

ΕΡΓΟ : ΕΞΩΤΕΡΙΚΟΣ ΜΕΤΑΛΛΙΚΟΣ ΑΝΕΛΚΥΣΤΗΡΑΣ
ΕΠΙΣΚΕΥΕΣ ΚΑΙ ΕΡΓΑΣΙΕΣ ΠΡΟΣΒΑΣΙΜΟΤΗΤΑΣ
ΣΤΟ ΔΙΚΑΣΤΙΚΟ ΜΕΓΑΡΟ ΑΜΑΛΙΑΔΑΣ

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- 8) EC2 (Σχεδιασμός φορέων από Σκυρόδεμα)
- 9) EC3 (Σχεδιασμός κατασκευών από Χάλυβα)
- 10) EC8 (Αντισεισμικός σχεδιασμός κατασκευών)

Γενικά

Η παρούσα μελέτη αφορά την κατασκευή νέου μεταλλικού ανελκυστήρα στο Δικαστικό Μέγαρο Αμαλιάδας

Ο σκελετός του ανελκυστήρα είναι χωρικό πλαίσιο που αποτελείται από τέσσερις μεταλλικού στύλους διατομής SHS 120x5 σε δύο στάθμες που συνδέονται μεταξύ τους με δοκούς SHS 100x5 . Στη θέση που ο ανελκυστήρας έρχεται σε επαφή με το υπάρχον κτίριο (σε δύο στάθμες) συνδέεται αρθρωτά με μεταλλικά βύσματα τα οποία επιτρέπουν την ανεξάρτητη κατακόρυφη κίνηση . Διαγώνιοι σύνδεσμοί CHS 60.3x3 τοποθετούνται στις τρεις πλευρές της κατασκευής .Ο σκελετός είναι αρθρωτός στη βάση του .

Η θεμελίωση του ανελκυστήρα γίνεται με φρεάτιο οπλισμένου σκυροδέματος με περιμετρικά τοιχεία πάχους 30 cm και πυθμένα πάχους 30cm.

Παράμετροι

ΥΛΙΚΑ				
Ποιότητα σκυροδέματος:	C20/25			
Ποιότητα χάλυβα οπλισμού	B500c			
Ποιότητα χάλυβα σιδηρών κατασκευών:	S235			
ΜΟΝΙΜΑ ΦΟΡΤΙΑ				
Ειδικό βάρος σκυροδέματος:	25.00	kN/m3		
Ειδικό βάρος χάλυβα	78.50	kN/m3		
Βάρος θαλάμου ανελκυστήρα	15.00	kN		
ΚΙΝΗΤΑ ΦΟΡΤΙΑ				
Ανεμός κατά ευρωκώδικα I	v=27	m/sec		
Χιόνι (κινητό)	5.00	kN/m²		
Ωφέλιμο φορτίο ανελκυστήρα	10.00	kN		
ΠΑΡΑΜΕΤΡΟΙ ΕΔΑΦΟΥΣ				
Επιτρεπόμενη τάση:	0.15	MPa	Κατηγορία εδάφους (EC Table 3.1):	B

ΠΑΡΑΜΕΤΡΟΙ ΣΕΙΣΜΟΥ	
Design ground acceleration ,ag	0,360g
Ground Type (Table 3.1)	B
Soil Factor ,S (Table 3.2)	1,2
Constant Accelaration Period Limit , TB (E.C.Table 3.2)	0,15 sec
Constant Accelaration Period Limit , Tc (EC Table 3.2)	0,50 sec
Constant Accelaration Period Limit , TD (EC Table 3.2)	2,00 sec
Lower bound factor , β (EC 3.2.2.5 (4))	0.05
Behavior Factor ,q (EC 3.2.2.5(3))	1,50

Ο ΜΕΛΕΤΗΤΗΣ

**Wind reference pressure calculation
to EN 1991-1-4**

Author	Date	Checked	Date	Rev.

Project Title:

Reference height

ze = 7.50 m

z = 7.50 m

EN 1991-1-4 Section 7

Air density

$\rho = 1.25 \text{ kg/m}^3$

EN 1991-1-4 Section 4.5 Note 2 (rec. value 1.25)

Basic wind velocity

$v_{b,0} = 27.00 \text{ m/sec}$

Value specified in the National Annex

Basic wind velocity calculation

directional factor $c_{dir} = 1.00$

EN 1991-1-4 Section 4.2 Note 2 (rec. value 1.0)

season factor $c_{season} = 1.00$

EN 1991-1-4 Section 4.2 Note 3 (rec. value 1.0)

$v_b = c_{dir} * c_{season} * v_{b,0} = 27.00 \text{ m/sec}$

EN 1991-1-4 Section 4.2 (1)P Expression (4.1)

Basic velocity pressure

$q_b = 1/2 * \rho * v_b^2 = 0.46 \text{ kN/m}^2$

EN 1991-1-4 - Section 4.5 (1) Expression (4.10)

Terrain category: III

EN 1991-1-4 - Table 4.1

$z_0 = 0.300 \text{ m}$

roughness lengths

$z_{min} = 5.000 \text{ m}$

Terrain roughness:

EN 1991-1-4 Section 4.3.2

$c_r(z) = 0.6933$

EN 1991-1-4 Section 4.3.2 (1) Expression (4.4)

$z_{0,II} = 0.05 \text{ m}$

EN 1991-1-4 Section 4.3.2 eq. (4.5)

$z_{max} = 200.00 \text{ m}$

EN 1991-1-4 Section 4.3.2 eq. (4.5) - max. 200m

$k_r = 0.19 * (z_0/z_{0,II})^{0.07} = 0.2154$

EN 1991-1-4 Section 4.3.2 Expression (4.5)

Terrain orography:

EN 1991-1-4 Section 4.3.1 Note 1

$c_o(z) = 1.00$

EN 1991-1-4 Section 4.3.3 & Annex A.3

Wind turbulence

EN 1991-1-4 Section 4.4 (1)

turbulence factor $k_t = 1.00$

rec. value 1.0, other values may be specified by the NA

$l_v(z) = 0.3107$

EN 1991-1-4 Section 4.4 (1) Expression (4.7)

Mean wind velocity

$v_m(z) = c_r(z) * c_o(z) * v_b = 18.72 \text{ m/sec}$

EN 1991-1-4 Section 4.3.3(1) Expression (4.3)

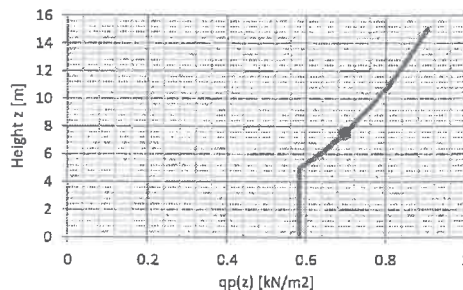
Peak velocity pressure

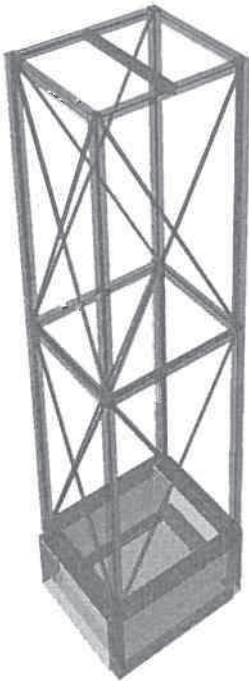
$c_e(z) = [1 + 7 * l_v(z)] * [c_r(z) * c_o(z)]^2 = 1.5260$

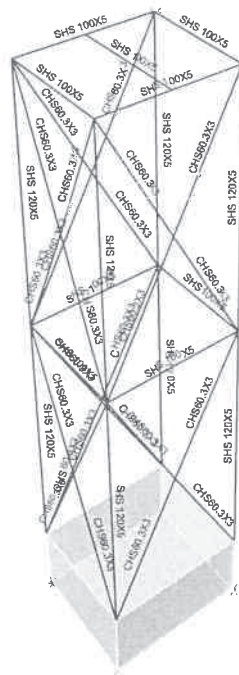
EN 1991-1-4 Section 4.5 (1) Expression (4.8)

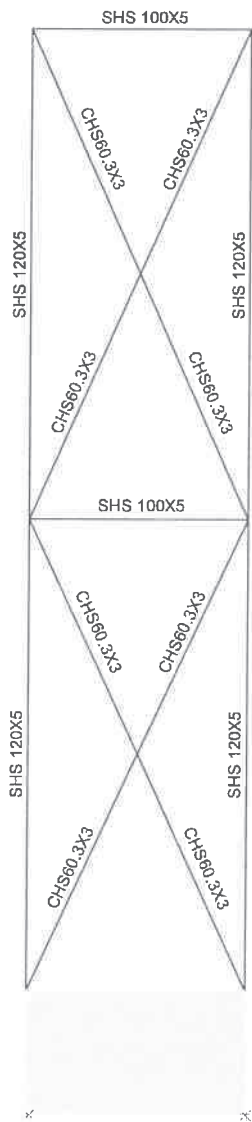
$q_p(z) = c_e(z) * q_b = 0.70 \text{ kN/m}^2$

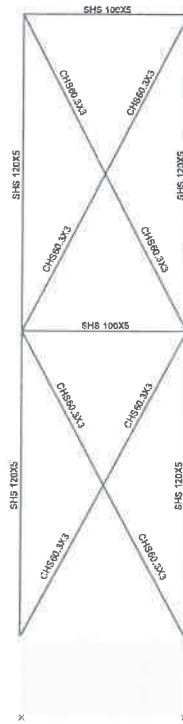
z(m)	$l_v(z)$	$c_o(z)$	$c_r(z)$	$c_e(z)$	$q_p(z)$
0.0	-	-	-	-	0.584
5.0	0.355	1	0.61	1.281	0.584
6.3	0.329	1	0.65	1.414	0.644
7.5	0.311	1	0.69	1.526	0.695
8.8	0.296	1	0.73	1.623	0.740
10.0	0.285	1	0.76	1.709	0.779
11.3	0.276	1	0.78	1.786	0.814
12.5	0.268	1	0.80	1.857	0.846
13.8	0.261	1	0.82	1.921	0.875
15.00	0.256	1	0.84	1.980	0.902

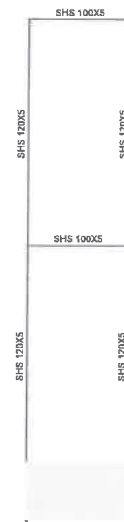


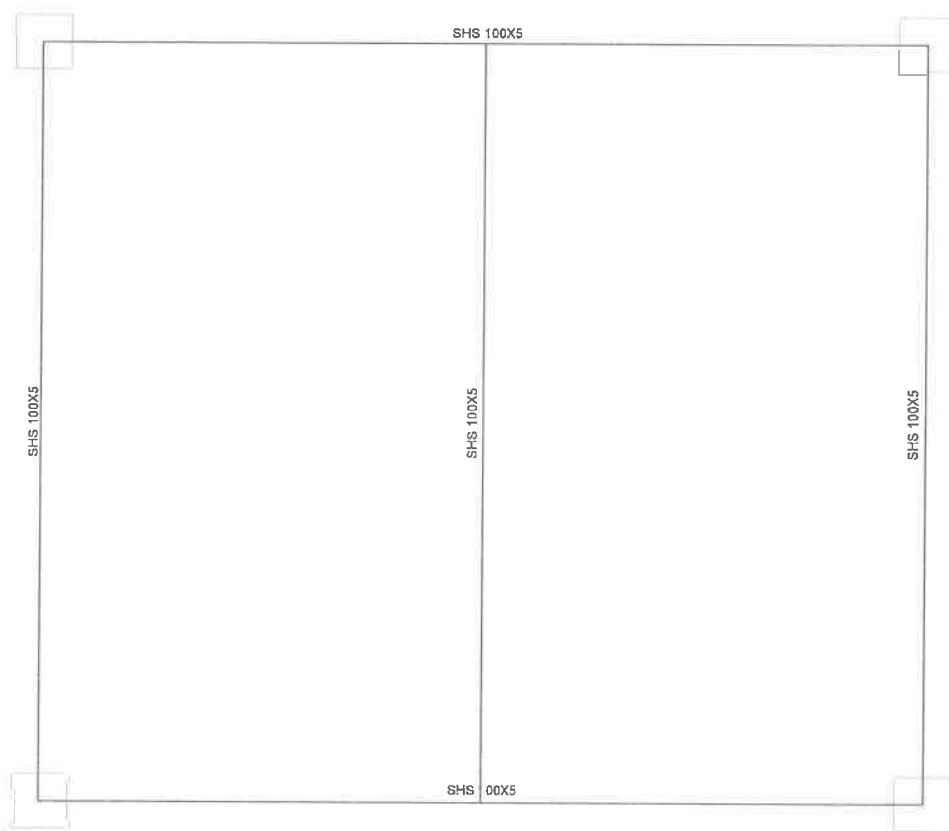






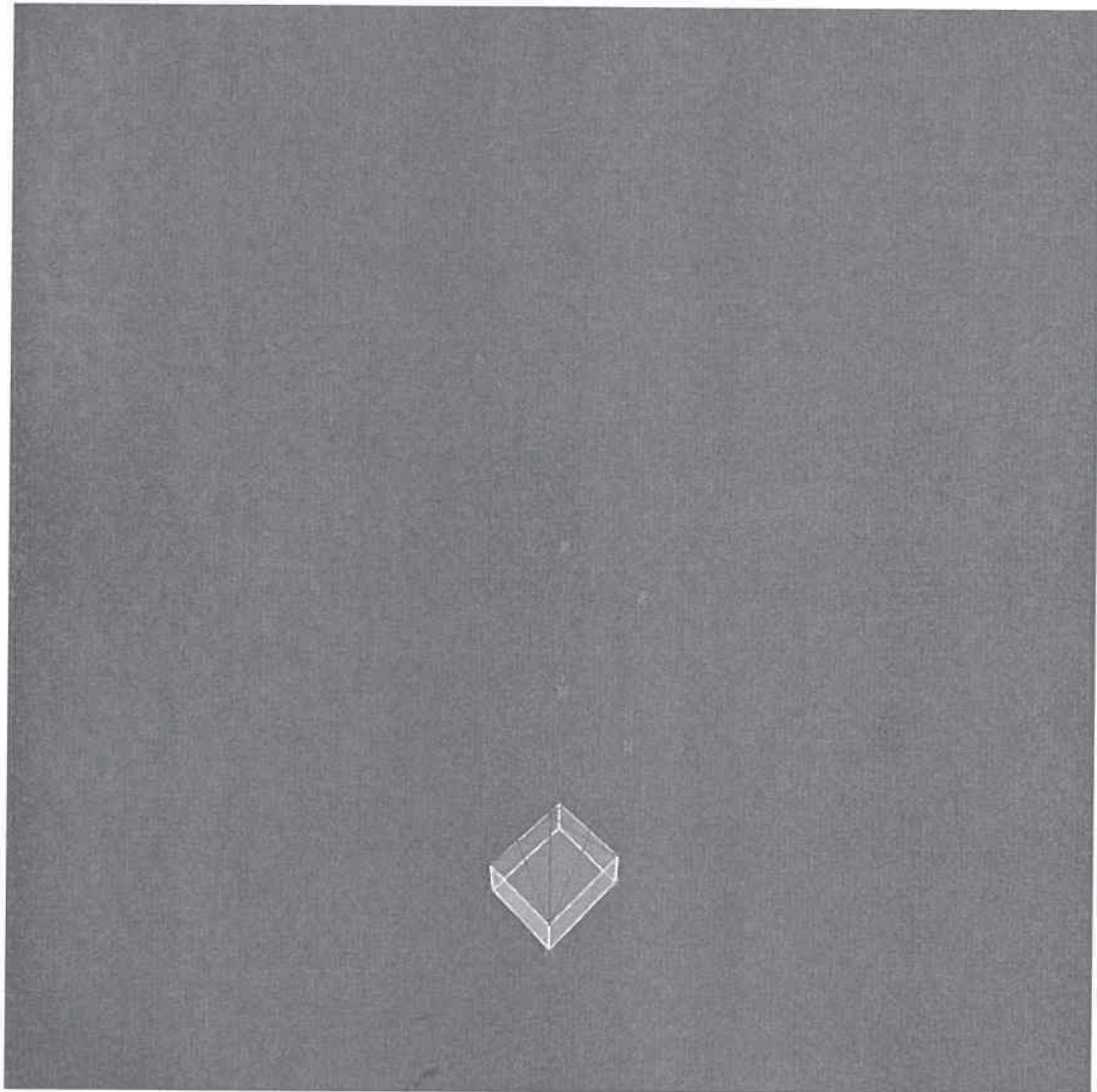






ETABS[®] 2016

Integrated Building Design Software



Project Report

Model File: ASANSER, Revision 0
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1 Structure Data

This chapter provides model geometry information, including items such as story levels, point coordinates, and element connectivity.

1.1 Story Data

Table 1.1 - Story Data

Name	Height mm	Elevation mm	Master Story	Similar To	Splice Story
Story3	3750	8300	Yes	None	No
Story2	3600	4550	Yes	None	No
Story1	950	950	No	Story2	No
Base	0	0	No	None	No

1.2 Grid Data

Table 1.2 - Grid Systems

Name	Type	Story Range	X Origin m	Y Origin m	Rotation deg	Bubble Size mm	Color
G1	Cartesian	Default	0	0	0	1250	ffa0a0

Table 1.3 - Grid Lines

Grid System	Grid Direction	Grid ID	Visible	Bubble Location	Ordinate m
G1	X	A	Yes	End	0
G1	X	B	Yes	End	0,97
G1	X	C	Yes	End	1,94
G1	Y	1	Yes	Start	0
G1	Y	2	Yes	Start	1,67

1.3 Point Coordinates

Table 1.4 - Joint Coordinates Data

Label	X mm	Y mm	ΔZ Below mm
2	0	0	0
6	1940	0	0
7	0	1670	0
8	1940	1670	0
9	970	1670	0
10	970	0	0
1	970	0	1800
3	0	835	1800
4	970	0	1875
5	970	1670	1800
11	970	1670	1875
12	0	835	1875

1.4 Line Connectivity

Table 1.5 - Column Connectivity Data

Column	I-End Point	J-End Point	I-End Story
C1	7	7	Below
C3	2	2	Below
C4	6	6	Below
C8	8	8	Below

Table 1.6 - Beam Connectivity Data

Beam	I-End Point	J-End Point	Curve Type
B6	7	8	None
B7	6	8	None
B8	2	6	None
B9	2	7	None
B10	10	9	None

Table 1.7 - Brace Connectivity Data

Brace	I-End Point	J-End Point	I-End Story
D1	2	1	Below
D2	1	6	Same
D3	6	1	Below
D4	1	2	Same
D5	2	3	Below
D6	3	7	Same
D13	7	3	Below
D14	3	2	Same
D15	2	4	Below
D16	4	6	Same
D17	6	4	Below
D18	4	2	Same
D19	7	5	Below
D20	5	8	Same
D21	8	5	Below
D22	5	7	Same
D23	7	11	Below
D24	11	8	Same
D25	8	11	Below
D26	11	7	Same
D27	2	12	Below
D28	12	7	Same
D29	7	12	Below
D30	12	2	Same

1.5 Area Connectivity

Table 1.8 - Floor Connectivity Data

Floor	Number of Edges	Edge Number	Point 1	Point 2	Curve Type
F2	4	1	2	6	None
		2	6	8	None
		3	8	7	None
		4	7	2	None

Table 1.9 - Wall Connectivity Data

Label	Number of Edges	Edge Number	Point 1	Point 2	Curve Type	Point 1 Story	Point 2 Story
W1	4	1	7	8	None	Below	Below
		2	8	8	None	Below	Same
		3	8	7	None	Same	Same
		4	7	7	None	Same	Below
W2	4	1	8	6	None	Below	Below
		2	6	6	None	Below	Same
		3	6	8	None	Same	Same
		4	8	8	None	Same	Below
W3	4	1	6	2	None	Below	Below
		2	2	2	None	Below	Same
		3	2	6	None	Same	Same
		4	6	6	None	Same	Below
W4	4	1	2	7	None	Below	Below
		2	7	7	None	Below	Same
		3	7	2	None	Same	Same
		4	2	2	None	Same	Below

1.6 Mass

Table 1.10 - Mass Source

Name	Include Elements	Include Added Mass	Include Loads	Include Lateral	Include Vertical	Lump at Stories	IsDefault
MsSrc1	Yes	Yes	No	Yes	No	Yes	Yes

Table 1.11 - Mass Summary by Story

Story	UX kg	UY kg	UZ kg
Story3	340,61	340,61	0
Story2	469,72	469,72	0
Story1	4088,82	4088,82	0
Base	3788,06	3788,06	0

1.7 Groups

Table 1.12 - Group Definitions

Name	Color
All	Yellow

2 Properties

This chapter provides property information for materials, frame sections, shell sections, and links.

2.1 Materials

Table 2.1 - Material Properties - Summary

Name	Type	E MPa	ν	Unit Weight kN/m ³	Design Strengths
A416Gr270	Tendon	196500,6	0	76,9729	Fy=1689,91 MPa, Fu=1861,58 MPa
A615Gr60	Rebar	199947,98	0,3	76,9729	Fy=413,69 MPa, Fu=620,53 MPa
C20/25	Concrete	30000	0,2	24,9926	Fc=20 MPa
S235	Steel	210000	0,3	76,9729	Fy=235 MPa, Fu=360 MPa

2.2 Frame Sections

Table 2.2 - Frame Sections - Summary

Name	Material	Shape
CHS60.3X3	S235	Steel Pipe
SHS 100X5	S235	Steel Tube
SHS 120X5	S235	Steel Tube

2.3 Shell Sections

Table 2.3 - Shell Sections - Summary

Name	Design Type	Element Type	Material	Total Thickness mm
Slab1	Slab	Shell-Thin	4000Psi	300
Wall30	Wall	Shell-Thin	4000Psi	300

2.4 Reinforcement Sizes

Table 2.4 - Reinforcing Bar Sizes

Name	Diameter mm	Area mm ²
10	10	79
18	18	255
20	20	314

2.5 Spring Properties

Table 2.5 - Spring Properties - Area

Name	U1 kN/m/m ²	U2 kN/m/m ²	U3 kN/m/m ²	Nonlinear 3 Option
K20000	0	0	20000	None

2.6 Tendon Sections

Table 2.6 - Tendon Section Properties

Name	Material	StrandArea mm ²	Color
Tendon1	A416Gr270	99	Fuchsia

3 Assignments

This chapter provides a listing of the assignments applied to the model.

3.1 Joint Assignments

Table 3.1 - Joint Assignments - Summary

Story	Label	Unique Name	Diaphragm	Restraints
Story3	2	17	From Area	
Story3	6	18	From Area	UX; UY
Story3	7	16	From Area	
Story3	8	19	From Area	UX; UY
Story3	9	20	From Area	
Story3	10	21	From Area	
Story3	4	15	From Area	
Story3	11	23	From Area	
Story3	12	24	From Area	
Story2	2	4	From Area	
Story2	6	6	From Area	UX; UY
Story2	7	2	From Area	
Story2	8	8	From Area	UX; UY
Story2	1	13	From Area	
Story2	3	14	From Area	
Story2	5	22	From Area	
Story1	2	12	From Area	
Story1	6	11	From Area	
Story1	7	9	From Area	
Story1	8	10	From Area	
Base	2	3	From Area	UX; UY
Base	6	5	From Area	UX; UY
Base	7	1	From Area	UX; UY
Base	8	7	From Area	UX; UY

3.2 Frame Assignments

Table 3.2 - Frame Assignments - Summary

Story	Label	Unique Name	Design Type	Length mm	Analysis Section	Design Section	Max Station Spacing mm	Min Number Stations	Releases
Story3	C1	25	Column	3750	SHS 120X5	SHS 120X5		3	No
Story3	C3	27	Column	3750	SHS 120X5	SHS 120X5		3	No
Story3	C4	28	Column	3750	SHS 120X5	SHS 120X5		3	No
Story3	C8	29	Column	3750	SHS 120X5	SHS 120X5		3	No
Story2	C1	44	Column	3600	SHS 120X5	SHS 120X5		3	Yes
Story2	C3	43	Column	3600	SHS 120X5	SHS 120X5		3	Yes
Story2	C4	41	Column	3600	SHS 120X5	SHS 120X5		3	Yes
Story2	C8	42	Column	3600	SHS 120X5	SHS 120X5		3	Yes
Story3	B6	30	Beam	1940	SHS 100X5	SHS 100X5	500		Yes
Story3	B7	31	Beam	1670	SHS 100X5	SHS 100X5	500		Yes
Story3	B8	32	Beam	1940	SHS 100X5	SHS 100X5	500		Yes
Story3	B9	33	Beam	1670	SHS 100X5	SHS 100X5	500		Yes
Story3	B10	34	Beam	1670	SHS 100X5	SHS 100X5	500		Yes

Table 3.2 - Frame Assignments - Summary (continued)

Story	Label	Unique Name	Design Type	Length mm	Analysis Section	Design Section	Max Station Spacing mm	Min Number Stations	Releases
Story2	B6	9	Beam	1940	SHS 100X5	SHS 100X5	500		Yes
Story2	B7	10	Beam	1670	SHS 100X5	SHS 100X5	500		Yes
Story2	B8	11	Beam	1940	SHS 100X5	SHS 100X5	500		Yes
Story2	B9	12	Beam	1670	SHS 100X5	SHS 100X5	500		Yes
Story3	D15	13	Brace	2111	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D16	14	Brace	2111	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D17	15	Brace	2111	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D18	16	Brace	2111	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D23	21	Brace	2111	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D24	22	Brace	2111	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D25	23	Brace	2111	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D26	24	Brace	2111	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D27	26	Brace	2052,5	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D28	37	Brace	2052,5	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D29	38	Brace	2052,5	CHS60.3X3	CHS60.3X3		3	Yes
Story3	D30	39	Brace	2052,5	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D1	1	Brace	2044,7	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D2	2	Brace	2044,7	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D3	3	Brace	2044,7	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D4	4	Brace	2044,7	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D5	5	Brace	1984,2	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D6	6	Brace	1984,2	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D13	7	Brace	1984,2	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D14	8	Brace	1984,2	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D19	17	Brace	2044,7	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D20	18	Brace	2044,7	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D21	19	Brace	2044,7	CHS60.3X3	CHS60.3X3		3	Yes
Story2	D22	20	Brace	2044,7	CHS60.3X3	CHS60.3X3		3	Yes

3.3 Shell Assignments

Table 3.3 - Shell Assignments - Summary

Story	Label	Unique Name	Section	Spring
Story1	W1	5	Wall30	
Story1	W2	6	Wall30	
Story1	W3	7	Wall30	
Story1	W4	8	Wall30	
Base	F2	3	Slab1	K20000

4 Loads

This chapter provides loading information as applied to the model.

4.1 Load Patterns

Table 4.1 - Load Patterns

Name	Type	Self Weight Multiplier	Auto Load
Dead	Dead	1	
Live	Live	0	
EXSTAT	Seismic	0	EUROCODE8 2004
EYSTAT	Seismic	0	EUROCODE8 2004
Wx	Wind	0	None
Wy	Wind	0	None

4.2 Auto Seismic Loading

EUROCODE8 2004 Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern EXSTAT according to EUROCODE8 2004, as calculated by ETABS.

Direction and Eccentricity

Direction = X

Structural Period

Period Calculation Method = Program Calculated

Coefficient, C_t [EC 4.3.3.2.2]

$$C_t = 0,075m$$

Structure Height Above Base, H

$$H = 8,3 \text{ m}$$

Factors and Coefficients

Country =

Design Ground Acceleration, a_g

$$a_g = 0,360 \text{ g}$$

Ground Type [EC Table 3.1] = B

Soil Factor, S [EC Table 3.2]

$$S = 1,2$$

Constant Acceleration Period Limit, T_B [EC Table 3.2]

$$T_B = 0,15 \text{ sec}$$

Constant Acceleration Period Limit, T_C [EC Table 3.2]

$$T_C = 0,5 \text{ sec}$$

Constant Displacement Period Limit, T_D [EC Table 3.2]

$$T_D = 2 \text{ sec}$$

Lower Bound Factor, β [EC 3.2.2.5(4)]

$$\beta = 0,2$$

Behavior Factor, q [EC 3.2.2.5(3)]

$$q = 1,5$$

Seismic Response

Spectral Response Acceleration, $S_d(T)$ [EC 3.2.2.5(4) Eq. 3.13]

$$S_d(T_1) = a_g S \left[\frac{2}{3} + \frac{T}{T_B} \left(\frac{2.5}{q} - \frac{2}{3} \right) \right] \text{ for } T \leq T_B$$

$$= a_g S \frac{2.5}{q} \text{ for } T_B \leq T \leq T_C$$

$$= a_g S \frac{2.5}{q} \left[\frac{T_C}{T} \right] \geq \beta a_g \text{ for } T_C \leq T \leq T_D$$

$$= a_g S \frac{2.5}{q} \left[\frac{T_C T_D}{T^2} \right] \geq \beta a_g \text{ for } T_D \leq T$$

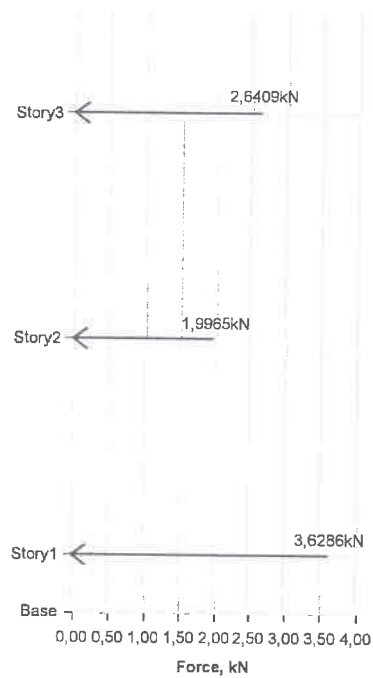
Equivalent Lateral Forces

Seismic Base Shear Coefficient

$$V_{coeff} = S_d(T_1) \lambda$$

Calculated Base Shear

Direction	Period Used (sec)	W (kN)	F _b (kN)
X	0,012	48,0442	8,266

Applied Story Forces*Lateral Load to Stories - X*

Story	Elevation m	X-Dir kN	Y-Dir kN
Story3	8,3	2,6409	0
Story2	4,55	1,9965	0
Story1	0,95	3,6286	0
Base	0	0	0

EUROCODE8 2004 Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern EYSTAT according to EUROCODE8 2004, as calculated by ETABS.

Direction and Eccentricity

Direction = Y

Structural Period

Period Calculation Method = Program Calculated

Coefficient, C_t [EC 4.3.3.2.2]

$C_t = 0,075m$

Structure Height Above Base, H

$H = 8,3 \text{ m}$

Factors and Coefficients

Country =

Design Ground Acceleration, a_g

$a_g = 0,360 \text{ g}$

Ground Type [EC Table 3.1] = B

Soil Factor, S [EC Table 3.2]

$S = 1,2$

Constant Acceleration Period Limit, T_B
[EC Table 3.2]

$T_B = 0,15 \text{ sec}$

Constant Acceleration Period Limit, T_C
[EC Table 3.2]

$T_C = 0,5 \text{ sec}$

Constant Displacement Period Limit, T_D
[EC Table 3.2]

$T_D = 2 \text{ sec}$

Lower Bound Factor, β [EC 3.2.2.5(4)]

$\beta_0 = 0,2$

Behavior Factor, q [EC 3.2.2.5(3)]

$q = 1,5$

Seismic Response

Spectral Response Acceleration, $S_d(T)$
[EC 3.2.2.5(4) Eq. 3.13]

$$S_d(T_1) = a_g S \left[\frac{2}{3} + \frac{T}{T_B} \left(\frac{2.5}{q} - \frac{2}{3} \right) \right] \text{ for } T \leq T_B$$

$$= a_g S \frac{2.5}{q} \text{ for } T_B \leq T \leq T_C$$

$$= a_g S \frac{2.5}{q} \left[\frac{T_C}{T} \right] \geq \beta a_g \text{ for } T_C \leq T \leq T_D$$

$$= a_g S \frac{2.5}{q} \left[\frac{T_C T_D}{T^2} \right] \geq \beta a_g \text{ for } T_D \leq T$$

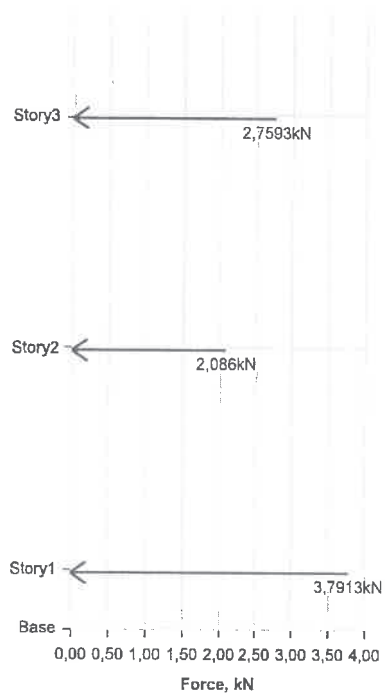
Equivalent Lateral Forces

Seismic Base Shear Coefficient

$$V_{coeff} = S_d(T_1) \lambda$$

Calculated Base Shear

Direction	Period Used (sec)	W (kN)	F _b (kN)
Y	0,017	48,0442	8,6367

Applied Story Forces*Lateral Load to Stories - Y*

Story	Elevation m	X-Dir kN	Y-Dir kN
Story3	8,3	0	2,7593
Story2	4,55	0	2,086
Story1	0,95	0	3,7913
Base	0	0	0

4.3 Applied Loads

4.3.1 Line Loads

Table 4.4 - Frame Loads - Point

Story	Label	Unique Name	Design Type	Load Pattern	Load Type	Direction	Relative Distance	Absolute Distance mm	Force kN
Story3	B9	33	Beam	Dead	Force	Gravity	0,5	835	15
Story3	B9	33	Beam	Live	Force	Gravity	0,5	835	10

Table 4.5 - Frame Loads - Distributed (Part 1 of 2)

Story	Label	Unique Name	Design Type	Load Pattern	LoadType	Direction	Relative Distance Start	Relative Distance End	Absolute Distance Start mm	Absolute Distance End mm
Story3	C1	25	Column	Wx	Force	Global-Y	0	1	0	3750
Story3	C1	25	Column	Wx	Force	Global-X	0	1	0	3750
Story3	C3	27	Column	Wx	Force	Global-X	0	1	0	3750
Story3	C3	27	Column	Wx	Force	Global-Y	0	1	0	3750
Story3	C4	28	Column	Wx	Force	Global-X	0	1	0	3750
Story3	C4	28	Column	Wx	Force	Global-Y	0	1	0	3750
Story3	C8	29	Column	Wx	Force	Global-Y	0	1	0	3750
Story3	C8	29	Column	Wx	Force	Global-X	0	1	0	3750
Story2	C1	44	Column	Wx	Force	Global-Y	0	1	0	3600
Story2	C1	44	Column	Wx	Force	Global-X	0	1	0	3600
Story2	C3	43	Column	Wx	Force	Global-X	0	1	0	3600
Story2	C3	43	Column	Wx	Force	Global-Y	0	1	0	3600
Story2	C4	41	Column	Wx	Force	Global-X	0	1	0	3600
Story2	C4	41	Column	Wx	Force	Global-Y	0	1	0	3600
Story2	C8	42	Column	Wx	Force	Global-Y	0	1	0	3600
Story2	C8	42	Column	Wx	Force	Global-X	0	1	0	3600
Story3	C1	25	Column	Wy	Force	Global-Y	0	1	0	3750
Story3	C1	25	Column	Wy	Force	Global-X	0	1	0	3750
Story3	C3	27	Column	Wy	Force	Global-Y	0	1	0	3750
Story3	C3	27	Column	Wy	Force	Global-X	0	1	0	3750
Story3	C4	28	Column	Wy	Force	Global-Y	0	1	0	3750
Story3	C4	28	Column	Wy	Force	Global-X	0	1	0	3750
Story3	C8	29	Column	Wy	Force	Global-Y	0	1	0	3750
Story3	C8	29	Column	Wy	Force	Global-X	0	1	0	3750
Story2	C1	44	Column	Wy	Force	Global-Y	0	1	0	3600
Story2	C1	44	Column	Wy	Force	Global-X	0	1	0	3600
Story2	C3	43	Column	Wy	Force	Global-Y	0	1	0	3600
Story2	C3	43	Column	Wy	Force	Global-X	0	1	0	3600
Story2	C4	41	Column	Wy	Force	Global-Y	0	1	0	3600
Story2	C4	41	Column	Wy	Force	Global-X	0	1	0	3600
Story2	C8	42	Column	Wy	Force	Global-Y	0	1	0	3600
Story2	C8	42	Column	Wy	Force	Global-X	0	1	0	3600
Story3	B7	31	Beam	Live	Force	Gravity	0	1	0	1670
Story3	B9	33	Beam	Live	Force	Gravity	0	1	0	1670
Story3	B10	34	Beam	Live	Force	Gravity	0	1	0	1670

Table 4.5 - Frame Loads - Distributed (Part 2 of 2)

Story	Label	Unique Name	Force at Start kN/m	Force at End kN/m
Story3	C1	25	0,84	0,84
Story3	C1	25	0,56	0,56
Story3	C3	27	0,56	0,56
Story3	C3	27	-0,84	-0,84
Story3	C4	28	0,42	0,42
Story3	C4	28	-0,84	-0,84
Story3	C8	29	0,84	0,84
Story3	C8	29	0,56	0,56
Story2	C1	44	0,84	0,84
Story2	C1	44	0,56	0,56
Story2	C3	43	0,56	0,56
Story2	C3	43	-0,84	-0,84
Story2	C4	41	0,42	0,42
Story2	C4	41	-0,84	-0,84
Story2	C8	42	0,84	0,84
Story2	C8	42	0,56	0,56
Story3	C1	25	0,42	0,42
Story3	C1	25	-0,84	-0,84
Story3	C3	27	0,56	0,56
Story3	C3	27	-0,84	-0,84
Story3	C4	28	0,56	0,56
Story3	C4	28	0,84	0,84
Story3	C8	29	0,42	0,42
Story3	C8	29	0,84	0,84
Story2	C1	44	0,42	0,42
Story2	C1	44	-0,84	-0,84
Story2	C3	43	0,56	0,56
Story2	C3	43	-0,84	-0,84
Story2	C4	41	0,56	0,56
Story2	C4	41	0,84	0,84
Story2	C8	42	0,42	0,42
Story2	C8	42	0,84	0,84
Story3	B7	31	0,5	0,5
Story3	B9	33	0,5	0,5
Story3	B10	34	1	1

4.4 Load Cases

Table 4.6 - Load Cases - Summary

Name	Type
Dead	Linear Static
Live	Linear Static
EXSTAT	Linear Static
EYSTAT	Linear Static
Wx	Linear Static
Wy	Linear Static

4.5 Load Combinations

Table 4.7 - Load Combinations

Name	Load Case/Combo	Scale Factor	Type	Auto
ULS1	Dead	1,35	Linear Add	No
ULS1	Live	1,5		No
ULS2	Dead	1,35	Linear Add	No
ULS2	Live	1,5		No
ULS2	Wx	0,9		No
ULS2	Wy	0		No
ULS3	Dead	1,35	Linear Add	No
ULS3	Live	1,5		No
ULS3	Wy	0,9		No
ULS3	Wx	0		No
ULS4	Dead	1,35	Linear Add	No
ULS4	Live	0		No
ULS4	Wx	1,5		No
ULS4	Wy	0		No
ULS5	Dead	1,35	Linear Add	No
ULS5	Live	1,05		No
ULS5	Wx	1,5		No
ULS5	Wy	0		No
ULS6	Dead	1,35	Linear Add	No
ULS6	Live	0		No
ULS6	Wx	0		No
ULS6	Wy	1,5		No
ULS7	Dead	1,35	Linear Add	No
ULS7	Live	1,05		No
ULS7	Wx	0		No
ULS7	Wy	1,5		No
ULS8	Dead	1	Linear Add	No
ULS8	Live	1,5		No
ULS8	Wx	0		No
ULS8	Wy	0		No
ULS9	Dead	1	Linear Add	No
ULS9	Live	1,5		No
ULS9	Wx	0,9		No
ULS9	Wy	0		No
ULS10	Dead	1	Linear Add	No
ULS10	Live	1,5		No
ULS10	Wx	0		No
ULS10	Wy	0,9		No
ULS11	Dead	1	Linear Add	No
ULS11	Live	0		No
ULS11	Wx	1,5		No
ULS11	Wy	0		No
ULS12	Dead	1	Linear Add	No
ULS12	Live	1,05		No
ULS12	Wx	1,5		No
ULS12	Dead	0		No
ULS13	Dead	1	Linear Add	No
ULS13	Live	0		No

Table 4.7 - Load Combinations (continued)

Name	Load Case/Combo	Scale Factor	Type	Auto
ULS13	Wx	0		No
ULS13	Wy	1,5		No
ULS14	Dead	1	Linear Add	No
ULS14	Live	1,05		No
ULS14	Wx	0		No
ULS14	Wy	1,5		No
SLS1	Dead	1	Linear Add	No
SLS1	Live	1		No
SLS2	Dead	1	Linear Add	No
SLS2	Live	1		No
SLS2	Wx	0,6		No
SLS2	Wy	0		No
SLS3	Dead	1	Linear Add	No
SLS3	Live	1		No
SLS3	Wx	0		No
SLS3	Wy	0,6		No
SLS4	Dead	1	Linear Add	No
SLS4	Live	0		No
SLS4	Wx	1		No
SLS4	Wy	0		No
SLS5	Dead	1	Linear Add	No
SLS5	Live	0,7		No
SLS5	Wx	1		No
SLS5	Wy	0		No
SLS6	Dead	1	Linear Add	No
SLS6	Live	0		No
SLS6	Wx	0		No
SLS6	Wy	1		No
SLS7	Dead	1	Linear Add	No
SLS7	Live	0,7		No
SLS7	Wx	0		No
SLS7	Wy	1		No
ACC1	Dead	1	Linear Add	No
ACC1	Live	0,6		No
ACC1	EXSTAT	1		No
ACC1	EYSTAT	0,3		No
ACC2	Dead	1	Linear Add	No
ACC2	Live	0,6		No
ACC2	EXSTAT	1		No
ACC2	EYSTAT	-0,3		No
ACC3	Dead	1	Linear Add	No
ACC3	Live	0,6		No
ACC3	EXSTAT	-1		No
ACC3	EYSTAT	0,3		No
ACC4	Dead	1	Linear Add	No
ACC4	Live	0,6		No
ACC4	EXSTAT	-1		No
ACC4	EYSTAT	-0,3		No
ACC5	Dead	1	Linear Add	No

Table 4.7 - Load Combinations (continued)

Name	Load Case/Combo	Scale Factor	Type	Auto
ACC5	Live	0,6		No
ACC5	EXSTAT	0,3		No
ACC5	EYSTAT	1		No
ACC6	Dead	1	Linear Add	No
ACC6	Live	0,6		No
ACC6	EXSTAT	-0,3		No
ACC6	EYSTAT	1		No
ACC7	Dead	1	Linear Add	No
ACC7	Live	0,6		No
ACC7	EXSTAT	0,3		No
ACC7	EYSTAT	-1		No
ACC8	Dead	1	Linear Add	No
ACC8	Live	0,6		No
ACC8	EXSTAT	-0,3		No
ACC8	EYSTAT	-1		No
ENV	ULS1	1	Envelope	No
ENV	ULS2	1		No
ENV	ULS3	1		No

5 Analysis Results

This chapter provides analysis results.

5.1 Structure Results

Table 5.1 - Base Reactions

Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m	X m	Y m	Z m
Dead	0	0	100,1924	83,6607	-81,9856	0	0	0	0
Live	0	0	13,34	11,1389	-3,2398	0	0	0	0
EXSTAT	-8,266	0	0	0	-32,6986	6,9021	0	0	0
EYSTAT	0	-8,6367	0	34,1648	0	-8,0188	0	0	0
Wx	-15,435	0	0	0	-71,3869	13,7474	0	0	0
Wy	0	-14,406	0	66,6278	0	-13,9738	0	0	0
ULS1	0	0	155,2697	129,6502	-115,5402	0	0	0	0
ULS2	-13,8915	0	155,2697	129,6502	-179,7884	12,3727	0	0	0
ULS3	0	-12,9654	155,2697	189,6152	-115,5402	-12,5764	0	0	0
ULS4	-23,1525	0	135,2597	112,9419	-217,7608	20,6212	0	0	0
ULS5	-23,1525	0	149,2667	124,6377	-221,1626	20,6212	0	0	0
ULS6	0	-21,609	135,2597	212,8835	-110,6805	-20,9607	0	0	0
ULS7	0	-21,609	149,2667	224,5794	-114,0823	-20,9607	0	0	0
ULS8	0	0	120,2024	100,369	-86,8453	0	0	0	0
ULS9	-13,8915	0	120,2024	100,369	-151,0934	12,3727	0	0	0
ULS10	0	-12,9654	120,2024	160,334	-86,8453	-12,5764	0	0	0
ULS11	-23,1525	0	100,1924	83,6607	-189,0659	20,6212	0	0	0
ULS12	-23,1525	0	114,1994	95,3565	-192,4677	20,6212	0	0	0
ULS13	0	-21,609	100,1924	183,6023	-81,9856	-20,9607	0	0	0
ULS14	0	-21,609	114,1994	195,2981	-85,3873	-20,9607	0	0	0
SLS1	0	0	113,5324	94,7996	-85,2254	0	0	0	0
SLS2	-9,261	0	113,5324	94,7996	-128,0575	8,2485	0	0	0
SLS3	0	-8,6436	113,5324	134,7762	-85,2254	-8,3843	0	0	0
SLS4	-15,435	0	100,1924	83,6607	-153,3724	13,7474	0	0	0
SLS5	-15,435	0	109,5304	91,4579	-155,6403	13,7474	0	0	0
SLS6	0	-14,406	100,1924	150,2884	-81,9856	-13,9738	0	0	0
SLS7	0	-14,406	109,5304	158,0856	-84,2534	-13,9738	0	0	0
ACC1	-8,266	-2,591	108,1964	100,5934	-116,628	4,4965	0	0	0
ACC2	-8,266	2,591	108,1964	80,0945	-116,628	9,3078	0	0	0
ACC3	8,266	-2,591	108,1964	100,5934	-51,2309	-9,3078	0	0	0
ACC4	8,266	2,591	108,1964	80,0945	-51,2309	-4,4965	0	0	0
ACC5	-2,4798	-8,6367	108,1964	124,5088	-93,739	-5,9481	0	0	0
ACC6	2,4798	-8,6367	108,1964	124,5088	-74,1199	-10,0894	0	0	0
ACC7	-2,4798	8,6367	108,1964	56,1792	-93,739	10,0894	0	0	0
ACC8	2,4798	8,6367	108,1964	56,1792	-74,1199	5,9481	0	0	0
ENV Max	0	0	155,2697	189,6152	-115,5402	12,3727	0	0	0
ENV Min	-13,8915	-12,9654	155,2697	129,6502	-179,7884	-12,5764	0	0	0

5.2 Story Results

Table 5.2 - Story Drifts

Story	Load Case/Combo	Direction	Drift	Label	X m	Y m	Z m
Story3	Dead	X	3,762E-07	2	0	0	8,3
Story3	Live	X	2,852E-07	2	0	0	8,3
Story3	EXSTAT	X	1,663E-07	2	0	0	8,3
Story3	EYSTAT	Y	0,000871	2	0	0	8,3
Story3	Wx	X	2E-06	7	0	1,67	8,3
Story3	Wy	Y	0,001515	7	0	1,67	8,3
Story3	ULS1	X	1E-06	2	0	0	8,3
Story3	ULS2	X	3E-06	7	0	1,67	8,3
Story3	ULS3	Y	0,001364	2	0	0	8,3
Story3	ULS4	X	4E-06	7	0	1,67	8,3
Story3	ULS5	X	4E-06	7	0	1,67	8,3
Story3	ULS6	Y	0,002272	2	0	0	8,3
Story3	ULS7	Y	0,002273	2	0	0	8,3
Story3	ULS8	X	1E-06	2	0	0	8,3
Story3	ULS9	X	3E-06	7	0	1,67	8,3
Story3	ULS10	Y	0,001364	2	0	0	8,3
Story3	ULS11	X	4E-06	7	0	1,67	8,3
Story3	ULS12	X	4E-06	7	0	1,67	8,3
Story3	ULS13	Y	0,002272	2	0	0	8,3
Story3	ULS14	Y	0,002272	2	0	0	8,3
Story3	SLS1	X	1E-06	2	0	0	8,3
Story3	SLS2	X	2E-06	7	0	1,67	8,3
Story3	SLS3	Y	0,000909	2	0	0	8,3
Story3	SLS4	X	3E-06	7	0	1,67	8,3
Story3	SLS5	X	3E-06	7	0	1,67	8,3
Story3	SLS6	Y	0,001515	2	0	0	8,3
Story3	SLS7	Y	0,001515	2	0	0	8,3
Story3	ACC1	Y	0,000262	2	0	0	8,3
Story3	ACC2	Y	0,000262	7	0	1,67	8,3
Story3	ACC3	Y	0,000262	2	0	0	8,3
Story3	ACC4	Y	0,000262	7	0	1,67	8,3
Story3	ACC5	Y	0,000872	2	0	0	8,3
Story3	ACC6	Y	0,000872	2	0	0	8,3
Story3	ACC7	Y	0,000872	7	0	1,67	8,3
Story3	ACC8	Y	0,000872	7	0	1,67	8,3
Story3	ENV Max	Y	0,001364	2	0	0	8,3
Story3	ENV Min	X	3E-06	7	0	1,67	8,3
Story3	ENV Min	Y	2E-06	7	0	1,67	8,3
Story2	Dead	X	3E-06	7	0	1,67	4,55
Story2	Live	X	2E-06	8	1,94	1,67	4,55
Story2	EXSTAT	X	1E-06	6	1,94	0	4,55
Story2	EYSTAT	Y	0,000882	2	0	0	4,55
Story2	Wx	X	2E-06	2	0	0	4,55
Story2	Wx	Y	2E-06	2	0	0	4,55
Story2	Wy	Y	0,001611	2	0	0	4,55
Story2	ULS1	X	6E-06	8	1,94	1,67	4,55
Story2	ULS2	X	8E-06	2	0	0	4,55
Story2	ULS3	Y	0,001451	7	0	1,67	4,55
Story2	ULS4	X	6E-06	2	0	0	4,55

Table 5.2 - Story Drifts (continued)

Story	Load Case/Combo	Direction	Drift	Label	X m	Y m	Z m
Story2	ULS5	X	8E-06	2	0	0	4,55
Story2	ULS6	Y	0,002417	7	0	1,67	4,55
Story2	ULS7	Y	0,002417	7	0	1,67	4,55
Story2	ULS8	X	5E-06	8	1,94	1,67	4,55
Story2	ULS9	X	7E-06	2	0	0	4,55
Story2	ULS10	Y	0,001451	7	0	1,67	4,55
Story2	ULS11	X	5E-06	2	0	0	4,55
Story2	ULS12	X	7E-06	2	0	0	4,55
Story2	ULS13	Y	0,002417	7	0	1,67	4,55
Story2	ULS14	Y	0,002417	7	0	1,67	4,55
Story2	SLS1	X	4E-06	8	1,94	1,67	4,55
Story2	SLS2	X	5E-06	2	0	0	4,55
Story2	SLS3	Y	0,000967	7	0	1,67	4,55
Story2	SLS4	X	5E-06	2	0	0	4,55
Story2	SLS5	X	6E-06	2	0	0	4,55
Story2	SLS6	Y	0,001611	7	0	1,67	4,55
Story2	SLS7	Y	0,001611	7	0	1,67	4,55
Story2	ACC1	Y	0,000265	7	0	1,67	4,55
Story2	ACC2	Y	0,000265	2	0	0	4,55
Story2	ACC3	Y	0,000265	7	0	1,67	4,55
Story2	ACC4	Y	0,000265	2	0	0	4,55
Story2	ACC5	Y	0,000883	7	0	1,67	4,55
Story2	ACC6	Y	0,000883	7	0	1,67	4,55
Story2	ACC7	Y	0,000883	2	0	0	4,55
Story2	ACC8	Y	0,000883	2	0	0	4,55
Story2	ENV Max	Y	0,001451	7	0	1,67	4,55
Story2	ENV Min	Y	0,000336	8	1,94	1,67	4,55
Story1	Dead	X	1,3E-05	7	0	1,67	0,95
Story1	Live	X	7E-06	7	0	1,67	0,95
Story1	EXSTAT	X	5E-06	2	0	0	0,95
Story1	EYSTAT	Y	0,000801	2	0	0	0,95
Story1	Wx	X	6E-06	8	1,94	1,67	0,95
Story1	Wy	Y	0,001432	2	0	0	0,95
Story1	ULS1	X	2,8E-05	7	0	1,67	0,95
Story1	ULS2	X	2,3E-05	2	0	0	0,95
Story1	ULS3	Y	0,001291	7	0	1,67	0,95
Story1	ULS4	X	8E-06	2	0	0	0,95
Story1	ULS5	X	1,6E-05	2	0	0	0,95
Story1	ULS6	Y	0,002149	7	0	1,67	0,95
Story1	ULS7	Y	0,00215	7	0	1,67	0,95
Story1	ULS8	X	2,4E-05	7	0	1,67	0,95
Story1	ULS9	X	1,9E-05	2	0	0	0,95
Story1	ULS10	Y	0,001291	7	0	1,67	0,95
Story1	ULS11	X	4E-06	2	0	0	0,95
Story1	ULS12	X	1,2E-05	2	0	0	0,95
Story1	ULS13	Y	0,002149	7	0	1,67	0,95
Story1	ULS14	Y	0,002149	7	0	1,67	0,95
Story1	SLS1	X	2E-05	7	0	1,67	0,95
Story1	SLS2	X	1,7E-05	2	0	0	0,95

Table 5.2 - Story Drifts (continued)

Story	Load Case/Combo	Direction	Drift	Label	X m	Y m	Z m
Story1	SLS3	Y	0,000861	7	0	1,67	0,95
Story1	SLS4	X	7E-06	2	0	0	0,95
Story1	SLS5	X	1,2E-05	2	0	0	0,95
Story1	SLS6	Y	0,001433	7	0	1,67	0,95
Story1	SLS7	Y	0,001433	7	0	1,67	0,95
Story1	ACC1	Y	0,000242	7	0	1,67	0,95
Story1	ACC2	Y	0,000242	2	0	0	0,95
Story1	ACC3	Y	0,000242	7	0	1,67	0,95
Story1	ACC4	Y	0,000242	2	0	0	0,95
Story1	ACC5	Y	0,000803	7	0	1,67	0,95
Story1	ACC6	Y	0,000803	7	0	1,67	0,95
Story1	ACC7	Y	0,000803	2	0	0	0,95
Story1	ACC8	Y	0,000803	2	0	0	0,95
Story1	ENV Max	Y	0,001291	7	0	1,67	0,95
Story1	ENV Min	X	3,8E-05	7	0	1,67	0,95

Table 5.3 - Story Max/Avg Drifts

Story	Load Case/Combo	Direction	Max Drift mm	Avg Drift mm	Ratio
Story3	Dead	X	0,001	0,001	2
Story3	Live	X	0,001	0,001	2
Story3	EXSTAT	X	0,001	0,0003118	2
Story3	EYSTAT	Y	3,268	1,634	2
Story3	Wx	X	0,008	0,004	2
Story3	Wy	Y	5,68	2,84	2
Story3	ULS1	X	0,004	0,002	2
Story3	ULS2	X	0,011	0,005	2
Story3	ULS3	Y	5,115	2,558	2
Story3	ULS4	X	0,014	0,007	2
Story3	ULS5	X	0,015	0,008	2
Story3	ULS6	Y	8,521	4,261	2
Story3	ULS7	Y	8,522	4,261	2
Story3	ULS8	X	0,003	0,002	2
Story3	ULS9	X	0,01	0,005	2
Story3	ULS10	Y	5,114	2,557	2
Story3	ULS11	X	0,014	0,007	2
Story3	ULS12	X	0,015	0,007	2
Story3	ULS13	Y	8,521	4,26	2
Story3	ULS14	Y	8,522	4,261	2
Story3	SLS1	X	0,002	0,001	2
Story3	SLS2	X	0,007	0,004	2
Story3	SLS3	Y	3,41	1,705	2
Story3	SLS4	X	0,01	0,005	2
Story3	SLS5	X	0,01	0,005	2
Story3	SLS6	Y	5,681	2,84	2
Story3	SLS7	Y	5,682	2,841	2
Story3	ACC1	Y	0,983	0,491	2
Story3	ACC2	Y	0,983	0,491	2

Table 5.3 - Story Max/Avg Drifts (continued)

Story	Load Case/Combo	Direction	Max Drift mm	Avg Drift mm	Ratio
Story3	ACC3	Y	0,982	0,491	2
Story3	ACC4	Y	0,982	0,491	2
Story3	ACC5	Y	3,27	1,635	2
Story3	ACC6	Y	3,27	1,635	2
Story3	ACC7	Y	3,27	1,635	2
Story3	ACC8	Y	3,27	1,635	2
Story3	ENV Max	Y	5,115	2,558	2
Story3	ENV Min	X	0,011	0,005	2
Story3	ENV Min	Y	0,009	0,003	3,384
Story2	Dead	X	0,01	0,009	1,007
Story2	Live	X	0,006	0,006	1,05
Story2	EXSTAT	X	0,005	0,003	1,431
Story2	EYSTAT	Y	3,177	1,212	2,621
Story2	Wx	X	0,007	0,001	12,748
Story2	Wx	Y	0,008	0,0001304	58,786
Story2	Wy	Y	5,801	2,23	2,602
Story2	ULS1	X	0,022	0,021	1,016
Story2	ULS2	X	0,027	0,022	1,239
Story2	ULS3	Y	5,222	2,007	2,603
Story2	ULS4	X	0,023	0,014	1,694
Story2	ULS5	X	0,029	0,02	1,463
Story2	ULS6	Y	8,701	3,344	2,602
Story2	ULS7	Y	8,702	3,344	2,602
Story2	ULS8	X	0,019	0,018	1,02
Story2	ULS9	X	0,024	0,019	1,28
Story2	ULS10	Y	5,222	2,007	2,602
Story2	ULS11	X	0,02	0,01	1,916
Story2	ULS12	X	0,025	0,016	1,555
Story2	ULS13	Y	8,7	3,343	2,602
Story2	ULS14	Y	8,701	3,344	2,602
Story2	SLS1	X	0,015	0,015	1,014
Story2	SLS2	X	0,019	0,016	1,225
Story2	SLS3	Y	3,482	1,338	2,603
Story2	SLS4	X	0,016	0,01	1,629
Story2	SLS5	X	0,02	0,014	1,432
Story2	SLS6	Y	5,8	2,229	2,602
Story2	SLS7	Y	5,801	2,229	2,602
Story2	ACC1	Y	0,955	0,364	2,623
Story2	ACC2	Y	0,955	0,364	2,623
Story2	ACC3	Y	0,955	0,364	2,623
Story2	ACC4	Y	0,955	0,364	2,623
Story2	ACC5	Y	3,178	1,213	2,621
Story2	ACC6	Y	3,178	1,213	2,621
Story2	ACC7	Y	3,178	1,213	2,621
Story2	ACC8	Y	3,178	1,213	2,621
Story2	ENV Max	Y	5,222	2,61	2,001
Story2	ENV Min	Y	1,209	0,603	2,005
Story1	Dead	X	0,012	0,011	1,119

Table 5.3 - Story Max/Avg Drifts (continued)

Story	Load Case/Combo	Direction	Max Drift mm	Avg Drift mm	Ratio
Story1	Live	X	0,007	0,007	1,077
Story1	EXSTAT	X	0,005	0,005	1
Story1	EYSTAT	Y	0,761	0,757	1,006
Story1	Wx	X	0,006	0,006	1,015
Story1	Wy	Y	1,36	1,351	1,007
Story1	ULS1	X	0,027	0,024	1,102
Story1	ULS2	X	0,022	0,019	1,132
Story1	ULS3	Y	1,226	1,216	1,008
Story1	ULS4	X	0,008	0,006	1,305
Story1	ULS5	X	0,015	0,013	1,182
Story1	ULS6	Y	2,042	2,027	1,008
Story1	ULS7	Y	2,042	2,027	1,008
Story1	ULS8	X	0,023	0,021	1,099
Story1	ULS9	X	0,018	0,015	1,135
Story1	ULS10	Y	1,226	1,216	1,008
Story1	ULS11	X	0,004	0,002	1,614
Story1	ULS12	X	0,011	0,009	1,208
Story1	ULS13	Y	2,042	2,027	1,007
Story1	ULS14	Y	2,042	2,027	1,008
Story1	SLS1	X	0,019	0,017	1,103
Story1	SLS2	X	0,016	0,014	1,131
Story1	SLS3	Y	0,818	0,811	1,009
Story1	SLS4	X	0,006	0,005	1,266
Story1	SLS5	X	0,011	0,01	1,175
Story1	SLS6	Y	1,361	1,351	1,008
Story1	SLS7	Y	1,362	1,351	1,008
Story1	ACC1	Y	0,23	0,227	1,011
Story1	ACC2	Y	0,23	0,227	1,011
Story1	ACC3	Y	0,23	0,227	1,011
Story1	ACC4	Y	0,23	0,227	1,011
Story1	ACC5	Y	0,763	0,757	1,007
Story1	ACC6	Y	0,763	0,757	1,007
Story1	ACC7	Y	0,763	0,757	1,007
Story1	ACC8	Y	0,763	0,757	1,007
Story1	ENV Max	Y	1,226	1,216	1,008
Story1	ENV Min	X	0,036	0,029	1,243

Table 5.4 - Story Forces

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story3	Dead	Top	16,2299	-2,1532	0	1,7979	13,552	-1,1931
Story3	Dead	Bottom	19,9288	-2,1532	0	1,7979	16,6406	-12,5243
Story3	Live	Top	13,34	-1,3897	0	1,1604	11,1389	-3,2398
Story3	Live	Bottom	13,34	-1,3897	0	1,1604	11,1389	-8,4512
Story3	EXSTAT	Top	0	0,2156	0	-0,18	0	0
Story3	EXSTAT	Bottom	0	0,0807	0	-0,0674	0	0,5555
Story3	EYSTAT	Top	0	0	-1,2092	1,2111	0	0
Story3	EYSTAT	Bottom	0	0	-1,3501	1,2111	4,7987	0

Table 5.4 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story3	Wx	Top	0	3,2384	-7,669E-06	-2,8844	0	0
Story3	Wx	Bottom	0	-4,6366	-7,669E-06	4,1296	2,876E-05	-2,6215
Story3	Wy	Top	0	-0,1496	1,6326	4,8011	0	0
Story3	Wy	Bottom	0	-0,1496	-5,7174	-2,3284	7,6592	-0,561
Story3	ULS1	Top	41,9204	-4,9913	0	4,1678	35,0036	-6,4703
Story3	ULS1	Bottom	46,9139	-4,9913	0	4,1678	39,1731	-29,5846
Story3	ULS2	Top	41,9204	-2,0768	-6,902E-06	1,5718	35,0036	-6,4703
Story3	ULS2	Bottom	46,9139	-9,1643	-6,902E-06	7,8844	39,1731	-31,944
Story3	ULS3	Top	41,9204	-5,126	1,4693	8,4888	35,0036	-6,4703
Story3	ULS3	Bottom	46,9139	-5,126	-5,1457	2,0722	46,0664	-30,0895
Story3	ULS4	Top	21,9104	1,9509	-1,15E-05	-1,8994	18,2952	-1,6106
Story3	ULS4	Bottom	26,9039	-9,8616	-1,15E-05	8,6216	22,4648	-20,8401
Story3	ULS5	Top	35,9174	0,4917	-1,15E-05	-0,681	29,9911	-5,0124
Story3	ULS5	Bottom	40,9109	-11,3208	-1,15E-05	9,84	34,1606	-29,7139
Story3	ULS6	Top	21,9104	-3,1312	2,4488	9,6288	18,2952	-1,6106
Story3	ULS6	Bottom	26,9039	-3,1312	-8,5762	-1,0654	33,9535	-17,7494
Story3	ULS7	Top	35,9174	-4,5904	2,4488	10,8473	29,9911	-5,0124
Story3	ULS7	Bottom	40,9109	-4,5904	-8,5762	0,153	45,6493	-26,6231
Story3	ULS8	Top	36,2399	-4,2377	0	3,5385	30,2604	-6,0528
Story3	ULS8	Bottom	39,9388	-4,2377	0	3,5385	33,3489	-25,2011
Story3	ULS9	Top	36,2399	-1,3231	-6,902E-06	0,9426	30,2604	-6,0528
Story3	ULS9	Bottom	39,9388	-8,4106	-6,902E-06	7,2552	33,3489	-27,5605
Story3	ULS10	Top	36,2399	-4,3724	1,4693	7,8595	30,2604	-6,0528
Story3	ULS10	Bottom	39,9388	-4,3724	-5,1457	1,443	40,2422	-25,706
Story3	ULS11	Top	16,2299	2,7045	-1,15E-05	-2,5287	13,552	-1,1931
Story3	ULS11	Bottom	19,9288	-9,108	-1,15E-05	7,9923	16,6406	-16,4566
Story3	ULS12	Top	30,2369	1,2453	-1,15E-05	-1,3102	25,2479	-4,5948
Story3	ULS12	Bottom	33,9358	-10,5672	-1,15E-05	9,2108	28,3365	-25,3303
Story3	ULS13	Top	16,2299	-2,3776	2,4488	8,9996	13,552	-1,1931
Story3	ULS13	Bottom	19,9288	-2,3776	-8,5762	-1,6947	28,1293	-13,3659
Story3	ULS14	Top	30,2369	-3,8368	2,4488	10,218	25,2479	-4,5948
Story3	ULS14	Bottom	33,9358	-3,8368	-8,5762	-0,4763	39,8251	-22,2396
Story3	SLS1	Top	29,5699	-3,5429	0	2,9583	24,6909	-4,4329
Story3	SLS1	Bottom	33,2688	-3,5429	0	2,9583	27,7795	-20,9755
Story3	SLS2	Top	29,5699	-1,5998	-4,601E-06	1,2277	24,6909	-4,4329
Story3	SLS2	Bottom	33,2688	-6,3248	-4,601E-06	5,4361	27,7795	-22,5484
Story3	SLS3	Top	29,5699	-3,6326	0,9795	5,839	24,6909	-4,4329
Story3	SLS3	Bottom	33,2688	-3,6326	-3,4305	1,5613	32,375	-21,3121
Story3	SLS4	Top	16,2299	1,0853	-7,669E-06	-1,0865	13,552	-1,1931
Story3	SLS4	Bottom	19,9288	-6,7897	-7,669E-06	5,9275	16,6406	-15,1458
Story3	SLS5	Top	25,5679	0,1125	-7,669E-06	-0,2742	21,3492	-3,4609
Story3	SLS5	Bottom	29,2668	-7,7625	-7,669E-06	6,7398	24,4378	-21,0617
Story3	SLS6	Top	16,2299	-2,3028	1,6326	6,599	13,552	-1,1931
Story3	SLS6	Bottom	19,9288	-2,3028	-5,7174	-0,5305	24,2997	-13,0853
Story3	SLS7	Top	25,5679	-3,2756	1,6326	7,4113	21,3492	-3,4609
Story3	SLS7	Bottom	29,2668	-3,2756	-5,7174	0,2818	32,097	-19,0012
Story3	ACC1	Top	24,2339	-2,7714	-0,3627	2,6775	20,2353	-3,1369
Story3	ACC1	Bottom	27,9328	-2,9063	-0,405	2,7901	24,7635	-17,0396
Story3	ACC2	Top	24,2339	-2,7714	0,3627	1,9508	20,2353	-3,1369

Table 5.4 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story3	ACC2	Bottom	27,9328	-2,9063	0,405	2,0634	21,8843	-17,0396
Story3	ACC3	Top	24,2339	-3,2026	-0,3627	3,0375	20,2353	-3,1369
Story3	ACC3	Bottom	27,9328	-3,0677	-0,405	2,9248	24,7635	-18,1505
Story3	ACC4	Top	24,2339	-3,2026	0,3627	2,3108	20,2353	-3,1369
Story3	ACC4	Bottom	27,9328	-3,0677	0,405	2,1982	21,8843	-18,1505
Story3	ACC5	Top	24,2339	-2,9223	-1,2092	3,6513	20,2353	-3,1369
Story3	ACC5	Bottom	27,9328	-2,9628	-1,3501	3,6851	28,1226	-17,4284
Story3	ACC6	Top	24,2339	-3,0517	-1,2092	3,7593	20,2353	-3,1369
Story3	ACC6	Bottom	27,9328	-3,0112	-1,3501	3,7255	28,1226	-17,7617
Story3	ACC7	Top	24,2339	-2,9223	1,2092	1,229	20,2353	-3,1369
Story3	ACC7	Bottom	27,9328	-2,9628	1,3501	1,2628	18,5252	-17,4284
Story3	ACC8	Top	24,2339	-3,0517	1,2092	1,337	20,2353	-3,1369
Story3	ACC8	Bottom	27,9328	-3,0112	1,3501	1,3032	18,5252	-17,7617
Story3	ENV Max	Top	41,9204	-2,0768	1,4693	8,4888	35,0036	-6,4703
Story3	ENV Max	Bottom	46,9139	-4,9913	0	7,8844	46,0664	-29,5846
Story3	ENV Min	Top	41,9204	-5,126	-6,902E-06	1,5718	35,0036	-6,4703
Story3	ENV Min	Bottom	46,9139	-9,1643	-5,1457	2,0722	39,1731	-31,944
Story2	Dead	Top	20,9145	-1,4905	0	1,2446	17,4636	-13,4804
Story2	Dead	Bottom	24,4738	-1,4905	0	1,2446	20,4356	-21,9787
Story2	Live	Top	13,34	-0,9395	0	0,7844	11,1389	-8,4512
Story2	Live	Bottom	13,34	-0,9395	0	0,7844	11,1389	-11,8332
Story2	EXSTAT	Top	0	0,4933	0	-0,4119	0	0,5555
Story2	EXSTAT	Bottom	0	0,2744	0	-0,2292	0	1,9374
Story2	EYSTAT	Top	0	0	-2,2168	1,1697	4,7987	0
Story2	EYSTAT	Bottom	0	0	-2,4455	1,0203	13,1909	0
Story2	Wx	Top	0	5,1078	-7,049E-07	-4,5319	2,876E-05	-2,6215
Story2	Wx	Bottom	0	-2,4522	-7,049E-07	2,2015	3,13E-05	2,1584
Story2	Wy	Top	0	0,1306	-1,0984	6,1971	7,6592	-0,561
Story2	Wy	Bottom	0	0,1306	-8,1544	-0,6472	24,3143	-0,0907
Story2	ULS1	Top	48,2446	-3,4214	0	2,8569	40,2843	-30,8754
Story2	ULS1	Bottom	53,0496	-3,4214	0	2,8569	44,2964	-47,4212
Story2	ULS2	Top	48,2446	1,1756	-6,344E-07	-1,2219	40,2843	-33,2348
Story2	ULS2	Bottom	53,0496	-5,6284	-6,344E-07	4,8382	44,2964	-45,4786
Story2	ULS3	Top	48,2446	-3,3038	-0,9886	8,4342	47,1775	-31,3803
Story2	ULS3	Bottom	53,0496	-3,3038	-7,339	2,2744	66,1792	-47,5028
Story2	ULS4	Top	28,2346	5,6494	-1,057E-06	-5,1177	23,5759	-22,1309
Story2	ULS4	Bottom	33,0396	-5,6906	-1,057E-06	4,9825	27,5881	-26,4337
Story2	ULS5	Top	42,2416	4,663	-1,057E-06	-4,294	35,2718	-31,0046
Story2	ULS5	Bottom	47,0466	-6,677	-1,057E-06	5,8061	39,2839	-38,8586
Story2	ULS6	Top	28,2346	-1,8162	-1,6476	10,9758	35,0646	-19,0402
Story2	ULS6	Bottom	33,0396	-1,8162	-12,2316	0,7094	64,0594	-29,8074
Story2	ULS7	Top	42,2416	-2,8027	-1,6476	11,7995	46,7605	-27,9139
Story2	ULS7	Bottom	47,0466	-2,8027	-12,2316	1,533	75,7553	-42,2323
Story2	ULS8	Top	40,9245	-2,8997	0	2,4213	34,172	-26,1572
Story2	ULS8	Bottom	44,4838	-2,8997	0	2,4213	37,1439	-39,7286
Story2	ULS9	Top	40,9245	1,6973	-6,344E-07	-1,6575	34,172	-28,5166
Story2	ULS9	Bottom	44,4838	-5,1067	-6,344E-07	4,4026	37,144	-37,786
Story2	ULS10	Top	40,9245	-2,7821	-0,9886	7,9986	41,0652	-26,6622
Story2	ULS10	Bottom	44,4838	-2,7821	-7,339	1,8388	59,0268	-39,8102

Table 5.4 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story2	ULS11	Top	20,9145	6,1711	-1,057E-06	-5,5533	17,4637	-17,4127
Story2	ULS11	Bottom	24,4738	-5,1689	-1,057E-06	4,5468	20,4356	-18,7411
Story2	ULS12	Top	34,9215	5,1847	-1,057E-06	-4,7296	29,1595	-26,2865
Story2	ULS12	Bottom	38,4808	-6,1553	-1,057E-06	5,3705	32,1315	-31,166
Story2	ULS13	Top	20,9145	-1,2946	-1,6476	10,5402	28,9524	-14,322
Story2	ULS13	Bottom	24,4738	-1,2946	-12,2316	0,2738	56,907	-22,1148
Story2	ULS14	Top	34,9215	-2,281	-1,6476	11,3639	40,6482	-23,1957
Story2	ULS14	Bottom	38,4808	-2,281	-12,2316	1,0974	68,6028	-34,5397
Story2	SLS1	Top	34,2545	-2,43	0	2,029	28,6025	-21,9316
Story2	SLS1	Bottom	37,8138	-2,43	0	2,029	31,5745	-33,812
Story2	SLS2	Top	34,2545	0,6347	0	-0,6901	28,6026	-23,5046
Story2	SLS2	Bottom	37,8138	-3,9013	0	3,3499	31,5745	-32,5169
Story2	SLS3	Top	34,2545	-2,3516	-0,6591	5,7473	33,198	-22,2683
Story2	SLS3	Bottom	37,8138	-2,3516	-4,8927	1,6407	46,1631	-33,8664
Story2	SLS4	Top	20,9145	3,6172	-7,049E-07	-3,2873	17,4637	-16,102
Story2	SLS4	Bottom	24,4738	-3,9428	-7,049E-07	3,4461	20,4356	-19,8203
Story2	SLS5	Top	30,2525	2,9596	-7,049E-07	-2,7382	25,2609	-22,0178
Story2	SLS5	Bottom	33,8118	-4,6004	-7,049E-07	3,9952	28,2329	-28,1036
Story2	SLS6	Top	20,9145	-1,3599	-1,0984	7,4417	25,1228	-14,0415
Story2	SLS6	Bottom	24,4738	-1,3599	-8,1544	0,5974	44,7499	-22,0695
Story2	SLS7	Top	30,2525	-2,0175	-1,0984	7,9908	32,92	-19,9573
Story2	SLS7	Bottom	33,8118	-2,0175	-8,1544	1,1465	52,5471	-30,3527
Story2	ACC1	Top	28,9185	-1,5609	-0,665	1,6542	25,5866	-17,9957
Story2	ACC1	Bottom	32,4778	-1,7797	-0,7336	1,7922	31,0762	-27,1413
Story2	ACC2	Top	28,9185	-1,5609	0,665	0,9524	22,7074	-17,9957
Story2	ACC2	Bottom	32,4778	-1,7797	0,7336	1,18	23,1617	-27,1413
Story2	ACC3	Top	28,9185	-2,5475	-0,665	2,4781	25,5866	-19,1066
Story2	ACC3	Bottom	32,4778	-2,3286	-0,7336	2,2505	31,0762	-31,0161
Story2	ACC4	Top	28,9185	-2,5475	0,665	1,7763	22,7074	-19,1066
Story2	ACC4	Bottom	32,4778	-2,3286	0,7336	1,6383	23,1617	-31,0161
Story2	ACC5	Top	28,9185	-1,9062	-2,2168	2,7613	28,9456	-18,3845
Story2	ACC5	Bottom	32,4778	-1,9719	-2,4455	2,6668	40,3098	-28,4975
Story2	ACC6	Top	28,9185	-2,2022	-2,2168	3,0085	28,9456	-18,7178
Story2	ACC6	Bottom	32,4778	-2,1365	-2,4455	2,8043	40,3098	-29,6599
Story2	ACC7	Top	28,9185	-1,9062	2,2168	0,422	19,3483	-18,3845
Story2	ACC7	Bottom	32,4778	-1,9719	2,4455	0,6262	13,9281	-28,4975
Story2	ACC8	Top	28,9185	-2,2022	2,2168	0,6692	19,3483	-18,7178
Story2	ACC8	Bottom	32,4778	-2,1365	2,4455	0,7637	13,9281	-29,6599
Story2	ENV Max	Top	48,2446	1,1756	0	8,4342	47,1775	-30,8754
Story2	ENV Max	Bottom	53,0496	-3,3038	0	4,8382	66,1792	-45,4786
Story2	ENV Min	Top	48,2446	-3,4214	-0,9886	-1,2219	40,2843	-33,2348
Story2	ENV Min	Bottom	53,0496	-5,6284	-7,339	2,2744	44,2964	-47,5028
Story1	Dead	Top	24,4738	-1,4905	0	1,2446	20,4356	-21,9787
Story1	Dead	Bottom	75,9011	-1,4905	0	1,2446	63,3774	-73,2792
Story1	Live	Top	13,34	-0,9395	0	0,7844	11,1389	-11,8332
Story1	Live	Bottom	13,34	-0,9395	0	0,7844	11,1389	-12,7257
Story1	EXSTAT	Top	0	-1,0272	0	0,8577	0	1,9374
Story1	EXSTAT	Bottom	0	-3,3542	0	2,8007	0	-0,1438
Story1	EYSTAT	Top	0	0	-3,8055	-0,2914	13,1909	0

Table 5.4 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story1	EYSTAT	Bottom	0	0	-6,2368	-2,6497	17,961	0
Story1	Wx	Top	0	-2,4522	-7,049E-07	2,2015	3,13E-05	2,1584
Story1	Wx	Bottom	0	-2,4522	-7,049E-07	2,2015	3,197E-05	-0,1712
Story1	Wy	Top	0	0,1306	-8,1544	-0,6472	24,3143	-0,0907
Story1	Wy	Bottom	0	0,1306	-8,1544	-0,6472	32,061	0,0334
Story1	ULS1	Top	53,0496	-3,4214	0	2,8569	44,2964	-47,4212
Story1	ULS1	Bottom	122,4765	-3,4214	0	2,8569	102,2678	-118,0155
Story1	ULS2	Top	53,0496	-5,6284	-6,344E-07	4,8382	44,2964	-45,4786
Story1	ULS2	Bottom	122,4765	-5,6284	-6,344E-07	4,8382	102,2679	-118,1696
Story1	ULS3	Top	53,0496	-3,3038	-7,339	2,2744	66,1792	-47,5028
Story1	ULS3	Bottom	122,4765	-3,3038	-7,339	2,2744	131,1227	-117,9855
Story1	ULS4	Top	33,0396	-5,6906	-1,057E-06	4,9825	27,5881	-26,4337
Story1	ULS4	Bottom	102,4665	-5,6906	-1,057E-06	4,9825	85,5595	-99,1838
Story1	ULS5	Top	47,0466	-6,677	-1,057E-06	5,8061	39,2839	-38,8586
Story1	ULS5	Bottom	116,4735	-6,677	-1,057E-06	5,8061	97,2554	-112,5458
Story1	ULS6	Top	33,0396	-1,8162	-12,2316	0,7094	64,0594	-29,8074
Story1	ULS6	Bottom	102,4665	-1,8162	-12,2316	0,7094	133,6509	-98,8769
Story1	ULS7	Top	47,0466	-2,8027	-12,2316	1,533	75,7553	-42,2323
Story1	ULS7	Bottom	116,4735	-2,8027	-12,2316	1,533	145,3468	-112,2389
Story1	ULS8	Top	44,4838	-2,8997	0	2,4213	37,1439	-39,7286
Story1	ULS8	Bottom	95,9111	-2,8997	0	2,4213	80,0857	-92,3678
Story1	ULS9	Top	44,4838	-5,1067	-6,344E-07	4,4026	37,144	-37,786
Story1	ULS9	Bottom	95,9111	-5,1067	-6,344E-07	4,4026	80,0858	-92,5219
Story1	ULS10	Top	44,4838	-2,7821	-7,339	1,8388	59,0268	-39,8102
Story1	ULS10	Bottom	95,9111	-2,7821	-7,339	1,8388	108,9406	-92,3377
Story1	ULS11	Top	24,4738	-5,1689	-1,057E-06	4,5468	20,4356	-18,7411
Story1	ULS11	Bottom	75,9011	-5,1689	-1,057E-06	4,5468	63,3774	-73,536
Story1	ULS12	Top	38,4808	-6,1553	-1,057E-06	5,3705	32,1315	-31,166
Story1	ULS12	Bottom	89,9081	-6,1553	-1,057E-06	5,3705	75,0733	-86,898
Story1	ULS13	Top	24,4738	-1,2946	-12,2316	0,2738	56,907	-22,1148
Story1	ULS13	Bottom	75,9011	-1,2946	-12,2316	0,2738	111,4688	-73,2291
Story1	ULS14	Top	38,4808	-2,281	-12,2316	1,0974	68,6028	-34,5397
Story1	ULS14	Bottom	89,9081	-2,281	-12,2316	1,0974	123,1647	-86,5911
Story1	SLS1	Top	37,8138	-2,43	0	2,029	31,5745	-33,812
Story1	SLS1	Bottom	89,2411	-2,43	0	2,029	74,5163	-86,0049
Story1	SLS2	Top	37,8138	-3,9013	0	3,3499	31,5745	-32,5169
Story1	SLS2	Bottom	89,2411	-3,9013	0	3,3499	74,5163	-86,1077
Story1	SLS3	Top	37,8138	-2,3516	-4,8927	1,6407	46,1631	-33,8664
Story1	SLS3	Bottom	89,2411	-2,3516	-4,8927	1,6407	93,7529	-85,9849
Story1	SLS4	Top	24,4738	-3,9428	-7,049E-07	3,4461	20,4356	-19,8203
Story1	SLS4	Bottom	75,9011	-3,9428	-7,049E-07	3,4461	63,3774	-73,4504
Story1	SLS5	Top	33,8118	-4,6004	-7,049E-07	3,9952	28,2329	-28,1036
Story1	SLS5	Bottom	85,2391	-4,6004	-7,049E-07	3,9952	71,1747	-82,3584
Story1	SLS6	Top	24,4738	-1,3599	-8,1544	0,5974	44,7499	-22,0695
Story1	SLS6	Bottom	75,9011	-1,3599	-8,1544	0,5974	95,4384	-73,2458
Story1	SLS7	Top	33,8118	-2,0175	-8,1544	1,1465	52,5471	-30,3527
Story1	SLS7	Bottom	85,2391	-2,0175	-8,1544	1,1465	103,2356	-82,1538
Story1	ACC1	Top	32,4778	-3,0814	-1,1417	2,4856	31,0762	-27,1413
Story1	ACC1	Bottom	83,9051	-5,4084	-1,8711	3,7211	75,449	-81,0584

Table 5.4 - Story Forces (continued)

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story1	ACC2	Top	32,4778	-3,0814	1,1417	2,6604	23,1617	-27,1413
Story1	ACC2	Bottom	83,9051	-5,4084	1,8711	5,3109	64,6724	-81,0584
Story1	ACC3	Top	32,4778	-1,027	-1,1417	0,7701	31,0762	-31,0161
Story1	ACC3	Bottom	83,9051	1,3	-1,8711	-1,8804	75,449	-80,7709
Story1	ACC4	Top	32,4778	-1,027	1,1417	0,9449	23,1617	-31,0161
Story1	ACC4	Bottom	83,9051	1,3	1,8711	-0,2906	64,6724	-80,7709
Story1	ACC5	Top	32,4778	-2,3624	-3,8055	1,6812	40,3098	-28,4975
Story1	ACC5	Bottom	83,9051	-3,0604	-6,2368	-0,0943	88,0217	-80,9578
Story1	ACC6	Top	32,4778	-1,746	-3,8055	1,1666	40,3098	-29,6599
Story1	ACC6	Bottom	83,9051	-1,0479	-6,2368	-1,7747	88,0217	-80,8715
Story1	ACC7	Top	32,4778	-2,3624	3,8055	2,2639	13,9281	-28,4975
Story1	ACC7	Bottom	83,9051	-3,0604	6,2368	5,2052	52,0998	-80,9578
Story1	ACC8	Top	32,4778	-1,746	3,8055	1,7493	13,9281	-29,6599
Story1	ACC8	Bottom	83,9051	-1,0479	6,2368	3,5248	52,0998	-80,8715
Story1	ENV Max	Top	53,0496	-3,3038	0	4,8382	66,1792	-45,4786
Story1	ENV Max	Bottom	122,4765	-3,3038	0	4,8382	131,1227	-117,9855
Story1	ENV Min	Top	53,0496	-5,6284	-7,339	2,2744	44,2964	-47,5028
Story1	ENV Min	Bottom	122,4765	-5,6284	-7,339	2,2744	102,2678	-118,1696

5.3 Point Results

Table 5.5 - Joint Reactions

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story3	6	18	Dead	1,0766	-0,0241	0	0	0	0
Story3	6	18	Live	0,6949	-0,0221	0	0	0	0
Story3	6	18	EXSTAT	-1,3608	7,084E-07	0	0	0	0
Story3	6	18	EYSTAT	-0,5681	-0,7046	0	0	0	0
Story3	6	18	Wx	-1,5113	1,1857	0	0	0	0
Story3	6	18	Wy	-0,8288	-0,9124	0	0	0	0
Story3	6	18	ULS1	2,4957	-0,0657	0	0	0	0
Story3	6	18	ULS2	1,1355	1,0014	0	0	0	0
Story3	6	18	ULS3	1,7497	-0,8868	0	0	0	0
Story3	6	18	ULS4	-0,8135	1,7461	0	0	0	0
Story3	6	18	ULS5	-0,0839	1,7228	0	0	0	0
Story3	6	18	ULS6	0,2102	-1,401	0	0	0	0
Story3	6	18	ULS7	0,9398	-1,4243	0	0	0	0
Story3	6	18	ULS8	2,1189	-0,0573	0	0	0	0
Story3	6	18	ULS9	0,7587	1,0099	0	0	0	0
Story3	6	18	ULS10	1,3729	-0,8784	0	0	0	0
Story3	6	18	ULS11	-1,1903	1,7545	0	0	0	0
Story3	6	18	ULS12	-0,4607	1,7312	0	0	0	0
Story3	6	18	ULS13	-0,1666	-1,3926	0	0	0	0
Story3	6	18	ULS14	0,563	-1,4159	0	0	0	0
Story3	6	18	SLS1	1,7714	-0,0462	0	0	0	0
Story3	6	18	SLS2	0,8647	0,6652	0	0	0	0
Story3	6	18	SLS3	1,2742	-0,5936	0	0	0	0
Story3	6	18	SLS4	-0,4347	1,1616	0	0	0	0
Story3	6	18	SLS5	0,0517	1,1461	0	0	0	0
Story3	6	18	SLS6	0,2478	-0,9364	0	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story3	6	18	SLS7	0,7342	-0,9519	0	0	0	0
Story3	6	18	ACC1	-0,0377	-0,2487	0	0	0	0
Story3	6	18	ACC2	0,3032	0,174	0	0	0	0
Story3	6	18	ACC3	2,6838	-0,2487	0	0	0	0
Story3	6	18	ACC4	3,0247	0,174	0	0	0	0
Story3	6	18	ACC5	0,5172	-0,7419	0	0	0	0
Story3	6	18	ACC6	1,3336	-0,7419	0	0	0	0
Story3	6	18	ACC7	1,6534	0,6672	0	0	0	0
Story3	6	18	ACC8	2,4698	0,6672	0	0	0	0
Story3	6	18	ENV Max	2,4957	1,0014	0	0	0	0
Story3	6	18	ENV Min	1,1355	-0,8868	0	0	0	0
Story3	8	19	Dead	1,0766	0,0241	0	0	0	0
Story3	8	19	Live	0,6949	0,0221	0	0	0	0
Story3	8	19	EXSTAT	-1,3608	-7,084E-07	0	0	0	0
Story3	8	19	EYSTAT	0,5681	-0,7046	0	0	0	0
Story3	8	19	Wx	-1,7272	-1,1857	0	0	0	0
Story3	8	19	Wy	0,9784	-0,7202	0	0	0	0
Story3	8	19	ULS1	2,4957	0,0657	0	0	0	0
Story3	8	19	ULS2	0,9412	-1,0014	0	0	0	0
Story3	8	19	ULS3	3,3762	-0,5825	0	0	0	0
Story3	8	19	ULS4	-1,1373	-1,746	0	0	0	0
Story3	8	19	ULS5	-0,4078	-1,7228	0	0	0	0
Story3	8	19	ULS6	2,921	-1,0478	0	0	0	0
Story3	8	19	ULS7	3,6506	-1,0246	0	0	0	0
Story3	8	19	ULS8	2,1189	0,0573	0	0	0	0
Story3	8	19	ULS9	0,5644	-1,0098	0	0	0	0
Story3	8	19	ULS10	2,9994	-0,5909	0	0	0	0
Story3	8	19	ULS11	-1,5142	-1,7545	0	0	0	0
Story3	8	19	ULS12	-0,7846	-1,7312	0	0	0	0
Story3	8	19	ULS13	2,5442	-1,0562	0	0	0	0
Story3	8	19	ULS14	3,2738	-1,033	0	0	0	0
Story3	8	19	SLS1	1,7714	0,0462	0	0	0	0
Story3	8	19	SLS2	0,7351	-0,6652	0	0	0	0
Story3	8	19	SLS3	2,3585	-0,3859	0	0	0	0
Story3	8	19	SLS4	-0,6506	-1,1616	0	0	0	0
Story3	8	19	SLS5	-0,1642	-1,1461	0	0	0	0
Story3	8	19	SLS6	2,055	-0,6961	0	0	0	0
Story3	8	19	SLS7	2,5414	-0,6806	0	0	0	0
Story3	8	19	ACC1	0,3032	-0,174	0	0	0	0
Story3	8	19	ACC2	-0,0377	0,2487	0	0	0	0
Story3	8	19	ACC3	3,0247	-0,174	0	0	0	0
Story3	8	19	ACC4	2,6838	0,2487	0	0	0	0
Story3	8	19	ACC5	1,6534	-0,6672	0	0	0	0
Story3	8	19	ACC6	2,4698	-0,6672	0	0	0	0
Story3	8	19	ACC7	0,5172	0,7419	0	0	0	0
Story3	8	19	ACC8	1,3336	0,7419	0	0	0	0
Story3	8	19	ENV Max	3,3762	0,0657	0	0	0	0
Story3	8	19	ENV Min	0,9412	-1,0014	0	0	0	0
Story2	6	6	Dead	-0,3313	0,0267	0	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story2	6	6	Live	-0,2251	0,0258	0	0	0	0
Story2	6	6	EXSTAT	-1,0952	3,761E-06	0	0	0	0
Story2	6	6	EYSTAT	0,141	-0,4953	0	0	0	0
Story2	6	6	Wx	-4,5578	3,8581	0	0	0	0
Story2	6	6	Wy	-0,0195	-2,6312	0	0	0	0
Story2	6	6	ULS1	-0,785	0,0747	0	0	0	0
Story2	6	6	ULS2	-4,887	3,547	0	0	0	0
Story2	6	6	ULS3	-0,8025	-2,2934	0	0	0	0
Story2	6	6	ULS4	-7,2839	5,8232	0	0	0	0
Story2	6	6	ULS5	-7,5203	5,8502	0	0	0	0
Story2	6	6	ULS6	-0,4766	-3,9108	0	0	0	0
Story2	6	6	ULS7	-0,7129	-3,8837	0	0	0	0
Story2	6	6	ULS8	-0,669	0,0653	0	0	0	0
Story2	6	6	ULS9	-4,771	3,5376	0	0	0	0
Story2	6	6	ULS10	-0,6866	-2,3028	0	0	0	0
Story2	6	6	ULS11	-7,168	5,8139	0	0	0	0
Story2	6	6	ULS12	-7,4044	5,8409	0	0	0	0
Story2	6	6	ULS13	-0,3606	-3,9201	0	0	0	0
Story2	6	6	ULS14	-0,597	-3,8931	0	0	0	0
Story2	6	6	SLS1	-0,5565	0,0524	0	0	0	0
Story2	6	6	SLS2	-3,2911	2,3673	0	0	0	0
Story2	6	6	SLS3	-0,5682	-1,5263	0	0	0	0
Story2	6	6	SLS4	-4,8891	3,8848	0	0	0	0
Story2	6	6	SLS5	-5,0467	3,9028	0	0	0	0
Story2	6	6	SLS6	-0,3508	-2,6045	0	0	0	0
Story2	6	6	SLS7	-0,5084	-2,5865	0	0	0	0
Story2	6	6	ACC1	-1,5193	-0,1065	0	0	0	0
Story2	6	6	ACC2	-1,6038	0,1908	0	0	0	0
Story2	6	6	ACC3	0,671	-0,1065	0	0	0	0
Story2	6	6	ACC4	0,5865	0,1907	0	0	0	0
Story2	6	6	ACC5	-0,654	-0,4532	0	0	0	0
Story2	6	6	ACC6	0,0031	-0,4532	0	0	0	0
Story2	6	6	ACC7	-0,9359	0,5375	0	0	0	0
Story2	6	6	ACC8	-0,2788	0,5375	0	0	0	0
Story2	6	6	ENV Max	-0,785	3,547	0	0	0	0
Story2	6	6	ENV Min	-4,887	-2,2934	0	0	0	0
Story2	8	8	Dead	-0,3313	-0,0267	0	0	0	0
Story2	8	8	Live	-0,2251	-0,0258	0	0	0	0
Story2	8	8	EXSTAT	-1,0952	-3,761E-06	0	0	0	0
Story2	8	8	EYSTAT	-0,141	-0,4953	0	0	0	0
Story2	8	8	Wx	-5,1866	-3,8581	0	0	0	0
Story2	8	8	Wy	-0,2607	-1,9878	0	0	0	0
Story2	8	8	ULS1	-0,785	-0,0747	0	0	0	0
Story2	8	8	ULS2	-5,4529	-3,547	0	0	0	0
Story2	8	8	ULS3	-1,0196	-1,8637	0	0	0	0
Story2	8	8	ULS4	-8,2271	-5,8232	0	0	0	0
Story2	8	8	ULS5	-8,4635	-5,8503	0	0	0	0
Story2	8	8	ULS6	-0,8384	-3,0178	0	0	0	0
Story2	8	8	ULS7	-1,0748	-3,0448	0	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Story2	8	8	ULS8	-0,669	-0,0653	0	0	0	0
Story2	8	8	ULS9	-5,3369	-3,5376	0	0	0	0
Story2	8	8	ULS10	-0,9037	-1,8544	0	0	0	0
Story2	8	8	ULS11	-8,1112	-5,8139	0	0	0	0
Story2	8	8	ULS12	-8,3476	-5,8409	0	0	0	0
Story2	8	8	ULS13	-0,7224	-3,0084	0	0	0	0
Story2	8	8	ULS14	-0,9588	-3,0355	0	0	0	0
Story2	8	8	SLS1	-0,5565	-0,0524	0	0	0	0
Story2	8	8	SLS2	-3,6684	-2,3673	0	0	0	0
Story2	8	8	SLS3	-0,7129	-1,2451	0	0	0	0
Story2	8	8	SLS4	-5,5179	-3,8848	0	0	0	0
Story2	8	8	SLS5	-5,6755	-3,9028	0	0	0	0
Story2	8	8	SLS6	-0,5921	-2,0145	0	0	0	0
Story2	8	8	SLS7	-0,7496	-2,0325	0	0	0	0
Story2	8	8	ACC1	-1,6038	-0,1908	0	0	0	0
Story2	8	8	ACC2	-1,5193	0,1065	0	0	0	0
Story2	8	8	ACC3	0,5865	-0,1907	0	0	0	0
Story2	8	8	ACC4	0,671	0,1065	0	0	0	0
Story2	8	8	ACC5	-0,9359	-0,5375	0	0	0	0
Story2	8	8	ACC6	-0,2788	-0,5375	0	0	0	0
Story2	8	8	ACC7	-0,654	0,4532	0	0	0	0
Story2	8	8	ACC8	0,0031	0,4532	0	0	0	0
Story2	8	8	ENV Max	-0,785	-0,0747	0	0	0	0
Story2	8	8	ENV Min	-5,4529	-3,547	0	0	0	0
Base	2	3	Dead	-0,7641	-0,746	6,3187	0	0	0
Base	2	3	Live	-0,4339	-0,3206	0,8638	0	0	0
Base	2	3	EXSTAT	-0,1198	-0,0051	-0,0186	0	0	0
Base	2	3	EYSTAT	0,5251	-0,8069	-2,7059	0	0	0
Base	2	3	Wx	-0,047	-0,204	-0,0217	0	0	0
Base	2	3	Wy	0,725	-1,4582	-4,8301	0	0	0
Base	2	3	ULS1	-1,6824	-1,488	9,8259	0	0	0
Base	2	3	ULS2	-1,7247	-1,6716	9,8064	0	0	0
Base	2	3	ULS3	-1,0299	-2,8004	5,4788	0	0	0
Base	2	3	ULS4	-1,102	-1,313	8,4976	0	0	0
Base	2	3	ULS5	-1,5576	-1,6497	9,4046	0	0	0
Base	2	3	ULS6	0,0559	-3,1944	1,2851	0	0	0
Base	2	3	ULS7	-0,3997	-3,5311	2,192	0	0	0
Base	2	3	ULS8	-1,415	-1,2269	7,6144	0	0	0
Base	2	3	ULS9	-1,4572	-1,4105	7,5948	0	0	0
Base	2	3	ULS10	-0,7625	-2,5393	3,2673	0	0	0
Base	2	3	ULS11	-0,8346	-1,0519	6,2861	0	0	0
Base	2	3	ULS12	-1,2902	-1,3886	7,1931	0	0	0
Base	2	3	ULS13	0,3233	-2,9333	-0,9265	0	0	0
Base	2	3	ULS14	-0,1322	-3,27	-0,0195	0	0	0
Base	2	3	SLS1	-1,198	-1,0666	7,1825	0	0	0
Base	2	3	SLS2	-1,2262	-1,189	7,1694	0	0	0
Base	2	3	SLS3	-0,763	-1,9415	4,2844	0	0	0
Base	2	3	SLS4	-0,8111	-0,95	6,297	0	0	0
Base	2	3	SLS5	-1,1148	-1,1744	6,9016	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	2	3	SLS6	-0,0391	-2,2042	1,4886	0	0	0
Base	2	3	SLS7	-0,3429	-2,4287	2,0932	0	0	0
Base	2	3	ACC1	-0,9867	-1,1856	6,0066	0	0	0
Base	2	3	ACC2	-1,3018	-0,7014	7,6302	0	0	0
Base	2	3	ACC3	-0,7471	-1,1753	6,0438	0	0	0
Base	2	3	ACC4	-1,0622	-0,6912	7,6673	0	0	0
Base	2	3	ACC5	-0,5353	-1,7468	4,1255	0	0	0
Base	2	3	ACC6	-0,4634	-1,7437	4,1366	0	0	0
Base	2	3	ACC7	-1,5855	-0,133	9,5373	0	0	0
Base	2	3	ACC8	-1,5136	-0,13	9,5485	0	0	0
Base	2	3	ENV Max	-1,0299	-1,488	9,8259	0	0	0
Base	2	3	ENV Min	-1,7247	-2,8004	5,4788	0	0	0
Base	6	5	Dead	0,6594	-0,6739	6,2297	0	0	0
Base	6	5	Live	0,3675	-0,2796	0,8086	0	0	0
Base	6	5	EXSTAT	-0,1225	0,0004	0,0186	0	0	0
Base	6	5	EYSTAT	-0,6562	-0,2329	-2,6746	0	0	0
Base	6	5	Wx	-0,1307	-0,2271	0,022	0	0	0
Base	6	5	Wy	-1,0052	-0,2182	-4,7737	0	0	0
Base	6	5	ULS1	1,4414	-1,3292	9,623	0	0	0
Base	6	5	ULS2	1,3238	-1,5336	9,6428	0	0	0
Base	6	5	ULS3	0,5367	-1,5255	5,3266	0	0	0
Base	6	5	ULS4	0,6942	-1,2504	8,4432	0	0	0
Base	6	5	ULS5	1,08	-1,544	9,2922	0	0	0
Base	6	5	ULS6	-0,6176	-1,237	1,2495	0	0	0
Base	6	5	ULS7	-0,2317	-1,5306	2,0985	0	0	0
Base	6	5	ULS8	1,2106	-1,0933	7,4426	0	0	0
Base	6	5	ULS9	1,093	-1,2977	7,4624	0	0	0
Base	6	5	ULS10	0,3059	-1,2897	3,1462	0	0	0
Base	6	5	ULS11	0,4634	-1,0146	6,2628	0	0	0
Base	6	5	ULS12	0,8492	-1,3082	7,1118	0	0	0
Base	6	5	ULS13	-0,8484	-1,0011	-0,9309	0	0	0
Base	6	5	ULS14	-0,4625	-1,2947	-0,0819	0	0	0
Base	6	5	SLS1	1,0269	-0,9535	7,0383	0	0	0
Base	6	5	SLS2	0,9485	-1,0898	7,0515	0	0	0
Base	6	5	SLS3	0,4238	-1,0844	4,1741	0	0	0
Base	6	5	SLS4	0,5287	-0,901	6,2518	0	0	0
Base	6	5	SLS5	0,786	-1,0967	6,8178	0	0	0
Base	6	5	SLS6	-0,3458	-0,892	1,456	0	0	0
Base	6	5	SLS7	-0,0886	-1,0878	2,022	0	0	0
Base	6	5	ACC1	0,5605	-0,9112	5,9311	0	0	0
Base	6	5	ACC2	0,9542	-0,7714	7,5358	0	0	0
Base	6	5	ACC3	0,8056	-0,9119	5,8939	0	0	0
Base	6	5	ACC4	1,1993	-0,7722	7,4987	0	0	0
Base	6	5	ACC5	0,1869	-1,0744	4,0458	0	0	0
Base	6	5	ACC6	0,2604	-1,0746	4,0347	0	0	0
Base	6	5	ACC7	1,4993	-0,6087	9,3951	0	0	0
Base	6	5	ACC8	1,5728	-0,6089	9,3839	0	0	0
Base	6	5	ENV Max	1,4414	-1,3292	9,6428	0	0	0
Base	6	5	ENV Min	0,5367	-1,5336	5,3266	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	7	1	Dead	-0,7641	0,746	6,3187	0	0	0
Base	7	1	Live	-0,4339	0,3206	0,8638	0	0	0
Base	7	1	EXSTAT	-0,1198	0,0051	-0,0186	0	0	0
Base	7	1	EYSTAT	-0,5251	-0,8069	2,7059	0	0	0
Base	7	1	Wx	-0,0812	0,2047	-0,0221	0	0	0
Base	7	1	Wy	-1,1504	-1,5507	4,8393	0	0	0
Base	7	1	ULS1	-1,6824	1,488	9,8259	0	0	0
Base	7	1	ULS2	-1,7555	1,6722	9,806	0	0	0
Base	7	1	ULS3	-2,7178	0,0924	14,1813	0	0	0
Base	7	1	ULS4	-1,1533	1,3141	8,4971	0	0	0
Base	7	1	ULS5	-1,6089	1,6507	9,404	0	0	0
Base	7	1	ULS6	-2,7572	-1,3189	15,7891	0	0	0
Base	7	1	ULS7	-3,2128	-0,9823	16,6961	0	0	0
Base	7	1	ULS8	-1,415	1,2269	7,6144	0	0	0
Base	7	1	ULS9	-1,488	1,4111	7,5945	0	0	0
Base	7	1	ULS10	-2,4503	-0,1687	11,9697	0	0	0
Base	7	1	ULS11	-0,8859	1,053	6,2855	0	0	0
Base	7	1	ULS12	-1,3415	1,3896	7,1925	0	0	0
Base	7	1	ULS13	-2,4898	-1,58	13,5776	0	0	0
Base	7	1	ULS14	-2,9453	-1,2434	14,4846	0	0	0
Base	7	1	SLS1	-1,198	1,0666	7,1825	0	0	0
Base	7	1	SLS2	-1,2467	1,1894	7,1692	0	0	0
Base	7	1	SLS3	-1,8883	0,1362	10,086	0	0	0
Base	7	1	SLS4	-0,8453	0,9506	6,2966	0	0	0
Base	7	1	SLS5	-1,149	1,1751	6,9012	0	0	0
Base	7	1	SLS6	-1,9145	-0,8047	11,158	0	0	0
Base	7	1	SLS7	-2,2183	-0,5802	11,7626	0	0	0
Base	7	1	ACC1	-1,3018	0,7014	7,6302	0	0	0
Base	7	1	ACC2	-0,9867	1,1856	6,0066	0	0	0
Base	7	1	ACC3	-1,0622	0,6912	7,6673	0	0	0
Base	7	1	ACC4	-0,7471	1,1753	6,0438	0	0	0
Base	7	1	ACC5	-1,5855	0,133	9,5373	0	0	0
Base	7	1	ACC6	-1,5136	0,13	9,5485	0	0	0
Base	7	1	ACC7	-0,5353	1,7468	4,1255	0	0	0
Base	7	1	ACC8	-0,4634	1,7437	4,1366	0	0	0
Base	7	1	ENV Max	-1,6824	1,6722	14,1813	0	0	0
Base	7	1	ENV Min	-2,7178	0,0924	9,806	0	0	0
Base	8	7	Dead	0,6594	0,6739	6,2297	0	0	0
Base	8	7	Live	0,3675	0,2796	0,8086	0	0	0
Base	8	7	EXSTAT	-0,1225	-0,0004	0,0186	0	0	0
Base	8	7	EYSTAT	0,6562	-0,2329	2,6746	0	0	0
Base	8	7	Wx	-0,1374	0,2251	0,0225	0	0	0
Base	8	7	Wy	1,4491	-0,3156	4,7657	0	0	0
Base	8	7	ULS1	1,4414	1,3292	9,623	0	0	0
Base	8	7	ULS2	1,3177	1,5318	9,6433	0	0	0
Base	8	7	ULS3	2,7456	1,0451	13,9121	0	0	0
Base	8	7	ULS4	0,684	1,2474	8,4439	0	0	0
Base	8	7	ULS5	1,0699	1,541	9,2929	0	0	0
Base	8	7	ULS6	3,0638	0,4363	15,5587	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	8	7	ULS7	3,4496	0,7299	16,4077	0	0	0
Base	8	7	ULS8	1,2106	1,0933	7,4426	0	0	0
Base	8	7	ULS9	1,0869	1,2959	7,4628	0	0	0
Base	8	7	ULS10	2,5148	0,8093	11,7317	0	0	0
Base	8	7	ULS11	0,4532	1,0115	6,2635	0	0	0
Base	8	7	ULS12	0,8391	1,3052	7,1125	0	0	0
Base	8	7	ULS13	2,833	0,2004	13,3783	0	0	0
Base	8	7	ULS14	3,2188	0,494	14,2272	0	0	0
Base	8	7	SLS1	1,0269	0,9535	7,0383	0	0	0
Base	8	7	SLS2	0,9444	1,0886	7,0518	0	0	0
Base	8	7	SLS3	1,8963	0,7641	9,8977	0	0	0
Base	8	7	SLS4	0,522	0,899	6,2523	0	0	0
Base	8	7	SLS5	0,7792	1,0947	6,8182	0	0	0
Base	8	7	SLS6	2,1085	0,3582	10,9954	0	0	0
Base	8	7	SLS7	2,3657	0,554	11,5614	0	0	0
Base	8	7	ACC1	0,9542	0,7714	7,5358	0	0	0
Base	8	7	ACC2	0,5605	0,9112	5,9311	0	0	0
Base	8	7	ACC3	1,1993	0,7722	7,4987	0	0	0
Base	8	7	ACC4	0,8056	0,9119	5,8939	0	0	0
Base	8	7	ACC5	1,4993	0,6087	9,3951	0	0	0
Base	8	7	ACC6	1,5728	0,6089	9,3839	0	0	0
Base	8	7	ACC7	0,1869	1,0744	4,0458	0	0	0
Base	8	7	ACC8	0,2604	1,0746	4,0347	0	0	0
Base	8	7	ENV Max	2,7456	1,5318	13,9121	0	0	0
Base	8	7	ENV Min	1,3177	1,0451	9,623	0	0	0
Base	~25		Dead	-2,0988	0,7273	0	0	0	0
Base	~25		Live	-0,8053	0,1742	0	0	0	0
Base	~25		EXSTAT	-0,3359	-0,04	0	0	0	0
Base	~25		EYSTAT	-2,1473	-0,8806	0	0	0	0
Base	~25		Wx	-0,2871	0,0436	0	0	0	0
Base	~25		Wy	-4,2783	-1,5163	0	0	0	0
Base	~25		ULS1	-4,0414	1,2432	0	0	0	0
Base	~25		ULS2	-4,2998	1,2824	0	0	0	0
Base	~25		ULS3	-7,8918	-0,1214	0	0	0	0
Base	~25		ULS4	-3,264	1,0472	0	0	0	0
Base	~25		ULS5	-4,1096	1,2302	0	0	0	0
Base	~25		ULS6	-9,2508	-1,2925	0	0	0	0
Base	~25		ULS7	-10,0964	-1,1096	0	0	0	0
Base	~25		ULS8	-3,3068	0,9887	0	0	0	0
Base	~25		ULS9	-3,5652	1,0279	0	0	0	0
Base	~25		ULS10	-7,1573	-0,376	0	0	0	0
Base	~25		ULS11	-2,5294	0,7927	0	0	0	0
Base	~25		ULS12	-3,375	0,9756	0	0	0	0
Base	~25		ULS13	-8,5162	-1,5471	0	0	0	0
Base	~25		ULS14	-9,3618	-1,3642	0	0	0	0
Base	~25		SLS1	-2,9041	0,9016	0	0	0	0
Base	~25		SLS2	-3,0764	0,9277	0	0	0	0
Base	~25		SLS3	-5,4711	-0,0082	0	0	0	0
Base	~25		SLS4	-2,3859	0,7709	0	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	~25		SLS5	-2,9496	0,8928	0	0	0	0
Base	~25		SLS6	-6,3771	-0,789	0	0	0	0
Base	~25		SLS7	-6,9408	-0,667	0	0	0	0
Base	~25		ACC1	-3,562	0,5277	0	0	0	0
Base	~25		ACC2	-2,2737	1,056	0	0	0	0
Base	~25		ACC3	-2,8903	0,6077	0	0	0	0
Base	~25		ACC4	-1,6019	1,1361	0	0	0	0
Base	~25		ACC5	-4,8301	-0,0607	0	0	0	0
Base	~25		ACC6	-4,6285	-0,0367	0	0	0	0
Base	~25		ACC7	-0,5354	1,7004	0	0	0	0
Base	~25		ACC8	-0,3339	1,7244	0	0	0	0
Base	~25		ENV Max	-4,0414	1,2824	0	0	0	0
Base	~25		ENV Min	-7,8918	-0,1214	0	0	0	0
Base	~29		Dead	-0,3027	1,1167	12,5349	0	0	0
Base	~29		Live	-0,1902	0,183	1,6689	0	0	0
Base	~29		EXSTAT	-0,4323	-0,0002	1,018E-05	0	0	0
Base	~29		EYSTAT	-1,0933	-0,1824	5,3745	0	0	0
Base	~29		Wx	-0,4802	-0,0252	0,0006	0	0	0
Base	~29		Wy	-2,1932	-0,0298	9,5929	0	0	0
Base	~29		ULS1	-0,6939	1,7821	19,4255	0	0	0
Base	~29		ULS2	-1,1261	1,7594	19,426	0	0	0
Base	~29		ULS3	-2,6678	1,7552	28,0591	0	0	0
Base	~29		ULS4	-1,129	1,4698	16,923	0	0	0
Base	~29		ULS5	-1,3287	1,6619	18,6753	0	0	0
Base	~29		ULS6	-3,6984	1,4628	31,3114	0	0	0
Base	~29		ULS7	-3,8981	1,655	33,0638	0	0	0
Base	~29		ULS8	-0,588	1,3912	15,0383	0	0	0
Base	~29		ULS9	-1,0202	1,3685	15,0388	0	0	0
Base	~29		ULS10	-2,5618	1,3644	23,6719	0	0	0
Base	~29		ULS11	-1,0231	1,0789	12,5357	0	0	0
Base	~29		ULS12	-1,2228	1,271	14,2881	0	0	0
Base	~29		ULS13	-3,5925	1,072	26,9242	0	0	0
Base	~29		ULS14	-3,7921	1,2641	28,6766	0	0	0
Base	~29		SLS1	-0,4929	1,2997	14,2038	0	0	0
Base	~29		SLS2	-0,781	1,2846	14,2042	0	0	0
Base	~29		SLS3	-1,8088	1,2818	19,9595	0	0	0
Base	~29		SLS4	-0,783	1,0915	12,5355	0	0	0
Base	~29		SLS5	-0,9161	1,2196	13,7037	0	0	0
Base	~29		SLS6	-2,4959	1,0869	22,1278	0	0	0
Base	~29		SLS7	-2,629	1,215	23,296	0	0	0
Base	~29		ACC1	-1,1771	1,1716	15,1486	0	0	0
Base	~29		ACC2	-0,5211	1,281	11,9239	0	0	0
Base	~29		ACC3	-0,3125	1,1721	15,1486	0	0	0
Base	~29		ACC4	0,3434	1,2815	11,9239	0	0	0
Base	~29		ACC5	-1,6398	1,044	18,9108	0	0	0
Base	~29		ACC6	-1,3804	1,0442	18,9108	0	0	0
Base	~29		ACC7	0,5467	1,4089	8,1617	0	0	0
Base	~29		ACC8	0,8061	1,409	8,1617	0	0	0
Base	~29		ENV Max	-0,6939	1,7821	28,0591	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	~29		ENV Min	-2,6678	1,7552	19,4255	0	0	0
Base	~32		Dead	1,7649	0,7226	0	0	0	0
Base	~32		Live	0,595	0,1717	0	0	0	0
Base	~32		EXSTAT	-0,3381	0,0407	0	0	0	0
Base	~32		EYSTAT	0,6708	0,3998	0	0	0	0
Base	~32		Wx	-0,2825	0,031	0	0	0	0
Base	~32		Wy	1,2836	1,1596	0	0	0	0
Base	~32		ULS1	3,2751	1,233	0	0	0	0
Base	~32		ULS2	3,0209	1,2609	0	0	0	0
Base	~32		ULS3	4,4303	2,2766	0	0	0	0
Base	~32		ULS4	1,9589	1,022	0	0	0	0
Base	~32		ULS5	2,5837	1,2022	0	0	0	0
Base	~32		ULS6	4,308	2,7149	0	0	0	0
Base	~32		ULS7	4,9327	2,8951	0	0	0	0
Base	~32		ULS8	2,6574	0,9801	0	0	0	0
Base	~32		ULS9	2,4032	1,008	0	0	0	0
Base	~32		ULS10	3,8126	2,0237	0	0	0	0
Base	~32		ULS11	1,3412	0,7691	0	0	0	0
Base	~32		ULS12	1,966	0,9493	0	0	0	0
Base	~32		ULS13	3,6903	2,462	0	0	0	0
Base	~32		ULS14	4,315	2,6422	0	0	0	0
Base	~32		SLS1	2,3599	0,8943	0	0	0	0
Base	~32		SLS2	2,1904	0,9129	0	0	0	0
Base	~32		SLS3	3,13	1,59	0	0	0	0
Base	~32		SLS4	1,4824	0,7536	0	0	0	0
Base	~32		SLS5	1,8989	0,8738	0	0	0	0
Base	~32		SLS6	3,0485	1,8822	0	0	0	0
Base	~32		SLS7	3,465	2,0023	0	0	0	0
Base	~32		ACC1	1,9851	0,9862	0	0	0	0
Base	~32		ACC2	1,5826	0,7463	0	0	0	0
Base	~32		ACC3	2,6612	0,9048	0	0	0	0
Base	~32		ACC4	2,2587	0,6649	0	0	0	0
Base	~32		ACC5	2,6912	1,2376	0	0	0	0
Base	~32		ACC6	2,8941	1,2132	0	0	0	0
Base	~32		ACC7	1,3497	0,438	0	0	0	0
Base	~32		ACC8	1,5525	0,4135	0	0	0	0
Base	~32		ENV Max	4,4303	2,2766	0	0	0	0
Base	~32		ENV Min	3,0209	1,233	0	0	0	0
Base	~36		Dead	0,7138	1,0881	0	0	0	0
Base	~36		Live	0,1849	0,3845	0	0	0	0
Base	~36		EXSTAT	-0,1077	0,001	0	0	0	0
Base	~36		EYSTAT	0,6587	-0,8948	0	0	0	0
Base	~36		Wx	-0,0007	0,2489	0	0	0	0
Base	~36		Wy	1,3121	-1,4312	0	0	0	0
Base	~36		ULS1	1,241	2,0457	0	0	0	0
Base	~36		ULS2	1,2403	2,2697	0	0	0	0
Base	~36		ULS3	2,4219	0,7576	0	0	0	0
Base	~36		ULS4	0,9625	1,8423	0	0	0	0
Base	~36		ULS5	1,1567	2,246	0	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	~36		ULS6	2,9318	-0,6779	0	0	0	0
Base	~36		ULS7	3,126	-0,2742	0	0	0	0
Base	~36		ULS8	0,9912	1,6649	0	0	0	0
Base	~36		ULS9	0,9905	1,8889	0	0	0	0
Base	~36		ULS10	2,1721	0,3768	0	0	0	0
Base	~36		ULS11	0,7127	1,4614	0	0	0	0
Base	~36		ULS12	0,9068	1,8652	0	0	0	0
Base	~36		ULS13	2,682	-1,0588	0	0	0	0
Base	~36		ULS14	2,8762	-0,655	0	0	0	0
Base	~36		SLS1	0,8987	1,4726	0	0	0	0
Base	~36		SLS2	0,8983	1,622	0	0	0	0
Base	~36		SLS3	1,686	0,6139	0	0	0	0
Base	~36		SLS4	0,713	1,337	0	0	0	0
Base	~36		SLS5	0,8425	1,6062	0	0	0	0
Base	~36		SLS6	2,0259	-0,3432	0	0	0	0
Base	~36		SLS7	2,1554	-0,074	0	0	0	0
Base	~36		ACC1	0,9146	1,0513	0	0	0	0
Base	~36		ACC2	0,5194	1,5882	0	0	0	0
Base	~36		ACC3	1,13	1,0493	0	0	0	0
Base	~36		ACC4	0,7348	1,5862	0	0	0	0
Base	~36		ACC5	1,4511	0,4243	0	0	0	0
Base	~36		ACC6	1,5158	0,4237	0	0	0	0
Base	~36		ACC7	0,1337	2,2139	0	0	0	0
Base	~36		ACC8	0,1983	2,2133	0	0	0	0
Base	~36		ENV Max	2,4219	2,2697	0	0	0	0
Base	~36		ENV Min	1,2403	0,7576	0	0	0	0
Base	~39		Dead	1,2365	0	12,4512	0	0	0
Base	~39		Live	0,203	0	1,6154	0	0	0
Base	~39		EXSTAT	-0,1132	0	0,0369	0	0	0
Base	~39		EYSTAT	0	-0,6816	0	0	0	0
Base	~39		Wx	0,0053	0,0119	0,0434	0	0	0
Base	~39		Wy	-0,0233	-1,0669	-0,0078	0	0	0
Base	~39		ULS1	1,9738	0	19,2322	0	0	0
Base	~39		ULS2	1,9786	0,0107	19,2713	0	0	0
Base	~39		ULS3	1,9529	-0,9602	19,2252	0	0	0
Base	~39		ULS4	1,6773	0,0178	16,8741	0	0	0
Base	~39		ULS5	1,8905	0,0178	18,5703	0	0	0
Base	~39		ULS6	1,6344	-1,6004	16,7974	0	0	0
Base	~39		ULS7	1,8476	-1,6004	18,4936	0	0	0
Base	~39		ULS8	1,5411	0	14,8743	0	0	0
Base	~39		ULS9	1,5459	0,0107	14,9134	0	0	0
Base	~39		ULS10	1,5201	-0,9602	14,8673	0	0	0
Base	~39		ULS11	1,2445	0,0178	12,5162	0	0	0
Base	~39		ULS12	1,4577	0,0178	14,2124	0	0	0
Base	~39		ULS13	1,2016	-1,6004	12,4395	0	0	0
Base	~39		ULS14	1,4148	-1,6004	14,1357	0	0	0
Base	~39		SLS1	1,4395	0	14,0666	0	0	0
Base	~39		SLS2	1,4427	0,0071	14,0926	0	0	0
Base	~39		SLS3	1,4256	-0,6401	14,0619	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	~39		SLS4	1,2418	0,0119	12,4945	0	0	0
Base	~39		SLS5	1,384	0,0119	13,6254	0	0	0
Base	~39		SLS6	1,2132	-1,0669	12,4434	0	0	0
Base	~39		SLS7	1,3554	-1,0669	13,5742	0	0	0
Base	~39		ACC1	1,2452	-0,2045	13,4574	0	0	0
Base	~39		ACC2	1,2452	0,2045	13,4574	0	0	0
Base	~39		ACC3	1,4715	-0,2045	13,3835	0	0	0
Base	~39		ACC4	1,4715	0,2045	13,3835	0	0	0
Base	~39		ACC5	1,3244	-0,6816	13,4315	0	0	0
Base	~39		ACC6	1,3923	-0,6816	13,4094	0	0	0
Base	~39		ACC7	1,3244	0,6816	13,4315	0	0	0
Base	~39		ACC8	1,3923	0,6816	13,4094	0	0	0
Base	~39		ENV Max	1,9786	0,0107	19,2713	0	0	0
Base	~39		ENV Min	1,9529	-0,9602	19,2252	0	0	0
Base	~42		Dead	0,7138	-1,0881	0	0	0	0
Base	~42		Live	0,1849	-0,3845	0	0	0	0
Base	~42		EXSTAT	-0,1077	-0,001	0	0	0	0
Base	~42		EYSTAT	-0,6587	-0,8948	0	0	0	0
Base	~42		Wx	0,0156	-0,2291	0	0	0	0
Base	~42		Wy	-1,2143	-1,3769	0	0	0	0
Base	~42		ULS1	1,241	-2,0457	0	0	0	0
Base	~42		ULS2	1,255	-2,2519	0	0	0	0
Base	~42		ULS3	0,1481	-3,2849	0	0	0	0
Base	~42		ULS4	0,987	-1,8125	0	0	0	0
Base	~42		ULS5	1,1811	-2,2163	0	0	0	0
Base	~42		ULS6	-0,8578	-3,5343	0	0	0	0
Base	~42		ULS7	-0,6637	-3,9381	0	0	0	0
Base	~42		ULS8	0,9912	-1,6649	0	0	0	0
Base	~42		ULS9	1,0052	-1,8711	0	0	0	0
Base	~42		ULS10	-0,1017	-2,9041	0	0	0	0
Base	~42		ULS11	0,7371	-1,4317	0	0	0	0
Base	~42		ULS12	0,9313	-1,8355	0	0	0	0
Base	~42		ULS13	-1,1076	-3,1535	0	0	0	0
Base	~42		ULS14	-0,9135	-3,5572	0	0	0	0
Base	~42		SLS1	0,8987	-1,4726	0	0	0	0
Base	~42		SLS2	0,908	-1,6101	0	0	0	0
Base	~42		SLS3	0,1701	-2,2988	0	0	0	0
Base	~42		SLS4	0,7294	-1,3172	0	0	0	0
Base	~42		SLS5	0,8588	-1,5864	0	0	0	0
Base	~42		SLS6	-0,5005	-2,465	0	0	0	0
Base	~42		SLS7	-0,3711	-2,7342	0	0	0	0
Base	~42		ACC1	0,5194	-1,5882	0	0	0	0
Base	~42		ACC2	0,9146	-1,0513	0	0	0	0
Base	~42		ACC3	0,7348	-1,5862	0	0	0	0
Base	~42		ACC4	1,13	-1,0493	0	0	0	0
Base	~42		ACC5	0,1337	-2,2139	0	0	0	0
Base	~42		ACC6	0,1983	-2,2133	0	0	0	0
Base	~42		ACC7	1,4511	-0,4243	0	0	0	0
Base	~42		ACC8	1,5158	-0,4237	0	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	~42		ENV Max	1,255	-2,0457	0	0	0	0
Base	~42		ENV Min	0,1481	-3,2849	0	0	0	0
Base	~46		Dead	1,7649	-0,7226	0	0	0	0
Base	~46		Live	0,595	-0,1717	0	0	0	0
Base	~46		EXSTAT	-0,3381	-0,0407	0	0	0	0
Base	~46		EYSTAT	-0,6708	0,3998	0	0	0	0
Base	~46		Wx	-0,2774	-0,0517	0	0	0	0
Base	~46		Wy	-0,8128	1,1303	0	0	0	0
Base	~46		ULS1	3,2751	-1,233	0	0	0	0
Base	~46		ULS2	3,0254	-1,2795	0	0	0	0
Base	~46		ULS3	2,5436	-0,2157	0	0	0	0
Base	~46		ULS4	1,9665	-1,0531	0	0	0	0
Base	~46		ULS5	2,5913	-1,2333	0	0	0	0
Base	~46		ULS6	1,1633	0,72	0	0	0	0
Base	~46		ULS7	1,7881	0,5397	0	0	0	0
Base	~46		ULS8	2,6574	-0,9801	0	0	0	0
Base	~46		ULS9	2,4077	-1,0266	0	0	0	0
Base	~46		ULS10	1,9258	0,0372	0	0	0	0
Base	~46		ULS11	1,3488	-0,8001	0	0	0	0
Base	~46		ULS12	1,9735	-0,9804	0	0	0	0
Base	~46		ULS13	0,5456	0,9729	0	0	0	0
Base	~46		ULS14	1,1704	0,7927	0	0	0	0
Base	~46		SLS1	2,3599	-0,8943	0	0	0	0
Base	~46		SLS2	2,1935	-0,9253	0	0	0	0
Base	~46		SLS3	1,8722	-0,2161	0	0	0	0
Base	~46		SLS4	1,4875	-0,7743	0	0	0	0
Base	~46		SLS5	1,904	-0,8945	0	0	0	0
Base	~46		SLS6	0,952	0,4077	0	0	0	0
Base	~46		SLS7	1,3686	0,2876	0	0	0	0
Base	~46		ACC1	1,5826	-0,7463	0	0	0	0
Base	~46		ACC2	1,9851	-0,9862	0	0	0	0
Base	~46		ACC3	2,2587	-0,6649	0	0	0	0
Base	~46		ACC4	2,6612	-0,9048	0	0	0	0
Base	~46		ACC5	1,3497	-0,438	0	0	0	0
Base	~46		ACC6	1,5525	-0,4135	0	0	0	0
Base	~46		ACC7	2,6912	-1,2376	0	0	0	0
Base	~46		ACC8	2,8941	-1,2132	0	0	0	0
Base	~46		ENV Max	3,2751	-0,2157	0	0	0	0
Base	~46		ENV Min	2,5436	-1,2795	0	0	0	0
Base	~49		Dead	-0,3027	-1,1167	12,5349	0	0	0
Base	~49		Live	-0,1902	-0,183	1,6689	0	0	0
Base	~49		EXSTAT	-0,4323	0,0002	1,018E-05	0	0	0
Base	~49		EYSTAT	1,0933	-0,1824	-5,3745	0	0	0
Base	~49		Wx	-0,4405	0,0238	0,0006	0	0	0
Base	~49		Wy	2,2402	-0,036	-9,5947	0	0	0
Base	~49		ULS1	-0,6939	-1,7821	19,4255	0	0	0
Base	~49		ULS2	-1,0904	-1,7606	19,426	0	0	0
Base	~49		ULS3	1,3223	-1,8145	10,7903	0	0	0
Base	~49		ULS4	-1,0694	-1,4719	16,923	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	~49		ULS5	-1,2691	-1,664	18,6754	0	0	0
Base	~49		ULS6	2,9517	-1,5616	2,5301	0	0	0
Base	~49		ULS7	2,752	-1,7537	4,2824	0	0	0
Base	~49		ULS8	-0,588	-1,3912	15,0383	0	0	0
Base	~49		ULS9	-0,9844	-1,3698	15,0388	0	0	0
Base	~49		ULS10	1,4282	-1,4236	6,4031	0	0	0
Base	~49		ULS11	-0,9635	-1,081	12,5358	0	0	0
Base	~49		ULS12	-1,1631	-1,2731	14,2882	0	0	0
Base	~49		ULS13	3,0576	-1,1708	-1,8571	0	0	0
Base	~49		ULS14	2,858	-1,3629	-0,1048	0	0	0
Base	~49		SLS1	-0,4929	-1,2997	14,2038	0	0	0
Base	~49		SLS2	-0,7572	-1,2854	14,2042	0	0	0
Base	~49		SLS3	0,8512	-1,3213	8,447	0	0	0
Base	~49		SLS4	-0,7432	-1,0929	12,5355	0	0	0
Base	~49		SLS5	-0,8763	-1,221	13,7037	0	0	0
Base	~49		SLS6	1,9375	-1,1528	2,9402	0	0	0
Base	~49		SLS7	1,8044	-1,2808	4,1085	0	0	0
Base	~49		ACC1	-0,5211	-1,281	11,9239	0	0	0
Base	~49		ACC2	-1,1771	-1,1716	15,1486	0	0	0
Base	~49		ACC3	0,3434	-1,2815	11,9239	0	0	0
Base	~49		ACC4	-0,3125	-1,1721	15,1486	0	0	0
Base	~49		ACC5	0,5467	-1,4089	8,1617	0	0	0
Base	~49		ACC6	0,8061	-1,409	8,1617	0	0	0
Base	~49		ACC7	-1,6398	-1,044	18,9108	0	0	0
Base	~49		ACC8	-1,3804	-1,0442	18,9108	0	0	0
Base	~49		ENV Max	1,3223	-1,7606	19,426	0	0	0
Base	~49		ENV Min	-1,0904	-1,8145	10,7903	0	0	0
Base	~52		Dead	-2,0988	-0,7273	0	0	0	0
Base	~52		Live	-0,8053	-0,1742	0	0	0	0
Base	~52		EXSTAT	-0,3359	0,04	0	0	0	0
Base	~52		EYSTAT	2,1473	-0,8806	0	0	0	0
Base	~52		Wx	-0,2475	-0,0266	0	0	0	0
Base	~52		Wy	3,8655	-1,5494	0	0	0	0
Base	~52		ULS1	-4,0414	-1,2432	0	0	0	0
Base	~52		ULS2	-4,2641	-1,2672	0	0	0	0
Base	~52		ULS3	-0,5624	-2,6377	0	0	0	0
Base	~52		ULS4	-3,2046	-1,0218	0	0	0	0
Base	~52		ULS5	-4,0502	-1,2047	0	0	0	0
Base	~52		ULS6	2,9649	-3,3061	0	0	0	0
Base	~52		ULS7	2,1193	-3,489	0	0	0	0
Base	~52		ULS8	-3,3068	-0,9887	0	0	0	0
Base	~52		ULS9	-3,5295	-1,0126	0	0	0	0
Base	~52		ULS10	0,1722	-2,3832	0	0	0	0
Base	~52		ULS11	-2,4701	-0,7672	0	0	0	0
Base	~52		ULS12	-3,3156	-0,9502	0	0	0	0
Base	~52		ULS13	3,6995	-3,0515	0	0	0	0
Base	~52		ULS14	2,8539	-3,2344	0	0	0	0
Base	~52		SLS1	-2,9041	-0,9016	0	0	0	0
Base	~52		SLS2	-3,0526	-0,9175	0	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	~52		SLS3	-0,5848	-1,8312	0	0	0	0
Base	~52		SLS4	-2,3463	-0,7539	0	0	0	0
Base	~52		SLS5	-2,91	-0,8759	0	0	0	0
Base	~52		SLS6	1,7667	-2,2768	0	0	0	0
Base	~52		SLS7	1,203	-2,3987	0	0	0	0
Base	~52		ACC1	-2,2737	-1,056	0	0	0	0
Base	~52		ACC2	-3,562	-0,5277	0	0	0	0
Base	~52		ACC3	-1,6019	-1,1361	0	0	0	0
Base	~52		ACC4	-2,8903	-0,6077	0	0	0	0
Base	~52		ACC5	-0,5354	-1,7004	0	0	0	0
Base	~52		ACC6	-0,3339	-1,7244	0	0	0	0
Base	~52		ACC7	-4,8301	0,0607	0	0	0	0
Base	~52		ACC8	-4,6285	0,0367	0	0	0	0
Base	~52		ENV Max	-0,5624	-1,2432	0	0	0	0
Base	~52		ENV Min	-4,2641	-2,6377	0	0	0	0
Base	~56		Dead	-0,7139	-1,1889	0	0	0	0
Base	~56		Live	-0,1854	-0,4426	0	0	0	0
Base	~56		EXSTAT	-0,1075	-0,0037	0	0	0	0
Base	~56		EYSTAT	-0,515	-0,3026	0	0	0	0
Base	~56		Wx	-0,0135	-0,2123	0	0	0	0
Base	~56		Wy	-1,2181	-0,2578	0	0	0	0
Base	~56		ULS1	-1,2418	-2,2689	0	0	0	0
Base	~56		ULS2	-1,254	-2,4599	0	0	0	0
Base	~56		ULS3	-2,3381	-2,5009	0	0	0	0
Base	~56		ULS4	-0,984	-1,9234	0	0	0	0
Base	~56		ULS5	-1,1787	-2,3881	0	0	0	0
Base	~56		ULS6	-2,7909	-1,9917	0	0	0	0
Base	~56		ULS7	-2,9855	-2,4564	0	0	0	0
Base	~56		ULS8	-0,992	-1,8528	0	0	0	0
Base	~56		ULS9	-1,0041	-2,0438	0	0	0	0
Base	~56		ULS10	-2,0882	-2,0848	0	0	0	0
Base	~56		ULS11	-0,7342	-1,5073	0	0	0	0
Base	~56		ULS12	-0,9288	-1,972	0	0	0	0
Base	~56		ULS13	-2,541	-1,5756	0	0	0	0
Base	~56		ULS14	-2,7357	-2,0403	0	0	0	0
Base	~56		SLS1	-0,8993	-1,6315	0	0	0	0
Base	~56		SLS2	-0,9074	-1,7588	0	0	0	0
Base	~56		SLS3	-1,6301	-1,7861	0	0	0	0
Base	~56		SLS4	-0,7274	-1,4012	0	0	0	0
Base	~56		SLS5	-0,8572	-1,711	0	0	0	0
Base	~56		SLS6	-1,932	-1,4467	0	0	0	0
Base	~56		SLS7	-2,0617	-1,7565	0	0	0	0
Base	~56		ACC1	-1,0871	-1,5489	0	0	0	0
Base	~56		ACC2	-0,7781	-1,3674	0	0	0	0
Base	~56		ACC3	-0,8721	-1,5415	0	0	0	0
Base	~56		ACC4	-0,5631	-1,3599	0	0	0	0
Base	~56		ACC5	-1,3724	-1,7581	0	0	0	0
Base	~56		ACC6	-1,3079	-1,7559	0	0	0	0
Base	~56		ACC7	-0,3424	-1,1529	0	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	~56		ACC8	-0,2779	-1,1507	0	0	0	0
Base	~56		ENV Max	-1,2418	-2,2689	0	0	0	0
Base	~56		ENV Min	-2,3381	-2,5009	0	0	0	0
Base	~59		Dead	-1,2441	0	12,6287	0	0	0
Base	~59		Live	-0,2078	0	1,7257	0	0	0
Base	~59		EXSTAT	-0,1136	0	-0,037	0	0	0
Base	~59		EYSTAT	0	0,2454	0	0	0	0
Base	~59		Wx	-0,0144	-0,0078	-0,0447	0	0	0
Base	~59		Wy	0,0229	0,665	0,0094	0	0	0
Base	~59		ULS1	-1,9912	0	19,6374	0	0	0
Base	~59		ULS2	-2,0041	-0,007	19,5971	0	0	0
Base	~59		ULS3	-1,9706	0,5985	19,6458	0	0	0
Base	~59		ULS4	-1,7011	-0,0117	16,9817	0	0	0
Base	~59		ULS5	-1,9193	-0,0117	18,7937	0	0	0
Base	~59		ULS6	-1,6452	0,9974	17,0629	0	0	0
Base	~59		ULS7	-1,8634	0,9974	18,8749	0	0	0
Base	~59		ULS8	-1,5557	0	15,2173	0	0	0
Base	~59		ULS9	-1,5687	-0,007	15,177	0	0	0
Base	~59		ULS10	-1,5352	0,5985	15,2258	0	0	0
Base	~59		ULS11	-1,2657	-0,0117	12,5617	0	0	0
Base	~59		ULS12	-1,4838	-0,0117	14,3736	0	0	0
Base	~59		ULS13	-1,2098	0,9974	12,6429	0	0	0
Base	~59		ULS14	-1,4279	0,9974	14,4549	0	0	0
Base	~59		SLS1	-1,4518	0	14,3545	0	0	0
Base	~59		SLS2	-1,4605	-0,0047	14,3276	0	0	0
Base	~59		SLS3	-1,4381	0,399	14,3601	0	0	0
Base	~59		SLS4	-1,2585	-0,0078	12,584	0	0	0
Base	~59		SLS5	-1,4039	-0,0078	13,792	0	0	0
Base	~59		SLS6	-1,2212	0,665	12,6382	0	0	0
Base	~59		SLS7	-1,3666	0,665	13,8462	0	0	0
Base	~59		ACC1	-1,4823	0,0736	13,6272	0	0	0
Base	~59		ACC2	-1,4823	-0,0736	13,6272	0	0	0
Base	~59		ACC3	-1,2551	0,0736	13,7011	0	0	0
Base	~59		ACC4	-1,2551	-0,0736	13,7011	0	0	0
Base	~59		ACC5	-1,4028	0,2454	13,6531	0	0	0
Base	~59		ACC6	-1,3347	0,2454	13,6753	0	0	0
Base	~59		ACC7	-1,4028	-0,2454	13,6531	0	0	0
Base	~59		ACC8	-1,3347	-0,2454	13,6753	0	0	0
Base	~59		ENV Max	-1,9706	0,5985	19,6458	0	0	0
Base	~59		ENV Min	-2,0041	-0,007	19,5971	0	0	0
Base	~62		Dead	-0,7139	1,1889	0	0	0	0
Base	~62		Live	-0,1854	0,4426	0	0	0	0
Base	~62		EXSTAT	-0,1075	0,0037	0	0	0	0
Base	~62		EYSTAT	0,515	-0,3026	0	0	0	0
Base	~62		Wx	-0,033	0,1949	0	0	0	0
Base	~62		Wy	1,1278	-0,3022	0	0	0	0
Base	~62		ULS1	-1,2418	2,2689	0	0	0	0
Base	~62		ULS2	-1,2715	2,4443	0	0	0	0
Base	~62		ULS3	-0,2268	1,9969	0	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	~62		ULS4	-1,0133	1,8973	0	0	0	0
Base	~62		ULS5	-1,2079	2,3621	0	0	0	0
Base	~62		ULS6	0,7279	1,1517	0	0	0	0
Base	~62		ULS7	0,5332	1,6164	0	0	0	0
Base	~62		ULS8	-0,992	1,8528	0	0	0	0
Base	~62		ULS9	-1,0217	2,0282	0	0	0	0
Base	~62		ULS10	0,023	1,5808	0	0	0	0
Base	~62		ULS11	-0,7634	1,4812	0	0	0	0
Base	~62		ULS12	-0,9581	1,946	0	0	0	0
Base	~62		ULS13	0,9778	0,7356	0	0	0	0
Base	~62		ULS14	0,7831	1,2003	0	0	0	0
Base	~62		SLS1	-0,8993	1,6315	0	0	0	0
Base	~62		SLS2	-0,9191	1,7484	0	0	0	0
Base	~62		SLS3	-0,2226	1,4502	0	0	0	0
Base	~62		SLS4	-0,7469	1,3838	0	0	0	0
Base	~62		SLS5	-0,8767	1,6936	0	0	0	0
Base	~62		SLS6	0,4139	0,8867	0	0	0	0
Base	~62		SLS7	0,2841	1,1965	0	0	0	0
Base	~62		ACC1	-0,7781	1,3674	0	0	0	0
Base	~62		ACC2	-1,0871	1,5489	0	0	0	0
Base	~62		ACC3	-0,5631	1,3599	0	0	0	0
Base	~62		ACC4	-0,8721	1,5415	0	0	0	0
Base	~62		ACC5	-0,3424	1,1529	0	0	0	0
Base	~62		ACC6	-0,2779	1,1507	0	0	0	0
Base	~62		ACC7	-1,3724	1,7581	0	0	0	0
Base	~62		ACC8	-1,3079	1,7559	0	0	0	0
Base	~62		ENV Max	-0,2268	2,4443	0	0	0	0
Base	~62		ENV Min	-1,2715	1,9969	0	0	0	0
Base	~65		Dead	0	0	24,9458	0	0	0
Base	~65		Live	0	0	3,3163	0	0	0
Base	~65		EXSTAT	0	0	0	0	0	0
Base	~65		EYSTAT	0	0	0	0	0	0
Base	~65		Wx	0	0	-0,0005	0	0	0
Base	~65		Wy	0	0	-0,0009	0	0	0
Base	~65		ULS1	0	0	38,6513	0	0	0
Base	~65		ULS2	0	0	38,6509	0	0	0
Base	~65		ULS3	0	0	38,6505	0	0	0
Base	~65		ULS4	0	0	33,6761	0	0	0
Base	~65		ULS5	0	0	37,1582	0	0	0
Base	~65		ULS6	0	0	33,6755	0	0	0
Base	~65		ULS7	0	0	37,1576	0	0	0
Base	~65		ULS8	0	0	29,9203	0	0	0
Base	~65		ULS9	0	0	29,9198	0	0	0
Base	~65		ULS10	0	0	29,9194	0	0	0
Base	~65		ULS11	0	0	24,9451	0	0	0
Base	~65		ULS12	0	0	28,4272	0	0	0
Base	~65		ULS13	0	0	24,9444	0	0	0
Base	~65		ULS14	0	0	28,4266	0	0	0
Base	~65		SLS1	0	0	28,2621	0	0	0

Table 5.5 - Joint Reactions (continued)

Story	Joint Label	Unique Name	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	~65		SLS2	0	0	28,2618	0	0	0
Base	~65		SLS3	0	0	28,2616	0	0	0
Base	~65		SLS4	0	0	24,9453	0	0	0
Base	~65		SLS5	0	0	27,2667	0	0	0
Base	~65		SLS6	0	0	24,9449	0	0	0
Base	~65		SLS7	0	0	27,2663	0	0	0
Base	~65		ACC1	0	0	26,9356	0	0	0
Base	~65		ACC2	0	0	26,9356	0	0	0
Base	~65		ACC3	0	0	26,9356	0	0	0
Base	~65		ACC4	0	0	26,9356	0	0	0
Base	~65		ACC5	0	0	26,9356	0	0	0
Base	~65		ACC6	0	0	26,9356	0	0	0
Base	~65		ACC7	0	0	26,9356	0	0	0
Base	~65		ACC8	0	0	26,9356	0	0	0
Base	~65		ENV Max	0	0	38,6513	0	0	0
Base	~65		ENV Min	0	0	38,6505	0	0	0

5.4 Modal Results

Table 5.6 - Modal Periods and Frequencies

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad ² /sec ²
Modal	1	0,177	5,655	35,5341	1262,6756
Modal	2	0,103	9,702	60,9619	3716,3488
Modal	3	0,102	9,777	61,4294	3773,5664
Modal	4	0,102	9,811	61,6463	3800,2719
Modal	5	0,096	10,381	65,226	4254,4267
Modal	6	0,02	49,113	308,5834	95223,6907
Modal	7	0,017	58,703	368,844	136045,8698
Modal	8	0,015	65,442	411,1829	169071,3546
Modal	9	0,012	83,25	523,0743	273606,7385
Modal	10	0,007	152,743	959,7122	921047,552
Modal	11	0,005	219,396	1378,5032	1900271
Modal	12	0,005	220,389	1384,7432	1917514

Table 5.7 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	1	0,177	0	0,277	0	0	0,277	0
Modal	2	0,103	0,0034	0	0	0,0034	0,277	0
Modal	3	0,102	0	0	0	0,0034	0,277	0
Modal	4	0,102	0	0,0008	0	0,0034	0,2778	0
Modal	5	0,096	0,0033	0	0	0,0067	0,2778	0
Modal	6	0,02	0	0,0653	0	0,0067	0,3431	0
Modal	7	0,017	0	0,4073	0	0,0067	0,7504	0
Modal	8	0,015	0	0,0388	0	0,0067	0,7892	0
Modal	9	0,012	0,7191	0	0	0,7258	0,7892	0
Modal	10	0,007	0	0,0024	0	0,7258	0,7915	0
Modal	11	0,005	0	0,0001	0	0,7258	0,7916	0

Table 5.7 - Modal Participating Mass Ratios (Part 1 of 2, continued)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	12	0,005	0,0241	0	0	0,7498	0,7916	0

Table 5.7 - Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	1	0,7726	0	0,0505	0,7726	0	0,0505
Modal	2	0	0,0351	0	0,7726	0,0351	0,0505
Modal	3	0	0	0	0,7726	0,0351	0,0505
Modal	4	1,222E-05	0	0,0006	0,7726	0,0351	0,0511
Modal	5	0	0,0039	0	0,7726	0,039	0,0511
Modal	6	0,0565	0	0,0055	0,8292	0,039	0,0566
Modal	7	0,1026	0	0,0108	0,9318	0,039	0,0674
Modal	8	0,0156	0	0,0016	0,9474	0,039	0,069
Modal	9	0	0,001	0	0,9474	0,04	0,069
Modal	10	0,0006	0	0,0076	0,948	0,04	0,0766
Modal	11	1,539E-05	0	0,0114	0,948	0,04	0,088
Modal	12	0	0,1861	0	0,948	0,2261	0,088

Table 5.8 - Modal Load Participation Ratios

Case	Item Type	Item	Static %	Dynamic %
Modal	Acceleration	UX	99,47	74,98
Modal	Acceleration	UY	100	79,16
Modal	Acceleration	UZ	0	0

Table 5.9 - Modal Direction Factors

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	1	0,177	0	0,969	0	0,031
Modal	2	0,103	1	0	0	0
Modal	3	0,102	1	0	0	0
Modal	4	0,102	0	0,996	0	0,004
Modal	5	0,096	1	0	0	0
Modal	6	0,02	0	0,966	0	0,034
Modal	7	0,017	0	0,995	0	0,005
Modal	8	0,015	0	0,342	0	0,658
Modal	9	0,012	1	0	0	0
Modal	10	0,007	0	0,729	0	0,271
Modal	11	0,005	0	0,957	0	0,043
Modal	12	0,005	1	0	0	0

6 Design Data

This chapter provides design data and results.

6.1 Steel Frame Design

Table 6.1 - Steel Frame Preferences - Eurocode 3-2005

Item	Value
Country	CEN Default
Combination Equation	Eq. 6.10
Reliability Class	Class 2
Interaction Factors Method	Method 2 (Annex-B)
Multi-Response Design	Step-by-Step - All
Frame Type	Secondary
Behavior Factor	1,5
System Overstrength Factor	1
Consider P-Delta Done?	No
GammaM0	1
GammaM1	1
GammaM2	1,25
Ignore Seismic Code?	No
Ignore Special Seismic Load?	No
Doubler Plate Plug-Welded?	Yes
Consider Deflection?	Yes
DL Ratio	120
SDL+LL Ratio	120
LL Ratio	360
Total Ratio	240
Total Camber Limit	240
Pattern Live Load Factor	0,75
D/C Ratio Limit	0,95

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 1 of 6)

Story	Label	Unique Name	Design Type	Design Section	Frame Type	Section Class	Column Buckling Curve (y-y)	Column Buckling Curve (z-z)	Column Buckling Curve (LTB)
Story3	C1	25	Column	Program Determined	Secondary	Class 1	a0	a0	a
Story3	C3	27	Column	Program Determined	Secondary	Class 1	a0	a0	a
Story3	C4	28	Column	Program Determined	Secondary	Class 1	a0	a0	a
Story3	C8	29	Column	Program Determined	Secondary	Class 1	a0	a0	a
Story2	C1	44	Column	Program Determined	Secondary	Class 1	a0	a0	a
Story2	C3	43	Column	Program Determined	Secondary	Class 1	a0	a0	a
Story2	C4	41	Column	Program Determined	Secondary	Class 1	a0	a0	a
Story2	C8	42	Column	Program Determined	Secondary	Class 1	a0	a0	a
Story3	B6	30	Beam	Program Determined	Secondary	Class 1	a0	a0	a
Story3	B7	31	Beam	Program Determined	Secondary	Class 1	a0	a0	a
Story3	B8	32	Beam	Program Determined	Secondary	Class 1	a0	a0	a
Story3	B9	33	Beam	Program Determined	Secondary	Class 1	a0	a0	a
Story3	B10	34	Beam	Program Determined	Secondary	Class 1	a0	a0	a
Story2	B6	9	Beam	Program Determined	Secondary	Class 1	a0	a0	a
Story2	B7	10	Beam	Program Determined	Secondary	Class 1	a0	a0	a
Story2	B8	11	Beam	Program Determined	Secondary	Class 1	a0	a0	a
Story2	B9	12	Beam	Program Determined	Secondary	Class 1	a0	a0	a

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 1 of 6, continued)

Story	Label	Unique Name	Design Type	Design Section	Frame Type	Section Class	Column Buckling Curve (y-y)	Column Buckling Curve (z-z)	Column Buckling Curve (LTB)
Story3	D15	13	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D16	14	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D17	15	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D18	16	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D23	21	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D24	22	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D25	23	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D26	24	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D27	26	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D28	37	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D29	38	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story3	D30	39	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D1	1	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D2	2	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D3	3	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D4	4	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D5	5	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D6	6	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D13	7	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D14	8	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D19	17	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D20	18	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D21	19	Brace	Program Determined	Secondary	Class 1	a0	a0	a
Story2	D22	20	Brace	Program Determined	Secondary	Class 1	a0	a0	a

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 2 of 6)

Story	Label	Unique Name	System Overstrength Factor, Omega	Is Rolled section?	Check Deflection?	Deflection Type	DL Ratio	SDL+LL Ratio	LL Ratio	Total Ratio
Story3	C1	25	1	Yes	Yes	Ratio	120	120	360	240
Story3	C3	27	1	Yes	Yes	Ratio	120	120	360	240
Story3	C4	28	1	Yes	Yes	Ratio	120	120	360	240
Story3	C8	29	1	Yes	Yes	Ratio	120	120	360	240
Story2	C1	44	1	Yes	Yes	Ratio	120	120	360	240
Story2	C3	43	1	Yes	Yes	Ratio	120	120	360	240
Story2	C4	41	1	Yes	Yes	Ratio	120	120	360	240
Story2	C8	42	1	Yes	Yes	Ratio	120	120	360	240
Story3	B6	30	1	Yes	Yes	Ratio	120	120	360	240
Story3	B7	31	1	Yes	Yes	Ratio	120	120	360	240
Story3	B8	32	1	Yes	Yes	Ratio	120	120	360	240
Story3	B9	33	1	Yes	Yes	Ratio	120	120	360	240
Story3	B10	34	1	Yes	Yes	Ratio	120	120	360	240
Story2	B6	9	1	Yes	Yes	Ratio	120	120	360	240
Story2	B7	10	1	Yes	Yes	Ratio	120	120	360	240
Story2	B8	11	1	Yes	Yes	Ratio	120	120	360	240
Story2	B9	12	1	Yes	Yes	Ratio	120	120	360	240
Story3	D15	13	1	Yes	Yes	Ratio	120	120	360	240

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 2 of 6, continued)

Story	Label	Unique Name	System Overstrength Factor, Omega	Is Rolled section?	Check Deflection?	Deflection Type	DL Ratio	SDL+LL Ratio	LL Ratio	Total Ratio
Story3	D16	14	1	Yes	Yes	Ratio	120	120	360	240
Story3	D17	15	1	Yes	Yes	Ratio	120	120	360	240
Story3	D18	16	1	Yes	Yes	Ratio	120	120	360	240
Story3	D23	21	1	Yes	Yes	Ratio	120	120	360	240
Story3	D24	22	1	Yes	Yes	Ratio	120	120	360	240
Story3	D25	23	1	Yes	Yes	Ratio	120	120	360	240
Story3	D26	24	1	Yes	Yes	Ratio	120	120	360	240
Story3	D27	26	1	Yes	Yes	Ratio	120	120	360	240
Story3	D28	37	1	Yes	Yes	Ratio	120	120	360	240
Story3	D29	38	1	Yes	Yes	Ratio	120	120	360	240
Story3	D30	39	1	Yes	Yes	Ratio	120	120	360	240
Story2	D1	1	1	Yes	Yes	Ratio	120	120	360	240
Story2	D2	2	1	Yes	Yes	Ratio	120	120	360	240
Story2	D3	3	1	Yes	Yes	Ratio	120	120	360	240
Story2	D4	4	1	Yes	Yes	Ratio	120	120	360	240
Story2	D5	5	1	Yes	Yes	Ratio	120	120	360	240
Story2	D6	6	1	Yes	Yes	Ratio	120	120	360	240
Story2	D13	7	1	Yes	Yes	Ratio	120	120	360	240
Story2	D14	8	1	Yes	Yes	Ratio	120	120	360	240
Story2	D19	17	1	Yes	Yes	Ratio	120	120	360	240
Story2	D20	18	1	Yes	Yes	Ratio	120	120	360	240
Story2	D21	19	1	Yes	Yes	Ratio	120	120	360	240
Story2	D22	20	1	Yes	Yes	Ratio	120	120	360	240

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 3 of 6)

Story	Label	Unique Name	DL Absolute mm	SDL+LL Absolute mm	LL Absolute mm	Total Absolute mm	Camber Absolute mm	Camber mm	Net Area Ratio	LLRF
Story3	C1	25						0	1	1
Story3	C3	27						0	1	1
Story3	C4	28						0	1	1
Story3	C8	29						0	1	1
Story2	C1	44						0	1	1
Story2	C3	43						0	1	1
Story2	C4	41						0	1	1
Story2	C8	42						0	1	1
Story3	B6	30						0	1	1
Story3	B7	31						0	1	1
Story3	B8	32						0	1	1
Story3	B9	33						0	1	1
Story3	B10	34						0	1	1
Story2	B6	9						0	1	1
Story2	B7	10						0	1	1
Story2	B8	11						0	1	1
Story2	B9	12						0	1	1
Story3	D15	13						0	1	1
Story3	D16	14						0	1	1
Story3	D17	15						0	1	1

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 3 of 6, continued)

Story	Label	Unique Name	DL Absolute mm	SDL+LL Absolute mm	LL Absolute mm	Total Absolute mm	Camber Absolute mm	Camber mm	Net Area Ratio	LLRF
Story3	D18	16						0	1	1
Story3	D23	21						0	1	1
Story3	D24	22						0	1	1
Story3	D25	23						0	1	1
Story3	D26	24						0	1	1
Story3	D27	26						0	1	1
Story3	D28	37						0	1	1
Story3	D29	38						0	1	1
Story3	D30	39						0	1	1
Story2	D1	1						0	1	1
Story2	D2	2						0	1	1
Story2	D3	3						0	1	1
Story2	D4	4						0	1	1
Story2	D5	5						0	1	1
Story2	D6	6						0	1	1
Story2	D13	7						0	1	1
Story2	D14	8						0	1	1
Story2	D19	17						0	1	1
Story2	D20	18						0	1	1
Story2	D21	19						0	1	1
Story2	D22	20						0	1	1

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 4 of 6)

Story	Label	Unique Name	Unbraced Length Ratio (Minor)	Unbraced Length Ratio (LTB)	Effective Length Factor Braced (K1 Major)	Effective Length Factor Braced (K1 Minor)	Effective Length Factor Sway (K2 Major)	Effective Length Factor Sway (K2 Minor)	Effective Length Factor (K LTB)
Story3	C1	25	0,973333	0,973333	1	1	1	1	1
Story3	C3	27	0,973333	0,973333	1	1	1	1	1
Story3	C4	28	0,973333	0,973333	1	1	1	1	1
Story3	C8	29	0,973333	0,973333	1	1	1	1	1
Story2	C1	44	0,972222	0,972222	1	1	1	1	1
Story2	C3	43	0,972222	0,972222	1	1	1	1	1
Story2	C4	41	0,972222	0,972222	1	1	1	1	1
Story2	C8	42	0,972222	0,972222	1	1	1	1	1
Story3	B6	30	0,469072	0,469072	1	1	1	1	1
Story3	B7	31	0,928144	0,928144	1	1	1	1	1
Story3	B8	32	0,469072	0,469072	1	1	1	1	1
Story3	B9	33	0,928144	0,928144	1	1	1	1	1
Story3	B10	34	1	1	1	1	1	1	1
Story2	B6	9	0,938144	0,938144	1	1	1	1	1
Story2	B7	10	0,928144	0,928144	1	1	1	1	1
Story2	B8	11	0,938144	0,938144	1	1	1	1	1
Story2	B9	12	0,928144	0,928144	1	1	1	1	1
Story3	D15	13	2	2	1	1	1	1	1
Story3	D16	14	2	2	1	1	1	1	1
Story3	D17	15	2	2	1	1	1	1	1

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 4 of 6, continued)

Story	Label	Unique Name	Unbraced Length Ratio (Minor)	Unbraced Length Ratio (LTB)	Effective Length Factor Braced (K1 Major)	Effective Length Factor Braced (K1 Minor)	Effective Length Factor Sway (K2 Major)	Effective Length Factor Sway (K2 Minor)	Effective Length Factor (K LTB)
Story3	D18	16	2	2	1	1	1	1	1
Story3	D23	21	2	2	1	1	1	1	1
Story3	D24	22	2	2	1	1	1	1	1
Story3	D25	23	2	2	1	1	1	1	1
Story3	D26	24	2	2	1	1	1	1	1
Story3	D27	26	2	2	1	1	1	1	1
Story3	D28	37	2	2	1	1	1	1	1
Story3	D29	38	2	2	1	1	1	1	1
Story3	D30	39	2	2	1	1	1	1	1
Story2	D1	1	2	2	1	1	1	1	1
Story2	D2	2	2	2	1	1	1	1	1
Story2	D3	3	2	2	1	1	1	1	1
Story2	D4	4	2	2	1	1	1	1	1
Story2	D5	5	2	2	1	1	1	1	1
Story2	D6	6	2	2	1	1	1	1	1
Story2	D13	7	2	2	1	1	1	1	1
Story2	D14	8	2	2	1	1	1	1	1
Story2	D19	17	2	2	1	1	1	1	1
Story2	D20	18	2	2	1	1	1	1	1
Story2	D21	19	2	2	1	1	1	1	1
Story2	D22	20	2	2	1	1	1	1	1

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 5 of 6)

Story	Label	Unique Name	Moment Coefficient (kyy Major)	Moment Coefficient (kzz Minor)	Moment Coefficient (kzy)	Moment Coefficient (kyz)	Yield stress, Fy MPa	Material Overstrength Factor, Gamma _{ov}
Story3	C1	25	0,540646	0,635223	23323750	23323750	0	1
Story3	C3	27	0,540657	0,635231	23323750	23323750	0	1
Story3	C4	28	0,549445	0,556406	23323750	23323750	0	1
Story3	C8	29	0,533219	0,556393	23323750	23323750	0	1
Story2	C1	44	0,552028	0,55235	23323750	23323750	0	1
Story2	C3	43	1	1	23323750	23323750	0	1
Story2	C4	41	0,531736	0,521541	23323750	23323750	0	1
Story2	C8	42	0,545762	0,407327	23323750	23323750	0	1
Story3	B6	30	1	1	15921250	15921250	0	1
Story3	B7	31	0,95	1	15921250	15921250	0	1
Story3	B8	32	1	1	15921250	15921250	0	1
Story3	B9	33	1	1	15921250	15921250	0	1
Story3	B10	34	1	1	15921250	15921250	0	1
Story2	B6	9	1	1	15921250	15921250	0	1
Story2	B7	10	0,95	1	15921250	15921250	0	1
Story2	B8	11	1	1	15921250	15921250	0	1
Story2	B9	12	1	1	15921250	15921250	0	1
Story3	D15	13	0,613337	1,022325	2316834	2316834	0	1
Story3	D16	14	0,539083	1,018286	2316834	2316834	0	1

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 5 of 6, continued)

Story	Label	Unique Name	Moment Coefficient (kyy Major)	Moment Coefficient (kzz Minor)	Moment Coefficient (kzy)	Moment Coefficient (kyz)	Yield stress, Fy MPa	Material Overstrength Factor, Gamma _{ov}
Story3	D17	15	0,48401	1,16652	2316834	2316834	0	1
Story3	D18	16	0,4189	1,122775	2316834	2316834	0	1
Story3	D23	21	1	1	2316834	2316834	0	1
Story3	D24	22	1	1	2316834	2316834	0	1
Story3	D25	23	0,530758	1,204447	2316834	2316834	0	1
Story3	D26	24	0,440802	1,199132	2316834	2316834	0	1
Story3	D27	26	0,585879	1,118789	2316834	2316834	0	1
Story3	D28	37	0,489599	1,108747	2316834	2316834	0	1
Story3	D29	38	0,59735	1,162732	2316834	2316834	0	1
Story3	D30	39	0,494678	1,157922	2316834	2316834	0	1
Story2	D1	1	0,477109	1,012842	2316834	2316834	0	1
Story2	D2	2	0,435101	1,007939	2316834	2316834	0	1
Story2	D3	3	0,541625	1,134075	2316834	2316834	0	1
Story2	D4	4	0,4636	1,129103	2316834	2316834	0	1
Story2	D5	5	0,701211	1,147946	2316834	2316834	0	1
Story2	D6	6	0,582965	1,14038	2316834	2316834	0	1
Story2	D13	7	0,926965	1,415427	2316834	2316834	0	1
Story2	D14	8	0,753789	1,410817	2316834	2316834	0	1
Story2	D19	17	0,522725	1,006694	2316834	2316834	0	1
Story2	D20	18	1	1	2316834	2316834	0	1
Story2	D21	19	0,531454	1,18941	2316834	2316834	0	1
Story2	D22	20	0,425683	1,184474	2316834	2316834	0	1

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 6 of 6)

Story	Label	Unique Name	Tensile Capacity, N _r , Rd kN	Major Bending Capacity, M _{c3} , Rd kN-m	Minor Bending Capacity, M _{c2} , Rd kN-m	Buckling Resistance Moment, M _b , Rd kN-m	Major Average Shear Capacity, V ₂ , Rd kN	Minor Average Shear Capacity, V ₃ , Rd kN	D/C Ratio Limit
Story3	C1	25	540,5	23,3238	23,3238	0	179,094	162,8127	0,95
Story3	C3	27	540,5	23,3238	23,3238	0	179,094	162,8127	0,95
Story3	C4	28	540,5	23,3238	23,3238	0	179,094	162,8127	0,95
Story3	C8	29	540,5	23,3238	23,3238	0	179,094	162,8127	0,95
Story2	C1	44	540,5	23,3238	23,3238	0	179,094	162,8127	0,95
Story2	C3	43	540,5	23,3238	23,3238	0	179,094	162,8127	0,95
Story2	C4	41	540,5	23,3238	23,3238	0	179,094	162,8127	0,95
Story2	C8	42	540,5	23,3238	23,3238	0	179,094	162,8127	0,95
Story3	B6	30	446,5	15,9213	15,9213	0	146,5314	135,6773	0,95
Story3	B7	31	446,5	15,9213	15,9213	0	146,5314	135,6773	0,95
Story3	B8	32	446,5	15,9213	15,9213	0	146,5314	135,6773	0,95
Story3	B9	33	446,5	15,9213	15,9213	0	146,5314	135,6773	0,95
Story3	B10	34	446,5	15,9213	15,9213	0	146,5314	135,6773	0,95
Story2	B6	9	446,5	15,9213	15,9213	0	146,5314	135,6773	0,95
Story2	B7	10	446,5	15,9213	15,9213	0	146,5314	135,6773	0,95
Story2	B8	11	446,5	15,9213	15,9213	0	146,5314	135,6773	0,95
Story2	B9	12	446,5	15,9213	15,9213	0	146,5314	135,6773	0,95
Story3	D15	13	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95

Table 6.2 - Steel Frame Overwrites - Eurocode 3-2005 (Part 6 of 6, continued)

Story	Label	Unique Name	Tensile Capacity, Nr,Rd kN	Major Bending Capacity, Mc3,Rd kN-m	Minor Bending Capacity, Mc2,Rd kN-m	Buckling Resistance Moment, Mb,Rd kN-m	Major Average Shear Capacity, V2,Rd kN	Minor Average Shear Capacity, V3,Rd kN	D/C Ratio Limit
Story3	D16	14	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story3	D17	15	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story3	D18	16	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story3	D23	21	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story3	D24	22	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story3	D25	23	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story3	D26	24	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story3	D27	26	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story3	D28	37	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story3	D29	38	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story3	D30	39	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D1	1	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D2	2	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D3	3	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D4	4	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D5	5	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D6	6	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D13	7	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D14	8	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D19	17	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D20	18	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D21	19	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95
Story2	D22	20	126,9093	2,3168	2,3168	0	46,6458	46,6458	0,95

Table 6.3 - Steel Column Envelope (Part 1 of 2)

Label	Story	Section	Moment Interaction Check	PMM Combo	V22 Ratio	V33 Ratio	Class	Cont. Plate cm ²	Dbl. Plate mm
C1	Story3	SHS 120X5	$0,12 = 0,036 + 0,019 + 0,064$	ULS5	0,016	0,02	Class 1		
C3	Story3	SHS 120X5	$0,12 = 0,036 + 0,019 + 0,064$	ULS5	0,016	0,02	Class 1		
C4	Story3	SHS 120X5	$0,092 = 0,005 + 0,047 + 0,092$	ULS5	0,016	0,018	Class 1		
C8	Story3	SHS 120X5	$0,092 = 0,005 + 0,061 + 0,092$	ULS5	0,016	0,018	Class 1		
C1	Story2	SHS 120X5	$0,109 = 0,052 + 0,044 + 0,013$	ULS7	0,015	0,017	Class 1		
C3	Story2	SHS 120X5	$0,103 = 0 + 0,079 + 0,025$	ULS13	0,015	0,017	Class 1		
C4	Story2	SHS 120X5	$0,081 = 0,012 + 0,04 + 0,081$	ULS5	0,015	0,017	Class 1		
C8	Story2	SHS 120X5	$0,088 = 0,031 + 0,043 + 0,014$	ULS7	0,015	0,017	Class 1		

Table 6.3 - Steel Column Envelope (Part 2 of 2)

Label	Story	B/C Ratio Major	B/C Ratio Minor
C1	Story3		
C3	Story3		
C4	Story3		
C8	Story3		
C1	Story2		

Table 6.3 - Steel Column Envelope (Part 2 of 2, continued)

Label	Story	B/C Ratio Major	B/C Ratio Minor
C3	Story2		
C4	Story2		
C8	Story2		

Table 6.4 - Steel Beam Envelope

Label	Story	Section	Moment Interaction Check	PMM Combo	V22 Ratio	V33 Ratio	Class	Conn. V I-End kN	Conn. V J-End kN
B6	Story3	SHS 100X5	$0,046 = 0 + 0,046 + 0,001$	ULS2	0,006	0,001	Class 1	0,8887	0,8924
B7	Story3	SHS 100X5	$0,018 = 0 + 0,018 + 0$	ULS3	0,005	0	Class 1	0,7343	0,7343
B8	Story3	SHS 100X5	$0,046 = 0 + 0,046 + 0,001$	ULS2	0,006	0,001	Class 1	0,8924	0,8887
B9	Story3	SHS 100X5	$0,876 = 0 + 0,876 + 0$	ULS3	0,125	0	Class 1	18,3593	18,3593
B10	Story3	SHS 100X5	$0,037 = 0 + 0,037 + 0$	ULS3	0,01	0	Class 1	1,4174	1,4174
B6	Story2	SHS 100X5	$0,016 = 0,016 + 0 + 0$	ULS7	0,001	0	Class 1	0,1797	0,1797
B7	Story2	SHS 100X5	$0,004 = 0 + 0,004 + 0$	ULS7	0,001	0	Class 1	0,153	0,153
B8	Story2	SHS 100X5	$0,014 = 0,014 + 0 + 0$	ULS7	0,001	0	Class 1	0,1797	0,1797
B9	Story2	SHS 100X5	$0,017 = 0,017 + 0 + 0$	ULS5	0,001	0	Class 1	0,153	0,153

Table 6.5 - Steel Brace Envelope

Label	Story	Section	Moment Interaction Check	PMM Combo	V22 Ratio	V33 Ratio	Class	Conn. P I-End kN	Conn. P J-End kN
D15	Story3	CHS60.3X3	$0,044 = 0,028 + 0,001 + 0,016$	ULS13	0,001	0,000372	Class 1	1,22	1,2979
D16	Story3	CHS60.3X3	$0,097 = 0,023 + 0,001 + 0,074$	ULS13	0,001	0,002	Class 1	1,3255	1,4035
D17	Story3	CHS60.3X3	$0,21 = 0,208 + 0,002 + 4,881E-04$	ULS1	0,001	0,0003883	Class 1	-4,3354	-4,2301
D18	Story3	CHS60.3X3	$0,204 = 0,153 + 0,002 + 0,05$	ULS3	0,001	0,002	Class 1	-4,1975	-4,0923
D23	Story3	CHS60.3X3	$0,036 = 0,022 + 0,005 + 0,014$	ULS7	0,001	0,0003338	Class 1	2,6345	2,7398
D24	Story3	CHS60.3X3	$0,094 = 0,022 + 0,006 + 0,071$	ULS7	0,001	0,002	Class 1	2,7768	2,8821
D25	Story3	CHS60.3X3	$0,274 = 0,256 + 0,002 + 0,018$	ULS7	0,001	0,0003646	Class 1	-5,3228	-5,2176
D26	Story3	CHS60.3X3	$0,336 = 0,249 + 0,002 + 0,088$	ULS7	0,001	0,002	Class 1	-5,1844	-5,0792
D27	Story3	CHS60.3X3	$0,16 = 0,148 + 0,001 + 0,012$	ACC7	0,001	0,001	Class 1	-3,249	-3,171
D28	Story3	CHS60.3X3	$0,148 = 0,136 + 0,001 + 0,012$	ACC8	0,001	0,001	Class 1	-2,9783	-2,9003
D29	Story3	CHS60.3X3	$0,208 = 0,203 + 0,002 + 0,005$	ULS7	0,001	0,001	Class 1	-4,4508	-4,3456
D30	Story3	CHS60.3X3	$0,202 = 0,197 + 0,002 + 0,005$	ULS7	0,001	0,001	Class 1	-4,3193	-4,2141
D1	Story2	CHS60.3X3	$0,036 = 0,016 + 0,002 + 0,019$	ULS6	0,001	0,001	Class 1	-0,507	-0,406
D2	Story2	CHS60.3X3	$0,069 = 0,01 + 0,001 + 0,059$	ULS13	0,001	0,001	Class 1	-0,3706	0,3651
D3	Story2	CHS60.3X3	$0,17 = 0,168 + 0,002 + 0$	ULS1	0,001	0,001	Class 1	-3,6915	-3,5905
D4	Story2	CHS60.3X3	$0,163 = 0,161 + 0,002 + 0$	ULS1	0,001	0,001	Class 1	-3,5546	-3,4536
D5	Story2	CHS60.3X3	$0,191 = 0,185 + 0,001 + 0,006$	ACC7	0,001	0,0003885	Class 1	8,9444	9,0192
D6	Story2	CHS60.3X3	$0,182 = 0,175 + 0,001 + 0,006$	ACC8	0,001	0,0003883	Class 1	9,0337	9,1085
D13	Story2	CHS60.3X3	$0,523 = 0,519 + 0,002 + 0,003$	ULS7	0,001	0,0003885	Class 1	-12,0519	-11,9509
D14	Story2	CHS60.3X3	$0,517 = 0,514 + 0,002 + 0,003$	ULS7	0,001	0,0003883	Class 1	-11,9181	-11,8171
D19	Story2	CHS60.3X3	$0,033 = 0,008 + 0,001 + 0,024$	ACC7	0,001	0,001	Class 1	-0,5146	-0,4136
D20	Story2	CHS60.3X3	$0,062 = 0,003 + 0,006 + 0,058$	ULS7	0,001	0,001	Class 1	0,3788	0,4798
D21	Story2	CHS60.3X3	$0,263 = 0,237 + 0,002 + 0,026$	ULS7	0,001	0,001	Class 1	-5,2151	-5,1141
D22	Story2	CHS60.3X3	$0,296 = 0,231 + 0,002 + 0,066$	ULS7	0,001	0,001	Class 1	-5,0791	-4,9781