-32-P	40,21	40,21	1782,16	-0,32	1.449
21-33-P	40,21	40,21	1782,24	-0,18	1.465

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
21-34-P	40,21	40,21	1782,10	-0,43	1.502
21-35-P	40,21	40,21	1781,94	-0,73	1.544
21-36-P	40,21	40,21	1781,76	-1,04	1.587
21-37-P	40,21	40,21	1781,60	-1,33	1.635
21-38-P	40,21	40,21	1781,59	-1,35	1.698
21-39-P	40,21	40,21	1781,74	-1,08	1.779
21-40-P	40,21	40,21	1781,75	-1,07	1.885
21-41-P	40,21	40,21	1780,88	-2,63	1.939
21-42-P	40,21	40,21	1780,70	-2,95	1.956
21-43-P	40,21	40,21	1780,51	-3,30	1.969
21-44-P	40,21	40,21	1780,31	-3,65	1.983
21-45-P	40,21	40,21	1780,11	-4,02	1.992
21-46-P	40,21	40,21	1779,88	-4,43	2.005
21-47-P	40,21	40,21	1779,57	-5,00	2.036
21-48-P	40,21	40,21	1779,21	-5,64	2.079
21-49-P	40,21	40,21	1778,81	-6,36	2.132
21-50-P	40,21	40,21	1778,40	-7,10	2.189
21-51-P	40,21	40,21	1778,00	-7,83	2.245
21-52-P	40,21	40,21	1777,61	-8,52	2.299
21-53-P	40,21	40,21	1777,21	-9,24	2.358
21-54-P	40,21	40,21	1776,80	-9,98	2.422
21-55-P	40,21	40,21	1776,39	-10,71	2.487
21-56-P	40,21	40,21	1776,00	-11,43	2.554
21-57-P	40,21	40,21	1775,56	-12,15	2.650
21-58-P	32,17	32,17	1420,32	-10,14	2.681
21-59-P	24,13	24,13	1065,20	-7,93	2.686
21-60-P	16,08	16,08	710,20	-5,51	2.624
21-61-P	8,04	8,04	355,08	-2,87	2.644
22-1-P	8,04	8,04	350,81	-9,67	7.505
22-2-P	8,04	8,04	351,87	-9,81	3.740
22-3-P	16,08	16,08	702,44	-19,75	4.825
22-4-P	24,13	24,13	1052,96	-29,74	5.218
22-5-P	24,13	24,13	1055,09	-27,67	3.851
22-6-P	32,17	32,17	1407,05	-34,63	3.990
22-7-P	32,17	32,17	1408,92	-32,93	3.213
22-8-P	40,21	40,21	1760,38	-39,56	3.611
22-9-P	40,21	40,21	1800,27	33,30	3.510
22-10-P	40,21	40,21	1798,84	30,64	3.401
22-11-P	40,21	40,21	1797,09	27,39	3.269
22-12-P	40,21	40,21	1795,09	23,69	3.071
22-13-P	40,21	40,21	1793,10	19,98	2.819
22-14-P	40,21	40,21	1791,38	16,80	2.600
22-15-P	40,21	40,21	1790,11	14,42	2.423
22-16-P	40,21	40,21	1789,31	12,94	2.309
22-17-P	40,21	40,21	1788,52	11,48	2.232
22-18-P	40,21	40,21	1787,68	9,92	2.173
22-19-P	40,21	40,21	1786,75	8,18	2.122
22-20-P	40,21	40,21	1785,79	6,41	2.055
22-21-P	40,21	40,21	1784,90	4,75	1.978
22-22-P	40,21	40,21	1784,22	3,49	1.918
22-23-P	40,21	40,21	1783,76	2,64	1.875
22-24-P	40,21	40,21	1783,44	2,05	1.847
22-25-P	40,21	40,21	1783,03	1,28	1.837
22-26-P	40,21	40,21	1782,45	0,20	1.844
22-27-P	40,21	40,21	1781,68	-1,19	1.868
22-28-P	40,21	40,21	1780,89	-2,62	1.879
22-29-P	40,21	40,21	1780,21	-3,84	1.890
22-30-P	40,21	40,21	1779,62	-4,89	1.911
22-31-P	40,21	40,21	1779,12	-5,80	1.943
22-32-P	40,21	40,21	1778,68	-6,60	1.988
22-33-P	40,21	40,21	1778,03	-7,76	2.066
22-34-P	40,21	40,21	1777,00	-9,61	2.177
22-35-P	40,21	40,21	1780,51	-3,30	2.267
22-36-P	40,21	40,21	1780,15	-3,94	2.272
22-37-P	40,21	40,21	1779,78	-4,61	2.286
22-38-P	40,21	40,21	1779,42	-5,25	2.297
22-39-P	40,21	40,21	1779,08	-5,86	2.305
22-40-P	40,21	40,21	1778,78	-6,41	2.311
22-41-P	40,21	40,21	1778,43	-7,04	2.332
22-42-P	40,21	40,21	1778,09	-7,66	2.356
22-43-P	40,21	40,21	1777,74	-8,28	2.383
22-44-P	40,21	40,21	1777,39	-8,93	2.417
22-45-P	32,17	32,17	1422,93	-7,71	2.041
22-46-P	32,17	32,17	1421,73	-8,20	2.361
22-47-P	24,13	24,13	1066,84	-6,51	2.089
22-48-P	24,13	24,13	1065,67	-6,84	2.550
22-49-P	16,08	16,08	710,76	-4,77	2.281

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
22-50-P	8,04	8,04	355,94	-2,50	1.712
22-51-P	8,04	8,04	354,73	-2,60	3.324
23-1-P	8,04	8,04	351,59	-7,80	6.129
23-2-P	8,04	8,04	352,15	-7,86	3.362
23-3-P	8,04	8,04	352,79	-7,93	2.295
23-4-P	16,08	16,08	720,32	13,97	3.424
23-5-P	16,08	16,08	720,39	12,82	2.694
23-6-P	16,08	16,08	720,17	11,37	2.170
23-7-P	24,13	24,13	1077,61	15,20	2.758
23-8-P	24,13	24,13	1077,25	13,64	2.396
23-9-P	24,13	24,13	1076,97	12,22	2.105
23-10-P	32,17	32,17	1433,78	14,92	2.563
23-11-P	32,17	32,17	1433,31	13,52	2.439
23-12-P	32,17	32,17	1432,67	11,80	2.313
23-13-P	32,17	32,17	1431,93	9,88	2.180
23-14-P	32,17	32,17	1431,21	8,01	2.026
23-15-P	32,17	32,17	1430,45	6,27	1.897
23-16-P	32,17	32,17	1429,67	4,64	1.827
23-17-P	40,21	40,21	1784,21	3,82	2.232
23-18-P	40,21	40,21	1783,30	1,96	2.216
23-19-P	40,21	40,21	1782,42	0,15	2.235
23-20-P	40,21	40,21	1781,25	-1,79	2.312
23-21-P	40,21	40,21	1779,96	-3,94	2.362
23-22-P	32,17	32,17	1424,49	-4,83	1.914
23-23-P	32,17	32,17	1423,57	-6,32	1.920
23-24-P	32,17	32,17	1422,67	-7,63	1.940
23-25-P	32,17	32,17	1421,52	-9,16	2.044
23-26-P	32,17	32,17	1420,28	-10,88	2.184
23-27-P	32,17	32,17	1418,96	-12,74	2.364
23-28-P	32,17	32,17	1424,19	-2,81	2.555
23-29-P	24,13	24,13	1069,00	-2,53	2.072
23-30-P	24,13	24,13	1068,26	-2,99	2.284
23-31-P	24,13	24,13	1067,52	-3,45	2.535
23-32-P	16,08	16,08	712,62	-2,59	1.891
23-33-P	16,08	16,08	711,91	-2,84	2.176
23-34-P	16,08	16,08	711,09	-3,08	2.666
23-35-P	8,04	8,04	356,28	-1,66	1.729
23-36-P	8,04	8,04	355,53	-1,77	2.451
23-37-P	8,04	8,04	354,87	-1,88	4.344
24-1-S	8,04	8,04	356,98	1,95	6.459
24-2-S	8,04	8,04	357,47	1,78	3.535
24-3-S	8,04	8,04	358,06	1,59	2.425
24-4-S	16,08	16,08	714,30	2,80	3.640
24-5-S	16,08	16,08	714,81	2,46	2.890
24-6-S	16,08	16,08	715,25	2,21	2.385
24-7-S	24,13	24,13	1071,05	3,01	3.052
24-8-S	24,13	24,13	1071,39	2,74	2.644
24-9-S	24,13	24,13	1071,74	2,49	2.316
24-10-S	32,17	32,17	1427,37	3,00	2.771
24-11-S	32,17	32,17	1427,44	2,62	2.597
24-12-S	32,17	32,17	1427,47	2,14	2.456
24-13-S	32,17	32,17	1427,49	1,64	2.329
24-14-S	32,17	32,17	1427,58	1,26	2.191
24-15-S	32,17	32,17	1427,60	0,98	2.077
24-16-S	32,17	32,17	1427,58	0,76	1.993
24-17-S	40,21	40,21	1782,53	0,70	2.393
24-18-S	40,21	40,21	1782,49	0,45	2.316
24-19-S	40,21	40,21	1782,44	0,18	2.257
24-20-S	40,21	40,21	1782,16	-0,16	2.266
24-21-S	40,21	40,21	1781,80	-0,63	2.288
24-22-S	32,17	32,17	1426,68	-0,88	1.850
24-23-S	32,17	32,17	1426,43	-1,17	1.857
24-24-S	32,17	32,17	1426,14	-1,37	1.876
24-25-S	32,17	32,17	1425,77	-1,51	1.925
24-26-S	32,17	32,17	1425,41	-1,65	1.981
24-27-S	32,17	32,17	1425,04	-1,80	2.050
24-28-S	32,17	32,17	1424,66	-1,97	2.136
24-29-S	24,13	24,13	1069,47	-1,67	1.737
24-30-S	24,13	24,13	1068,82	-1,98	1.918
24-31-S	24,13	24,13	1068,17	-2,26	2.134
24-32-S	16,08	16,08	713,13	-1,66	1.596
24-33-S	16,08	16,08	712,51	-1,75	1.842
24-34-S	16,08	16,08	711,78	-1,82	2.264
24-35-S	8,04	8,04	356,68	-0,94	1.473
24-36-S	8,04	8,04	355,97	-0,98	2.096
24-37-S	8,04	8,04	355,36	-1,01	3.725
25-1-S	8,04	8,04	358,05	3,47	8.137

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
25-2-S	8,04	8,04	359,00	3,11	4.032
25-3-S	16,08	16,08	716,39	5,55	5.182
25-4-S	24,13	24,13	1073,46	7,40	5.598
25-5-S	24,13	24,13	1073,96	6,51	4.237
25-6-S	32,17	32,17	1430,41	7,68	4.448
25-7-S	32,17	32,17	1430,91	6,87	3.601
25-8-S	40,21	40,21	1786,40	7,53	4.066
25-9-S	40,21	40,21	1785,88	6,58	3.893
25-10-S	40,21	40,21	1785,34	5,57	3.742
25-11-S	40,21	40,21	1784,73	4,43	3.606
25-12-S	40,21	40,21	1784,20	3,45	3.454
25-13-S	40,21	40,21	1783,82	2,74	3.277
25-14-S	40,21	40,21	1783,47	2,10	3.115
25-15-S	40,21	40,21	1783,24	1,67	2.962
25-16-S	40,21	40,21	1783,14	1,48	2.824
25-17-S	40,21	40,21	1782,98	1,19	2.716
25-18-S	40,21	40,21	1782,78	0,82	2.625
25-19-S	40,21	40,21	1782,53	0,35	2.547
25-20-S	40,21	40,21	1782,34	-0,01	2.472
25-21-S	40,21	40,21	1782,22	-0,22	2.399
25-22-S	40,21	40,21	1782,19	-0,28	2.326
25-23-S	40,21	40,21	1782,25	-0,16	2.253
25-24-S	40,21	40,21	1782,38	0,07	2.184
25-25-S	40,21	40,21	1782,44	0,18	2.128
25-26-S	40,21	40,21	1782,41	0,13	2.086
25-27-S	40,21	40,21	1782,31	-0,05	2.056
25-28-S	40,21	40,21	1782,20	-0,26	2.032
25-29-S	40,21	40,21	1782,13	-0,38	2.009
25-30-S	40,21	40,21	1782,11	-0,41	1.983
25-31-S	40,21	40,21	1782,14	-0,35	1.956
25-32-S	40,21	40,21	1782,21	-0,23	1.929
25-33-S	40,21	40,21	1782,22	-0,22	1.914
25-34-S	40,21	40,21	1782,11	-0,42	1.912
25-35-S	40,21	40,21	1781,97	-0,67	1.914
25-36-S	40,21	40,21	1781,80	-0,98	1.922
25-37-S	40,21	40,21	1781,58	-1,37	1.938
25-38-S	40,21	40,21	1781,40	-1,70	1.952
25-39-S	40,21	40,21	1781,24	-1,99	1.964
25-40-S	40,21	40,21	1781,12	-2,19	1.974
25-41-S	40,21	40,21	1780,92	-2,56	1.996
25-42-S	40,21	40,21	1780,71	-2,93	2.021
25-43-S	40,21	40,21	1780,51	-3,29	2.048
25-44-S	40,21	40,21	1780,28	-3,70	2.081
25-45-S	32,17	32,17	1425,32	-3,41	1.761
25-46-S	32,17	32,17	1424,22	-3,71	2.041
25-47-S	24,13	24,13	1068,80	-2,99	1.811
25-48-S	24,13	24,13	1067,72	-3,15	2.216
25-49-S	16,08	16,08	712,19	-2,20	1.986
25-50-S	8,04	8,04	356,69	-1,15	1.494
25-51-S	8,04	8,04	355,51	-1,20	2.907
26-1-S	16,08	16,08	721,86	18,54	13.321
26-2-S	16,08	16,08	724,21	20,35	7.111
26-3-S	24,13	24,13	1088,50	35,11	8.253
26-4-S	32,17	32,17	1455,05	54,04	9.414
26-5-S	40,21	40,21	1790,70	15,60	8.433
26-6-S	40,21	40,21	1789,24	12,82	7.753
26-7-S	40,21	40,21	1787,92	10,36	7.307
26-8-S	40,21	40,21	1786,39	7,52	6.894
26-9-S	40,21	40,21	1784,70	4,38	6.492
26-10-S	40,21	40,21	1783,45	2,07	5.955
26-11-S	40,21	40,21	1782,39	0,10	5.486
26-12-S	40,21	40,21	1781,51	-1,50	5.072
26-13-S	40,21	40,21	1780,96	-2,48	4.675
26-14-S	40,21	40,21	1780,50	-3,31	4.339
26-15-S	40,21	40,21	1780,06	-4,10	4.056
26-16-S	40,21	40,21	1779,65	-4,84	3.813
26-17-S	40,21	40,21	1779,30	-5,48	3.608
26-18-S	40,21	40,21	1779,27	-5,53	3.398
26-19-S	40,21	40,21	1779,44	-5,22	3.206
26-20-S	40,21	40,21	1779,67	-4,81	3.029
26-21-S	40,21	40,21	1779,89	-4,42	2.870
26-22-S	40,21	40,21	1780,09	-4,06	2.727
26-23-S	40,21	40,21	1780,27	-3,73	2.597
26-24-S	40,21	40,21	1780,53	-3,27	2.466
26-25-S	40,21	40,21	1780,93	-2,54	2.324
26-26-S	40,21	40,21	1781,28	-1,91	2.216
26-27-S	40,21	40,21	1781,49	-1,54	2.144

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
26-28-S	40,21	40,21	1781,66	-1,22	2.081
26-29-S	40,21	40,21	1781,82	-0,93	2.020
26-30-S	40,21	40,21	1782,00	-0,62	1.962
26-31-S	40,21	40,21	1782,23	-0,20	1.899
26-32-S	40,21	40,21	1782,51	0,32	1.831
26-33-S	40,21	40,21	1782,75	0,76	1.783
26-34-S	40,21	40,21	1782,87	0,98	1.761
26-35-S	40,21	40,21	1782,97	1,18	1.742
26-36-S	40,21	40,21	1783,08	1,37	1.722
26-37-S	40,21	40,21	1783,19	1,58	1.702
26-38-S	40,21	40,21	1783,34	1,86	1.678
26-39-S	40,21	40,21	1783,53	2,20	1.651
26-40-S	40,21	40,21	1783,62	2,37	1.645
26-41-S	40,21	40,21	1783,62	2,38	1.663
26-42-S	40,21	40,21	1783,64	2,42	1.680
26-43-S	40,21	40,21	1783,66	2,44	1.695
26-44-S	40,21	40,21	1783,67	2,46	1.710
26-45-S	40,21	40,21	1783,66	2,45	1.722
26-46-S	40,21	40,21	1783,61	2,36	1.737
26-47-S	40,21	40,21	1783,41	1,99	1.766
26-48-S	40,21	40,21	1783,13	1,47	1.806
26-49-S	40,21	40,21	1782,79	0,84	1.854
26-50-S	40,21	40,21	1782,44	0,19	1.905
26-51-S	40,21	40,21	1782,09	-0,45	1.956
26-52-S	40,21	40,21	1781,77	-1,02	2.006
26-53-S	40,21	40,21	1781,42	-1,66	2.061
26-54-S	40,21	40,21	1781,03	-2,35	2.119
26-55-S	40,21	40,21	1780,67	-3,01	2.179
26-56-S	40,21	40,21	1780,31	-3,66	2.241
26-57-S	40,21	40,21	1779,89	-4,34	2.328
26-58-S	32,17	32,17	1423,84	-3,80	2.360
26-59-S	24,13	24,13	1067,88	-3,10	2.369
26-60-S	16,08	16,08	712,02	-2,23	2.320
26-61-S	8,04	8,04	356,01	-1,20	2.341
27-1-S	16,08	16,08	717,91	10,86	8.856
27-2-S	16,08	16,08	720,49	11,88	4.543
27-3-S	32,17	32,17	1439,62	25,69	6.425
27-4-S	40,21	40,21	1801,05	34,76	6.441
27-5-S	40,21	40,21	1801,70	35,96	6.385
27-6-S	40,21	40,21	1802,46	37,36	6.367
27-7-S	40,21	40,21	1804,19	40,57	6.623
27-8-S	40,21	40,21	1806,21	44,34	6.943
27-9-S	40,21	40,21	1808,42	48,44	7.292
27-10-S	40,21	40,21	1811,36	53,91	7.807
27-11-S	40,21	40,21	1815,23	61,09	8.517
27-12-S	40,21	40,21	1771,08	-20,28	9.030
27-13-S	40,21	40,21	1769,68	-22,81	8.205
27-14-S	40,21	40,21	1768,67	-24,63	7.541
27-15-S	40,21	40,21	1768,54	-24,86	6.896
27-16-S	40,21	40,21	1769,78	-22,63	6.119
27-17-S	40,21	40,21	1770,75	-20,89	5.521
27-18-S	40,21	40,21	1771,49	-19,54	5.054
27-19-S	40,21	40,21	1772,19	-18,29	4.657
27-20-S	40,21	40,21	1772,81	-17,17	4.318
27-21-S	40,21	40,21	1773,62	-15,71	3.983
27-22-S	40,21	40,21	1774,85	-13,50	3.617
27-23-S	40,21	40,21	1775,88	-11,65	3.310
27-24-S	40,21	40,21	1776,65	-10,26	3.069
27-25-S	40,21	40,21	1977,18	-11,61	3.202
27-26-S	40,21	48,25	1981,20	-10,46	3.029
27-27-S	40,21	48,25	1982,13	-8,96	2.845
27-28-S	40,21	48,25	1983,18	-7,26	2.653
27-29-S	40,21	48,25	2185,23	-7,01	2.733
27-30-S	40,21	56,30	2189,14	-5,43	2.567
27-31-S	40,21	48,25	2187,26	-4,04	2.416
27-32-S	40,21	48,25	2188,10	-2,81	2.302
27-33-S	40,21	48,25	2188,89	-1,64	2.210
27-34-S	40,21	48,25	2189,52	-0,72	2.135
27-35-S	40,21	40,21	2186,46	0,15	2.060
27-36-S	40,21	48,25	2190,65	0,97	1.995
27-37-S	40,21	48,25	2191,16	1,73	1.929
27-38-S	40,21	48,25	2191,68	2,52	1.867
27-39-S	40,21	48,25	2192,15	3,22	1.828
27-40-S	40,21	48,25	2192,58	3,88	1.803
27-41-S	40,21	48,25	2193,06	4,60	1.773
27-42-S	40,21	48,25	1990,29	4,33	1.582
27-43-S	40,21	48,25	1990,61	4,87	1.554

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
27-44-S	40,21	48,25	1990,92	5,38	1.528
27-45-S	40,21	40,21	1987,74	5,68	1.536
27-46-S	40,21	40,21	1784,86	4,68	1.394
27-47-S	40,21	40,21	1784,98	4,90	1.408
27-48-S	40,21	40,21	1785,11	5,14	1.422
27-49-S	40,21	40,21	1785,25	5,41	1.435
27-50-S	40,21	40,21	1785,42	5,71	1.447
27-51-S	40,21	40,21	1785,50	5,86	1.485
27-52-S	40,21	40,21	1785,53	5,93	1.537
27-53-S	40,21	40,21	1785,53	5,92	1.589
27-54-S	40,21	40,21	1785,49	5,84	1.640
27-55-S	40,21	40,21	1785,41	5,71	1.691
27-56-S	40,21	40,21	1785,30	5,50	1.741
27-57-S	40,21	40,21	1785,11	5,15	1.793
27-58-S	40,21	40,21	1784,71	4,40	1.862
27-59-S	40,21	40,21	1784,21	3,48	1.941
27-60-S	40,21	40,21	1783,63	2,39	2.034
27-61-S	40,21	40,21	1782,97	1,17	2.139
27-62-S	40,21	40,21	1782,36	0,04	2.243
27-63-S	40,21	40,21	1781,82	-0,94	2.345
27-64-S	40,21	40,21	1781,28	-1,91	2.445
27-65-S	40,21	40,21	1780,78	-2,81	2.545
27-66-S	40,21	40,21	1780,28	-3,70	2.650
27-67-S	32,17	32,17	1423,96	-3,28	2.787
27-68-S	16,08	16,08	713,09	-1,83	2.096
27-69-S	8,04	8,04	356,49	-1,01	2.200
28-1-S	24,13	24,13	1073,17	10,07	9.769
28-2-S	24,13	24,13	1075,86	10,92	4.815
28-3-S	32,17	32,17	1435,69	15,75	4.419
28-4-S	40,21	40,21	1793,49	20,70	5.336
28-5-S	40,21	40,21	1793,97	21,60	5.304
28-6-S	40,21	40,21	1794,41	22,42	5.267
28-7-S	40,21	40,21	1794,92	23,36	5.237
28-8-S	40,21	40,21	1795,55	24,54	5.235
28-9-S	40,21	40,21	1796,22	25,77	5.247
28-10-S	40,21	40,21	1796,90	27,04	5.264
28-11-S	40,21	40,21	1797,67	28,48	5.309
28-12-S	40,21	40,21	1798,63	30,26	5.395
28-13-S	40,21	40,21	1800,39	33,52	5.662
28-14-S	40,21	40,21	1802,43	37,30	5.971
28-15-S	40,21	40,21	1804,63	41,40	6.295
28-16-S	40,21	40,21	1807,01	45,81	6.623
28-17-S	40,21	40,21	1809,60	50,63	6.975
28-18-S	40,21	40,21	1813,52	57,91	7.613
28-19-S	40,21	56,30	1731,05	-101,09	8.443
28-20-S	40,21	56,30	1761,46	-46,73	7.183
28-21-S	40,21	64,34	1960,79	-50,39	6.915
28-22-S	40,21	72,38	2159,58	-54,16	6.754
28-23-S	56,30	72,38	3289,14	-80,61	9.285
28-24-S	56,30	80,42	3301,81	-68,02	8.274
28-25-S	56,30	88,47	3584,40	-67,70	8.084
28-26-S	56,30	88,47	3591,61	-58,82	7.383
28-27-S	56,30	96,51	3873,88	-59,54	7.344
28-28-S	56,30	88,47	3877,14	-52,68	6.816
28-29-S	56,30	80,42	3881,89	-43,48	6.158
28-30-S	56,30	72,38	3885,75	-34,52	5.521
28-31-S	56,30	56,30	3881,19	-27,69	5.026
28-32-S	56,30	56,30	3885,65	-22,53	4.659
28-33-S	56,30	56,30	3889,11	-18,52	4.378
28-34-S	56,30	56,30	3892,64	-14,44	4.125
28-35-S	56,30	56,30	3896,81	-9,61	3.866
28-36-S	56,30	56,30	3900,56	-5,27	3.628
28-37-S	56,30	56,30	3903,73	-1,60	3.422
28-38-S	56,30	56,30	3906,03	1,10	3.268
28-39-S	56,30	56,30	3907,89	3,31	3.145
28-40-S	56,30	56,30	3909,83	5,63	3.023
28-41-S	56,30	56,30	3911,82	8,01	2.894
28-42-S	56,30	56,30	3913,61	10,15	2.770
28-43-S	56,30	56,30	3915,06	11,87	2.689
28-44-S	56,30	56,30	3916,24	13,29	2.651
28-45-S	56,30	56,30	3917,57	14,88	2.612
28-46-S	56,30	72,38	3929,95	16,74	2.575
28-47-S	56,30	80,42	3935,76	18,76	2.530
28-48-S	56,30	88,47	3940,80	20,63	2.495
28-49-S	56,30	96,51	3944,70	21,79	2.523
28-50-S	56,30	88,47	3655,18	19,94	2.368
28-51-S	56,30	88,47	3655,93	20,89	2.396

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
28-52-S	56,30	80,42	3366,41	18,82	2.230
28-53-S	56,30	72,38	3363,64	19,81	2.247
28-54-S	40,21	72,38	2205,14	12,37	1.520
28-55-S	40,21	64,34	1998,58	10,46	1.425
28-56-S	40,21	56,30	1792,27	8,55	1.319
28-57-S	40,21	56,30	1792,39	8,78	1.360
28-58-S	40,21	40,21	1787,19	9,01	1.399
28-59-S	40,21	40,21	1787,33	9,27	1.445
28-60-S	40,21	40,21	1787,40	9,39	1.526
28-61-S	40,21	40,21	1787,45	9,49	1.626
28-62-S	40,21	40,21	1787,44	9,46	1.731
28-63-S	40,21	40,21	1787,32	9,25	1.838
28-64-S	40,21	40,21	1787,08	8,81	1.944
28-65-S	40,21	40,21	1786,71	8,12	2.047
28-66-S	40,21	40,21	1786,16	7,10	2.148
28-67-S	40,21	40,21	1785,45	5,77	2.264
28-68-S	40,21	40,21	1784,61	4,22	2.399
28-69-S	40,21	40,21	1783,71	2,54	2.553
28-70-S	40,21	40,21	1782,79	0,83	2.722
28-71-S	40,21	40,21	1782,07	-0,49	2.883
28-72-S	40,21	40,21	1781,50	-1,51	3.040
28-73-S	32,17	32,17	1426,05	-2,11	2.652
28-74-S	24,13	24,13	1068,92	-1,91	3.050
28-75-S	16,08	16,08	711,63	-1,49	4.337
29-1-S	32,17	32,17	1428,23	8,66	10.630
29-2-S	32,17	32,17	1431,27	9,57	5.203
29-3-S	40,21	40,21	1789,05	12,47	5.230
29-4-S	40,21	40,21	1789,15	12,65	5.028
29-5-S	40,21	40,21	1789,26	12,84	4.836
29-6-S	40,21	40,21	1789,33	12,98	4.660
29-7-S	40,21	40,21	1789,48	13,25	4.538
29-8-S	40,21	40,21	1789,69	13,65	4.451
29-9-S	40,21	40,21	1789,97	14,18	4.398
29-10-S	40,21	40,21	1790,44	15,05	4.394
29-11-S	40,21	40,21	1791,00	16,07	4.394
29-12-S	40,21	40,21	1791,51	17,04	4.368
29-13-S	40,21	40,21	1792,00	17,93	4.322
29-14-S	40,21	40,21	1792,44	18,76	4.258
29-15-S	40,21	40,21	1792,93	19,66	4.209
29-16-S	40,21	56,30	1799,58	21,96	4.341
29-17-S	40,21	56,30	1800,98	24,52	4.493
29-18-S	40,21	56,30	2010,44	33,37	5.185
29-19-S	40,21	72,38	2226,53	44,27	5.908
29-20-S	56,30	80,42	3410,96	79,93	9.261
29-21-S	56,30	96,51	3729,51	110,16	11.098
29-22-S	56,30	112,59	4068,71	160,78	14.131
29-23-S	56,30	96,51	4099,40	202,80	16.899
29-24-S	56,30	88,47	3556,46	-419,29	16.902
29-25-S	56,30	72,38	-4704,78	-346,95	14.147
29-26-S	56,30	56,30	-3681,68	-259,79	10.894
29-27-S	56,30	56,30	-3695,33	-243,93	11.156
29-28-S	56,30	56,30	3731,99	-200,35	10.015
29-29-S	56,30	56,30	3809,54	-110,61	8.834
29-30-S	56,30	56,30	3823,46	-94,50	7.851
29-31-S	56,30	56,30	3835,80	-80,22	6.978
29-32-S	56,30	56,30	3849,54	-64,31	6.139
29-33-S	56,30	56,30	3860,12	-52,07	5.467
29-34-S	56,30	56,30	3868,85	-41,97	4.894
29-35-S	56,30	56,30	3875,91	-33,80	4.405
29-36-S	56,30	56,30	3883,00	-25,60	3.998
29-37-S	56,30	56,30	3890,11	-17,37	3.687
29-38-S	56,30	56,30	3895,70	-10,90	3.424
29-39-S	56,30	56,30	3900,08	-5,83	3.203
29-40-S	56,30	56,30	3903,50	-1,87	3.015
29-41-S	56,30	56,30	3906,83	2,04	2.836
29-42-S	56,30	56,30	3910,07	5,92	2.664
29-43-S	56,30	56,30	3912,82	9,20	2.524
29-44-S	56,30	56,30	3915,02	11,83	2.420
29-45-S	56,30	56,30	3917,15	14,38	2.330
29-46-S	56,30	56,30	3919,93	17,70	2.245
29-47-S	56,30	56,30	3922,31	20,54	2.180
29-48-S	56,30	56,30	3923,82	22,35	2.140
29-49-S	56,30	56,30	3924,94	23,69	2.111
29-50-S	56,30	56,30	3926,00	24,95	2.081
29-51-S	56,30	56,30	3926,91	26,04	2.052
29-52-S	56,30	56,30	3927,69	26,97	2.061
29-53-S	56,30	56,30	3928,62	28,08	2.087

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
29-54-S	56,30	56,30	3929,67	29,33	2.108
29-55-S	56,30	56,30	3930,81	30,69	2.126
29-56-S	56,30	72,38	3942,88	32,04	2.176
29-57-S	56,30	88,47	3951,58	33,28	2.256
29-58-S	56,30	96,51	3955,64	34,59	2.338
29-59-S	56,30	112,59	3961,53	36,06	2.427
29-60-S	56,30	96,51	3635,93	32,37	2.310
29-61-S	56,30	80,42	3310,03	28,47	2.198
29-62-S	40,21	72,38	2140,51	17,45	1.515
29-63-S	40,21	56,30	1999,43	15,19	1.506
29-64-S	40,21	56,30	1794,38	12,42	1.434
29-65-S	40,21	56,30	1794,54	12,72	1.523
29-66-S	40,21	40,21	1789,34	13,00	1.618
29-67-S	40,21	40,21	1789,52	13,34	1.737
29-68-S	40,21	40,21	1789,70	13,67	1.894
29-69-S	40,21	40,21	1789,74	13,74	2.074
29-70-S	40,21	40,21	1789,51	13,32	2.255
29-71-S	40,21	40,21	1788,95	12,27	2.426
29-72-S	40,21	40,21	1788,16	10,81	2.603
29-73-S	40,21	40,21	1787,25	9,11	2.802
29-74-S	40,21	40,21	1786,15	7,07	3.013
29-75-S	40,21	40,21	1785,04	5,01	3.214
29-76-S	40,21	40,21	1784,01	3,10	3.424
29-77-S	40,21	40,21	1783,15	1,50	3.641
29-78-S	40,21	40,21	1782,35	0,01	3.873
29-79-S	32,17	32,17	1425,63	-0,88	3.999
29-80-S	16,08	16,08	712,74	-0,58	4.352
30-1-S	40,21	40,21	1782,92	6,42	10.939
30-2-S	40,21	40,21	1786,26	7,28	5.486
30-3-S	40,21	40,21	1786,24	7,25	5.231
30-4-S	40,21	40,21	1786,33	7,42	5.044
30-5-S	40,21	40,21	1786,41	7,57	4.879
30-6-S	40,21	40,21	1786,46	7,65	4.730
30-7-S	40,21	40,21	1786,53	7,79	4.582
30-8-S	40,21	40,21	1786,66	8,02	4.429
30-9-S	40,21	40,21	1786,78	8,25	4.287
30-10-S	40,21	40,21	1786,89	8,44	4.147
30-11-S	40,21	40,21	1786,93	8,52	3.976
30-12-S	40,21	40,21	1786,94	8,54	3.785
30-13-S	40,21	40,21	1787,23	9,07	3.677
30-14-S	40,21	56,30	1793,02	9,93	3.629
30-15-S	40,21	56,30	1793,46	10,73	3.575
30-16-S	40,21	56,30	1793,89	11,52	3.524
30-17-S	40,21	64,34	2206,98	17,81	4.268
30-18-S	56,30	80,42	3375,40	31,16	6.455
30-19-S	56,30	104,55	3969,28	47,59	7.628
30-20-S	56,30	112,59	3975,37	52,16	7.703
30-21-S	56,30	104,55	3977,16	56,78	7.780
30-22-S	56,30	88,47	3975,58	61,46	7.854
30-23-S	56,30	64,34	3966,65	66,18	7.922
30-24-S	56,30	56,30	-3714,97	-221,09	6.905
30-25-S	56,30	56,30	-3708,85	-228,20	6.943
30-26-S	56,30	56,30	-3702,70	-235,35	6.950
30-27-S	56,30	56,30	-3696,69	-242,34	6.890
30-28-S	56,30	56,30	-3691,47	-248,42	6.875
30-29-S	56,30	56,30	-3689,58	-250,61	6.946
30-30-S	56,30	56,30	-3691,24	-248,68	7.151
30-31-S	56,30	56,30	-3695,95	-243,20	7.382
30-32-S	56,30	56,30	-3705,94	-231,58	7.591
30-33-S	56,30	56,30	-3721,29	-213,74	7.756
30-34-S	56,30	56,30	3807,92	-112,48	6.717
30-35-S	56,30	56,30	3831,84	-84,81	5.711
30-36-S	56,30	56,30	3849,63	-64,21	4.941
30-37-S	56,30	56,30	-3965,80	73,00	4.148
30-38-S	56,30	56,30	-3951,64	55,96	3.372
30-39-S	56,30	56,30	-3940,67	42,76	2.843
30-40-S	56,30	56,30	-3934,07	34,82	2.522
30-41-S	56,30	56,30	-3930,09	30,03	2.326
30-42-S	56,30	56,30	-3928,94	28,66	2.270
30-43-S	56,30	56,30	-3929,27	29,06	2.286
30-44-S	56,30	56,30	3910,50	6,43	2.324
30-45-S	56,30	56,30	3913,86	10,45	2.191
30-46-S	56,30	56,30	3916,85	14,01	2.060
30-47-S	56,30	56,30	3919,58	17,28	1.950
30-48-S	56,30	56,30	3922,39	20,64	1.884
30-49-S	56,30	56,30	3925,10	23,87	1.825
30-50-S	56,30	56,30	3927,70	26,98	1.761

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
30-51-S	56,30	56,30	3929,93	29,64	1.710
30-52-S	56,30	56,30	3932,04	32,16	1.696
30-53-S	56,30	56,30	3933,68	34,13	1.679
30-54-S	56,30	56,30	3934,82	35,49	1.662
30-55-S	56,30	56,30	3935,64	36,47	1.682
30-56-S	56,30	56,30	3936,42	37,40	1.704
30-57-S	56,30	56,30	3937,22	38,36	1.727
30-58-S	56,30	56,30	3937,74	38,98	1.769
30-59-S	56,30	56,30	3937,95	39,23	1.840
30-60-S	56,30	56,30	3938,39	39,75	1.911
30-61-S	56,30	56,30	3939,07	40,57	1.983
30-62-S	56,30	64,34	3946,02	41,67	2.063
30-63-S	56,30	88,47	3960,09	43,28	2.194
30-64-S	56,30	104,55	3967,12	45,07	2.347
30-65-S	56,30	112,59	3971,02	47,10	2.520
30-66-S	56,30	104,55	3970,82	49,38	2.718
30-67-S	56,30	80,42	3236,60	36,79	2.399
30-68-S	40,21	64,34	2093,66	22,87	1.694
30-69-S	40,21	56,30	1796,62	16,53	1.585
30-70-S	40,21	56,30	1796,95	17,13	1.727
30-71-S	40,21	56,30	1797,32	17,82	1.895
30-72-S	40,21	40,21	1792,34	18,57	2.089
30-73-S	40,21	40,21	1792,82	19,47	2.324
30-74-S	40,21	40,21	1793,18	20,13	2.586
30-75-S	40,21	40,21	1793,11	19,99	2.857
30-76-S	40,21	40,21	1792,30	18,51	3.086
30-77-S	40,21	40,21	1791,23	16,52	3.345
30-78-S	40,21	40,21	1789,96	14,15	3.652
30-79-S	40,21	40,21	1788,40	11,25	4.026
30-80-S	40,21	40,21	1786,86	8,39	4.413
30-81-S	40,21	40,21	1785,94	6,68	4.737
30-82-S	40,21	40,21	1784,96	4,87	5.078
30-83-S	40,21	40,21	1783,77	2,65	5.454
30-84-S	16,08	16,08	715,39	2,70	4.452
31-1-S	40,21	40,21	1782,05	3,50	9.297
31-2-S	40,21	40,21	1784,38	3,79	6.061
31-3-S	40,21	40,21	1784,34	3,71	5.743
31-4-S	40,21	40,21	1784,33	3,69	5.445
31-5-S	40,21	40,21	1784,29	3,63	5.162
31-6-S	40,21	40,21	1784,20	3,45	4.898
31-7-S	40,21	40,21	1784,14	3,34	4.678
31-8-S	40,21	40,21	1784,11	3,29	4.496
31-9-S	40,21	40,21	1784,12	3,31	4.340
31-10-S	40,21	40,21	1784,20	3,46	4.156
31-11-S	40,21	40,21	1784,33	3,69	3.949
31-12-S	40,21	40,21	1784,43	3,88	3.744
31-13-S	40,21	72,38	1792,91	4,06	3.575
31-14-S	40,21	72,38	1793,00	4,22	3.408
31-15-S	40,21	72,38	1793,10	4,41	3.264
31-16-S	40,21	104,55	2137,54	6,67	3.780
31-17-S	72,38	128,68	4658,58	18,99	8.045
31-18-S	72,38	144,76	5074,60	23,84	8.532
31-19-S	72,38	144,76	5075,26	24,61	8.314
31-20-S	72,38	120,64	5068,60	25,33	8.101
31-21-S	72,38	96,51	5058,34	26,39	7.921
31-22-S	72,38	72,38	-4866,00	-177,06	7.294
31-23-S	72,38	72,38	-4843,59	-203,10	6.918
31-24-S	72,38	72,38	-4834,73	-213,40	6.528
31-25-S	72,38	72,38	-4824,68	-225,07	6.119
31-26-S	72,38	72,38	-4816,29	-234,82	5.743
31-27-S	72,38	72,38	-4808,51	-243,86	5.469
31-28-S	72,38	72,38	-4802,62	-250,71	5.333
31-29-S	72,38	72,38	-4797,22	-256,98	5.455
31-30-S	72,38	72,38	-4795,10	-259,44	5.577
31-31-S	72,38	72,38	-4797,71	-256,41	5.640
31-32-S	72,38	104,55	-6899,70	-355,72	8.202
31-33-S	72,38	120,64	-9278,42	-528,71	11.609
31-34-S	72,38	136,72	-10548,35	-543,90	13.917
31-35-S	72,38	160,85	6263,65	-536,84	14.424
31-36-S	104,55	160,85	10456,32	-622,71	19.716
31-37-S	104,55	160,85	10820,54	-353,77	16.769
31-38-S	104,55	152,81	12189,02	-291,60	15.882
31-39-S	104,55	128,68	12309,83	-195,49	13.473
31-40-S	104,55	136,72	13672,67	-165,17	12.707
31-41-S	104,55	136,72	-18658,89	358,65	10.098
31-42-S	104,55	136,72	-18505,31	260,96	7.836
31-43-S	104,55	136,72	-18395,18	190,91	6.548

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
31-44-S	104,55	136,72	-18339,63	155,57	5.862
31-45-S	104,55	136,72	-18392,94	189,48	6.519
31-46-S	104,55	136,72	13999,24	32,22	6.950
31-47-S	104,55	136,72	14032,58	52,87	6.475
31-48-S	104,55	136,72	14066,00	73,58	6.080
31-49-S	104,55	128,68	12128,13	68,90	4.897
31-50-S	104,55	152,81	12758,66	87,92	4.872
31-51-S	104,55	160,85	11415,46	87,65	4.199
31-52-S	104,55	152,81	11431,71	104,95	4.053
31-53-S	72,38	152,81	6990,33	65,45	2.423
31-54-S	72,38	128,68	6033,18	55,42	2.068
31-55-S	72,38	112,59	6031,71	61,35	2.043
31-56-S	72,38	104,55	5080,61	47,47	1.718
31-57-S	72,38	72,38	5061,37	51,17	1.743
31-58-S	72,38	72,38	5064,31	54,67	1.774
31-59-S	72,38	72,38	5067,04	57,93	1.802
31-60-S	72,38	72,38	5069,53	60,89	1.874
31-61-S	72,38	72,38	5070,17	61,65	1.958
31-62-S	72,38	72,38	5069,94	61,38	2.045
31-63-S	72,38	72,38	5069,77	61,18	2.154
31-64-S	72,38	72,38	5070,26	61,76	2.325
31-65-S	72,38	72,38	5071,19	62,86	2.513
31-66-S	72,38	72,38	5072,80	64,79	2.700
31-67-S	72,38	96,51	5093,58	67,84	2.912
31-68-S	72,38	120,64	5108,10	71,37	3.177
31-69-S	72,38	144,76	5119,24	75,55	3.503
31-70-S	72,38	144,76	5123,53	80,53	3.895
31-71-S	72,38	128,68	4744,01	74,93	4.048
31-72-S	40,21	104,55	2222,80	32,11	2.126
31-73-S	40,21	72,38	1803,06	22,53	1.923
31-74-S	40,21	72,38	1803,79	23,85	2.146
31-75-S	40,21	72,38	1804,68	25,48	2.433
31-76-S	40,21	40,21	1797,10	27,41	2.792
31-77-S	40,21	40,21	1798,48	29,97	3.270
31-78-S	40,21	40,21	1799,61	32,07	3.810
31-79-S	40,21	40,21	1799,45	31,78	4.268
31-80-S	40,21	40,21	1784,23	3,52	4.564
31-81-S	40,21	40,21	1784,20	3,46	4.750
31-82-S	40,21	40,21	1784,23	3,51	4.940
31-83-S	40,21	40,21	1784,27	3,58	5.145
31-84-S	40,21	40,21	1784,29	3,62	5.377
31-85-S	40,21	40,21	1784,30	3,63	5.626
31-86-S	40,21	40,21	1784,36	3,76	5.934
31-87-S	24,13	24,13	1071,29	2,10	5.451
32-1-S	40,21	40,21	1782,63	1,30	7.672
32-2-S	40,21	40,21	1782,97	1,17	6.803
32-3-S	40,21	40,21	1782,92	1,08	6.422
32-4-S	40,21	40,21	1782,90	1,04	6.102
32-5-S	40,21	40,21	1782,83	0,91	5.840
32-6-S	40,21	40,21	1782,74	0,75	5.606
32-7-S	40,21	40,21	1782,70	0,66	5.348
32-8-S	40,21	40,21	1782,69	0,64	5.084
32-9-S	40,21	40,21	1782,67	0,62	4.839
32-10-S	40,21	40,21	1782,62	0,53	4.539
32-11-S	40,21	40,21	1782,55	0,40	4.224
32-12-S	40,21	72,38	1790,86	0,33	3.973
32-13-S	40,21	72,38	1790,92	0,44	3.749
32-14-S	40,21	72,38	1791,08	0,72	3.565
32-15-S	40,21	88,47	1996,63	1,08	3.786
32-16-S	72,38	136,72	4688,98	3,39	8.388
32-17-S	72,38	144,76	5057,18	3,67	8.494
32-18-S	72,38	144,76	5056,72	3,14	8.022
32-19-S	72,38	128,68	5052,39	3,26	7.671
32-20-S	72,38	88,47	5034,29	3,91	7.407
32-21-S	72,38	72,38	-4865,98	-177,09	6.780
32-22-S	72,38	72,38	-4873,01	-168,93	6.034
32-23-S	72,38	72,38	-4879,02	-161,94	5.346
32-24-S	72,38	72,38	-4881,64	-158,89	4.824
32-25-S	72,38	72,38	-4882,23	-158,21	4.444
32-26-S	72,38	72,38	-4882,44	-157,96	4.153
32-27-S	72,38	72,38	-4885,74	-154,13	3.884
32-28-S	72,38	104,55	-7024,06	-209,27	5.299
32-29-S	72,38	104,55	-7036,74	-194,34	5.084
32-30-S	72,38	112,59	-7578,63	-194,23	5.257
32-31-S	72,38	152,81	6966,66	45,29	8.558
32-32-S	104,55	168,89	-16910,34	-826,75	12.089
32-33-S	104,55	193,02	-23189,54	-1349,63	17.154

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
32-34-S	104,55	209,10	-25229,54	-1377,40	19.297
32-35-S	104,55	160,85	-19673,17	-956,25	16.093
32-36-S	104,55	144,76	-17931,83	-743,38	16.148
32-37-S	104,55	120,64	-15161,17	-514,31	15.122
32-38-S	104,55	104,55	-13174,66	-441,26	15.205
32-39-S	104,55	104,55	-13160,06	-450,15	18.382
32-40-S	104,55	104,55	13395,14	-305,71	15.227
32-41-S	104,55	104,55	13579,18	-194,03	12.622
32-42-S	104,55	104,55	-14389,23	309,03	7.371
32-43-S	104,55	104,55	-14205,88	193,46	4.358
32-44-S	104,55	104,55	-14128,59	144,75	3.140
32-45-S	104,55	104,55	-14089,71	120,24	2.713
32-46-S	104,55	104,55	-14112,13	134,37	3.095
32-47-S	104,55	104,55	-14168,28	169,76	4.134
32-48-S	104,55	104,55	14002,50	64,91	5.502
32-49-S	104,55	104,55	14028,09	80,95	5.041
32-50-S	104,55	104,55	14053,48	96,87	4.679
32-51-S	104,55	104,55	14075,34	110,57	4.403
32-52-S	104,55	104,55	14093,80	122,14	4.174
32-53-S	104,55	120,64	14143,87	136,05	4.018
32-54-S	104,55	144,76	14204,09	152,90	3.925
32-55-S	104,55	160,85	14253,64	172,58	3.851
32-56-S	104,55	209,10	14329,72	195,81	3.823
32-57-S	104,55	193,02	14357,08	219,06	3.862
32-58-S	104,55	168,89	11514,47	157,94	3.134
32-59-S	72,38	152,81	7022,53	92,88	1.937
32-60-S	72,38	112,59	5089,35	53,30	1.459
32-61-S	72,38	104,55	5089,33	57,69	1.532
32-62-S	72,38	104,55	5093,49	62,57	1.614
32-63-S	72,38	72,38	5074,17	66,41	1.720
32-64-S	72,38	72,38	5076,64	69,35	1.864
32-65-S	72,38	72,38	5077,67	70,58	2.012
32-66-S	72,38	72,38	5078,33	71,38	2.181
32-67-S	72,38	72,38	5079,34	72,58	2.392
32-68-S	72,38	72,38	5080,82	74,34	2.651
32-69-S	72,38	72,38	5083,10	77,05	2.936
32-70-S	72,38	88,47	5099,77	81,21	3.253
32-71-S	72,38	128,68	5124,28	86,86	3.615
32-72-S	72,38	144,76	5135,03	93,84	4.067
32-73-S	72,38	144,76	5142,96	103,02	4.665
32-74-S	72,38	136,72	4766,08	99,66	5.061
32-75-S	40,21	88,47	2018,28	36,33	2.499
32-76-S	40,21	72,38	1808,10	31,69	2.554
32-77-S	40,21	72,38	1809,81	34,80	2.956
32-78-S	40,21	72,38	1812,06	38,90	3.499
32-79-S	40,21	40,21	1782,45	0,20	4.187
32-80-S	40,21	40,21	1782,46	0,22	4.461
32-81-S	40,21	40,21	1782,52	0,34	4.746
32-82-S	40,21	40,21	1782,60	0,48	4.985
32-83-S	40,21	40,21	1782,68	0,63	5.245
32-84-S	40,21	40,21	1782,76	0,79	5.532
32-85-S	40,21	40,21	1782,85	0,95	5.852
32-86-S	40,21	40,21	1782,92	1,08	6.171
32-87-S	40,21	40,21	1782,95	1,14	6.485
32-88-S	40,21	40,21	1783,00	1,23	6.827
32-89-S	32,17	32,17	1427,61	1,04	6.112
33-1-S	40,21	40,21	1782,14	-0,37	8.719
33-2-S	40,21	40,21	1782,04	-0,55	8.196
33-3-S	40,21	40,21	1781,96	-0,68	7.720
33-4-S	40,21	40,21	1781,91	-0,77	7.292
33-5-S	40,21	40,21	1781,73	-1,09	6.843
33-6-S	40,21	40,21	1781,58	-1,37	6.457
33-7-S	40,21	40,21	1781,45	-1,60	6.125
33-8-S	40,21	40,21	1781,35	-1,78	5.837
33-9-S	40,21	40,21	1781,30	-1,87	5.544
33-10-S	40,21	40,21	1781,28	-1,92	5.142
33-11-S	40,21	72,38	1789,61	-1,89	4.806
33-12-S	40,21	72,38	1789,65	-1,83	4.491
33-13-S	40,21	72,38	1789,69	-1,76	4.218
33-14-S	40,21	72,38	1789,72	-1,71	3.974
33-15-S	72,38	120,64	4676,26	-6,65	9.777
33-16-S	72,38	144,76	5046,65	-8,35	9.868
33-17-S	72,38	144,76	5046,24	-8,82	9.272
33-18-S	72,38	144,76	5046,12	-8,96	8.758
33-19-S	72,38	104,55	5032,43	-8,79	8.281
33-20-S	72,38	72,38	5011,01	-8,55	7.840
33-21-S	72,38	72,38	-4850,49	-195,08	6.832

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
33-22-S	72,38	72,38	-4861,43	-182,38	5.885
33-23-S	72,38	72,38	-4870,32	-172,04	5.158
33-24-S	72,38	72,38	-4878,17	-162,92	4.549
33-25-S	72,38	72,38	-4885,47	-154,45	3.991
33-26-S	72,38	104,55	-7021,97	-211,73	5.126
33-27-S	72,38	104,55	-7039,58	-191,00	4.549
33-28-S	72,38	104,55	-7058,86	-168,28	4.063
33-29-S	72,38	120,64	-9500,06	-235,28	4.942
33-30-S	104,55	176,93	-19254,41	-608,27	8.986
33-31-S	104,55	209,10	-26015,67	-885,99	11.450
33-32-S	104,55	209,10	-26079,20	-846,28	11.257
33-33-S	104,55	201,06	-25134,66	-783,64	10.629
33-34-S	104,55	144,76	-18196,93	-580,05	8.084
33-35-S	104,55	104,55	-13159,47	-450,52	6.368
33-36-S	104,55	104,55	-13100,20	-486,62	6.857
33-37-S	104,55	104,55	-13047,54	-518,71	7.631
33-38-S	104,55	104,55	-12973,02	-564,11	8.943
33-39-S	104,55	104,55	-12824,36	-654,68	10.873
33-40-S	104,55	104,55	-12544,46	-825,20	13.990
33-41-S	104,55	104,55	12544,58	-821,83	15.230
33-42-S	104,55	104,55	12971,34	-562,87	12.396
33-43-S	104,55	104,55	13280,54	-375,25	10.182
33-44-S	104,55	104,55	13584,37	-190,88	8.647
33-45-S	104,55	104,55	13878,17	-12,60	7.604
33-46-S	104,55	104,55	14012,69	71,30	6.662
33-47-S	104,55	104,55	14066,63	105,11	5.876
33-48-S	104,55	104,55	14106,72	130,24	5.241
33-49-S	104,55	104,55	14126,15	142,42	4.775
33-50-S	104,55	104,55	14147,36	155,71	4.390
33-51-S	104,55	104,55	14081,22	114,26	4.061
33-52-S	104,55	104,55	14087,92	118,45	3.776
33-53-S	104,55	104,55	14202,11	190,03	3.506
33-54-S	104,55	104,55	14211,38	195,84	3.289
33-55-S	104,55	104,55	14222,18	202,61	3.123
33-56-S	104,55	104,55	14227,29	205,81	3.015
33-57-S	104,55	104,55	14226,13	205,09	2.988
33-58-S	104,55	144,76	14293,51	208,15	2.980
33-59-S	104,55	201,06	14357,87	216,11	3.012
33-60-S	104,55	209,10	14384,35	229,08	3.145
33-61-S	104,55	209,10	14415,70	248,16	3.289
33-62-S	104,55	176,93	12357,26	199,41	3.001
33-63-S	72,38	120,64	6049,59	75,09	1.603
33-64-S	72,38	104,55	5089,37	57,74	1.463
33-65-S	72,38	104,55	5093,62	62,73	1.601
33-66-S	72,38	104,55	5099,69	69,83	1.784
33-67-S	72,38	72,38	5083,20	77,17	1.997
33-68-S	72,38	72,38	5085,13	79,47	2.193
33-69-S	72,38	72,38	5087,21	81,95	2.427
33-70-S	72,38	72,38	5028,98	12,59	2.719
33-71-S	72,38	72,38	5029,12	12,77	3.096
33-72-S	72,38	72,38	5030,55	14,47	3.533
33-73-S	72,38	104,55	5051,74	13,63	3.980
33-74-S	72,38	144,76	5065,02	12,75	4.542
33-75-S	72,38	144,76	5065,26	13,03	5.258
33-76-S	72,38	144,76	5067,12	15,18	6.227
33-77-S	72,38	120,64	4695,07	16,80	7.023
33-78-S	40,21	72,38	1813,96	42,37	3.144
33-79-S	40,21	72,38	1816,70	47,34	3.706
33-80-S	40,21	72,38	1820,63	54,50	4.514
33-81-S	40,21	72,38	1789,64	-1,86	4.827
33-82-S	40,21	40,21	1781,32	-1,84	5.153
33-83-S	40,21	40,21	1781,33	-1,83	5.548
33-84-S	40,21	40,21	1781,36	-1,77	5.868
33-85-S	40,21	40,21	1781,43	-1,64	6.179
33-86-S	40,21	40,21	1781,55	-1,43	6.500
33-87-S	40,21	40,21	1781,70	-1,15	6.828
33-88-S	40,21	40,21	1781,84	-0,90	7.196
33-89-S	40,21	40,21	1781,90	-0,79	7.614
33-90-S	40,21	40,21	1781,97	-0,67	8.108
33-91-S	40,21	40,21	1782,08	-0,48	8.668
34-1-S	40,21	40,21	1781,57	-1,38	11.133
34-2-S	40,21	40,21	1781,49	-1,53	10.381
34-3-S	40,21	40,21	1781,42	-1,65	9.731
34-4-S	40,21	40,21	1781,34	-1,79	9.197
34-5-S	40,21	40,21	1781,19	-2,07	8.839
34-6-S	40,21	40,21	1781,05	-2,32	8.429
34-7-S	40,21	40,21	1780,94	-2,52	7.971

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
34-8-S	40,21	40,21	1780,85	-2,69	7.497
34-9-S	40,21	40,21	1780,76	-2,84	6.978
34-10-S	40,21	40,21	1780,68	-2,98	6.382
34-11-S	40,21	80,42	1789,96	-3,12	5.905
34-12-S	40,21	80,42	1789,91	-3,21	5.467
34-13-S	40,21	80,42	1789,92	-3,20	5.101
34-14-S	40,21	80,42	1789,96	-3,12	4.781
34-15-S	80,42	160,85	5602,31	-15,49	13.900
34-16-S	80,42	160,85	5601,61	-16,29	12.920
34-17-S	80,42	160,85	5601,02	-16,96	12.069
34-18-S	80,42	160,85	5600,61	-17,42	11.338
34-19-S	80,42	80,42	5560,10	-17,70	10.613
34-20-S	80,42	80,42	-5340,67	-272,57	9.318
34-21-S	80,42	80,42	-5361,28	-248,64	7.839
34-22-S	80,42	80,42	-5381,13	-225,59	6.620
34-23-S	80,42	80,42	-5397,98	-206,03	5.678
34-24-S	80,42	80,42	-5410,81	-191,13	4.967
34-25-S	80,42	104,55	-7023,93	-225,12	5.636
34-26-S	80,42	104,55	-7055,15	-188,53	4.811
34-27-S	80,42	104,55	-7080,47	-158,86	4.161
34-28-S	80,42	120,64	-9541,67	-213,35	4.903
34-29-S	104,55	209,10	-26170,72	-789,08	11.123
34-30-S	104,55	209,10	-26332,00	-688,26	9.463
34-31-S	104,55	209,10	-26435,24	-623,73	8.292
34-32-S	104,55	201,06	-25461,16	-579,55	7.005
34-33-S	104,55	104,55	-13402,23	-302,62	3.341
34-34-S	104,55	104,55	-13408,28	-298,93	3.069
34-35-S	104,55	104,55	-13288,50	-371,90	3.610
34-36-S	104,55	104,55	-13119,84	-474,66	4.402
34-37-S	104,55	104,55	-12882,86	-619,04	5.533
34-38-S	104,55	104,55	-12549,67	-822,03	7.094
34-39-S	104,55	104,55	-12044,02	-1130,09	9.416
34-40-S	104,55	104,55	-11254,62	-1597,45	12.797
34-41-S	104,55	104,55	14164,97	166,75	14.934
34-42-S	104,55	104,55	11296,61	-1579,11	12.332
34-43-S	104,55	104,55	12485,47	-857,70	9.633
34-44-S	104,55	104,55	13253,24	-391,81	7.848
34-45-S	104,55	104,55	13755,87	-86,82	6.463
34-46-S	104,55	104,55	14056,42	98,71	5.410
34-47-S	104,55	104,55	14028,32	81,09	4.736
34-48-S	104,55	104,55	13977,84	49,45	4.507
34-49-S	104,55	104,55	13925,80	16,83	4.240
34-50-S	104,55	104,55	13876,69	-13,50	3.948
34-51-S	104,55	104,55	13842,08	-34,50	3.652
34-52-S	104,55	104,55	13860,08	-23,58	3.312
34-53-S	104,55	104,55	13896,60	-1,42	3.038
34-54-S	104,55	104,55	13941,76	26,84	2.823
34-55-S	104,55	104,55	13993,46	59,25	2.595
34-56-S	104,55	104,55	14049,70	94,50	2.387
34-57-S	104,55	104,55	14093,32	121,84	2.204
34-58-S	104,55	104,55	14232,24	208,92	2.049
34-59-S	104,55	104,55	14231,28	208,31	2.216
34-60-S	104,55	209,10	14191,96	111,94	2.438
34-61-S	104,55	209,10	14154,03	88,85	2.707
34-62-S	104,55	209,10	14084,72	46,65	3.005
34-63-S	104,55	209,10	14013,14	3,07	3.391
34-64-S	80,42	120,64	6619,39	-11,37	1.840
34-65-S	80,42	104,55	5584,94	-10,39	1.729
34-66-S	80,42	104,55	5582,78	-12,87	1.944
34-67-S	80,42	104,55	5582,25	-13,48	2.214
34-68-S	80,42	80,42	5564,53	-12,58	2.485
34-69-S	80,42	80,42	5565,76	-11,15	2.775
34-70-S	80,42	80,42	5567,31	-9,36	3.140
34-71-S	80,42	80,42	5568,50	-7,98	3.592
34-72-S	80,42	80,42	5568,59	-7,88	4.153
34-73-S	80,42	80,42	5568,38	-8,12	4.700
34-74-S	80,42	160,85	5609,75	-7,06	5.393
34-75-S	80,42	160,85	5611,05	-5,58	6.265
34-76-S	80,42	160,85	5613,29	-3,04	7.473
34-77-S	80,42	160,85	5616,59	0,72	9.257
34-78-S	40,21	80,42	1792,18	0,84	3.754
34-79-S	40,21	80,42	1792,14	0,76	4.533
34-80-S	40,21	80,42	1789,87	-3,28	5.548
34-81-S	40,21	80,42	1789,86	-3,30	5.934
34-82-S	40,21	40,21	1780,53	-3,27	6.346
34-83-S	40,21	40,21	1780,56	-3,20	6.865
34-84-S	40,21	40,21	1780,65	-3,04	7.316

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
34-85-S	40,21	40,21	1780,79	-2,80	7.722
34-86-S	40,21	40,21	1780,94	-2,52	8.178
34-87-S	40,21	40,21	1781,11	-2,21	8.692
34-88-S	40,21	40,21	1781,31	-1,85	9.269
34-89-S	40,21	40,21	1781,37	-1,74	9.694
34-90-S	40,21	40,21	1781,43	-1,65	10.144
34-91-S	40,21	40,21	1781,50	-1,51	10.710
35-1-S	48,25	48,25	-2136,41	-1,60	15.464
35-2-S	48,25	48,25	-2136,29	-1,81	14.886
35-3-S	48,25	48,25	-2136,18	-2,01	14.341
35-4-S	48,25	48,25	-2136,04	-2,26	13.689
35-5-S	48,25	48,25	-2135,80	-2,69	12.776
35-6-S	48,25	48,25	-2135,62	-3,03	11.998
35-7-S	48,25	48,25	-2135,47	-3,30	11.325
35-8-S	48,25	48,25	-2135,36	-3,50	10.744
35-9-S	48,25	48,25	-2135,21	-3,77	10.452
35-10-S	48,25	48,25	2135,02	-4,10	10.267
35-11-S	48,25	80,42	2144,89	-4,12	9.500
35-12-S	48,25	80,42	2144,89	-4,13	8.790
35-13-S	48,25	80,42	2144,89	-4,13	8.166
35-14-S	48,25	80,42	2144,89	-4,13	7.618
35-15-S	80,42	160,85	5601,31	-16,63	18.260
35-16-S	80,42	160,85	5601,33	-16,60	16.829
35-17-S	80,42	160,85	5601,30	-16,64	15.602
35-18-S	80,42	160,85	5601,29	-16,65	14.590
35-19-S	80,42	80,42	-5297,89	-322,25	11.220
35-20-S	80,42	80,42	-5325,81	-289,83	9.259
35-21-S	80,42	80,42	-5346,37	-265,96	7.822
35-22-S	80,42	80,42	-5361,48	-248,41	6.772
35-23-S	80,42	80,42	-5373,51	-234,44	5.958
35-24-S	80,42	104,55	-6973,03	-284,78	6.778
35-25-S	80,42	104,55	-7012,20	-238,86	5.695
35-26-S	80,42	104,55	-7044,26	-201,29	4.865
35-27-S	80,42	104,55	-7068,33	-173,09	4.247
35-28-S	104,55	209,10	-25795,45	-1023,65	13.515
35-29-S	104,55	209,10	-26122,52	-819,20	11.186
35-30-S	104,55	209,10	-26359,04	-671,36	9.476
35-31-S	104,55	209,10	-26590,80	-526,49	7.252
35-32-S	104,55	104,55	-13553,83	-210,25	2.622
35-33-S	104,55	104,55	-13595,92	-184,61	2.113
35-34-S	104,55	104,55	-13611,60	-175,06	1.866
35-35-S	104,55	104,55	-13512,30	-235,56	2.199
35-36-S	104,55	104,55	-13350,84	-333,93	2.796
35-37-S	104,55	104,55	-13027,83	-530,71	4.060
35-38-S	104,55	104,55	-12371,01	-930,88	6.340
35-39-S	104,55	104,55	-11393,28	-1515,44	8.997
35-40-S	104,55	104,55	14022,69	77,57	9.439
35-41-S	104,55	104,55	14037,15	86,63	8.720
35-42-S	104,55	104,55	14044,86	91,47	7.850
35-43-S	104,55	104,55	14031,28	82,95	6.596
35-44-S	104,55	104,55	14020,37	76,12	5.696
35-45-S	104,55	104,55	13886,12	-7,78	4.836
35-46-S	104,55	104,55	13894,79	-2,52	4.011
35-47-S	104,55	104,55	13918,60	12,32	3.904
35-48-S	104,55	104,55	13926,38	17,20	3.872
35-49-S	104,55	104,55	13929,19	18,96	3.880
35-50-S	104,55	104,55	13918,71	12,39	3.820
35-51-S	104,55	104,55	13897,35	-0,97	3.526
35-52-S	104,55	104,55	13892,80	-3,73	3.242
35-53-S	104,55	104,55	13899,03	0,05	2.987
35-54-S	104,55	104,55	13910,54	7,27	2.695
35-55-S	104,55	104,55	13907,41	5,31	2.159
35-56-S	104,55	104,55	13903,52	2,87	1.806
35-57-S	104,55	104,55	13905,16	3,90	1.583
35-58-S	104,55	104,55	13912,36	8,41	1.442
35-59-S	104,55	104,55	13907,96	5,65	1.605
35-60-S	104,55	104,55	13904,67	3,59	1.906
35-61-S	104,55	209,10	14010,64	1,55	2.460
35-62-S	104,55	209,10	14009,53	0,88	2.980
35-63-S	104,55	209,10	14009,39	0,79	3.404
35-64-S	104,55	209,10	14008,28	0,11	3.951
35-65-S	80,42	104,55	5654,73	71,36	1.759
35-66-S	80,42	104,55	5595,42	1,65	1.966
35-67-S	80,42	104,55	5595,34	1,57	2.228
35-68-S	80,42	104,55	5595,32	1,54	2.569
35-69-S	80,42	80,42	5576,99	1,89	2.865
35-70-S	80,42	80,42	5576,84	1,71	3.199

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
35-71-S	80,42	80,42	5576,64	1,47	3.610
35-72-S	80,42	80,42	5575,71	0,36	4.142
35-73-S	80,42	80,42	5574,04	-1,58	4.810
35-74-S	80,42	160,85	5614,79	-1,34	5.536
35-75-S	80,42	160,85	5614,94	-1,17	6.444
35-76-S	80,42	160,85	5615,02	-1,07	7.686
35-77-S	80,42	160,85	5614,84	-1,28	9.505
35-78-S	48,25	80,42	2146,98	-0,40	4.698
35-79-S	48,25	80,42	2146,92	-0,52	5.701
35-80-S	48,25	80,42	2146,82	-0,69	7.248
35-81-S	48,25	80,42	2144,77	-4,34	9.485
35-82-S	48,25	48,25	2134,88	-4,34	10.168
35-83-S	48,25	48,25	-2134,94	-4,26	10.861
35-84-S	48,25	48,25	-2135,09	-3,98	11.338
35-85-S	48,25	48,25	-2135,31	-3,58	11.767
35-86-S	48,25	48,25	-2135,53	-3,19	12.241
35-87-S	48,25	48,25	-2135,75	-2,80	12.770
35-88-S	48,25	48,25	-2135,97	-2,39	13.375
35-89-S	48,25	48,25	-2136,09	-2,18	13.927
35-90-S	48,25	48,25	-2136,16	-2,04	14.553
35-91-S	48,25	48,25	-2136,24	-1,89	15.295
36-1-S	40,21	40,21	-1782,06	-0,50	10.996
36-2-S	40,21	40,21	-1782,03	-0,56	10.626
36-3-S	40,21	40,21	-1781,98	-0,65	10.323
36-4-S	40,21	40,21	-1781,94	-0,72	10.025
36-5-S	40,21	40,21	-1781,91	-0,79	9.440
36-6-S	40,21	40,21	-1781,85	-0,88	8.933
36-7-S	40,21	40,21	-1781,78	-1,01	8.494
36-8-S	40,21	40,21	-1781,70	-1,16	8.114
36-9-S	40,21	40,21	-1781,59	-1,36	7.892
36-10-S	40,21	40,21	-1781,46	-1,60	7.852
36-11-S	40,21	80,42	1790,14	-2,80	12.015
36-12-S	40,21	80,42	1790,09	-2,89	11.003
36-13-S	40,21	80,42	1790,06	-2,96	10.178
36-14-S	40,21	80,42	1790,02	-3,02	9.491
36-15-S	80,42	160,85	5603,72	-13,90	27.419
36-16-S	80,42	160,85	5604,70	-12,78	25.424
36-17-S	80,42	160,85	5605,45	-11,94	23.716
36-18-S	80,42	160,85	5606,06	-11,24	22.206
36-19-S	80,42	80,42	-5327,96	-287,34	10.599
36-20-S	80,42	80,42	-5348,88	-263,04	8.755
36-21-S	80,42	80,42	-5363,90	-245,60	7.449
36-22-S	80,42	80,42	-5375,86	-231,72	6.486
36-23-S	80,42	80,42	-5386,19	-219,72	5.651
36-24-S	80,42	80,42	-5395,68	-208,70	4.977
36-25-S	80,42	104,55	-7000,02	-253,14	5.715
36-26-S	80,42	104,55	-7033,86	-213,48	4.870
36-27-S	80,42	104,55	-7064,64	-177,41	4.188
36-28-S	80,42	120,64	-9519,73	-235,41	4.923
36-29-S	104,55	209,10	-26147,56	-803,55	11.175
36-30-S	104,55	209,10	-26437,70	-622,19	9.545
36-31-S	104,55	209,10	-26663,24	-480,70	8.373
36-32-S	104,55	201,06	-25719,85	-417,84	7.059
36-33-S	104,55	104,55	-13557,90	-207,78	3.350
36-34-S	104,55	104,55	-13571,00	-199,80	3.082
36-35-S	104,55	104,55	-13453,22	-271,55	3.602
36-36-S	104,55	104,55	-13277,86	-378,39	4.341
36-37-S	104,55	104,55	-13019,31	-535,91	5.420
36-38-S	104,55	104,55	-12692,85	-734,80	7.057
36-39-S	104,55	104,55	13953,52	34,21	7.181
36-40-S	104,55	104,55	13927,58	17,95	6.357
36-41-S	104,55	104,55	13906,77	4,91	5.728
36-42-S	104,55	104,55	13898,17	-0,47	5.135
36-43-S	104,55	104,55	13892,16	-4,12	4.640
36-44-S	104,55	104,55	13888,27	-6,48	4.226
36-45-S	104,55	104,55	13885,83	-7,96	3.868
36-46-S	104,55	104,55	13888,09	-6,59	3.707
36-47-S	104,55	104,55	13906,53	4,75	3.997
36-48-S	104,55	104,55	13926,25	17,12	4.345
36-49-S	104,55	104,55	13926,09	17,02	4.190
36-50-S	104,55	104,55	13952,38	33,49	3.891
36-51-S	104,55	104,55	13930,16	19,57	3.597
36-52-S	104,55	104,55	13893,03	-3,59	3.327
36-53-S	104,55	104,55	13854,20	-27,15	3.086
36-54-S	104,55	104,55	13815,34	-50,73	2.864
36-55-S	104,55	104,55	13776,68	-74,19	2.596
36-56-S	104,55	104,55	13746,21	-92,68	2.343

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
36-57-S	104,55	104,55	13726,30	-104,76	2.136
36-58-S	104,55	104,55	13716,03	-110,99	2.012
36-59-S	104,55	104,55	13719,23	-109,05	2.175
36-60-S	104,55	209,10	13832,16	-104,58	2.381
36-61-S	104,55	209,10	13854,63	-91,23	2.648
36-62-S	104,55	209,10	13929,97	-46,44	2.968
36-63-S	104,55	209,10	14008,99	0,54	3.392
36-64-S	80,42	120,64	6644,07	12,80	1.850
36-65-S	80,42	104,55	5653,27	69,63	1.731
36-66-S	80,42	104,55	5662,17	80,10	1.947
36-67-S	80,42	104,55	5606,07	14,17	2.223
36-68-S	80,42	80,42	5587,61	14,52	2.499
36-69-S	80,42	80,42	5587,48	14,36	2.775
36-70-S	80,42	80,42	5586,84	13,59	3.119
36-71-S	80,42	80,42	5584,36	10,65	3.551
36-72-S	80,42	80,42	5581,09	6,76	4.085
36-73-S	80,42	80,42	5579,22	4,54	4.630
36-74-S	80,42	160,85	5619,10	3,62	5.309
36-75-S	80,42	160,85	5617,71	2,01	6.162
36-76-S	80,42	160,85	5615,60	-0,42	7.343
36-77-S	80,42	160,85	5612,02	-4,48	9.080
36-78-S	40,21	80,42	1790,78	-1,66	3.689
36-79-S	40,21	80,42	1790,87	-1,50	4.485
36-80-S	40,21	80,42	1790,77	-1,69	5.656
36-81-S	40,21	80,42	1790,22	-2,66	7.534
36-82-S	40,21	40,21	-1781,24	-2,00	8.052
36-83-S	40,21	40,21	-1781,26	-1,95	8.371
36-84-S	40,21	40,21	-1781,33	-1,83	8.695
36-85-S	40,21	40,21	-1781,43	-1,65	9.028
36-86-S	40,21	40,21	-1781,55	-1,44	9.365
36-87-S	40,21	40,21	-1781,69	-1,18	9.697
36-88-S	40,21	40,21	-1781,84	-0,91	10.042
36-89-S	40,21	40,21	-1781,85	-0,89	10.595
36-90-S	40,21	40,21	-1781,84	-0,91	11.263
36-91-S	40,21	40,21	-1781,84	-0,90	12.023
37-1-S	40,21	40,21	-1782,12	-0,40	10.512
37-2-S	40,21	40,21	-1782,15	-0,34	10.070
37-3-S	40,21	40,21	-1782,18	-0,30	9.661
37-4-S	40,21	40,21	-1782,18	-0,30	9.264
37-5-S	40,21	40,21	-1782,16	-0,34	8.776
37-6-S	40,21	40,21	-1782,13	-0,38	8.309
37-7-S	40,21	40,21	-1782,12	-0,40	7.919
37-8-S	40,21	40,21	-1782,11	-0,41	7.597
37-9-S	40,21	40,21	-1782,11	-0,42	7.393
37-10-S	40,21	40,21	-1782,10	-0,44	7.505
37-11-S	40,21	72,38	-3171,25	-0,86	13.661
37-12-S	40,21	72,38	-3171,18	-0,98	13.977
37-13-S	40,21	72,38	-3171,08	-1,18	14.318
37-14-S	40,21	72,38	-3075,58	-179,82	14.579
37-15-S	72,38	120,64	-7267,34	-537,98	28.802
37-16-S	72,38	144,76	-9397,03	-608,93	29.070
37-17-S	72,38	144,76	-9467,95	-521,11	23.897
37-18-S	72,38	144,76	-9519,88	-456,80	20.271
37-19-S	72,38	104,55	-6950,06	-296,41	12.790
37-20-S	72,38	72,38	-4856,30	-188,33	7.801
37-21-S	72,38	72,38	-4866,06	-177,00	6.773
37-22-S	72,38	72,38	-4873,28	-168,61	5.858
37-23-S	72,38	72,38	-4886,30	-153,48	5.066
37-24-S	72,38	72,38	-4897,13	-140,90	4.466
37-25-S	72,38	72,38	-4905,59	-131,07	4.009
37-26-S	72,38	104,55	-7057,59	-169,79	5.150
37-27-S	72,38	104,55	-7082,92	-139,95	4.539
37-28-S	72,38	104,55	-7103,78	-115,38	4.082
37-29-S	72,38	120,64	-9580,07	-154,41	4.989
37-30-S	104,55	176,93	-19629,86	-338,14	9.201
37-31-S	104,55	209,10	-26769,97	-411,35	11.820
37-32-S	104,55	209,10	-26872,08	-345,01	11.592
37-33-S	104,55	201,06	-25915,27	-295,69	10.911
37-34-S	104,55	144,76	-18780,76	-220,35	8.297
37-35-S	104,55	104,55	-13612,67	-174,41	6.476
37-36-S	104,55	104,55	-13579,71	-194,49	6.917
37-37-S	104,55	104,55	-13524,02	-228,42	7.836
37-38-S	104,55	104,55	13800,25	-59,89	7.062
37-39-S	104,55	104,55	13795,08	-63,03	6.176
37-40-S	104,55	104,55	13791,86	-64,98	5.372
37-41-S	104,55	104,55	13789,40	-66,47	4.491
37-42-S	104,55	104,55	13787,94	-67,36	3.852

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
37-43-S	104,55	104,55	13787,95	-67,35	3.424
37-44-S	104,55	104,55	13791,70	-65,07	3.018
37-45-S	104,55	104,55	13789,62	-66,34	2.907
37-46-S	104,55	104,55	13785,36	-68,92	2.879
37-47-S	104,55	104,55	13781,41	-71,32	2.859
37-48-S	104,55	104,55	13777,73	-73,56	3.016
37-49-S	104,55	104,55	13776,61	-74,23	3.416
37-50-S	104,55	104,55	13782,09	-70,90	3.892
37-51-S	104,55	104,55	13677,29	-134,50	3.962
37-52-S	104,55	104,55	13676,62	-134,91	3.666
37-53-S	104,55	104,55	13644,36	-154,48	3.388
37-54-S	104,55	104,55	13613,84	-173,00	3.177
37-55-S	104,55	104,55	13588,00	-188,68	3.016
37-56-S	104,55	104,55	13565,92	-202,08	2.926
37-57-S	104,55	104,55	13545,89	-214,23	2.886
37-58-S	104,55	144,76	13579,32	-226,60	2.861
37-59-S	104,55	201,06	13600,05	-240,02	2.892
37-60-S	104,55	209,10	13595,55	-245,22	3.009
37-61-S	104,55	209,10	13597,19	-244,25	3.135
37-62-S	104,55	176,93	11834,98	-165,90	2.907
37-63-S	72,38	120,64	5923,91	-48,01	1.589
37-64-S	72,38	104,55	5011,54	-32,69	1.459
37-65-S	72,38	104,55	5015,55	-28,11	1.594
37-66-S	72,38	104,55	5018,94	-24,23	1.767
37-67-S	72,38	72,38	5000,03	-21,26	1.973
37-68-S	72,38	72,38	5000,94	-20,21	2.170
37-69-S	72,38	72,38	5001,49	-19,57	2.398
37-70-S	72,38	72,38	5002,38	-18,53	2.686
37-71-S	72,38	72,38	5003,84	-16,85	3.056
37-72-S	72,38	72,38	5005,53	-14,89	3.496
37-73-S	72,38	104,55	5027,33	-14,63	3.924
37-74-S	72,38	144,76	5040,85	-14,94	4.457
37-75-S	72,38	144,76	5039,50	-16,47	5.133
37-76-S	72,38	144,76	5036,47	-19,91	6.047
37-77-S	72,38	120,64	4663,90	-21,83	6.803
37-78-S	40,21	72,38	1811,16	37,26	3.077
37-79-S	40,21	72,38	1813,92	42,29	3.656
37-80-S	40,21	72,38	1786,24	-7,89	4.496
37-81-S	40,21	72,38	1785,66	-8,92	5.843
37-82-S	40,21	40,21	-1781,96	-0,68	7.628
37-83-S	40,21	40,21	-1781,98	-0,65	7.741
37-84-S	40,21	40,21	-1782,03	-0,55	7.938
37-85-S	40,21	40,21	-1782,08	-0,47	8.168
37-86-S	40,21	40,21	-1782,11	-0,42	8.430
37-87-S	40,21	40,21	-1782,12	-0,41	8.727
37-88-S	40,21	40,21	-1782,10	-0,43	9.083
37-89-S	40,21	40,21	-1782,11	-0,42	9.535
37-90-S	40,21	40,21	-1782,10	-0,44	10.061
37-91-S	40,21	40,21	-1782,07	-0,49	10.668
38-1-S	40,21	40,21	-1781,27	-1,20	10.345
38-2-S	40,21	40,21	-1781,70	-1,16	9.396
38-3-S	40,21	40,21	-1781,72	-1,12	9.053
38-4-S	40,21	40,21	-1781,73	-1,11	8.754
38-5-S	40,21	40,21	-1781,78	-1,01	8.432
38-6-S	40,21	40,21	-1781,88	-0,83	8.086
38-7-S	40,21	40,21	-1781,97	-0,67	7.768
38-8-S	40,21	40,21	-1782,02	-0,57	7.478
38-9-S	40,21	40,21	-1782,07	-0,50	7.225
38-10-S	40,21	40,21	-1782,08	-0,48	7.295
38-11-S	40,21	40,21	-1782,03	-0,56	7.599
38-12-S	40,21	72,38	-3171,01	-1,31	14.244
38-13-S	40,21	72,38	-3102,12	-130,66	14.156
38-14-S	40,21	72,38	-3109,28	-117,38	12.285
38-15-S	40,21	88,47	-4200,03	-161,39	14.497
38-16-S	72,38	136,72	-8406,80	-359,45	24.096
38-17-S	72,38	144,76	-9587,88	-372,59	22.530
38-18-S	72,38	144,76	-9622,59	-329,61	19.171
38-19-S	72,38	128,68	-8605,73	-263,04	14.974
38-20-S	72,38	88,47	-5973,96	-163,49	9.288
38-21-S	72,38	72,38	-4915,03	-120,10	6.922
38-22-S	72,38	72,38	-4926,92	-106,28	6.171
38-23-S	72,38	72,38	-4937,28	-94,25	5.454
38-24-S	72,38	72,38	-4945,48	-84,72	4.885
38-25-S	72,38	72,38	-4951,42	-77,82	4.450
38-26-S	72,38	72,38	-4956,93	-71,42	4.122
38-27-S	72,38	72,38	-4966,05	-60,82	3.875
38-28-S	72,38	104,55	-7138,55	-74,44	5.367

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
38-29-S	72,38	104,55	-7149,36	-61,71	5.195
38-30-S	72,38	112,59	-7697,71	-53,51	5.407
38-31-S	72,38	152,81	6885,02	-23,70	8.798
38-32-S	104,55	168,89	11232,23	-53,92	12.090
38-33-S	104,55	193,02	13841,50	-93,44	12.753
38-34-S	104,55	209,10	13837,81	-101,22	11.005
38-35-S	104,55	160,85	13791,39	-108,79	9.298
38-36-S	104,55	144,76	13768,99	-112,71	7.949
38-37-S	104,55	120,64	13737,20	-113,69	6.907
38-38-S	104,55	104,55	13713,27	-112,66	5.954
38-39-S	104,55	104,55	13714,42	-111,97	5.127
38-40-S	104,55	104,55	13716,55	-110,68	4.465
38-41-S	104,55	104,55	13718,02	-109,79	3.835
38-42-S	104,55	104,55	13741,30	-95,66	2.951
38-43-S	104,55	104,55	13761,94	-83,13	2.300
38-44-S	104,55	104,55	13772,77	-76,56	1.915
38-45-S	104,55	104,55	13772,95	-76,45	1.757
38-46-S	104,55	104,55	13770,51	-77,93	1.919
38-47-S	104,55	104,55	13757,38	-85,90	2.326
38-48-S	104,55	104,55	13733,19	-100,58	3.008
38-49-S	104,55	104,55	13711,24	-113,90	3.856
38-50-S	104,55	104,55	13711,62	-113,67	4.479
38-51-S	104,55	104,55	13458,70	-267,14	4.252
38-52-S	104,55	104,55	13459,34	-266,76	4.030
38-53-S	104,55	120,64	13459,75	-281,26	3.864
38-54-S	104,55	144,76	13451,82	-303,17	3.747
38-55-S	104,55	160,85	13428,14	-326,24	3.652
38-56-S	104,55	209,10	13420,83	-348,98	3.610
38-57-S	104,55	193,02	13385,20	-365,22	3.632
38-58-S	104,55	168,89	10968,92	-248,08	3.013
38-59-S	72,38	152,81	6746,62	-138,87	1.880
38-60-S	72,38	112,59	4976,81	-76,42	1.447
38-61-S	72,38	104,55	4974,69	-74,85	1.517
38-62-S	72,38	104,55	4976,19	-73,14	1.595
38-63-S	72,38	72,38	4957,38	-70,59	1.690
38-64-S	72,38	72,38	4959,69	-67,92	1.835
38-65-S	72,38	72,38	4962,65	-64,50	1.983
38-66-S	72,38	72,38	4966,60	-59,93	2.138
38-67-S	72,38	72,38	4970,92	-54,93	2.323
38-68-S	72,38	72,38	4973,33	-52,14	2.561
38-69-S	72,38	72,38	4975,61	-49,50	2.850
38-70-S	72,38	88,47	4989,57	-47,60	3.178
38-71-S	72,38	128,68	5008,09	-47,23	3.530
38-72-S	72,38	144,76	5011,13	-48,67	3.960
38-73-S	72,38	144,76	5007,91	-52,32	4.520
38-74-S	72,38	136,72	4646,55	-48,62	4.889
38-75-S	40,21	88,47	2012,06	26,19	2.436
38-76-S	40,21	72,38	1803,63	23,57	2.512
38-77-S	40,21	72,38	1805,49	26,95	2.938
38-78-S	40,21	72,38	1807,66	30,90	3.509
38-79-S	40,21	40,21	1772,88	-17,05	4.290
38-80-S	40,21	40,21	1771,03	-20,38	5.419
38-81-S	40,21	40,21	1769,90	-22,40	6.528
38-82-S	40,21	40,21	1770,42	-21,48	7.307
38-83-S	40,21	40,21	1771,19	-20,08	8.225
38-84-S	40,21	40,21	-1781,68	-1,20	8.383
38-85-S	40,21	40,21	-1781,69	-1,18	8.542
38-86-S	40,21	40,21	-1781,69	-1,18	8.821
38-87-S	40,21	40,21	-1781,65	-1,25	9.261
38-88-S	40,21	40,21	-1781,59	-1,35	9.808
38-89-S	32,17	32,17	-1426,42	-1,14	8.824
39-1-S	40,21	40,21	-1778,24	-3,48	13.845
39-2-S	40,21	40,21	-1780,18	-3,91	9.395
39-3-S	40,21	40,21	-1780,25	-3,79	9.049
39-4-S	40,21	40,21	-1780,26	-3,77	8.763
39-5-S	40,21	40,21	-1780,31	-3,68	8.459
39-6-S	40,21	40,21	-1780,38	-3,55	8.159
39-7-S	40,21	40,21	-1780,45	-3,42	7.898
39-8-S	40,21	40,21	-1780,47	-3,38	7.746
39-9-S	40,21	40,21	-1780,46	-3,41	7.675
39-10-S	40,21	40,21	-1780,39	-3,53	7.782
39-11-S	40,21	40,21	-1780,21	-3,85	8.228
39-12-S	40,21	40,21	-1756,22	-47,31	8.572
39-13-S	40,21	72,38	-3132,09	-75,13	12.937
39-14-S	40,21	72,38	-3135,66	-68,52	11.261
39-15-S	40,21	72,38	-3138,54	-63,17	10.080
39-16-S	40,21	104,55	-5308,60	-121,82	15.229

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
39-17-S	72,38	128,68	-7973,80	-181,75	20.043
39-18-S	72,38	144,76	-9730,97	-195,40	21.196
39-19-S	72,38	144,76	-9755,18	-165,42	18.670
39-20-S	72,38	120,64	-8184,99	-118,75	13.966
39-21-S	72,38	96,51	-6587,85	-83,12	10.242
39-22-S	72,38	72,38	-4970,59	-55,55	7.249
39-23-S	72,38	72,38	-4975,70	-49,61	6.889
39-24-S	72,38	72,38	-4980,24	-44,34	6.557
39-25-S	72,38	72,38	-4984,39	-39,52	6.197
39-26-S	72,38	72,38	-4988,79	-34,40	5.989
39-27-S	72,38	72,38	-4993,01	-29,50	5.839
39-28-S	72,38	72,38	-4997,41	-24,39	5.740
39-29-S	72,38	72,38	-5002,44	-18,55	5.733
39-30-S	72,38	72,38	-5008,29	-11,75	5.753
39-31-S	72,38	72,38	5001,17	-19,94	5.031
39-32-S	72,38	104,55	5021,28	-21,55	4.386
39-33-S	72,38	120,64	5942,17	-30,39	4.359
39-34-S	72,38	136,72	5947,37	-31,34	3.743
39-35-S	72,38	160,85	6864,57	-42,71	3.785
39-36-S	104,55	160,85	11189,40	-81,40	5.381
39-37-S	104,55	160,85	11186,03	-83,89	4.702
39-38-S	104,55	152,81	12465,35	-108,61	4.656
39-39-S	104,55	128,68	12430,85	-114,92	4.035
39-40-S	104,55	136,72	13720,83	-136,20	3.871
39-41-S	104,55	136,72	13705,08	-145,67	3.436
39-42-S	104,55	136,72	13698,62	-149,56	3.018
39-43-S	104,55	136,72	13696,83	-150,64	2.742
39-44-S	104,55	136,72	13697,79	-150,06	2.576
39-45-S	104,55	136,72	13697,45	-150,26	2.741
39-46-S	104,55	136,72	13700,05	-148,70	3.014
39-47-S	104,55	136,72	13706,21	-144,99	3.433
39-48-S	104,55	136,72	13720,88	-136,16	3.868
39-49-S	104,55	128,68	11872,80	-110,98	3.861
39-50-S	104,55	152,81	12104,59	-347,50	4.636
39-51-S	104,55	160,85	10904,24	-291,96	4.033
39-52-S	104,55	152,81	10880,23	-305,50	3.888
39-53-S	72,38	152,81	6703,54	-174,73	2.344
39-54-S	72,38	128,68	5831,81	-139,90	2.016
39-55-S	72,38	112,59	5818,63	-146,18	1.987
39-56-S	72,38	104,55	4944,64	-109,23	1.691
39-57-S	72,38	72,38	4923,40	-109,90	1.714
39-58-S	72,38	72,38	4923,29	-110,03	1.741
39-59-S	72,38	72,38	4923,97	-109,24	1.783
39-60-S	72,38	72,38	4925,95	-106,96	1.861
39-61-S	72,38	72,38	4929,56	-102,78	1.941
39-62-S	72,38	72,38	4934,47	-97,10	2.029
39-63-S	72,38	72,38	4938,53	-92,40	2.141
39-64-S	72,38	72,38	4940,31	-90,35	2.294
39-65-S	72,38	72,38	4942,15	-88,22	2.458
39-66-S	72,38	72,38	4944,05	-86,02	2.633
39-67-S	72,38	96,51	4962,65	-83,99	2.838
39-68-S	72,38	120,64	4972,98	-84,22	3.079
39-69-S	72,38	144,76	4978,29	-85,96	3.388
39-70-S	72,38	144,76	4976,55	-87,93	3.758
39-71-S	72,38	128,68	4621,28	-77,05	3.912
39-72-S	40,21	104,55	2179,60	-30,94	2.068
39-73-S	40,21	72,38	1796,90	11,33	1.881
39-74-S	40,21	72,38	1797,50	12,42	2.110
39-75-S	40,21	72,38	1798,24	13,76	2.404
39-76-S	40,21	40,21	1790,64	15,41	2.770
39-77-S	40,21	40,21	1791,76	17,50	3.239
39-78-S	40,21	40,21	1792,78	19,39	3.750
39-79-S	40,21	40,21	1792,81	19,45	4.182
39-80-S	40,21	40,21	1791,85	17,66	4.549
39-81-S	40,21	40,21	1790,60	15,34	4.985
39-82-S	40,21	40,21	1788,99	12,35	5.526
39-83-S	40,21	40,21	1786,95	8,56	6.208
39-84-S	40,21	40,21	1785,66	6,16	6.776
39-85-S	40,21	40,21	1784,71	4,39	7.290
39-86-S	40,21	40,21	1783,44	2,05	7.855
39-87-S	24,13	24,13	1070,61	0,84	7.746
40-1-S	40,21	40,21	-1774,96	-8,10	18.877
40-2-S	40,21	40,21	-1777,17	-9,36	9.652
40-3-S	40,21	40,21	-1777,22	-9,28	9.309
40-4-S	40,21	40,21	-1777,17	-9,36	9.031
40-5-S	40,21	40,21	-1777,08	-9,53	8.815
40-6-S	40,21	40,21	-1777,10	-9,49	8.669

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
40-7-S	40,21	40,21	-1777,20	-9,31	8.537
40-8-S	40,21	40,21	-1777,24	-9,24	8.429
40-9-S	40,21	40,21	-1777,25	-9,22	8.325
40-10-S	40,21	40,21	-1777,15	-9,39	8.300
40-11-S	40,21	40,21	-1776,63	-10,35	8.761
40-12-S	40,21	40,21	-1770,84	-20,84	9.294
40-13-S	40,21	40,21	-1772,36	-18,07	8.222
40-14-S	40,21	56,30	-2469,13	-22,05	10.240
40-15-S	40,21	56,30	-2470,52	-19,51	9.249
40-16-S	40,21	56,30	-2471,68	-17,39	8.422
40-17-S	40,21	64,34	-3450,97	-28,15	10.573
40-18-S	56,30	80,42	-4717,56	-33,75	12.979
40-19-S	56,30	104,55	-7130,15	-41,87	18.378
40-20-S	56,30	112,59	-7674,49	-32,51	18.643
40-21-S	56,30	104,55	-7148,69	-19,76	16.341
40-22-S	56,30	88,47	-6080,03	-8,83	13.076
40-23-S	56,30	64,34	-4452,78	-1,46	9.016
40-24-S	56,30	56,30	-3907,57	2,95	7.612
40-25-S	56,30	56,30	-3911,52	7,70	7.539
40-26-S	56,30	56,30	3874,21	-35,77	6.399
40-27-S	56,30	56,30	3877,27	-32,22	5.406
40-28-S	56,30	56,30	3879,77	-29,33	4.661
40-29-S	56,30	56,30	3881,72	-27,08	4.046
40-30-S	56,30	56,30	3883,31	-25,24	3.484
40-31-S	56,30	56,30	3884,27	-24,12	2.978
40-32-S	56,30	56,30	3884,91	-23,39	2.563
40-33-S	56,30	56,30	3885,19	-23,07	2.255
40-34-S	56,30	56,30	3884,85	-23,46	2.009
40-35-S	56,30	56,30	3883,94	-24,51	1.798
40-36-S	56,30	56,30	3883,04	-25,55	1.635
40-37-S	56,30	56,30	3882,12	-26,61	1.504
40-38-S	56,30	56,30	3880,88	-28,05	1.363
40-39-S	56,30	56,30	3879,67	-29,45	1.243
40-40-S	56,30	56,30	3878,88	-30,37	1.162
40-41-S	56,30	56,30	3878,39	-30,93	1.111
40-42-S	56,30	56,30	3878,23	-31,12	1.091
40-43-S	56,30	56,30	3878,37	-30,95	1.099
40-44-S	56,30	56,30	3878,70	-30,57	1.120
40-45-S	56,30	56,30	3879,27	-29,91	1.163
40-46-S	56,30	56,30	3880,20	-28,84	1.247
40-47-S	56,30	56,30	3881,60	-27,22	1.384
40-48-S	56,30	56,30	3882,66	-25,98	1.516
40-49-S	56,30	56,30	3883,64	-24,86	1.655
40-50-S	56,30	56,30	3823,88	-94,01	1.734
40-51-S	56,30	56,30	3822,12	-96,04	1.687
40-52-S	56,30	56,30	3820,76	-97,62	1.668
40-53-S	56,30	56,30	3819,92	-98,60	1.649
40-54-S	56,30	56,30	3819,71	-98,84	1.631
40-55-S	56,30	56,30	3820,75	-97,63	1.650
40-56-S	56,30	56,30	3821,82	-96,39	1.668
40-57-S	56,30	56,30	3822,82	-95,24	1.687
40-58-S	56,30	56,30	3824,12	-93,73	1.748
40-59-S	56,30	56,30	3825,55	-92,08	1.817
40-60-S	56,30	56,30	3826,57	-90,90	1.887
40-61-S	56,30	56,30	3827,11	-90,28	1.955
40-62-S	56,30	64,34	3832,43	-90,53	2.045
40-63-S	56,30	88,47	3843,22	-91,46	2.172
40-64-S	56,30	104,55	3847,53	-92,20	2.313
40-65-S	56,30	112,59	3848,82	-92,91	2.471
40-66-S	56,30	104,55	3846,26	-93,64	2.649
40-67-S	56,30	80,42	3301,05	-69,05	2.446
40-68-S	40,21	64,34	2165,89	-42,53	1.753
40-69-S	40,21	56,30	1789,18	2,87	1.561
40-70-S	40,21	56,30	1789,47	3,40	1.705
40-71-S	40,21	56,30	1789,82	4,05	1.876
40-72-S	40,21	40,21	1784,93	4,82	2.073
40-73-S	40,21	40,21	1785,30	5,50	2.316
40-74-S	40,21	40,21	1785,42	5,71	2.601
40-75-S	40,21	40,21	1785,20	5,30	2.877
40-76-S	40,21	40,21	1784,64	4,26	3.135
40-77-S	40,21	40,21	1783,91	2,92	3.424
40-78-S	40,21	40,21	1783,04	1,31	3.759
40-79-S	40,21	40,21	1781,85	-0,88	4.087
40-80-S	40,21	40,21	1780,69	-2,97	4.392
40-81-S	40,21	40,21	1779,79	-4,59	4.723
40-82-S	40,21	40,21	1779,12	-5,80	5.076
40-83-S	40,21	40,21	1778,18	-7,50	5.449

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
40-84-S	16,08	16,08	712,37	-2,82	4.657
41-1-S	32,17	32,17	-1416,56	-12,63	19.514
41-2-S	32,17	32,17	-1417,88	-14,93	9.895
41-3-S	40,21	40,21	-1771,31	-19,98	10.188
41-4-S	40,21	40,21	-1770,99	-20,56	10.030
41-5-S	40,21	40,21	-1770,57	-21,33	9.936
41-6-S	40,21	40,21	-1770,25	-21,89	9.825
41-7-S	40,21	40,21	-1770,02	-22,32	9.708
41-8-S	40,21	40,21	-1769,46	-23,33	9.825
41-9-S	40,21	40,21	-1768,64	-24,81	10.087
41-10-S	40,21	40,21	-1767,82	-26,31	10.336
41-11-S	40,21	40,21	-1766,72	-28,29	10.738
41-12-S	40,21	40,21	-1764,81	-31,75	11.614
41-13-S	40,21	40,21	-1788,66	11,84	11.197
41-14-S	40,21	40,21	-1788,27	11,10	9.725
41-15-S	40,21	40,21	-1788,63	11,77	9.054
41-16-S	40,21	56,30	-2490,49	17,67	11.991
41-17-S	40,21	56,30	-2491,06	18,75	11.376
41-18-S	40,21	56,30	1960,97	-47,06	10.693
41-19-S	40,21	72,38	2165,09	-46,14	9.066
41-20-S	56,30	80,42	3304,08	-64,99	11.129
41-21-S	56,30	96,51	3588,46	-65,78	9.639
41-22-S	56,30	112,59	3870,88	-67,83	8.414
41-23-S	56,30	96,51	3872,24	-61,41	7.080
41-24-S	56,30	88,47	3873,55	-56,78	6.113
41-25-S	56,30	72,38	3869,42	-53,29	5.381
41-26-S	56,30	56,30	3862,10	-49,78	4.690
41-27-S	56,30	56,30	3865,11	-46,30	4.006
41-28-S	56,30	56,30	3867,43	-43,62	3.496
41-29-S	56,30	56,30	3869,27	-41,48	3.100
41-30-S	56,30	56,30	3870,75	-39,77	2.786
41-31-S	56,30	56,30	3871,88	-38,47	2.503
41-32-S	56,30	56,30	3872,09	-38,22	2.272
41-33-S	56,30	56,30	3872,30	-37,97	2.082
41-34-S	56,30	56,30	3872,57	-37,66	1.925
41-35-S	56,30	56,30	3872,86	-37,33	1.791
41-36-S	56,30	56,30	3872,80	-37,40	1.686
41-37-S	56,30	56,30	3872,27	-38,02	1.609
41-38-S	56,30	56,30	3871,98	-38,35	1.543
41-39-S	56,30	56,30	3871,94	-38,40	1.489
41-40-S	56,30	56,30	3872,10	-38,21	1.448
41-41-S	56,30	56,30	3872,43	-37,83	1.464
41-42-S	56,30	56,30	3872,82	-37,38	1.523
41-43-S	56,30	56,30	3873,14	-37,01	1.580
41-44-S	56,30	56,30	3873,38	-36,73	1.635
41-45-S	56,30	56,30	3873,53	-36,56	1.688
41-46-S	56,30	56,30	3873,44	-36,66	1.784
41-47-S	56,30	56,30	3873,07	-37,08	1.944
41-48-S	56,30	56,30	3872,64	-37,59	2.121
41-49-S	56,30	56,30	3819,06	-99,59	2.092
41-50-S	56,30	56,30	3818,19	-100,60	2.065
41-51-S	56,30	56,30	3817,39	-101,52	2.034
41-52-S	56,30	56,30	3816,77	-102,24	2.028
41-53-S	56,30	56,30	3816,23	-102,87	2.051
41-54-S	56,30	56,30	3815,57	-103,63	2.072
41-55-S	56,30	56,30	3814,82	-104,50	2.091
41-56-S	56,30	72,38	3823,84	-105,67	2.137
41-57-S	56,30	88,47	3829,56	-107,08	2.215
41-58-S	56,30	96,51	3831,01	-108,45	2.297
41-59-S	56,30	112,59	3833,88	-109,91	2.385
41-60-S	56,30	96,51	3495,66	-94,35	2.257
41-61-S	56,30	80,42	3153,77	-79,69	2.134
41-62-S	40,21	72,38	2096,27	-49,30	1.508
41-63-S	40,21	56,30	1898,44	-2,95	1.430
41-64-S	40,21	56,30	1786,25	-2,42	1.424
41-65-S	40,21	56,30	1786,39	-2,17	1.509
41-66-S	40,21	40,21	1781,28	-1,91	1.600
41-67-S	40,21	40,21	1781,29	-1,88	1.738
41-68-S	40,21	40,21	1781,31	-1,86	1.901
41-69-S	40,21	40,21	1781,25	-1,97	2.071
41-70-S	40,21	40,21	1781,09	-2,25	2.243
41-71-S	40,21	40,21	1780,81	-2,76	2.409
41-72-S	40,21	40,21	1780,35	-3,59	2.569
41-73-S	40,21	40,21	1779,65	-4,84	2.746
41-74-S	40,21	40,21	1778,79	-6,39	2.960
41-75-S	40,21	40,21	1777,78	-8,21	3.212
41-76-S	40,21	40,21	1776,88	-9,83	3.464

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
41-77-S	40,21	40,21	1776,35	-10,80	3.680
41-78-S	40,21	40,21	1775,77	-11,83	3.910
41-79-S	32,17	32,17	1420,54	-10,06	4.039
41-80-S	16,08	16,08	710,27	-5,02	4.413
42-1-S	24,13	24,13	-1057,04	-19,31	20.808
42-2-S	24,13	24,13	-1058,12	-21,47	10.445
42-3-S	32,17	32,17	-1409,92	-31,33	9.641
42-4-S	40,21	40,21	-1759,82	-40,79	11.586
42-5-S	40,21	40,21	-1758,85	-42,54	11.528
42-6-S	40,21	40,21	-1757,88	-44,31	11.545
42-7-S	40,21	40,21	-1756,62	-46,58	11.743
42-8-S	40,21	40,21	-1755,08	-49,37	12.036
42-9-S	40,21	40,21	-1753,37	-52,47	12.358
42-10-S	40,21	40,21	-1751,45	-55,94	12.689
42-11-S	40,21	40,21	1752,22	-54,27	11.755
42-12-S	40,21	40,21	1754,49	-50,17	10.345
42-13-S	40,21	40,21	1756,41	-46,72	9.169
42-14-S	40,21	40,21	1758,04	-43,77	8.178
42-15-S	40,21	40,21	1759,46	-41,23	7.335
42-16-S	40,21	40,21	1760,73	-38,92	6.600
42-17-S	40,21	40,21	1762,40	-35,92	5.782
42-18-S	40,21	40,21	1764,66	-31,84	4.783
42-19-S	40,21	56,30	1771,67	-28,48	4.004
42-20-S	40,21	56,30	1773,05	-26,02	3.439
42-21-S	40,21	64,34	1973,88	-29,41	3.347
42-22-S	40,21	72,38	2174,02	-33,16	3.272
42-23-S	56,30	72,38	3310,62	-51,81	4.453
42-24-S	56,30	80,42	3316,60	-48,26	3.872
42-25-S	56,30	88,47	3595,81	-53,66	3.723
42-26-S	56,30	88,47	3597,66	-51,37	3.366
42-27-S	56,30	96,51	3875,58	-57,60	3.309
42-28-S	56,30	88,47	3874,52	-55,68	3.041
42-29-S	56,30	80,42	3872,55	-54,19	2.800
42-30-S	56,30	72,38	3869,64	-53,04	2.590
42-31-S	56,30	56,30	3860,15	-52,04	2.420
42-32-S	56,30	56,30	3860,74	-51,36	2.290
42-33-S	56,30	56,30	3861,23	-50,79	2.184
42-34-S	56,30	56,30	3861,55	-50,42	2.106
42-35-S	56,30	56,30	3861,79	-50,14	2.044
42-36-S	56,30	56,30	3862,02	-49,88	1.987
42-37-S	56,30	56,30	3862,18	-49,69	1.942
42-38-S	56,30	56,30	3862,24	-49,63	1.920
42-39-S	56,30	56,30	3862,16	-49,71	1.929
42-40-S	56,30	56,30	3861,96	-49,95	1.976
42-41-S	56,30	56,30	3861,67	-50,28	2.051
42-42-S	56,30	56,30	3861,36	-50,63	2.133
42-43-S	56,30	56,30	3861,04	-51,01	2.220
42-44-S	56,30	56,30	3860,67	-51,44	2.312
42-45-S	56,30	56,30	3860,02	-52,18	2.433
42-46-S	56,30	72,38	3822,81	-106,85	2.556
42-47-S	56,30	80,42	3824,73	-108,98	2.522
42-48-S	56,30	88,47	3826,18	-110,94	2.492
42-49-S	56,30	96,51	3826,77	-113,29	2.508
42-50-S	56,30	88,47	3557,93	-100,29	2.358
42-51-S	56,30	88,47	3556,38	-102,20	2.379
42-52-S	56,30	80,42	3286,12	-89,01	2.217
42-53-S	56,30	72,38	3281,90	-90,31	2.230
42-54-S	40,21	72,38	2158,73	-55,39	1.512
42-55-S	40,21	64,34	1987,84	-7,02	1.419
42-56-S	40,21	56,30	1784,38	-5,77	1.314
42-57-S	40,21	56,30	1784,36	-5,80	1.352
42-58-S	40,21	40,21	1779,11	-5,81	1.388
42-59-S	40,21	40,21	1779,05	-5,94	1.453
42-60-S	40,21	40,21	1778,95	-6,10	1.533
42-61-S	40,21	40,21	1778,85	-6,29	1.621
42-62-S	40,21	40,21	1778,72	-6,52	1.711
42-63-S	40,21	40,21	1778,58	-6,77	1.804
42-64-S	40,21	40,21	1778,40	-7,10	1.899
42-65-S	40,21	40,21	1778,02	-7,79	2.013
42-66-S	40,21	40,21	1777,52	-8,69	2.132
42-67-S	40,21	40,21	1776,94	-9,73	2.268
42-68-S	40,21	40,21	1776,29	-10,90	2.421
42-69-S	40,21	40,21	1775,67	-12,02	2.577
42-70-S	40,21	40,21	1775,10	-13,04	2.720
42-71-S	40,21	40,21	1774,56	-14,01	2.868
42-72-S	40,21	40,21	1774,13	-14,80	3.021
42-73-S	32,17	32,17	1420,30	-12,46	2.633

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
42-74-S	24,13	24,13	1064,73	-9,45	3.022
42-75-S	16,08	16,08	708,94	-6,34	4.291
43-1-S	16,08	16,08	-698,67	-24,21	19.841
43-2-S	16,08	16,08	-699,02	-27,31	10.302
43-3-S	32,17	32,17	-1392,00	-61,18	14.865
43-4-S	40,21	40,21	1740,80	-74,84	13.301
43-5-S	40,21	40,21	1744,54	-68,09	11.602
43-6-S	40,21	40,21	1747,62	-62,54	10.241
43-7-S	40,21	40,21	1749,52	-59,12	9.305
43-8-S	40,21	40,21	1750,61	-57,16	8.632
43-9-S	40,21	40,21	1752,25	-54,21	7.894
43-10-S	40,21	40,21	1754,26	-50,58	7.134
43-11-S	40,21	40,21	1756,10	-47,26	6.454
43-12-S	40,21	40,21	1757,89	-44,04	5.807
43-13-S	40,21	40,21	1759,62	-40,93	5.195
43-14-S	40,21	40,21	1760,97	-38,50	4.666
43-15-S	40,21	40,21	1762,04	-36,57	4.229
43-16-S	40,21	40,21	1763,05	-34,75	3.838
43-17-S	40,21	40,21	1764,14	-32,79	3.463
43-18-S	40,21	40,21	1765,19	-30,90	3.123
43-19-S	40,21	40,21	1766,14	-29,19	2.825
43-20-S	40,21	40,21	1767,07	-27,51	2.541
43-21-S	40,21	40,21	1768,01	-25,81	2.260
43-22-S	40,21	40,21	1768,73	-24,51	2.044
43-23-S	40,21	40,21	1769,29	-23,50	1.873
43-24-S	40,21	40,21	1769,75	-22,69	1.735
43-25-S	40,21	40,21	1967,66	-27,04	1.801
43-26-S	40,21	48,25	1971,32	-26,39	1.694
43-27-S	40,21	48,25	1971,64	-25,87	1.611
43-28-S	40,21	48,25	1971,93	-25,41	1.536
43-29-S	40,21	48,25	2169,48	-30,11	1.612
43-30-S	40,21	56,30	2172,56	-29,65	1.544
43-31-S	40,21	48,25	2170,09	-29,22	1.483
43-32-S	40,21	48,25	2170,28	-28,93	1.438
43-33-S	40,21	48,25	2170,32	-28,88	1.423
43-34-S	40,21	48,25	2170,29	-28,92	1.424
43-35-S	40,21	40,21	2166,72	-28,92	1.423
43-36-S	40,21	48,25	2170,23	-29,01	1.426
43-37-S	40,21	48,25	2170,20	-29,06	1.428
43-38-S	40,21	48,25	2170,12	-29,17	1.444
43-39-S	40,21	48,25	2169,93	-29,45	1.492
43-40-S	40,21	48,25	2169,63	-29,88	1.556
43-41-S	40,21	48,25	2169,30	-30,37	1.629
43-42-S	40,21	48,25	1971,81	-25,61	1.553
43-43-S	40,21	48,25	1983,89	-6,12	1.558
43-44-S	40,21	48,25	1983,53	-6,71	1.547
43-45-S	40,21	40,21	1979,90	-7,21	1.551
43-46-S	40,21	40,21	1778,89	-6,22	1.400
43-47-S	40,21	40,21	1778,71	-6,54	1.407
43-48-S	40,21	40,21	1778,56	-6,81	1.412
43-49-S	40,21	40,21	1778,41	-7,07	1.418
43-50-S	40,21	40,21	1778,25	-7,37	1.447
43-51-S	40,21	40,21	1778,06	-7,70	1.489
43-52-S	40,21	40,21	1777,87	-8,06	1.531
43-53-S	40,21	40,21	1777,66	-8,44	1.573
43-54-S	40,21	40,21	1777,46	-8,80	1.614
43-55-S	40,21	40,21	1777,26	-9,15	1.659
43-56-S	40,21	40,21	1776,99	-9,64	1.727
43-57-S	40,21	40,21	1776,66	-10,22	1.801
43-58-S	40,21	40,21	1776,31	-10,87	1.872
43-59-S	40,21	40,21	1775,93	-11,55	1.948
43-60-S	40,21	40,21	1775,53	-12,27	2.029
43-61-S	40,21	40,21	1775,10	-13,05	2.116
43-62-S	40,21	40,21	1774,61	-13,92	2.217
43-63-S	40,21	40,21	1774,12	-14,81	2.322
43-64-S	40,21	40,21	1773,62	-15,70	2.434
43-65-S	40,21	40,21	1773,17	-16,51	2.547
43-66-S	40,21	40,21	1772,79	-17,21	2.656
43-67-S	32,17	32,17	1418,02	-13,99	2.804
43-68-S	16,08	16,08	710,15	-7,12	2.107
43-69-S	8,04	8,04	355,04	-3,62	2.204
44-1-S	16,08	16,08	697,16	-26,40	17.182
44-2-S	16,08	16,08	699,56	-24,67	7.761
44-3-S	24,13	24,13	1048,98	-37,14	7.731
44-4-S	32,17	32,17	1398,41	-49,62	7.505
44-5-S	40,21	40,21	1747,93	-61,91	7.202
44-6-S	40,21	40,21	1749,22	-59,67	6.639

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
44-7-S	40,21	40,21	1752,02	-54,62	5.833
44-8-S	40,21	40,21	1754,31	-50,50	5.189
44-9-S	40,21	40,21	1756,22	-47,06	4.664
44-10-S	40,21	40,21	1757,54	-44,67	4.274
44-11-S	40,21	40,21	1758,36	-43,19	3.990
44-12-S	40,21	40,21	1759,33	-41,46	3.707
44-13-S	40,21	40,21	1760,33	-39,65	3.438
44-14-S	40,21	40,21	1761,21	-38,07	3.204
44-15-S	40,21	40,21	1762,19	-36,30	2.962
44-16-S	40,21	40,21	1763,19	-34,49	2.726
44-17-S	40,21	40,21	1763,89	-33,23	2.545
44-18-S	40,21	40,21	1764,52	-32,09	2.384
44-19-S	40,21	40,21	1765,16	-30,96	2.230
44-20-S	40,21	40,21	1765,75	-29,88	2.089
44-21-S	40,21	40,21	1766,30	-28,89	1.960
44-22-S	40,21	40,21	1766,76	-28,06	1.851
44-23-S	40,21	40,21	1767,18	-27,31	1.756
44-24-S	40,21	40,21	1767,49	-26,75	1.685
44-25-S	40,21	40,21	1767,73	-26,31	1.628
44-26-S	40,21	40,21	1767,92	-25,97	1.583
44-27-S	40,21	40,21	1768,10	-25,66	1.542
44-28-S	40,21	40,21	1768,26	-25,36	1.503
44-29-S	40,21	40,21	1768,41	-25,10	1.467
44-30-S	40,21	40,21	1768,46	-25,01	1.453
44-31-S	40,21	40,21	1768,42	-25,08	1.460
44-32-S	40,21	40,21	1768,35	-25,19	1.473
44-33-S	40,21	40,21	1768,27	-25,35	1.494
44-34-S	40,21	40,21	1768,18	-25,52	1.517
44-35-S	40,21	40,21	1768,08	-25,69	1.540
44-36-S	40,21	40,21	1767,97	-25,90	1.568
44-37-S	40,21	40,21	1767,75	-26,28	1.619
44-38-S	40,21	40,21	1779,43	-5,24	1.649
44-39-S	40,21	40,21	1779,11	-5,81	1.650
44-40-S	40,21	40,21	1778,79	-6,39	1.657
44-41-S	40,21	40,21	1778,47	-6,96	1.663
44-42-S	40,21	40,21	1778,15	-7,54	1.668
44-43-S	40,21	40,21	1777,83	-8,13	1.671
44-44-S	40,21	40,21	1777,50	-8,73	1.680
44-45-S	40,21	40,21	1777,16	-9,33	1.705
44-46-S	40,21	40,21	1776,83	-9,93	1.739
44-47-S	40,21	40,21	1776,50	-10,52	1.771
44-48-S	40,21	40,21	1776,17	-11,12	1.803
44-49-S	40,21	40,21	1775,83	-11,72	1.837
44-50-S	40,21	40,21	1775,49	-12,34	1.877
44-51-S	40,21	40,21	1775,08	-13,08	1.934
44-52-S	40,21	40,21	1774,63	-13,89	1.998
44-53-S	40,21	40,21	1774,18	-14,71	2.064
44-54-S	40,21	40,21	1773,72	-15,53	2.137
44-55-S	40,21	40,21	1773,33	-16,23	2.203
44-56-S	40,21	40,21	1773,01	-16,80	2.261
44-57-S	40,21	40,21	1772,65	-17,39	2.334
44-58-S	32,17	32,17	1418,06	-14,22	2.343
44-59-S	24,13	24,13	1063,55	-10,90	2.332
44-60-S	16,08	16,08	709,13	-7,43	2.272
44-61-S	8,04	8,04	354,57	-3,79	2.301
45-1-S	8,04	8,04	349,70	-11,66	7.234
45-2-S	8,04	8,04	351,16	-11,08	3.407
45-3-S	16,08	16,08	701,72	-21,03	4.178
45-4-S	24,13	24,13	1052,77	-30,09	4.325
45-5-S	24,13	24,13	1053,89	-29,83	3.414
45-6-S	32,17	32,17	1404,10	-39,94	3.783
45-7-S	32,17	32,17	1404,99	-40,01	3.203
45-8-S	40,21	40,21	1754,78	-49,64	3.729
45-9-S	40,21	40,21	1756,37	-46,79	3.408
45-10-S	40,21	40,21	1757,86	-44,09	3.117
45-11-S	40,21	40,21	1759,09	-41,88	2.878
45-12-S	40,21	40,21	1760,09	-40,09	2.684
45-13-S	40,21	40,21	1760,42	-39,49	2.580
45-14-S	40,21	40,21	1760,62	-39,12	2.500
45-15-S	40,21	40,21	1760,83	-38,75	2.425
45-16-S	40,21	40,21	1761,09	-38,28	2.349
45-17-S	40,21	40,21	1761,68	-37,22	2.242
45-18-S	40,21	40,21	1762,41	-35,89	2.125
45-19-S	40,21	40,21	1763,05	-34,76	2.024
45-20-S	40,21	40,21	1763,47	-33,99	1.952
45-21-S	40,21	40,21	1763,68	-33,61	1.909
45-22-S	40,21	40,21	1763,82	-33,37	1.878

Is	Afi	Afs	Mu	Nu	FS
	[cmq]	[cmq]	[kNm]	[kN]	
45-23-S	40,21	40,21	1763,88	-33,26	1.857
45-24-S	40,21	40,21	1763,87	-33,28	1.846
45-25-S	40,21	40,21	1763,91	-33,20	1.835
45-26-S	40,21	40,21	1764,11	-32,84	1.814
45-27-S	40,21	40,21	1764,20	-32,68	1.809
45-28-S	40,21	40,21	1764,17	-32,74	1.820
45-29-S	40,21	40,21	1764,01	-33,02	1.848
45-30-S	40,21	40,21	1763,75	-33,48	1.890
45-31-S	40,21	40,21	1779,82	-4,54	1.930
45-32-S	40,21	40,21	1779,32	-5,44	1.931
45-33-S	40,21	40,21	1778,84	-6,30	1.929
45-34-S	40,21	40,21	1778,39	-7,11	1.921
45-35-S	40,21	40,21	1777,97	-7,87	1.912
45-36-S	40,21	40,21	1777,57	-8,60	1.904
45-37-S	40,21	40,21	1777,18	-9,29	1.901
45-38-S	40,21	40,21	1776,75	-10,06	1.921
45-39-S	40,21	40,21	1776,29	-10,89	1.954
45-40-S	40,21	40,21	1775,82	-11,75	1.987
45-41-S	40,21	40,21	1775,37	-12,56	2.022
45-42-S	40,21	40,21	1774,96	-13,29	2.052
45-43-S	40,21	40,21	1774,60	-13,94	2.073
45-44-S	40,21	40,21	1774,27	-14,53	2.088
45-45-S	32,17	32,17	1420,47	-12,14	1.743
45-46-S	32,17	32,17	1419,29	-12,58	2.000
45-47-S	24,13	24,13	1065,02	-9,79	1.766
45-48-S	24,13	24,13	1063,84	-10,15	2.170
45-49-S	16,08	16,08	709,53	-6,98	1.967
45-50-S	8,04	8,04	355,32	-3,61	1.497
45-51-S	8,04	8,04	354,11	-3,72	2.950
46-1-S	8,04	8,04	350,35	-10,04	6.072
46-2-S	8,04	8,04	351,14	-9,68	3.200
46-3-S	8,04	8,04	351,97	-9,42	2.125
46-4-S	16,08	16,08	702,65	-18,28	3.091
46-5-S	16,08	16,08	703,59	-17,82	2.386
46-6-S	16,08	16,08	704,13	-17,86	2.023
46-7-S	24,13	24,13	1054,50	-26,90	2.677
46-8-S	24,13	24,13	1054,98	-26,90	2.379
46-9-S	24,13	24,13	1055,49	-26,84	2.130
46-10-S	32,17	32,17	1406,40	-34,85	2.513
46-11-S	32,17	32,17	1407,29	-33,76	2.290
46-12-S	32,17	32,17	1407,96	-33,07	2.120
46-13-S	32,17	32,17	1408,47	-32,67	1.986
46-14-S	32,17	32,17	1408,79	-32,60	1.886
46-15-S	32,17	32,17	1408,64	-33,19	1.862
46-16-S	32,17	32,17	1408,48	-33,65	1.853
46-17-S	40,21	40,21	1758,71	-42,22	2.284
46-18-S	40,21	40,21	1758,92	-42,01	2.237
46-19-S	40,21	40,21	1759,44	-41,25	2.167
46-20-S	40,21	40,21	1759,79	-40,45	2.153
46-21-S	40,21	40,21	1759,87	-40,14	2.170
46-22-S	32,17	32,17	1409,25	-32,27	1.776
46-23-S	32,17	32,17	1425,24	-3,30	1.791
46-24-S	32,17	32,17	1424,63	-4,09	1.837
46-25-S	32,17	32,17	1423,92	-4,84	1.920
46-26-S	32,17	32,17	1423,24	-5,55	2.012
46-27-S	32,17	32,17	1422,58	-6,23	2.102
46-28-S	32,17	32,17	1421,93	-6,87	2.181
46-29-S	24,13	24,13	1067,28	-5,62	1.747
46-30-S	24,13	24,13	1066,53	-6,10	1.895
46-31-S	24,13	24,13	1065,78	-6,56	2.073
46-32-S	16,08	16,08	711,44	-4,70	1.540
46-33-S	16,08	16,08	710,70	-5,02	1.793
46-34-S	16,08	16,08	709,85	-5,30	2.237
46-35-S	8,04	8,04	355,64	-2,81	1.479
46-36-S	8,04	8,04	354,88	-2,95	2.138
46-37-S	8,04	8,04	354,21	-3,09	3.829

Verifiche geotecniche

Carico limite

Simbologia adottata

Ic	Indice combinazione
N	Carico verticale trasmesso al terreno, espresso in [kN]
Np	Carico verticale trasmesso ai pali, espresso in [kN]

Pu
Pd
FS

Portanza ultima, espressa in [kN]
Portanza di progetto, espressa in [kN]
Fattore di sicurezza a carico limite (Pd/N). Tra parentesi viene riportato l'indice della combinazione con fattore di sicurezza minimo.

Ic	N [kN]	Np [kN]	Pu [kN]	Pd [kN]	FS
1	30686,33	0,00	706893,41	307344,96	10.016 (1)

Scorrimento e ribaltamento

Simbologia adottata

n° Indice plinto
T Carico orizzontale trasferito al terreno, espresso in [kN]
Tp Carico orizzontale trasferito ai pali, espresso in [kN]
Ru Resistenza ultima allo scorrimento, espressa in [kN]
Rd Resistenza di progetto allo scorrimento, espressa in [kN]
FS Fattore di sicurezza allo scorrimento (Rd/T). Tra parentesi viene riportato l'indice della combinazione con fattore di sicurezza minimo.

n°	T [kN]	Tp [kN]	Ru [kN]	Rd [kN]	FS
1	1364,00	0,00	54010,32	49100,29	35.997 (3)

Armature

Direzione principale armature 0,00 [°]
Direzione secondaria armature -90,00 [°]
Numero tratti complessivi 46
Ampiezza singolo tratto 1,00 [m]
Distanza fra le sezioni di calcolo del singolo tratto 0,25 [m]

Maglia superiore (5 φ 32) x (5 φ 32)
Maglia inferiore (5 φ 32) x (5 φ 32)

n°	Gruppo	Tipo	Lembo	Dir	nf φ [mm]	L [m]
6	F	Lungo	Superiore	X	2 φ32	2,14
7	G	Lungo	Superiore	X	2 φ32	2,14
17	Q	Lungo	Superiore	X	2 φ32	2,21
18	R	Lungo	Superiore	X	2 φ32	2,21
44	AR	Lungo	Superiore	X	2 φ32	4,64
45	AS	Lungo	Superiore	X	2 φ32	7,88
46	AT	Lungo	Superiore	X	2 φ32	4,64
50	AX	Lungo	Superiore	X	2 φ32	4,17
51	AY	Lungo	Superiore	X	2 φ32	4,17
52	AZ	Lungo	Superiore	X	2 φ32	8,81
59	BG	Lungo	Superiore	X	2 φ32	2,16
60	BH	Lungo	Superiore	X	2 φ32	2,16
67	BO	Lungo	Superiore	X	2 φ32	11,46
68	BP	Lungo	Superiore	X	2 φ32	4,22
69	BQ	Lungo	Superiore	X	2 φ32	4,22
73	BU	Lungo	Superiore	X	2 φ32	3,93
74	BV	Lungo	Superiore	X	2 φ32	2,78
75	BW	Lungo	Superiore	X	2 φ32	11,17
76	BX	Lungo	Superiore	X	2 φ32	3,93
93	CO	Lungo	Superiore	X	2 φ32	3,57
94	CP	Lungo	Superiore	X	2 φ32	12,00
95	CQ	Lungo	Superiore	X	2 φ32	4,11
96	CR	Lungo	Superiore	X	2 φ32	4,11
101	CW	Lungo	Superiore	X	2 φ32	3,95
102	CX	Lungo	Superiore	X	2 φ32	12,00
103	CY	Lungo	Superiore	X	2 φ32	3,92
104	CZ	Lungo	Superiore	X	2 φ32	3,92
122	DR	Lungo	Superiore	X	2 φ32	4,51
123	DS	Lungo	Superiore	X	2 φ32	3,63
124	DT	Lungo	Superiore	X	2 φ32	4,51
125	DU	Lungo	Superiore	X	2 φ32	3,96
126	DV	Lungo	Superiore	X	2 φ32	4,28
127	DW	Lungo	Superiore	X	2 φ32	8,34
128	DX	Lungo	Superiore	X	2 φ32	3,96
129	DY	Lungo	Superiore	X	2 φ32	8,34
135	EE	Lungo	Superiore	X	2 φ32	7,94
136	EF	Lungo	Superiore	X	2 φ32	7,94
137	EG	Lungo	Superiore	X	2 φ32	3,84
138	EH	Lungo	Superiore	X	2 φ32	3,83
139	EI	Lungo	Superiore	X	2 φ32	5,32
145	EO	Lungo	Superiore	X	2 φ32	3,13

n°	Gruppo	Tipo	Lembo	Dir	nf ϕ [mm]	L [m]
146	EP	Lungo	Superiore	X	2 ϕ 32	6,41
147	EQ	Lungo	Superiore	X	2 ϕ 32	3,13
153	EW	Lungo	Superiore	X	2 ϕ 32	6,79
154	EX	Lungo	Superiore	X	2 ϕ 32	3,58
155	EY	Lungo	Superiore	X	2 ϕ 32	7,46
156	EZ	Lungo	Superiore	X	2 ϕ 32	7,46
157	FA	Lungo	Superiore	X	2 ϕ 32	3,58
158	FB	Lungo	Superiore	X	2 ϕ 32	6,98
159	FC	Lungo	Superiore	X	2 ϕ 32	3,34
160	FD	Lungo	Superiore	X	2 ϕ 32	3,34
166	FJ	Lungo	Superiore	X	2 ϕ 32	3,49
167	FK	Lungo	Superiore	X	2 ϕ 32	7,26
168	FL	Lungo	Superiore	X	2 ϕ 32	7,26
169	FM	Lungo	Superiore	X	2 ϕ 32	7,36
170	FN	Lungo	Superiore	X	2 ϕ 32	3,49
171	FO	Lungo	Superiore	X	2 ϕ 32	3,05
172	FP	Lungo	Superiore	X	2 ϕ 32	7,72
178	FV	Lungo	Superiore	X	2 ϕ 32	4,18
179	FW	Lungo	Superiore	X	2 ϕ 32	4,18
180	FX	Lungo	Superiore	X	2 ϕ 32	7,79
181	FY	Lungo	Superiore	X	2 ϕ 32	7,92
182	FZ	Lungo	Superiore	X	2 ϕ 32	3,91
183	GA	Lungo	Superiore	X	2 ϕ 32	3,91
184	GB	Lungo	Superiore	X	2 ϕ 32	7,08
185	GC	Lungo	Superiore	X	2 ϕ 32	7,08
191	GI	Lungo	Superiore	X	2 ϕ 32	6,97
192	GJ	Lungo	Superiore	X	2 ϕ 32	3,83
193	GK	Lungo	Superiore	X	2 ϕ 32	3,83
194	GL	Lungo	Superiore	X	2 ϕ 32	6,97
195	GM	Lungo	Superiore	X	2 ϕ 32	8,30
201	GS	Lungo	Superiore	X	2 ϕ 32	3,67
202	GT	Lungo	Superiore	X	2 ϕ 32	3,67
203	GU	Lungo	Superiore	X	2 ϕ 32	8,82
209	HA	Lungo	Superiore	X	2 ϕ 32	6,77
210	HB	Lungo	Superiore	X	2 ϕ 32	9,02
211	HC	Lungo	Superiore	X	2 ϕ 32	3,67
212	HD	Lungo	Superiore	X	2 ϕ 32	3,67
213	HE	Lungo	Superiore	X	2 ϕ 32	6,77
214	HF	Lungo	Superiore	X	2 ϕ 32	9,10
215	HG	Lungo	Superiore	X	2 ϕ 32	3,53
216	HH	Lungo	Superiore	X	2 ϕ 32	3,53
222	HN	Lungo	Superiore	X	2 ϕ 32	3,59
223	HO	Lungo	Superiore	X	2 ϕ 32	3,59
224	HP	Lungo	Superiore	X	2 ϕ 32	6,72
225	HQ	Lungo	Superiore	X	2 ϕ 32	6,72
226	HR	Lungo	Superiore	X	2 ϕ 32	9,27
227	HS	Lungo	Superiore	X	2 ϕ 32	3,40
228	HT	Lungo	Superiore	X	2 ϕ 32	9,36
229	HU	Lungo	Superiore	X	2 ϕ 32	3,40
235	IA	Lungo	Superiore	X	2 ϕ 32	9,50
236	IB	Lungo	Superiore	X	2 ϕ 32	4,05
237	IC	Lungo	Superiore	X	2 ϕ 32	4,05
238	ID	Lungo	Superiore	X	2 ϕ 32	6,66
239	IE	Lungo	Superiore	X	2 ϕ 32	3,94
240	IF	Lungo	Superiore	X	2 ϕ 32	3,94
241	IG	Lungo	Superiore	X	2 ϕ 32	6,66
242	IH	Lungo	Superiore	X	2 ϕ 32	9,58
248	IN	Lungo	Superiore	X	2 ϕ 32	6,59
249	IO	Lungo	Superiore	X	2 ϕ 32	3,89
250	IP	Lungo	Superiore	X	2 ϕ 32	9,84
251	IQ	Lungo	Superiore	X	2 ϕ 32	3,89
252	IR	Lungo	Superiore	X	2 ϕ 32	6,59
258	IX	Lungo	Superiore	X	2 ϕ 32	3,76
259	IY	Lungo	Superiore	X	2 ϕ 32	10,07
260	IZ	Lungo	Superiore	X	2 ϕ 32	3,76
266	JF	Lungo	Superiore	X	2 ϕ 32	3,81
267	JG	Lungo	Superiore	X	2 ϕ 32	6,49
268	JH	Lungo	Superiore	X	2 ϕ 32	10,18
269	JI	Lungo	Superiore	X	2 ϕ 32	3,81
270	JJ	Lungo	Superiore	X	2 ϕ 32	6,49
271	JK	Lungo	Superiore	X	2 ϕ 32	10,23
272	JL	Lungo	Superiore	X	2 ϕ 32	3,68
273	JM	Lungo	Superiore	X	2 ϕ 32	3,68
279	JS	Lungo	Superiore	X	2 ϕ 32	6,45
280	JT	Lungo	Superiore	X	2 ϕ 32	3,77
281	JU	Lungo	Superiore	X	2 ϕ 32	3,77

n°	Gruppo	Tipo	Lembo	Dir	nf ϕ [mm]	L [m]
282	JV	Lungo	Superiore	X	2 ϕ 32	10,34
283	JW	Lungo	Superiore	X	2 ϕ 32	6,45
284	JX	Lungo	Superiore	X	2 ϕ 32	3,60
285	JY	Lungo	Superiore	X	2 ϕ 32	3,60
286	JZ	Lungo	Superiore	X	2 ϕ 32	10,39
292	KF	Lungo	Superiore	X	2 ϕ 32	10,48
293	KG	Lungo	Superiore	X	2 ϕ 32	3,84
294	KH	Lungo	Superiore	X	2 ϕ 32	3,84
295	KI	Lungo	Superiore	X	2 ϕ 32	3,79
296	KJ	Lungo	Superiore	X	2 ϕ 32	6,40
297	KK	Lungo	Superiore	X	2 ϕ 32	10,53
298	KL	Lungo	Superiore	X	2 ϕ 32	6,40
299	KM	Lungo	Superiore	X	2 ϕ 32	3,79
305	KS	Lungo	Superiore	X	2 ϕ 32	3,77
306	KT	Lungo	Superiore	X	2 ϕ 32	3,77
307	KU	Lungo	Superiore	X	2 ϕ 32	10,61
308	KV	Lungo	Superiore	X	2 ϕ 32	3,75
309	KW	Lungo	Superiore	X	2 ϕ 32	10,63
310	KX	Lungo	Superiore	X	2 ϕ 32	6,39
311	KY	Lungo	Superiore	X	2 ϕ 32	3,75
312	KZ	Lungo	Superiore	X	2 ϕ 32	6,39
323	LK	Lungo	Superiore	X	2 ϕ 32	3,67
324	LL	Lungo	Superiore	X	2 ϕ 32	6,39
325	LM	Lungo	Superiore	X	2 ϕ 32	3,67
326	LN	Lungo	Superiore	X	2 ϕ 32	10,79
327	LO	Lungo	Superiore	X	2 ϕ 32	6,39
328	LP	Lungo	Superiore	X	2 ϕ 32	3,67
329	LQ	Lungo	Superiore	X	2 ϕ 32	3,67
330	LR	Lungo	Superiore	X	2 ϕ 32	10,81
336	LX	Lungo	Superiore	X	4 ϕ 32	3,67
337	LY	Lungo	Superiore	X	2 ϕ 32	10,86
338	LZ	Lungo	Superiore	X	2 ϕ 32	6,36
339	MA	Lungo	Superiore	X	4 ϕ 32	3,67
340	MB	Lungo	Superiore	X	2 ϕ 32	6,35
341	MC	Lungo	Superiore	X	2 ϕ 32	6,34
342	MD	Lungo	Superiore	X	2 ϕ 32	6,34
343	ME	Lungo	Superiore	X	2 ϕ 32	10,89
349	MK	Lungo	Superiore	X	2 ϕ 32	3,87
350	ML	Lungo	Superiore	X	2 ϕ 32	10,93
351	MM	Lungo	Superiore	X	3 ϕ 32	3,87
352	MN	Lungo	Superiore	X	1 ϕ 32	3,87
353	MO	Lungo	Superiore	X	5 ϕ 32	10,93
359	MU	Lungo	Superiore	X	4 ϕ 32	3,68
360	MV	Lungo	Superiore	X	4 ϕ 32	6,32
361	MW	Lungo	Superiore	X	4 ϕ 32	3,68
362	MX	Lungo	Superiore	X	4 ϕ 32	6,32
373	NI	Lungo	Inferiore	X	2 ϕ 32	2,14
374	NJ	Lungo	Inferiore	X	2 ϕ 32	2,14
384	NT	Lungo	Inferiore	X	2 ϕ 32	2,21
385	NU	Lungo	Inferiore	X	2 ϕ 32	2,21
408	OR	Lungo	Inferiore	X	4 ϕ 32	9,47
415	OY	Lungo	Inferiore	X	2 ϕ 32	2,16
416	OZ	Lungo	Inferiore	X	2 ϕ 32	2,16
421	PE	Lungo	Inferiore	X	4 ϕ 32	2,13
422	PF	Lungo	Inferiore	X	4 ϕ 32	12,00
435	PS	Lungo	Inferiore	X	4 ϕ 32	4,11
436	PT	Lungo	Inferiore	X	4 ϕ 32	12,00
452	QJ	Lungo	Inferiore	X	4 ϕ 32	4,98
453	QK	Lungo	Inferiore	X	8 ϕ 32	5,35
454	QL	Lungo	Inferiore	X	8 ϕ 32	12,00
464	QV	Lungo	Inferiore	X	4 ϕ 32	5,97
471	RC	Lungo	Inferiore	X	8 ϕ 32	8,47
472	RD	Lungo	Inferiore	X	8 ϕ 32	6,37
473	RE	Lungo	Inferiore	X	8 ϕ 32	12,00
489	RU	Lungo	Inferiore	X	8 ϕ 32	9,91
490	RV	Lungo	Inferiore	X	8 ϕ 32	7,26
491	RW	Lungo	Inferiore	X	8 ϕ 32	12,00
507	SM	Lungo	Inferiore	X	6 ϕ 32	10,47
508	SN	Lungo	Inferiore	X	10 ϕ 32	7,38
509	SO	Lungo	Inferiore	X	10 ϕ 32	12,00
525	TE	Lungo	Inferiore	X	3 ϕ 32	10,99
529	TI	Lungo	Inferiore	X	4 ϕ 32	7,41
530	TJ	Lungo	Inferiore	X	4 ϕ 32	12,00
539	TS	Lungo	Inferiore	Y	2 ϕ 32	2,14
540	TT	Lungo	Inferiore	Y	2 ϕ 32	2,14
550	UD	Lungo	Inferiore	Y	2 ϕ 32	2,21

n°	Gruppo	Tipo	Lembo	Dir	nf ϕ [mm]	L [m]
551	UE	Lungo	Inferiore	Y	2 ϕ 32	2,21
574	VB	Lungo	Inferiore	Y	4 ϕ 32	9,47
581	VI	Lungo	Inferiore	Y	2 ϕ 32	2,16
582	VJ	Lungo	Inferiore	Y	2 ϕ 32	2,16
587	VO	Lungo	Inferiore	Y	4 ϕ 32	2,13
588	VP	Lungo	Inferiore	Y	4 ϕ 32	12,00
601	WC	Lungo	Inferiore	Y	4 ϕ 32	4,11
602	WD	Lungo	Inferiore	Y	4 ϕ 32	12,00
618	WT	Lungo	Inferiore	Y	8 ϕ 32	5,97
619	WU	Lungo	Inferiore	Y	8 ϕ 32	5,35
620	WV	Lungo	Inferiore	Y	8 ϕ 32	12,00
636	XL	Lungo	Inferiore	Y	8 ϕ 32	8,47
637	XM	Lungo	Inferiore	Y	8 ϕ 32	6,37
638	XN	Lungo	Inferiore	Y	8 ϕ 32	12,00
654	YD	Lungo	Inferiore	Y	8 ϕ 32	9,91
655	YE	Lungo	Inferiore	Y	8 ϕ 32	7,26
656	YF	Lungo	Inferiore	Y	8 ϕ 32	12,00
672	YV	Lungo	Inferiore	Y	6 ϕ 32	10,47
673	YW	Lungo	Inferiore	Y	10 ϕ 32	7,38
674	YX	Lungo	Inferiore	Y	10 ϕ 32	12,00
690	ZN	Lungo	Inferiore	Y	3 ϕ 32	10,99
694	ZR	Lungo	Inferiore	Y	4 ϕ 32	7,41
695	ZS	Lungo	Inferiore	Y	4 ϕ 32	12,00
704	[B	Lungo	Superiore	Y	2 ϕ 32	2,14
705	[C	Lungo	Superiore	Y	2 ϕ 32	2,14
715	[M	Lungo	Superiore	Y	2 ϕ 32	2,21
716	[N	Lungo	Superiore	Y	2 ϕ 32	2,21
742		Lungo	Superiore	Y	2 ϕ 32	4,64
743		Lungo	Superiore	Y	2 ϕ 32	7,88
744		Lungo	Superiore	Y	2 ϕ 32	4,64
748		Lungo	Superiore	Y	2 ϕ 32	8,81
749		Lungo	Superiore	Y	2 ϕ 32	4,17
750		Lungo	Superiore	Y	2 ϕ 32	4,17
757	]C	Lungo	Superiore	Y	2 ϕ 32	2,16
758	]D	Lungo	Superiore	Y	2 ϕ 32	2,16
765	]K	Lungo	Superiore	Y	2 ϕ 32	4,22
766	]L	Lungo	Superiore	Y	2 ϕ 32	11,46
767	]M	Lungo	Superiore	Y	2 ϕ 32	4,22
771	]Q	Lungo	Superiore	Y	2 ϕ 32	3,93
772	]R	Lungo	Superiore	Y	2 ϕ 32	3,93
773	]S	Lungo	Superiore	Y	2 ϕ 32	2,78
774	]T	Lungo	Superiore	Y	2 ϕ 32	11,17
791	^K	Lungo	Superiore	Y	2 ϕ 32	3,57
792	^L	Lungo	Superiore	Y	2 ϕ 32	12,00
793	^M	Lungo	Superiore	Y	2 ϕ 32	4,11
794	^N	Lungo	Superiore	Y	2 ϕ 32	4,11
799	^S	Lungo	Superiore	Y	2 ϕ 32	3,92
800	^T	Lungo	Superiore	Y	2 ϕ 32	3,92
801	^U	Lungo	Superiore	Y	2 ϕ 32	3,95
802	^V	Lungo	Superiore	Y	2 ϕ 32	12,00
820	_N	Lungo	Superiore	Y	2 ϕ 32	5,01
821	_O	Lungo	Superiore	Y	2 ϕ 32	5,01
822	_P	Lungo	Superiore	Y	2 ϕ 32	3,63
823	_Q	Lungo	Superiore	Y	2 ϕ 32	8,34
824	_R	Lungo	Superiore	Y	2 ϕ 32	3,96
825	_S	Lungo	Superiore	Y	2 ϕ 32	8,34
826	_T	Lungo	Superiore	Y	2 ϕ 32	3,96
827	_U	Lungo	Superiore	Y	2 ϕ 32	4,28
833	`A	Lungo	Superiore	Y	2 ϕ 32	7,94
834	`B	Lungo	Superiore	Y	2 ϕ 32	3,83
835	`C	Lungo	Superiore	Y	2 ϕ 32	3,84
836	`D	Lungo	Superiore	Y	2 ϕ 32	5,32
837	`E	Lungo	Superiore	Y	2 ϕ 32	7,94
843	`K	Lungo	Superiore	Y	2 ϕ 32	3,63
844	`L	Lungo	Superiore	Y	2 ϕ 32	6,41
845	`M	Lungo	Superiore	Y	2 ϕ 32	3,63
851	`S	Lungo	Superiore	Y	2 ϕ 32	3,58
852	`T	Lungo	Superiore	Y	2 ϕ 32	6,79
853	`U	Lungo	Superiore	Y	2 ϕ 32	7,46
854	`V	Lungo	Superiore	Y	2 ϕ 32	7,46
855	`W	Lungo	Superiore	Y	2 ϕ 32	3,58
856	`X	Lungo	Superiore	Y	2 ϕ 32	6,98
857	`Y	Lungo	Superiore	Y	2 ϕ 32	3,34
858	`Z	Lungo	Superiore	Y	2 ϕ 32	3,34
864	aF	Lungo	Superiore	Y	2 ϕ 32	7,26
865	aG	Lungo	Superiore	Y	2 ϕ 32	7,36

n°	Gruppo	Tipo	Lembo	Dir	nf ϕ [mm]	L [m]
866	aH	Lungo	Superiore	Y	2 ϕ 32	3,49
867	aI	Lungo	Superiore	Y	2 ϕ 32	7,26
868	aJ	Lungo	Superiore	Y	2 ϕ 32	3,49
869	aK	Lungo	Superiore	Y	2 ϕ 32	3,05
870	aL	Lungo	Superiore	Y	2 ϕ 32	7,72
876	aR	Lungo	Superiore	Y	2 ϕ 32	4,18
877	aS	Lungo	Superiore	Y	2 ϕ 32	4,18
878	aT	Lungo	Superiore	Y	2 ϕ 32	7,79
879	aU	Lungo	Superiore	Y	2 ϕ 32	7,92
880	aV	Lungo	Superiore	Y	2 ϕ 32	7,08
881	aW	Lungo	Superiore	Y	2 ϕ 32	3,91
882	aX	Lungo	Superiore	Y	2 ϕ 32	3,91
883	aY	Lungo	Superiore	Y	2 ϕ 32	7,08
889	bE	Lungo	Superiore	Y	2 ϕ 32	8,30
890	bF	Lungo	Superiore	Y	2 ϕ 32	6,97
891	bG	Lungo	Superiore	Y	2 ϕ 32	3,83
892	bH	Lungo	Superiore	Y	2 ϕ 32	6,97
893	bI	Lungo	Superiore	Y	2 ϕ 32	3,83
899	bO	Lungo	Superiore	Y	2 ϕ 32	3,67
900	bP	Lungo	Superiore	Y	2 ϕ 32	8,82
901	bQ	Lungo	Superiore	Y	2 ϕ 32	3,67
907	bW	Lungo	Superiore	Y	2 ϕ 32	9,02
908	bX	Lungo	Superiore	Y	2 ϕ 32	6,77
909	bY	Lungo	Superiore	Y	2 ϕ 32	3,67
910	bZ	Lungo	Superiore	Y	2 ϕ 32	6,77
911	cA	Lungo	Superiore	Y	2 ϕ 32	3,67
912	cB	Lungo	Superiore	Y	2 ϕ 32	9,10
913	cC	Lungo	Superiore	Y	2 ϕ 32	3,53
914	cD	Lungo	Superiore	Y	2 ϕ 32	3,53
920	cJ	Lungo	Superiore	Y	2 ϕ 32	6,72
921	cK	Lungo	Superiore	Y	2 ϕ 32	3,59
922	cL	Lungo	Superiore	Y	2 ϕ 32	6,72
923	cM	Lungo	Superiore	Y	2 ϕ 32	3,59
924	cN	Lungo	Superiore	Y	2 ϕ 32	9,27
925	cO	Lungo	Superiore	Y	2 ϕ 32	3,40
926	cP	Lungo	Superiore	Y	2 ϕ 32	9,36
927	cQ	Lungo	Superiore	Y	2 ϕ 32	3,40
933	cW	Lungo	Superiore	Y	2 ϕ 32	9,50
934	cX	Lungo	Superiore	Y	2 ϕ 32	4,05
935	cY	Lungo	Superiore	Y	2 ϕ 32	4,05
936	cZ	Lungo	Superiore	Y	2 ϕ 32	3,94
937	dA	Lungo	Superiore	Y	2 ϕ 32	6,66
938	dB	Lungo	Superiore	Y	2 ϕ 32	6,66
939	dC	Lungo	Superiore	Y	2 ϕ 32	9,58
940	dD	Lungo	Superiore	Y	2 ϕ 32	3,94
946	dJ	Lungo	Superiore	Y	2 ϕ 32	3,89
947	dK	Lungo	Superiore	Y	2 ϕ 32	3,89
948	dL	Lungo	Superiore	Y	2 ϕ 32	6,59
949	dM	Lungo	Superiore	Y	2 ϕ 32	6,59
950	dN	Lungo	Superiore	Y	2 ϕ 32	9,84
956	dT	Lungo	Superiore	Y	2 ϕ 32	3,76
957	dU	Lungo	Superiore	Y	2 ϕ 32	3,76
958	dV	Lungo	Superiore	Y	2 ϕ 32	10,07
964	eB	Lungo	Superiore	Y	2 ϕ 32	3,81
965	eC	Lungo	Superiore	Y	2 ϕ 32	6,49
966	eD	Lungo	Superiore	Y	2 ϕ 32	3,81
967	eE	Lungo	Superiore	Y	2 ϕ 32	6,49
968	eF	Lungo	Superiore	Y	2 ϕ 32	10,18
969	eG	Lungo	Superiore	Y	2 ϕ 32	10,23
970	eH	Lungo	Superiore	Y	2 ϕ 32	3,68
971	eI	Lungo	Superiore	Y	2 ϕ 32	3,68
977	eO	Lungo	Superiore	Y	2 ϕ 32	6,45
978	eP	Lungo	Superiore	Y	2 ϕ 32	10,34
979	eQ	Lungo	Superiore	Y	2 ϕ 32	3,77
980	eR	Lungo	Superiore	Y	2 ϕ 32	3,77
981	eS	Lungo	Superiore	Y	2 ϕ 32	6,45
982	eT	Lungo	Superiore	Y	2 ϕ 32	3,60
983	eU	Lungo	Superiore	Y	2 ϕ 32	10,39
984	eV	Lungo	Superiore	Y	2 ϕ 32	3,60
990	fB	Lungo	Superiore	Y	2 ϕ 32	3,84
991	fC	Lungo	Superiore	Y	2 ϕ 32	3,84
992	fD	Lungo	Superiore	Y	2 ϕ 32	10,48
993	fE	Lungo	Superiore	Y	2 ϕ 32	3,79
994	fF	Lungo	Superiore	Y	2 ϕ 32	3,79
995	fG	Lungo	Superiore	Y	2 ϕ 32	6,40
996	fH	Lungo	Superiore	Y	2 ϕ 32	6,40

n°	Gruppo	Tipo	Lembo	Dir	nf ϕ [mm]	L [m]
997	fI	Lungo	Superiore	Y	2 ϕ 32	10,53
1003	fO	Lungo	Superiore	Y	2 ϕ 32	3,77
1004	fP	Lungo	Superiore	Y	2 ϕ 32	10,61
1005	fQ	Lungo	Superiore	Y	2 ϕ 32	3,77
1006	fR	Lungo	Superiore	Y	2 ϕ 32	3,75
1007	fS	Lungo	Superiore	Y	2 ϕ 32	10,63
1008	fT	Lungo	Superiore	Y	2 ϕ 32	3,75
1009	fU	Lungo	Superiore	Y	2 ϕ 32	6,39
1010	fV	Lungo	Superiore	Y	2 ϕ 32	6,39
1021	gG	Lungo	Superiore	Y	2 ϕ 32	3,67
1022	gH	Lungo	Superiore	Y	2 ϕ 32	6,39
1023	gI	Lungo	Superiore	Y	2 ϕ 32	3,67
1024	gJ	Lungo	Superiore	Y	2 ϕ 32	10,79
1025	gK	Lungo	Superiore	Y	2 ϕ 32	6,39
1026	gL	Lungo	Superiore	Y	2 ϕ 32	3,67
1027	gM	Lungo	Superiore	Y	2 ϕ 32	10,81
1028	gN	Lungo	Superiore	Y	2 ϕ 32	3,67
1034	gT	Lungo	Superiore	Y	4 ϕ 32	3,67
1035	gU	Lungo	Superiore	Y	2 ϕ 32	6,35
1036	gV	Lungo	Superiore	Y	2 ϕ 32	10,86
1037	gW	Lungo	Superiore	Y	4 ϕ 32	3,67
1038	gX	Lungo	Superiore	Y	2 ϕ 32	6,36
1039	gY	Lungo	Superiore	Y	2 ϕ 32	6,34
1040	gZ	Lungo	Superiore	Y	2 ϕ 32	10,89
1041	hA	Lungo	Superiore	Y	2 ϕ 32	6,34
1047	hG	Lungo	Superiore	Y	2 ϕ 32	3,87
1048	hH	Lungo	Superiore	Y	3 ϕ 32	3,87
1049	hI	Lungo	Superiore	Y	2 ϕ 32	10,93
1050	hJ	Lungo	Superiore	Y	1 ϕ 32	3,87
1051	hK	Lungo	Superiore	Y	5 ϕ 32	10,93
1057	hQ	Lungo	Superiore	Y	4 ϕ 32	6,32
1058	hR	Lungo	Superiore	Y	4 ϕ 32	3,68
1059	hS	Lungo	Superiore	Y	4 ϕ 32	6,32
1060	hT	Lungo	Superiore	Y	4 ϕ 32	3,68