



Project: Projects

Model: Unit 5000x3400

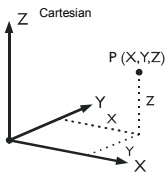
Date: 20/04/2016

Complete unit 5000x3400

## MODEL - GENERAL DATA

General	Model name	: Unit 5000x3400
	Model description	: Complete unit 5000x3400
	Project name	: Projects
	Type of model	: 3D
	Positive direction of global axis Z	: Upward
	Classification of load cases and combinations	: According to Standard: EN 1990 National Annex: NBN - Belgium
	<input checked="" type="checkbox"/> Automatically create combinations	: <input checked="" type="checkbox"/> Result Combinations

## 1.1 NODES



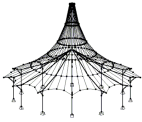
Node No.	Node Type	Reference Node	Coordinate System	X [mm]	Y [mm]	Z [mm]	Comment
19	Standard	-	Cartesian	4500.0	0.0	0.0	
20	Standard	-	Cartesian	4500.0	3400.0	0.0	
31	Standard	-	Cartesian	0.0	3375.0	0.0	
32	Standard	-	Cartesian	0.0	25.0	0.0	
33	Standard	-	Cartesian	500.0	3375.0	0.0	
34	Standard	-	Cartesian	500.0	25.0	0.0	
35	Standard	-	Cartesian	1000.0	3375.0	0.0	
36	Standard	-	Cartesian	1000.0	25.0	0.0	
37	Standard	-	Cartesian	1500.0	3375.0	0.0	
38	Standard	-	Cartesian	1500.0	25.0	0.0	
39	Standard	-	Cartesian	2000.0	3375.0	0.0	
40	Standard	-	Cartesian	2000.0	25.0	0.0	
41	Standard	-	Cartesian	2500.0	3375.0	0.0	
42	Standard	-	Cartesian	2500.0	25.0	0.0	
43	Standard	-	Cartesian	3000.0	3375.0	0.0	
44	Standard	-	Cartesian	3000.0	25.0	0.0	
45	Standard	-	Cartesian	3500.0	3375.0	0.0	
46	Standard	-	Cartesian	3500.0	25.0	0.0	
47	Standard	-	Cartesian	4000.0	3375.0	0.0	
48	Standard	-	Cartesian	4000.0	25.0	0.0	
49	Standard	-	Cartesian	4500.0	3375.0	0.0	
50	Standard	-	Cartesian	4500.0	25.0	0.0	
51	Standard	-	Cartesian	5000.0	3375.0	0.0	
52	Standard	-	Cartesian	5000.0	25.0	0.0	
53	Standard	-	Cartesian	0.0	0.0	0.0	
116	Standard	-	Cartesian	2450.0	3375.0	0.0	
119	Standard	-	Cartesian	2450.0	25.0	0.0	
193	Standard	-	Cartesian	0.0	3375.0	3000.0	
197	Standard	-	Cartesian	5000.0	3375.0	3000.0	
239	Standard	-	Cartesian	0.0	25.0	3000.0	
240	Standard	-	Cartesian	5000.0	25.0	3000.0	
508	Standard	-	Cartesian	5000.0	1700.0	3000.0	
511	Standard	-	Cartesian	0.0	1700.0	3000.0	
527	Standard	-	Cartesian	5000.0	1700.0	0.0	
543	Standard	-	Cartesian	5000.0	1125.0	3000.0	
544	Standard	-	Cartesian	5000.0	2175.0	3000.0	
545	Standard	-	Cartesian	0.0	2175.0	3000.0	
546	Standard	-	Cartesian	0.0	1125.0	3000.0	
560	Standard	-	Cartesian	0.0	1125.0	0.0	
561	Standard	-	Cartesian	0.0	2175.0	0.0	
562	Standard	-	Cartesian	500.0	1125.0	0.0	
563	Standard	-	Cartesian	500.0	2175.0	0.0	
564	Standard	-	Cartesian	1500.0	1125.0	0.0	
565	Standard	-	Cartesian	1500.0	2175.0	0.0	
566	Standard	-	Cartesian	2000.0	1125.0	0.0	
567	Standard	-	Cartesian	2000.0	2175.0	0.0	
568	Standard	-	Cartesian	1000.0	1125.0	0.0	
569	Standard	-	Cartesian	1000.0	2175.0	0.0	
570	Standard	-	Cartesian	3500.0	1125.0	0.0	
571	Standard	-	Cartesian	3500.0	2175.0	0.0	
572	Standard	-	Cartesian	2500.0	1125.0	0.0	
573	Standard	-	Cartesian	2500.0	2175.0	0.0	
574	Standard	-	Cartesian	3000.0	1125.0	0.0	
575	Standard	-	Cartesian	3000.0	2175.0	0.0	
576	Standard	-	Cartesian	4000.0	1125.0	0.0	
577	Standard	-	Cartesian	4000.0	2175.0	0.0	
578	Standard	-	Cartesian	4500.0	1125.0	0.0	
579	Standard	-	Cartesian	4500.0	2175.0	0.0	
580	Standard	-	Cartesian	5000.0	1125.0	0.0	
581	Standard	-	Cartesian	5000.0	2175.0	0.0	
712	Standard	-	Cartesian	-50.0	25.0	0.0	
713	Standard	-	Cartesian	2300.0	25.0	0.0	
714	Standard	713	Cartesian	300.0	0.0	0.0	
718	Standard	-	Cartesian	-50.0	3375.0	0.0	
719	Standard	-	Cartesian	2300.0	3375.0	0.0	
720	Standard	719	Cartesian	300.0	0.0	0.0	
723	Standard	-	Cartesian	2500.0	25.0	3000.0	
724	Standard	-	Cartesian	2500.0	3375.0	3000.0	
725	Standard	-	Cartesian	1880.0	25.0	3000.0	
726	Standard	-	Cartesian	1880.0	3375.0	3000.0	
727	Standard	-	Cartesian	1260.0	25.0	3000.0	
728	Standard	-	Cartesian	1260.0	3375.0	3000.0	
729	Standard	-	Cartesian	640.0	25.0	3000.0	
730	Standard	-	Cartesian	640.0	3375.0	3000.0	
731	Standard	-	Cartesian	20.0	25.0	3000.0	
732	Standard	-	Cartesian	20.0	3375.0	3000.0	
741	Standard	-	Cartesian	3120.0	25.0	3000.0	
742	Standard	-	Cartesian	3120.0	3375.0	3000.0	
743	Standard	-	Cartesian	3740.0	25.0	3000.0	
744	Standard	-	Cartesian	3740.0	3375.0	3000.0	
745	Standard	-	Cartesian	4360.0	25.0	3000.0	
746	Standard	-	Cartesian	4360.0	3375.0	3000.0	

Behoort bij beschikking

d.d. 13-05-2016

nr.(s) ZK1600102

Juridisch beleidsmedewerker  
 Publiekszaken / vergunningen



Project: Projects

Model: Unit 5000x3400

Date: 20/04/2016

Complete unit 5000x3400

## 1.1 NODES

Node No.	Node Type	Reference Node	Coordinate System	Node Coordinates			Comment
				X [mm]	Y [mm]	Z [mm]	
807	Standard	-	Cartesian	2450.0	25.0	3000.0	
811	Standard	-	Cartesian	2450.0	3375.0	3000.0	
812	Standard	-	Cartesian	4700.0	3375.0	0.0	
813	Standard	-	Cartesian	4700.0	25.0	0.0	
814	Standard	-	Cartesian	300.0	25.0	0.0	
815	Standard	-	Cartesian	300.0	3375.0	0.0	

## 1.2 LINES

Line No.	Line Type	Nodes No.	Line Length		Comment
			L [mm]		
1	Polyline	63,712	55.9	XY	
2	Polyline	32,814	300.0	X	
7	Polyline	40,713	300.0	X	
8	Polyline	31,815	300.0	X	
11	Polyline	724,723	3350.0	Y	
12	Polyline	42,723	3000.0	Z	
17	Polyline	41,724	3000.0	Z	
18	Polyline	19,50	25.0	Y	
20	Polyline	49,20	25.0	Y	
21	Polyline	31,561	1200.0	Y	
24	Polyline	32,63	25.0	Y	
39	Polyline	33,563	1200.0	Y	
40	Polyline	34,36	500.0	X	
41	Polyline	31,718	50.0	X	
42	Polyline	35,569	1200.0	Y	
43	Polyline	35,37	500.0	X	
44	Polyline	36,38	500.0	X	
45	Polyline	37,565	1200.0	Y	
46	Polyline	37,39	500.0	X	
47	Polyline	38,40	500.0	X	
48	Polyline	39,567	1200.0	Y	
49	Polyline	719,39	300.0	X	
50	Polyline	714,44	400.0	X	
51	Polyline	41,573	1200.0	Y	
52	Polyline	726,725	3350.0	Y	
53	Polyline	42,714	100.0	X	
54	Polyline	43,575	1200.0	Y	
55	Polyline	43,45	500.0	X	
56	Polyline	44,46	500.0	X	
57	Polyline	45,571	1200.0	Y	
58	Polyline	46,48	500.0	X	
59	Polyline	45,47	500.0	X	
60	Polyline	47,577	1200.0	Y	
61	Polyline	47,49	500.0	X	
62	Polyline	48,50	500.0	X	
63	Polyline	49,579	1200.0	Y	
66	Polyline	51,581	1200.0	Y	
67	Polyline	725,727	620.0	X	
85	Polyline	50,813	200.0	X	
86	Polyline	49,812	200.0	X	
90	Polyline	713,119	150.0	X	
91	Polyline	712,32	50.0	X	
92	Polyline	33,35	500.0	X	
93	Polyline	720,41	100.0	X	
97	Polyline	41,116	50.0	X	
98	Polyline	726,728	620.0	X	
99	Polyline	43,720	400.0	X	
100	Polyline	728,727	3350.0	Y	
102	Polyline	727,729	620.0	X	
103	Polyline	728,730	620.0	X	
104	Polyline	730,729	3350.0	Y	
105	Polyline	729,731	620.0	X	
106	Polyline	730,732	620.0	X	
108	Polyline	731,239	20.0	X	
109	Polyline	732,193	20.0	X	
122	Polyline	742,741	3350.0	Y	
123	Polyline	741,723	620.0	X	
124	Polyline	742,724	620.0	X	
125	Polyline	744,743	3350.0	Y	
126	Polyline	743,741	620.0	X	
127	Polyline	744,742	620.0	X	
128	Polyline	746,745	3350.0	Y	
129	Polyline	745,743	620.0	X	
130	Polyline	746,744	620.0	X	
132	Polyline	240,745	640.0	X	
133	Polyline	197,746	640.0	X	
233	Polyline	116,719	150.0	X	
286	Polyline	807,725	570.0	X	
294	Polyline	811,726	570.0	X	
298	Polyline	119,42	50.0	X	
314	Polyline	197,544	1200.0	Y	
316	Polyline	239,546	1100.0	Y	
326	Polyline	543,240	1100.0	Y	
328	Polyline	544,508	475.0	Y	
330	Polyline	545,193	1200.0	Y	
332	Polyline	546,511	575.0	Y	
649	Polyline	63,239	3000.1	YZ	
650	Polyline	52,240	3000.0	Z	
651	Polyline	31,193	3000.0	Z	
679	Polyline	508,543	575.0	Y	
683	Polyline	511,545	475.0	Y	



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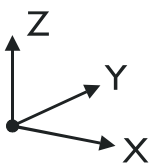
## 1.2 LINES

Line No.	Line Type	Nodes No.	Line Length L [mm]		Comment
695	Polyline	51,197	3000.0	Z	
697	Polyline	581,527	475.0	Y	
712	Polyline	527,580	575.0	Y	
716	Polyline	561,560	1050.0	Y	
736	Polyline	560,32	1100.0	Y	
750	Polyline	563,562	1050.0	Y	
751	Polyline	562,34	1100.0	Y	
752	Polyline	565,564	1050.0	Y	
753	Polyline	564,38	1100.0	Y	
754	Polyline	567,566	1050.0	Y	
755	Polyline	566,40	1100.0	Y	
756	Polyline	569,568	1050.0	Y	
757	Polyline	568,36	1100.0	Y	
758	Polyline	571,570	1050.0	Y	
759	Polyline	570,46	1100.0	Y	
760	Polyline	573,572	1050.0	Y	
761	Polyline	572,42	1100.0	Y	
762	Polyline	575,574	1050.0	Y	
763	Polyline	574,44	1100.0	Y	
764	Polyline	577,576	1050.0	Y	
765	Polyline	576,48	1100.0	Y	
766	Polyline	579,578	1050.0	Y	
767	Polyline	578,50	1100.0	Y	
769	Polyline	580,52	1100.0	Y	
779	Polyline	560,562	500.0	X	
780	Polyline	562,568	500.0	X	
781	Polyline	568,564	500.0	X	
782	Polyline	564,566	500.0	X	
783	Polyline	566,572	500.0	X	
784	Polyline	572,574	500.0	X	
785	Polyline	574,570	500.0	X	
786	Polyline	570,576	500.0	X	
787	Polyline	576,578	500.0	X	
788	Polyline	578,580	500.0	X	
796	Polyline	581,579	500.0	X	
797	Polyline	579,577	500.0	X	
798	Polyline	577,571	500.0	X	
799	Polyline	571,575	500.0	X	
800	Polyline	575,573	500.0	X	
801	Polyline	573,567	500.0	X	
802	Polyline	567,565	500.0	X	
803	Polyline	565,569	500.0	X	
804	Polyline	569,563	500.0	X	
805	Polyline	563,561	500.0	X	
1072	Polyline	723,807	50.0	X	
1073	Polyline	724,811	50.0	X	
1074	Polyline	812,51	300.0	X	
1075	Polyline	813,52	300.0	X	
1076	Polyline	814,34	200.0	X	
1077	Polyline	815,33	200.0	X	

## 1.3 MATERIALS

Matl. No.	Modulus E [kN/cm <sup>2</sup> ]	Modulus G [kN/cm <sup>2</sup> ]	Poisson's Ratio $\nu$ [-]	Spec. Weight $\gamma$ [kN/m <sup>3</sup> ]	Coeff. of Th. Exp. $\alpha$ [1/°C]	Partial Factor $\gamma_M$ [-]	Material Model
1	Steel S 235 JR   EN 21000.00	EN 10025-2:2004-11 8076.92	0.300	78.50	1.20E-05	1.00	Isotropic Linear Elastic
2	Steel S 235   EN 21000.00	EN 1993-1-1:2005-05 8076.92	0.300	78.50	1.20E-05	1.00	Isotropic Linear Elastic
4	Steel S 235   EN 21000.00	EN 1993-1-1:2005-05 8076.92	0.300	78.50	1.20E-05	1.00	Isotropic Linear Elastic
5	Steel S 235   EN 21000.00	EN 1993-1-1:2005-05 8076.92	0.300	78.50	1.20E-05	1.00	Isotropic Linear Elastic
6	Steel S 235   EN 21000.00	EN 1993-1-1:2005-05 8076.92	0.300	78.50	1.20E-05	1.00	Isotropic Linear Elastic
7	Steel S 235   EN 21000.00	EN 1993-1-1:2005-05 8076.92	0.300	78.50	1.20E-05	1.00	Isotropic Linear Elastic

## 1.7 NODAL SUPPORTS



Support No.	Nodes No.	Sequen.	Rotation [°]			Column in Z	Support Conditions					
			about X	about Y	about Z		$u_x$	$u_y$	$u_z$	$\phi_x$	$\phi_y$	$\phi_z$
1	572,573	XYZ	0.00	0.00	0.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



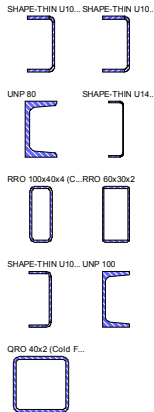
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Complete unit 5000x3400

### 1.13 CROSS-SECTIONS



Section No.	Matl. No.	J [cm <sup>4</sup> ]		I <sub>y</sub> [cm <sup>4</sup> ]		I <sub>z</sub> [cm <sup>4</sup> ]		Principal Axes α [°]	Rotation α' [°]	Overall Dimensions [mm]	
		A [cm <sup>2</sup> ]		A <sub>y</sub> [cm <sup>2</sup> ]		A <sub>z</sub> [cm <sup>2</sup> ]				Width b	Height h
1	SHAPE-THIN U100X50X5 1	0.67 9.17		135.26 3.00		21.85 4.01		0.00	0.00	50.0	100.0
2	SHAPE-THIN U100X50X5 1	0.67 9.17		135.26 3.00		21.85 4.01		0.00	0.00	50.0	100.0
15	UNP 80   SZS 5	2.16 11.00		106.00 4.16		19.40 3.74		0.00	0.00	45.0	80.0
16	SHAPE-THIN U140X40X3 5	0.17 6.20		161.88 1.08		8.22 3.75		0.00	0.00	40.0	140.0
24	RRO 100x40x4 (Cold Formed) 1	74.50 10.10		116.00 1.74		26.70 7.10		0.00	0.00	40.0	100.0
27	RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395) 1	12.38 3.41		15.65 0.75		5.23 2.14		0.00	0.00	30.0	60.0
28	SHAPE-THIN U100X40X3 1	0.14 5.02		72.34 1.31		7.46 2.56		0.00	0.00	40.0	100.0
29	UNP 100   SZS 1	2.81 13.50		206.00 4.59		29.30 4.87		0.00	0.00	50.0	100.0
30	QRO 40x2 (Cold Formed) 1	11.30 2.94		6.94 1.28		6.94 1.28		0.00	0.00	40.0	40.0

### 2.1 LOAD CASES

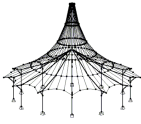
Load Case	Load Case Description	EN 1990   NBN Action Category	Self-Weight - Factor in Direction			
			Active	X	Y	Z
LC1	Eigen gewicht	Permanent	<input checked="" type="checkbox"/>	0.000	0.000	-1.000
LC2	Vloerbelasting	Imposed - Category A: domestic, residential areas	<input type="checkbox"/>			
LC3	Sneeuw	Snow (H ≤ 1000 m a.s.l.)	<input type="checkbox"/>			
LC4	Plafondgewicht	Permanent	<input type="checkbox"/>			

#### 2.1.1 LOAD CASES - CALCULATION PARAMETERS

Load Case	Load Case Description	Calculation Parameters
LC1	Eigen gewicht	Method of analysis : <input checked="" type="radio"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="radio"/> Newton-Raphson
LC2	Vloerbelasting	Method of analysis : <input checked="" type="radio"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="radio"/> Newton-Raphson Activate stiffness factors of: <input checked="" type="checkbox"/> Cross-sections (factor for J, I <sub>y</sub> , I <sub>z</sub> , A, A <sub>y</sub> , A <sub>z</sub> ) <input checked="" type="checkbox"/> Members (factor for G <sub>J</sub> , E <sub>I<sub>y</sub></sub> , E <sub>I<sub>z</sub></sub> , EA, GA <sub>y</sub> , GA <sub>z</sub> )
LC3	Sneeuw	Method of analysis : <input checked="" type="radio"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="radio"/> Newton-Raphson Activate stiffness factors of: <input checked="" type="checkbox"/> Cross-sections (factor for J, I <sub>y</sub> , I <sub>z</sub> , A, A <sub>y</sub> , A <sub>z</sub> ) <input checked="" type="checkbox"/> Members (factor for G <sub>J</sub> , E <sub>I<sub>y</sub></sub> , E <sub>I<sub>z</sub></sub> , EA, GA <sub>y</sub> , GA <sub>z</sub> )
LC4	Plafondgewicht	Method of analysis : <input checked="" type="radio"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="radio"/> Newton-Raphson Activate stiffness factors of: <input checked="" type="checkbox"/> Cross-sections (factor for J, I <sub>y</sub> , I <sub>z</sub> , A, A <sub>y</sub> , A <sub>z</sub> ) <input checked="" type="checkbox"/> Members (factor for G <sub>J</sub> , E <sub>I<sub>y</sub></sub> , E <sub>I<sub>z</sub></sub> , EA, GA <sub>y</sub> , GA <sub>z</sub> )

### 2.7 RESULT COMBINATIONS

Result Combin.	Description	Loading
RC1	1.0*LC1/p + 1.0*LC4/p	LC4/p
RC2	1.0*LC2	LC2/v
RC3	1.0*LC3	LC3/v
RC4		1.35*RC1/p + 1.50*RC2/p + 0.75*RC3/v + 0.75*RC3/v
RC5		1.35*RC1/p + 1.05*RC2/v + 1.50*RC3/p + 1.50*RC3/p
RC6		RC1/p to RC2/p + 0.50*RC3/v + 0.50*RC3/v
RC7		RC1/p + 0.70*RC2/v + RC3/p + RC3/p
RC8		RC1/p + 0.50*RC2/p + 0.00*RC3/v + 0.00*RC3/v
RC9		RC1/p + 0.30*RC2/v + 0.00*RC3/p + 0.00*RC3/p
RC10		RC1/p + 0.30*RC2/v + 0.00*RC3/v + 0.00*RC3/v
RC11	ULS (STR/GEO) - Permanent / transient - Eq. 6.10	RC4/p to RC5/p
RC12	SLS - Characteristic	RC6/p to RC7/p
RC13	SLS - Frequent	RC8/p to RC9/p
RC14	SLS - Quasi-permanent	RC10/p



**LOADS**

Project: Projects Model: Unit 5000x3400 Date: 20/04/2016  
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LC2  
 Vloerbelasting

**3.15 GENERATED LOADS**

LC2: Vloerbelasting

No.	Load Description			
1	<b>From Area Loads via Plane</b>			
	Area load direction	Perpendicular to the plane : <input checked="" type="checkbox"/> z		
	Member load direction	Direction of generated member loads: : <input checked="" type="checkbox"/> Local in x, y, z		
	Area of load application	<input checked="" type="checkbox"/> Fully closed plane		
	Load distribution type:	<input checked="" type="checkbox"/> Combined		
	Area load magnitude	<input checked="" type="checkbox"/> Constant : 3.00 kN/m <sup>2</sup>		
	Boundary of the area load plane	Corner nodes : 63,31,51,52 Note : Each row in the drop down list box denotes one plane		
	Generating total loads in direction	$\Sigma P_{Areas}$	X : 0.000 kN Y : 0.000 kN Z : -50.306 kN	
		$\Sigma P_{Members}$	X : 0.000 kN Y : 0.000 kN Z : -50.306 kN	
		Total moment to the origin	$\Sigma M_{Areas}$	X : -85.426 kNm Y : 125.653 kNm Z : 0.000 kNm
			$\Sigma M_{Members}$	X : -85.426 kNm Y : 125.595 kNm Z : 0.000 kNm
			Cells selected for generating	$\Sigma$ number of cells : 31 $\Sigma$ cell area : 16768750.3 mm <sup>2</sup>
		Convert loads to members No.	: 1,5,7-10,16,19,22,35,38,39,42-48,51,54-57,60-63,84,214,217,695,709-712,748-765,777-786,796-805,1073-1075,1077,1080,1084,1085,1178-1181	

LC3  
 Sneeuw

**3.15 GENERATED LOADS**

LC3: Sneeuw

No.	Load Description	
1	<b>From Snow Loads (Flat/Monopitch Roof)</b>	
	Snow load parameters	According to Standard : EN 1991-1-3 National Annex : Belgium Altitude A : 100.000 m Ground snow load $s_k$ : 0.50 kN/m <sup>2</sup>
	Coefficients	Exposure $C_e$ : 1.00 Thermal coefficient $C_t$ : 1.00
	Roof geometry	Node A : 197 B : 240 C : 239 D : 193
	Generate LC	<input checked="" type="checkbox"/> LC s1 : LC3
	Create load type	<input checked="" type="checkbox"/> Member loads
	Load distribution type	<input checked="" type="checkbox"/> Combined
	Generate snow loads on members No.	: 41,49,50,52,53,58,59,64,92-99,111,209,227-230,332,333,677,681,1088-1093,1099-1101
	Parameters	$A_R$ : 16750000.0 m <sup>2</sup> $\alpha$ : 0.0 ° $S_k$ : 0.50 kN/m <sup>2</sup>
		$\mu_1$ : 0.800 $s_1$ : 0.40 kN/m <sup>2</sup>
		Generated total loads



**LOADS**

Project: Projects Model: Unit 5000x3400 Date: 20/04/2016  
 Complete unit 5000x3400

**3.15 GENERATED LOADS**

LC3: Sneeuw

No.	Load Description	
	$\Sigma P$	: 6.700 kN
Total moment to the origin	$\Sigma M_{Areas}$	: 20.256 kNm
	$\Sigma M$	: 20.256 kNm
Cells selected for generating	$\Sigma$ number of cells	: 8
	$\Sigma$ cell area	: 16750001.7 mm <sup>2</sup>

LC4  
 Plafondgewicht

**3.15 GENERATED LOADS**

LC4: Plafondgewicht

No.	Load Description		
1	<b>From Area Loads via Plane</b>		
	Area load direction	Perpendicular to the plane : <input checked="" type="checkbox"/> z	
	Member load direction	Direction of generated member loads: : <input checked="" type="checkbox"/> Local in x, y, z	
	Area of load application	<input checked="" type="checkbox"/> Fully closed plane	
	Load distribution type:	<input checked="" type="checkbox"/> Combined	
	Area load magnitude	<input checked="" type="checkbox"/> Constant : 0.28 kN/m <sup>2</sup>	
	Boundary of the area load plane	Corner nodes	: 197,240,731,193
		Note	: Each row in the drop down list box denotes one plane
	Generating total loads in direction	$\Sigma P_{Areas}$	X : 0.000 kN
			Y : 0.000 kN
		Z : -4.687 kN	
$\Sigma P_{Members}$		X : 0.000 kN	
		Y : 0.000 kN	
		Z : -4.687 kN	
Total moment to the origin	$\Sigma M_{Areas}$	X : -7.972 kNm	
		Y : 11.725 kNm	
		Z : 0.000 kNm	
	$\Sigma M_{Members}$	X : -7.969 kNm	
		Y : 11.805 kNm	
		Z : 0.000 kNm	
Cells selected for generating	$\Sigma$ number of cells	: 8	
	$\Sigma$ cell area	: 16739004.9 mm <sup>2</sup>	
Convert loads to members No.		: 41,49,50,52,53,58,64, 92-99,111,209,227-230, 332,677,681,1088-1093, 1099-1101	



Project: Projects

Model: Unit 5000x3400

Date: 20/04/2016

Complete unit 5000x3400

## 4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Eigen gewicht			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	0.00	kN	
Sum of support reactions in Y	0.00	kN	
Sum of loads in Z	-5.91	kN	
Sum of support reactions in Z	-5.91	kN	
Resultant of reactions about X	-0.010	kNm	Deviation 0.00%
Resultant of reactions about Y	0.018	kNm	At center of gravity of model
Resultant of reactions about Z	0.000	kNm	At center of gravity of model
Max. displacement in X	-0.0	mm	Member No. 648, x: 2000.1 mm
Max. displacement in Y	0.4	mm	Member No. 1177, x: 2033.4 mm
Max. displacement in Z	-1.4	mm	Member No. 1092, x: 1675.0 mm
Max. vector displacement	1.4	mm	Member No. 1092, x: 1675.0 mm
Max. rotation about X	-1.3	mrad	Member No. 1092, x: 3350.0 mm
Max. rotation about Y	-0.2	mrad	Member No. 783, x: 250.0 mm
Max. rotation about Z	-0.0	mrad	Member No. 96, x: 387.5 mm
Method of analysis	Linear		Geometrically linear analysis
Stiffness reduction multiplied by coefficient	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	1		
Vloerbelasting			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	0.00	kN	
Sum of support reactions in Y	0.00	kN	
Sum of loads in Z	-50.31	kN	
Sum of support reactions in Z	-50.31	kN	
Resultant of reactions about X	-0.264	kNm	Deviation 0.00%
Resultant of reactions about Y	0.273	kNm	At center of gravity of model
Resultant of reactions about Z	0.001	kNm	At center of gravity of model
Max. displacement in X	-0.3	mm	Member No. 754, x: 450.0 mm
Max. displacement in Y	-0.2	mm	Member No. 805, x: 500.0 mm
Max. displacement in Z	-3.7	mm	Member No. 750, x: 450.0 mm
Max. vector displacement	3.7	mm	Member No. 750, x: 450.0 mm
Max. rotation about X	3.8	mrad	Member No. 1181, x: 200.0 mm
Max. rotation about Y	-3.1	mrad	Member No. 783, x: 222.2 mm
Max. rotation about Z	-0.3	mrad	Member No. 759, x: 471.4 mm
Method of analysis	Linear		Geometrically linear analysis
Stiffness reduction multiplied by coefficient	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	1		
Sneeuw			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	0.00	kN	
Sum of support reactions in Y	0.00	kN	
Sum of loads in Z	-6.70	kN	
Sum of support reactions in Z	-6.70	kN	
Resultant of reactions about X	-0.049	kNm	Deviation -0.00%
Resultant of reactions about Y	0.057	kNm	At center of gravity of model
Resultant of reactions about Z	0.002	kNm	At center of gravity of model
Max. displacement in X	-0.4	mm	Member No. 648, x: 2000.1 mm
Max. displacement in Y	2.9	mm	Member No. 1177, x: 2033.4 mm
Max. displacement in Z	-12.6	mm	Member No. 1092, x: 1675.0 mm
Max. vector displacement	12.6	mm	Member No. 1092, x: 1675.0 mm
Max. rotation about X	-11.7	mrad	Member No. 1093, x: 3350.0 mm
Max. rotation about Y	0.5	mrad	Member No. 53, x: 387.5 mm
Max. rotation about Z	-0.1	mrad	Member No. 96, x: 387.5 mm
Method of analysis	Linear		Geometrically linear analysis
Stiffness reduction multiplied by coefficient	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	1		
Plafondgewicht			
Sum of loads in X	0.00	kN	
Sum of support reactions in X	0.00	kN	
Sum of loads in Y	0.00	kN	
Sum of support reactions in Y	0.00	kN	
Sum of loads in Z	-4.69	kN	
Sum of support reactions in Z	-4.69	kN	
Resultant of reactions about X	-0.036	kNm	Deviation 0.00%
Resultant of reactions about Y	0.122	kNm	At center of gravity of model
Resultant of reactions about Z	0.001	kNm	At center of gravity of model
Max. displacement in X	-0.2	mm	Member No. 648, x: 2000.1 mm
Max. displacement in Y	2.0	mm	Member No. 1177, x: 2033.4 mm
Max. displacement in Z	-11.1	mm	Member No. 1093, x: 1675.0 mm
Max. vector displacement	11.1	mm	Member No. 1093, x: 1675.0 mm
Max. rotation about X	-10.4	mrad	Member No. 1093, x: 3350.0 mm
Max. rotation about Y	0.4	mrad	Member No. 53, x: 387.5 mm
Max. rotation about Z	-0.1	mrad	Member No. 96, x: 387.5 mm
Method of analysis	Linear		Geometrically linear analysis
Stiffness reduction multiplied by coefficient	<input type="checkbox"/>		
Number of load increments	1		
Number of iterations	1		
Summary			
Max. displacement in X	-0.4	mm	LC3, Member No. 648, x: 2000.1 mm
Max. displacement in Y	2.9	mm	LC3, Member No. 1177, x: 2033.4 mm
Max. displacement in Z	-12.6	mm	LC3, Member No. 1092, x: 1675.0 mm
Max. vector displacement	12.6	mm	LC3, Member No. 1092, x: 1675.0 mm
Max. rotation about X	-11.7	mrad	LC3, Member No. 1093, x: 3350.0 mm



Project: Projects

Model: Unit 5000x3400

Date: 20/04/2016

Complete unit 5000x3400

## ■ 4.0 RESULTS - SUMMARY

Description	Value	Unit	Comment
Max. rotation about Y	-3.1	mrad	LC2, Member No. 783, x: 222.2 mm
Max. rotation about Z	-0.3	mrad	LC2, Member No. 759, x: 471.4 mm
Other Settings	<ul style="list-style-type: none"> <li>Number of 1D finite elements : 128</li> <li>Number of 2D finite elements : 0</li> <li>Number of 3D finite elements : 0</li> <li>Number of FE mesh nodes : 86</li> <li>Number of equations : 516</li> <li>Max. number of iterations : 100</li> <li>Number of divisions for member results : 10</li> <li>Division of cable/foundation/tapered members : 10</li> <li>Number of member divisions for searching maximum values : 10</li> <li>Subdivisions of FE mesh for graphical results : 3</li> <li>Percentage of iterations according to Picard method in combination with Newton-Raphson method : 5 %</li> </ul>		
Options	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Activate shear stiffness of members (Ay, Az)</li> <li><input checked="" type="checkbox"/> Activate member divisions for large deformation or post-critical analysis</li> <li><input checked="" type="checkbox"/> Activate entered stiffness modifications</li> <li><input type="checkbox"/> Ignore rotational degrees of freedom</li> <li><input checked="" type="checkbox"/> Check of critical forces of members</li> <li><input type="checkbox"/> Nonsymmetric direct solver if demanded by nonlinear model</li> <li>Method for the system of equations               <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Direct</li> <li><input type="radio"/> Iteration</li> <li><input checked="" type="radio"/> Mindlin</li> <li><input type="radio"/> Kirchhoff</li> </ul> </li> <li>Plate bending theory</li> <li>Solver version               <ul style="list-style-type: none"> <li><input type="radio"/> 32-bit</li> <li><input checked="" type="radio"/> 64-bit</li> </ul> </li> </ul>		
Precision and Tolerance	<input type="checkbox"/> Change default setting		





**RF-STEEL EC3**  
 CA1  
 Design of steel members  
 according to Eurocode 3

Project: Projects Model: Unit 5000x3400  
 Complete unit 5000x3400 Date: 20/04/2016

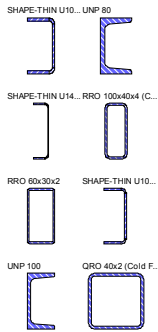
### 1.1 GENERAL DATA

Members to design:	All
Sets of members to design:	
Ultimate Limit State Design	RC11
Result combinations to design:	ULS (STR/GEO) - Permanent / transient - Eq. 6.10

### 1.2 MATERIALS

Matl. No.	Material Description	E- Modulus E [kN/cm <sup>2</sup> ]	Shear Modulus G [kN/cm <sup>2</sup> ]	Poisson's Ratio $\nu$ [-]	Yield Stress $f_{yk}$ [kN/cm <sup>2</sup> ]	Max. Thickness t [mm]
1	Steel S 235 JR   EN 10025-2:2004-11	21000.00	8076.92	0.300	23.50	16.0
					22.50	40.0
					21.50	100.0
					19.50	150.0
					18.50	200.0
5	Steel S 235   EN 1993-1-1:2005-05	21000.00	8076.92	0.300	23.50	40.0
					21.50	80.0
					21.50	100.0
					19.50	150.0
					18.50	200.0
					17.50	250.0
					16.50	400.0

### 1.3 CROSS-SECTIONS



Sect. No.	Matl. No.	Cross-Section Description	Cross-Section Type	Max Design Ratio	Comment
1	1	SHAPE-THIN U100X50X5 Type General - Only Class 3 possible	General	0.68	
2	1	SHAPE-THIN U100X50X5 Type General - Only Class 3 possible	General	0.08	
15	5	UNP 80   SZS	Channel rolled	0.07	
16	5	SHAPE-THIN U140X40X3 Type General - Only Class 3 possible	General	0.22	
24	1	RRO 100x40x4 (Cold Formed)	Box rolled	0.01	
27	1	RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)	Box rolled	0.65	
28	1	SHAPE-THIN U100X40X3 Type General - Only Class 3 possible	General	0.23	
29	1	UNP 100   SZS	Channel rolled		
30	1	QRO 40x2 (Cold Formed)	Box rolled	0.30	

### 1.5 EFFECTIVE LENGTHS - MEMBERS

Member No.	Buckling Possible	Buckling About Axis y			Buckling About Axis z			Lateral-Torsional Buckling				
		Possible	$k_{cr,y}$	$L_{cr,y}$ [mm]	Possible	$k_{cr,z}$	$L_{cr,z}$ [mm]	Possible	$k_z$	$k_w$	$L_w$ [mm]	$L_T$ [mm]
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	300.0	<input checked="" type="checkbox"/>	1.00	300.0	<input checked="" type="checkbox"/>	1.0	1.0	300.0	300.0
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	300.0	<input checked="" type="checkbox"/>	1.00	300.0	<input checked="" type="checkbox"/>	1.0	1.0	300.0	300.0
7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	100.0	<input checked="" type="checkbox"/>	1.00	100.0	<input checked="" type="checkbox"/>	1.0	1.0	100.0	100.0
9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	50.0	<input checked="" type="checkbox"/>	1.00	50.0	<input checked="" type="checkbox"/>	1.0	1.0	50.0	50.0
16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.0	1.0	1200.0	1200.0
19	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1100.0	<input checked="" type="checkbox"/>	1.00	1100.0	<input checked="" type="checkbox"/>	1.0	1.0	1100.0	1100.0
22	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	25.0	<input checked="" type="checkbox"/>	1.00	25.0	<input checked="" type="checkbox"/>	1.0	1.0	25.0	25.0
35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
38	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	100.0	<input checked="" type="checkbox"/>	1.00	100.0	<input checked="" type="checkbox"/>	1.0	1.0	100.0	100.0
39	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.0	1.0	1200.0	1200.0
41	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.0	1.0	620.0	620.0
42	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.0	1.0	1200.0	1200.0
43	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
44	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
45	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.0	1.0	1200.0	1200.0
46	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
47	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
48	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.0	1.0	1200.0	1200.0
49	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.0	1.0	620.0	620.0
50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.0	1.0	620.0	620.0
51	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.0	1.0	1200.0	1200.0
52	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.0	1.0	620.0	620.0
53	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.0	1.0	620.0	620.0
54	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.0	1.0	1200.0	1200.0
55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
56	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
57	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.0	1.0	1200.0	1200.0
58	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.0	1.0	620.0	620.0
59	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	20.0	<input checked="" type="checkbox"/>	1.00	20.0	<input checked="" type="checkbox"/>	1.0	1.0	20.0	20.0
60	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.0	1.0	1200.0	1200.0
61	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
62	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.00	500.0	<input checked="" type="checkbox"/>	1.0	1.0	500.0	500.0
63	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.00	1200.0	<input checked="" type="checkbox"/>	1.0	1.0	1200.0	1200.0
64	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	20.0	<input checked="" type="checkbox"/>	1.00	20.0	<input checked="" type="checkbox"/>	1.0	1.0	20.0	20.0
84	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	200.0	<input checked="" type="checkbox"/>	1.00	200.0	<input checked="" type="checkbox"/>	1.0	1.0	200.0	200.0
92	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.00	620.0	<input checked="" type="checkbox"/>	1.0	1.0	620.0	620.0



Project: Projects      Model: Unit 5000x3400  
 Complete unit 5000x3400

Date: 20/04/2016

**1.5 EFFECTIVE LENGTHS - MEMBERS**

Member No.	Buckling		Buckling About Axis y		Buckling About Axis z			Lateral-Torsional Buckling				
	Possible	Possible	$k_{cr,y}$	$L_{cr,y}$ [mm]	Possible	$k_{cr,z}$	$L_{cr,z}$ [mm]	Possible	$k_z$	$k_w$	$L_w$ [mm]	$L_T$ [mm]
93	☑	☑	1.00	620.0	☑	1.00	620.0	☑	1.0	1.0	620.0	620.0
94	☑	☑	1.00	620.0	☑	1.00	620.0	☑	1.0	1.0	620.0	620.0
95	☑	☑	1.00	620.0	☑	1.00	620.0	☑	1.0	1.0	620.0	620.0
96	☑	☑	1.00	620.0	☑	1.00	620.0	☑	1.0	1.0	620.0	620.0
97	☑	☑	1.00	620.0	☑	1.00	620.0	☑	1.0	1.0	620.0	620.0
98	☑	☑	1.00	640.0	☑	1.00	640.0	☑	1.0	1.0	640.0	640.0
99	☑	☑	1.00	640.0	☑	1.00	640.0	☑	1.0	1.0	640.0	640.0
111	☑	☑	1.00	570.0	☑	1.00	570.0	☑	1.0	1.0	570.0	570.0
209	☑	☑	1.00	570.0	☑	1.00	570.0	☑	1.0	1.0	570.0	570.0
214	☑	☑	1.00	150.0	☑	1.00	150.0	☑	1.0	1.0	150.0	150.0
217	☑	☑	1.00	50.0	☑	1.00	50.0	☑	1.0	1.0	50.0	50.0
227	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
228	☑	☑	1.00	475.0	☑	1.00	475.0	☑	1.0	1.0	475.0	475.0
229	☑	☑	1.00	1200.0	☑	1.00	1200.0	☑	1.0	1.0	1200.0	1200.0
230	☑	☑	1.00	575.0	☑	1.00	575.0	☑	1.0	1.0	575.0	575.0
332	☑	☑	1.00	1200.0	☑	1.00	1200.0	☑	1.0	1.0	1200.0	1200.0
333	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
648	☑	☑	1.00	3000.1	☑	1.00	3000.1	☐	1.0	1.0	3000.1	3000.1
650	☑	☑	1.00	3000.0	☑	1.00	3000.0	☐	1.0	1.0	3000.0	3000.0
677	☑	☑	1.00	575.0	☑	1.00	575.0	☑	1.0	1.0	575.0	575.0
681	☑	☑	1.00	475.0	☑	1.00	475.0	☑	1.0	1.0	475.0	475.0
693	☑	☑	1.00	3000.0	☑	1.00	3000.0	☐	1.0	1.0	3000.0	3000.0
695	☑	☑	1.00	475.0	☑	1.00	475.0	☑	1.0	1.0	475.0	475.0
709	☑	☑	1.00	575.0	☑	1.00	575.0	☑	1.0	1.0	575.0	575.0
710	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
711	☑	☑	1.00	1050.0	☑	1.00	1050.0	☑	1.0	1.0	1050.0	1050.0
712	☑	☑	1.00	1200.0	☑	1.00	1200.0	☑	1.0	1.0	1200.0	1200.0
748	☑	☑	1.00	1050.0	☑	1.00	1050.0	☑	1.0	1.0	1050.0	1050.0
749	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
750	☑	☑	1.00	1050.0	☑	1.00	1050.0	☑	1.0	1.0	1050.0	1050.0
751	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
752	☑	☑	1.00	1050.0	☑	1.00	1050.0	☑	1.0	1.0	1050.0	1050.0
753	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
754	☑	☑	1.00	1050.0	☑	1.00	1050.0	☑	1.0	1.0	1050.0	1050.0
755	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
756	☑	☑	1.00	1050.0	☑	1.00	1050.0	☑	1.0	1.0	1050.0	1050.0
757	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
758	☑	☑	1.00	1050.0	☑	1.00	1050.0	☑	1.0	1.0	1050.0	1050.0
759	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
760	☑	☑	1.00	1050.0	☑	1.00	1050.0	☑	1.0	1.0	1050.0	1050.0
761	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
762	☑	☑	1.00	1050.0	☑	1.00	1050.0	☑	1.0	1.0	1050.0	1050.0
763	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
764	☑	☑	1.00	1050.0	☑	1.00	1050.0	☑	1.0	1.0	1050.0	1050.0
765	☑	☑	1.00	1100.0	☑	1.00	1100.0	☑	1.0	1.0	1100.0	1100.0
777	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
778	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
779	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
780	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
781	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
782	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
783	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
784	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
785	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
786	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
796	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
797	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
798	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
799	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
800	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
801	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
802	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
803	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
804	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
805	☑	☑	1.00	500.0	☑	1.00	500.0	☑	1.0	1.0	500.0	500.0
1073	☑	☑	1.00	300.0	☑	1.00	300.0	☑	1.0	1.0	300.0	300.0
1074	☑	☑	1.00	400.0	☑	1.00	400.0	☑	1.0	1.0	400.0	400.0
1075	☑	☑	1.00	150.0	☑	1.00	150.0	☑	1.0	1.0	150.0	150.0
1077	☑	☑	1.00	200.0	☑	1.00	200.0	☑	1.0	1.0	200.0	200.0
1080	☑	☑	1.00	50.0	☑	1.00	50.0	☑	1.0	1.0	50.0	50.0
1083	☑	☑	1.00	50.0	☑	1.00	50.0	☑	1.0	1.0	50.0	50.0
1084	☑	☑	1.00	300.0	☑	1.00	300.0	☑	1.0	1.0	300.0	300.0
1085	☑	☑	1.00	400.0	☑	1.00	400.0	☑	1.0	1.0	400.0	400.0
1088	☑	☑	1.00	50.0	☑	1.00	50.0	☑	1.0	1.0	50.0	50.0
1089	☑	☑	1.00	50.0	☑	1.00	50.0	☑	1.0	1.0	50.0	50.0
1090	☑	☑	1.00	3350.0	☑	1.00	3350.0	☐	1.0	1.0	3350.0	3350.0
1091	☑	☑	1.00	3350.0	☑	1.00	3350.0	☐	1.0	1.0	3350.0	3350.0
1092	☑	☑	1.00	3350.0	☑	1.00	3350.0	☐	1.0	1.0	3350.0	3350.0
1093	☑	☑	1.00	3350.0	☑	1.00	3350.0	☐	1.0	1.0	3350.0	3350.0
1099	☑	☑	1.00	3350.0	☑	1.00	3350.0	☐	1.0	1.0	3350.0	3350.0
1100	☑	☑	1.00	3350.0	☑	1.00	3350.0	☐	1.0	1.0	3350.0	3350.0
1101	☑	☑	1.00	3350.0	☑	1.00	3350.0	☐	1.0	1.0	3350.0	3350.0
1172	☑	☑	1.00	3000.0	☑	1.00	3000.0	☐	1.0	1.0	3000.0	3000.0
1174	☑	☑	1.00	3050.0	☑	1.00	3050.0	☐	1.0	1.0	3050.0	3050.0
1177	☑	☑	1.00	3050.0	☑	1.00	3050.0	☐	1.0	1.0	3050.0	3050.0
1178	☑	☑	1.00	300.0	☑	1.00	300.0	☑	1.0	1.0	300.0	300.0
1179	☑	☑	1.00	300.0	☑	1.00	300.0	☑	1.0	1.0	300.0	300.0
1180	☑	☑	1.00	200.0	☑	1.00	200.0	☑	1.0	1.0	200.0	200.0
1181	☑	☑	1.00	200.0	☑	1.00	200.0	☑	1.0	1.0	200.0	200.0



Project: Projects

Model: Unit 5000x3400

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## 1.12 PARAMETERS - MEMBERS

Member No.	Description	Parameter
1	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
5	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
7	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
8	Cross-Section	2 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
9	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
10	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
13	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
16	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
19	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
22	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
35	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
38	Cross-Section	2 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
39	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
41	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
42	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
43	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
44	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
45	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
46	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>



Project: Projects

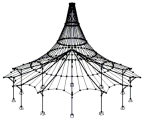
Model: Unit 5000x3400

Date: 20/04/2016

Complete unit 5000x3400

## 1.12 PARAMETERS - MEMBERS

Member No.	Description	Parameter
47	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
48	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
49	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
50	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
51	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
52	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
53	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
54	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
55	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
56	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
57	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
58	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
59	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
60	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
61	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
62	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
63	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
64	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
84	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>



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## 1.12 PARAMETERS - MEMBERS

Member No.	Description	Parameter
	Cross-sectional area for tension design	<input type="checkbox"/>
92	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
93	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
94	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
95	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
96	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
97	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
98	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
99	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
111	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
209	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
214	Cross-Section	2 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
217	Cross-Section	2 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
227	Cross-Section	15 - UNP 80   SZS
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
228	Cross-Section	15 - UNP 80   SZS
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
229	Cross-Section	15 - UNP 80   SZS
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
230	Cross-Section	15 - UNP 80   SZS
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
332	Cross-Section	15 - UNP 80   SZS
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
333	Cross-Section	15 - UNP 80   SZS
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
648	Cross-Section	24 - RRO 100x40x4 (Cold Formed)
	Shear panel	<input type="checkbox"/>



Project: Projects

Model: Unit 5000x3400

Date: 20/04/2016

Complete unit 5000x3400

## 1.12 PARAMETERS - MEMBERS

Member No.	Description	Parameter
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
650	Cross-Section	24 - RRO 100x40x4 (Cold Formed)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
677	Cross-Section	15 - UNP 80   SZS
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
681	Cross-Section	15 - UNP 80   SZS
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
693	Cross-Section	24 - RRO 100x40x4 (Cold Formed)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
695	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
709	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
710	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
711	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
712	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
748	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
749	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
750	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
751	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
752	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
753	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
754	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
755	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
756	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
757	Cross-Section	28 - SHAPE-THIN U100X40X3



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Member No.	Description	Parameter
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
758	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
759	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
760	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
761	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
762	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
763	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
764	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
765	Cross-Section	28 - SHAPE-THIN U100X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
777	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
778	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
779	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
780	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
781	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
782	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
783	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
784	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
785	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
786	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>



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## 1.12 PARAMETERS - MEMBERS

Member No.	Description	Parameter
796	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
797	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
798	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
799	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
800	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
801	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
802	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
803	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
804	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
805	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1073	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1074	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1075	Cross-Section	2 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1077	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1080	Cross-Section	2 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1083	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1084	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1085	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1088	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>





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## 1.12 PARAMETERS - MEMBERS

Member No.	Description	Parameter
1089	Cross-Section	16 - SHAPE-THIN U140X40X3
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1090	Cross-Section	27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1091	Cross-Section	27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1092	Cross-Section	27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1093	Cross-Section	27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1099	Cross-Section	27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1100	Cross-Section	27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1101	Cross-Section	27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1172	Cross-Section	24 - RRO 100x40x4 (Cold Formed)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1174	Cross-Section	30 - QRO 40x2 (Cold Formed)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1177	Cross-Section	30 - QRO 40x2 (Cold Formed)
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1178	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1179	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1180	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>
1181	Cross-Section	1 - SHAPE-THIN U100X50X5
	Shear panel	<input type="checkbox"/>
	Rotational restraint	<input type="checkbox"/>
	Cross-sectional area for tension design	<input type="checkbox"/>

## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
1	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	150.0	RC11	0.07	$\leq 1$	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.11	$\leq 1$	122)	
	150.0	RC11	0.07	$\leq 1$	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6



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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design			Design No.	Description
6.2.10 - Class 3 - General cross-section							
5	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	150.0	RC11	0.07	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	0.0	RC11	0.11	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	150.0	RC11	0.07	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
7	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	250.0	RC11	0.00	≤ 1	100)	Negligible internal forces	
	500.0	RC11	0.07	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	0.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	500.0	RC11	0.07	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	0.0	RC11	0.07	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
8	<b>Cross-section No. 2 - SHAPE-THIN U100X50X5</b>						
	100.0	RC11	0.06	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	0.0	RC11	0.08	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	100.0	RC11	0.06	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
9	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	250.0	RC11	0.09	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	500.0	RC11	0.01	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	250.0	RC11	0.09	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	0.0	RC11	0.10	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
10	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	250.0	RC11	0.09	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	500.0	RC11	0.01	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	250.0	RC11	0.09	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	0.0	RC11	0.10	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
13	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	50.0	RC11	0.00	≤ 1	100)	Negligible internal forces	
16	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	600.0	RC11	0.09	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	0.0	RC11	0.08	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	0.0	RC11	0.00	≤ 1	124)	Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4	
	600.0	RC11	0.09	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	0.0	RC11	0.56	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
19	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	1100.0	RC11	0.03	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	366.7	RC11	0.01	≤ 1	117)	Cross-section check - Bending about z-axis acc. to 6.2.5 - Class 3	
	1100.0	RC11	0.09	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	0.0	RC11	0.00	≤ 1	124)	Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4	
	1100.0	RC11	0.03	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	366.7	RC11	0.01	≤ 1	153)	Cross-section check - Bending about z-axis and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	1100.0	RC11	0.58	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
22	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	0.0	RC11	0.00	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	0.0	RC11	0.02	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	0.0	RC11	0.08	≤ 1	131)	Cross-section check - Torsion acc. to 6.2.7	
	0.0	RC11	0.12	≤ 1	133)	Cross-section check - Torsion and shear force acc. to 6.2.7(5)	
	0.0	RC11	0.08	≤ 1	138)	Cross-section check - Torsion and shear force acc. to 6.2.7(5)	
	0.0	RC11	0.00	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	0.0	RC11	0.01	≤ 1	148)	Cross-section check - Bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	0.0	RC11	0.12	≤ 1	271)	Cross-section check - Axial stress and torsion - Elastic design	
	35	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
250.0		RC11	0.00	≤ 1	100)	Negligible internal forces	
500.0		RC11	0.08	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
0.0		RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
500.0		RC11	0.08	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	0.0	RC11	0.07	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	



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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
<b>38 Cross-section No. 2 - SHAPE-THIN U100X50X5</b>						
	0.0	RC11	0.06	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	100.0	RC11	0.08	≤ 1	122)	
	0.0	RC11	0.06	≤ 1	143)	
<b>39 Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	0.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Bending about z-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Bending about z-axis and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	600.0	RC11	0.18	≤ 1	112)	
	0.0	RC11	0.02	≤ 1	117)	
	0.0	RC11	0.04	≤ 1	122)	
	600.0	RC11	0.18	≤ 1	143)	
	0.0	RC11	0.02	≤ 1	153)	
	900.0	RC11	0.20	≤ 1	163)	
<b>41 Cross-section No. 16 - SHAPE-THIN U140X40X3</b>						
	620.0	RC11	0.13	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.02	≤ 1	122)	
	620.0	RC11	0.13	≤ 1	143)	
	0.0	RC11	0.03	≤ 1	163)	
<b>42 Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	0.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	600.0	RC11	0.18	≤ 1	112)	
	0.0	RC11	0.04	≤ 1	122)	
	600.0	RC11	0.18	≤ 1	143)	
	900.0	RC11	0.18	≤ 1	163)	
<b>43 Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	250.0	RC11	0.09	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.00	≤ 1	122)	
	250.0	RC11	0.09	≤ 1	143)	
	500.0	RC11	0.09	≤ 1	163)	
<b>44 Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	250.0	RC11	0.08	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.00	≤ 1	122)	
	250.0	RC11	0.08	≤ 1	143)	
	500.0	RC11	0.09	≤ 1	163)	
<b>45 Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	0.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	600.0	RC11	0.10	≤ 1	112)	
	0.0	RC11	0.04	≤ 1	122)	
	600.0	RC11	0.10	≤ 1	143)	
	600.0	RC11	0.15	≤ 1	163)	
<b>46 Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	250.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	250.0	RC11	0.03	≤ 1	112)	
	500.0	RC11	0.03	≤ 1	122)	
	250.0	RC11	0.03	≤ 1	143)	
	0.0	RC11	0.09	≤ 1	163)	
	0.0	RC11	0.09	≤ 1	163)	
<b>47 Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	250.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	250.0	RC11	0.03	≤ 1	112)	
	500.0	RC11	0.03	≤ 1	122)	
	250.0	RC11	0.03	≤ 1	143)	
	0.0	RC11	0.09	≤ 1	163)	
<b>48 Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	300.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - C
	600.0	RC11	0.10	≤ 1	112)	
	1200.0	RC11	0.04	≤ 1	122)	
	0.0	RC11	0.00	≤ 1	124)	



Project: Projects

Model: Unit 5000x3400

Date: 20/04/2016

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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
	600.0	RC11	0.10	≤ 1	143)	Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	300.0	RC11	0.10	≤ 1	163)	
<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>						
49	620.0	RC11	0.09	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.02	≤ 1	122)	
	620.0	RC11	0.09	≤ 1	143)	
	620.0	RC11	0.13	≤ 1	163)	
<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>						
50	310.0	RC11	0.12	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	620.0	RC11	0.01	≤ 1	122)	
	310.0	RC11	0.12	≤ 1	143)	
	0.0	RC11	0.13	≤ 1	163)	
<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
51	300.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.07	≤ 1	112)	
	0.0	RC11	0.03	≤ 1	122)	
	0.0	RC11	0.07	≤ 1	143)	
<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>						
52	310.0	RC11	0.12	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	620.0	RC11	0.01	≤ 1	122)	
	310.0	RC11	0.12	≤ 1	143)	
	0.0	RC11	0.13	≤ 1	163)	
<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>						
53	0.0	RC11	0.05	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Torsion acc. to 6.2.7 Cross-section check - Torsion and shear force acc. to 6.2.7(5) Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Axial stress and torsion - Elastic design
	620.0	RC11	0.02	≤ 1	122)	
	0.0	RC11	0.09	≤ 1	131)	
	620.0	RC11	0.12	≤ 1	133)	
	0.0	RC11	0.05	≤ 1	143)	
	0.0	RC11	0.11	≤ 1	148)	
	620.0	RC11	0.03	≤ 1	163)	
	620.0	RC11	0.07	≤ 1	168)	
	0.0	RC11	0.15	≤ 1	271)	
	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>					
54	300.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	600.0	RC11	0.10	≤ 1	112)	
	1200.0	RC11	0.04	≤ 1	122)	
	0.0	RC11	0.00	≤ 1	124)	
	600.0	RC11	0.10	≤ 1	143)	
	300.0	RC11	0.10	≤ 1	163)	
	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
55	0.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	250.0	RC11	0.05	≤ 1	112)	
	0.0	RC11	0.03	≤ 1	122)	
	250.0	RC11	0.05	≤ 1	143)	
	500.0	RC11	0.11	≤ 1	163)	
<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
56	0.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	250.0	RC11	0.05	≤ 1	112)	
	0.0	RC11	0.02	≤ 1	122)	
	250.0	RC11	0.05	≤ 1	143)	
	500.0	RC11	0.10	≤ 1	163)	
<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
57	0.0	RC11	0.00	≤ 1	100)	Negligible internal forces Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	600.0	RC11	0.10	≤ 1	112)	
	0.0	RC11	0.04	≤ 1	122)	



Project: Projects

Model: Unit 5000x3400

Date: 20/04/2016

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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
	600.0	RC11	0.10	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	600.0	RC11	0.15	≤ 1	163)	
58	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	0.0	RC11	0.05	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	620.0	RC11	0.02	≤ 1	122)	
	0.0	RC11	0.09	≤ 1	131)	Cross-section check - Torsion acc. to 6.2.7
	620.0	RC11	0.12	≤ 1	133)	Cross-section check - Torsion and shear force acc. to 6.2.7(5)
	0.0	RC11	0.05	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.10	≤ 1	148)	Cross-section check - Bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	620.0	RC11	0.03	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	620.0	RC11	0.08	≤ 1	168)	Cross-section check - Biaxial bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.14	≤ 1	271)	Cross-section check - Axial stress and torsion - Elastic design
59	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	20.0	RC11	0.02	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.09	≤ 1	131)	Cross-section check - Torsion acc. to 6.2.7
	20.0	RC11	0.12	≤ 1	133)	Cross-section check - Torsion and shear force acc. to 6.2.7(5)
	20.0	RC11	0.03	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	20.0	RC11	0.07	≤ 1	168)	Cross-section check - Biaxial bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
60	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>					
	0.0	RC11	0.00	≤ 1	100)	Negligible internal forces
	600.0	RC11	0.18	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	600.0	RC11	0.18	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	900.0	RC11	0.18	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
61	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.08	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	500.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.08	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
62	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.07	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	500.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.07	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
63	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>					
	0.0	RC11	0.00	≤ 1	100)	Negligible internal forces
	600.0	RC11	0.18	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.02	≤ 1	117)	Cross-section check - Bending about z-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	600.0	RC11	0.18	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.02	≤ 1	153)	Cross-section check - Bending about z-axis and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	900.0	RC11	0.20	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
64	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	20.0	RC11	0.02	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.09	≤ 1	131)	Cross-section check - Torsion acc. to 6.2.7
	20.0	RC11	0.12	≤ 1	133)	Cross-section check - Torsion and shear force acc. to 6.2.7(5)
	20.0	RC11	0.04	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	20.0	RC11	0.08	≤ 1	168)	Cross-section check - Biaxial bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	20.0	RC11	0.12	≤ 1	271)	Cross-section check - Axial stress and torsion - Elastic design
84	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	200.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	200.0	RC11	0.00	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.09	≤ 1	131)	Cross-section check - Torsion acc. to 6.2.7
	200.0	RC11	0.15	≤ 1	133)	Cross-section check - Torsion and shear force acc. to 6.2.7(5)
	200.0	RC11	0.01	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	200.0	RC11	0.20	≤ 1	148)	Cross-section check - Bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section



Project: Projects

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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
	0.0	RC11	0.08	≤ 1	168)	Cross-section check - Biaxial bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Axial stress and torsion - Elastic design
	200.0	RC11	0.23	≤ 1	271)	
92	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	310.0	RC11	0.04	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	620.0	RC11	0.04	≤ 1	122)	
	310.0	RC11	0.04	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	620.0	RC11	0.22	≤ 1	163)	
93	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	310.0	RC11	0.04	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	620.0	RC11	0.04	≤ 1	122)	
	310.0	RC11	0.04	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	620.0	RC11	0.21	≤ 1	163)	
94	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	0.0	RC11	0.12	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	620.0	RC11	0.02	≤ 1	122)	
	0.0	RC11	0.12	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	620.0	RC11	0.03	≤ 1	163)	
95	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	0.0	RC11	0.12	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	620.0	RC11	0.02	≤ 1	122)	
	0.0	RC11	0.12	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	620.0	RC11	0.03	≤ 1	163)	
96	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	310.0	RC11	0.11	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.01	≤ 1	122)	
	310.0	RC11	0.11	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	620.0	RC11	0.12	≤ 1	163)	
97	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	620.0	RC11	0.12	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.01	≤ 1	122)	
	620.0	RC11	0.12	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.09	≤ 1	163)	
98	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	640.0	RC11	0.04	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.01	≤ 1	122)	
	0.0	RC11	0.08	≤ 1	131)	Cross-section check - Torsion acc. to 6.2.7 Cross-section check - Torsion and shear force acc. to 6.2.7(5)
	0.0	RC11	0.11	≤ 1	133)	
	640.0	RC11	0.04	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	640.0	RC11	0.09	≤ 1	148)	
	0.0	RC11	0.08	≤ 1	168)	Cross-section check - Biaxial bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Axial stress and torsion - Elastic design
	640.0	RC11	0.13	≤ 1	271)	
99	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	640.0	RC11	0.04	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.01	≤ 1	122)	
	0.0	RC11	0.08	≤ 1	131)	Cross-section check - Torsion acc. to 6.2.7 Cross-section check - Torsion and shear force acc. to 6.2.7(5)
	0.0	RC11	0.11	≤ 1	133)	
	640.0	RC11	0.04	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	640.0	RC11	0.09	≤ 1	148)	
	0.0	RC11	0.04	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.09	≤ 1	168)	
	640.0	RC11	0.13	≤ 1	271)	Cross-section check - Axial stress and torsion - Elastic design
111	<b>Cross-section No. 16 - SHAPE-THIN U140X40X3</b>					
	260.0	RC11	0.04	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.04	≤ 1	122)	
	260.0	RC11	0.04	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section



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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
	0.0	RC11	0.20	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
<b>209 Cross-section No. 16 - SHAPE-THIN U140X40X3</b>						
	260.0	RC11	0.04	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	260.0	RC11	0.04	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.19	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
<b>214 Cross-section No. 2 - SHAPE-THIN U100X50X5</b>						
	150.0	RC11	0.04	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.07	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	150.0	RC11	0.04	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
<b>217 Cross-section No. 2 - SHAPE-THIN U100X50X5</b>						
	25.0	RC11	0.07	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.02	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	25.0	RC11	0.07	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
<b>227 Cross-section No. 15 - UNP 80   SZS</b>						
	0.0	RC11	0.06	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	1100.0	RC11	0.01	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	0.0	RC11	0.06	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
<b>228 Cross-section No. 15 - UNP 80   SZS</b>						
	475.0	RC11	0.07	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.00	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	475.0	RC11	0.07	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
<b>229 Cross-section No. 15 - UNP 80   SZS</b>						
	0.0	RC11	0.05	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	1200.0	RC11	0.01	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	0.0	RC11	0.05	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
	1200.0	RC11	0.02	≤ 1	161)	Cross-section check - Biaxial bending and shear force acc. to 6.2.6, 6.2.7 and 6.2.9
<b>230 Cross-section No. 15 - UNP 80   SZS</b>						
	575.0	RC11	0.06	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.00	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	575.0	RC11	0.06	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
<b>332 Cross-section No. 15 - UNP 80   SZS</b>						
	1200.0	RC11	0.06	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.01	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	1200.0	RC11	0.06	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
<b>333 Cross-section No. 15 - UNP 80   SZS</b>						
	1100.0	RC11	0.04	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.01	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	1100.0	RC11	0.04	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
	0.0	RC11	0.02	≤ 1	161)	Cross-section check - Biaxial bending and shear force acc. to 6.2.6, 6.2.7 and 6.2.9
<b>648 Cross-section No. 24 - RRO 100x40x4 (Cold Formed)</b>						
	0.0	RC11	0.01	≤ 1	102)	Cross-section check - Compression acc. to 6.2.4
	1000.0	RC11	0.01	≤ 1	181)	Cross-section check - Bending, shear and axial force acc. to 6.2.9.1
	333.3	RC11	0.00	≤ 1	201)	Cross-section check - Bending about z-axis, shear and axial force acc. to 6.2.9.1
	3000.1	RC11	0.01	≤ 1	221)	Cross-section check - Biaxial bending, shear and axial force acc. to 6.2.10 and 6.2.9
<b>650 Cross-section No. 24 - RRO 100x40x4 (Cold Formed)</b>						
	0.0	RC11	0.01	≤ 1	102)	Cross-section check - Compression acc. to 6.2.4
	0.0	RC11	0.00	≤ 1	123)	Cross-section check - Shear force in y-axis acc. to 6.2.6
	1000.0	RC11	0.00	≤ 1	201)	Cross-section check - Bending about z-axis, shear and axial force acc. to 6.2.9.1
	3000.0	RC11	0.01	≤ 1	221)	Cross-section check - Biaxial bending, shear and axial force acc. to 6.2.10 and 6.2.9



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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
677	<b>Cross-section No. 15 - UNP 80   SZS</b>					
	0.0	RC11	0.07	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	575.0	RC11	0.00	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	575.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
681	<b>Cross-section No. 15 - UNP 80   SZS</b>					
	0.0	RC11	0.06	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	475.0	RC11	0.00	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	475.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
693	<b>Cross-section No. 24 - RRO 100x40x4 (Cold Formed)</b>					
	0.0	RC11	0.01	≤ 1	102)	Cross-section check - Compression acc. to 6.2.4
	0.0	RC11	0.00	≤ 1	123)	Cross-section check - Shear force in y-axis acc. to 6.2.6
	1333.3	RC11	0.00	≤ 1	201)	Cross-section check - Bending about z-axis, shear and axial force acc. to 6.2.9.1
695	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	3000.0	RC11	0.01	≤ 1	221)	Cross-section check - Biaxial bending, shear and axial force acc. to 6.2.10 and 6.2.9
	250.0	RC11	0.28	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.01	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
709	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	250.0	RC11	0.28	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.28	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	575.0	RC11	0.01	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
710	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.28	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	1100.0	RC11	0.03	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	366.7	RC11	0.01	≤ 1	117)	Cross-section check - Bending about z-axis acc. to 6.2.5 - Class 3
	1100.0	RC11	0.09	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.00	≤ 1	124)	Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4
	1100.0	RC11	0.03	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	366.7	RC11	0.01	≤ 1	153)	Cross-section check - Bending about z-axis and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
711	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	1100.0	RC11	0.58	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	350.0	RC11	0.27	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	1050.0	RC11	0.01	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
712	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	350.0	RC11	0.27	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	600.0	RC11	0.10	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.08	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.00	≤ 1	124)	Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4
	600.0	RC11	0.10	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
748	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>					
	0.0	RC11	0.00	≤ 1	101)	Cross-section check - Tension acc. to 6.2.3
	700.0	RC11	0.15	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	1050.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	700.0	RC11	0.15	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	350.0	RC11	0.16	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	350.0	RC11	0.23	≤ 1	223)	Cross-section check - Biaxial bending, shear and axial force acc. to 6.2.10 and 6.2.9 - Class 3 - General cross-section
749	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>					
	1100.0	RC11	0.04	≤ 1	122)	Cross-section check - Biaxial bending and shear force acc. to 6.2.10 and 6.2.9 - Class 3 - General cross-section
	1100.0	RC11	0.01	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	1100.0	RC11	0.02	≤ 1	117)	Cross-section check - Bending about z-axis acc. to 6.2.5 - Class 3
	1100.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.01	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	1100.0	RC11	0.02	≤ 1	153)	Cross-section check - Bending about z-axis and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
366.7	RC11	0.18	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	





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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design			Design No.	Description
6.2.9.2 and 6.2.10 - Class 3 - General cross-section							
750	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	350.0	RC11	0.14	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	1050.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	350.0	RC11	0.14	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
751	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	350.0	RC11	0.20	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	1100.0	RC11	0.00	≤ 1	100)	Negligible internal forces	
	366.7	RC11	0.17	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
752	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	1100.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	366.7	RC11	0.17	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	250.0	RC11	0.16	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
753	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	700.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	0.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	700.0	RC11	0.01	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
754	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	350.0	RC11	0.14	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	1100.0	RC11	0.00	≤ 1	100)	Negligible internal forces	
	366.7	RC11	0.00	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
755	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	1100.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	0.0	RC11	0.00	≤ 1	124)	Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4	
	366.7	RC11	0.00	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
756	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	366.7	RC11	0.13	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	700.0	RC11	0.00	≤ 1	100)	Negligible internal forces	
	0.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
757	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	700.0	RC11	0.06	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
	0.0	RC11	0.00	≤ 1	102)	Negligible internal forces	
	0.0	RC11	0.03	≤ 1	122)	Cross-section check - Compression acc. to 6.2.4	
758	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	0.0	RC11	0.07	≤ 1	183)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	0.0	RC11	0.00	≤ 1	100)	Negligible internal forces	
	0.0	RC11	0.06	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
759	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	0.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	
	0.0	RC11	0.00	≤ 1	124)	Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4	
	733.3	RC11	0.09	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section	
760	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	733.3	RC11	0.00	≤ 1	100)	Negligible internal forces	
760	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>						
	700.0	RC11	0.00	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3	
	0.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4	



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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
	700.0	RC11	0.00	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	350.0	RC11	0.14	≤ 1	163)	
761	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>					
	1100.0	RC11	0.00	≤ 1	100)	Negligible internal forces
	366.7	RC11	0.00	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	1100.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.00	≤ 1	124)	Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4
	366.7	RC11	0.00	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	366.7	RC11	0.13	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
762	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>					
	350.0	RC11	0.14	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	1050.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	350.0	RC11	0.14	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
763	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>					
	350.0	RC11	0.20	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	1100.0	RC11	0.00	≤ 1	100)	Negligible internal forces
	366.7	RC11	0.16	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
764	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>					
	1100.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	366.7	RC11	0.16	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	250.0	RC11	0.16	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.00	≤ 1	101)	Cross-section check - Tension acc. to 6.2.3
765	<b>Cross-section No. 28 - SHAPE-THIN U100X40X3</b>					
	1050.0	RC11	0.09	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	1050.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	1050.0	RC11	0.09	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	350.0	RC11	0.16	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	350.0	RC11	0.22	≤ 1	223)	Cross-section check - Biaxial bending, shear and axial force acc. to 6.2.10 and 6.2.9 - Class 3 - General cross-section
777	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	1100.0	RC11	0.00	≤ 1	100)	Negligible internal forces
	0.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	1100.0	RC11	0.02	≤ 1	117)	Cross-section check - Bending about z-axis acc. to 6.2.5 - Class 3
	1100.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.01	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	1100.0	RC11	0.02	≤ 1	153)	Cross-section check - Bending about z-axis and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	366.7	RC11	0.18	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
778	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	500.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.06	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.00	≤ 1	124)	Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4
	500.0	RC11	0.01	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	500.0	RC11	0.26	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
779	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	250.0	RC11	0.27	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.02	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.00	≤ 1	124)	Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4
	250.0	RC11	0.27	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
780	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	500.0	RC11	0.30	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	500.0	RC11	0.03	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
780	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.01	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.30	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
780	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.18	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3



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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
	500.0	RC11	0.08	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.18	≤ 1	143)	
781	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	500.0	RC11	0.03	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	500.0	RC11	0.12	≤ 1	122)	
	500.0	RC11	0.03	≤ 1	143)	
	500.0	RC11	0.68	≤ 1	163)	
500.0	RC11	0.68	≤ 1	163)		
782	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.03	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.12	≤ 1	122)	
	0.0	RC11	0.03	≤ 1	143)	
	0.0	RC11	0.68	≤ 1	163)	
0.0	RC11	0.68	≤ 1	163)		
783	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	500.0	RC11	0.18	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.08	≤ 1	122)	
	500.0	RC11	0.18	≤ 1	143)	
500.0	RC11	0.18	≤ 1	143)		
784	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	500.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.03	≤ 1	122)	
	500.0	RC11	0.01	≤ 1	143)	
	500.0	RC11	0.31	≤ 1	163)	
500.0	RC11	0.31	≤ 1	163)		
785	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	250.0	RC11	0.28	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	500.0	RC11	0.02	≤ 1	122)	
	250.0	RC11	0.28	≤ 1	143)	
	0.0	RC11	0.31	≤ 1	163)	
0.0	RC11	0.31	≤ 1	163)		
786	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	500.0	RC11	0.06	≤ 1	122)	
	0.0	RC11	0.00	≤ 1	124)	
	0.0	RC11	0.01	≤ 1	143)	
	0.0	RC11	0.27	≤ 1	163)	
	0.0	RC11	0.27	≤ 1	163)	
0.0	RC11	0.27	≤ 1	163)		
796	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	500.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.06	≤ 1	122)	
	0.0	RC11	0.00	≤ 1	124)	
	500.0	RC11	0.01	≤ 1	143)	
500.0	RC11	0.26	≤ 1	163)		
797	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	250.0	RC11	0.27	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.02	≤ 1	122)	
	250.0	RC11	0.27	≤ 1	143)	
	500.0	RC11	0.30	≤ 1	163)	
500.0	RC11	0.30	≤ 1	163)		
798	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	500.0	RC11	0.03	≤ 1	122)	
	0.0	RC11	0.01	≤ 1	143)	
	0.0	RC11	0.30	≤ 1	163)	
0.0	RC11	0.30	≤ 1	163)		
799	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.17	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	500.0	RC11	0.07	≤ 1	122)	
0.0	RC11	0.17	≤ 1	143)		



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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
800	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	500.0	RC11	0.03	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	500.0	RC11	0.12	≤ 1	122)	
	500.0	RC11	0.03	≤ 1	143)	
500.0	RC11	0.65	≤ 1	163)		
801	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.03	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.12	≤ 1	122)	
	0.0	RC11	0.03	≤ 1	143)	
0.0	RC11	0.65	≤ 1	163)		
802	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	500.0	RC11	0.17	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.07	≤ 1	122)	
	500.0	RC11	0.17	≤ 1	143)	
500.0	RC11	0.17	≤ 1	163)		
803	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	500.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.03	≤ 1	122)	
	500.0	RC11	0.01	≤ 1	143)	
500.0	RC11	0.29	≤ 1	163)		
804	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	250.0	RC11	0.26	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	500.0	RC11	0.02	≤ 1	122)	
	0.0	RC11	0.00	≤ 1	124)	
	250.0	RC11	0.26	≤ 1	143)	
	0.0	RC11	0.29	≤ 1	163)	
0.0	RC11	0.29	≤ 1	163)		
805	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Shear force in y-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	500.0	RC11	0.06	≤ 1	122)	
	0.0	RC11	0.00	≤ 1	124)	
	0.0	RC11	0.01	≤ 1	143)	
	0.0	RC11	0.25	≤ 1	163)	
0.0	RC11	0.25	≤ 1	163)		
1073	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	300.0	RC11	0.15	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	300.0	RC11	0.05	≤ 1	122)	
	300.0	RC11	0.15	≤ 1	143)	
0.0	RC11	0.04	≤ 1	163)		
1074	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.16	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.05	≤ 1	122)	
	0.0	RC11	0.16	≤ 1	143)	
0.0	RC11	0.16	≤ 1	163)		
1075	<b>Cross-section No. 2 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.04	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	150.0	RC11	0.07	≤ 1	122)	
0.0	RC11	0.04	≤ 1	143)		
1077	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	200.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3 Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4 Cross-section check - Torsion acc. to 6.2.7 Cross-section check - Torsion and shear force acc. to 6.2.7(5) Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section Cross-section check - Biaxial bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	200.0	RC11	0.00	≤ 1	122)	
	0.0	RC11	0.08	≤ 1	131)	
	200.0	RC11	0.14	≤ 1	133)	
	200.0	RC11	0.01	≤ 1	143)	
	200.0	RC11	0.18	≤ 1	148)	
	0.0	RC11	0.08	≤ 1	168)	
0.0	RC11	0.08	≤ 1	168)		



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## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
	200.0	RC11	0.22	≤ 1	271)	Cross-section check - Axial stress and torsion - Elastic design
<b>1080 Cross-section No. 2 - SHAPE-THIN U100X50X5</b>						
	25.0	RC11	0.07	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	50.0	RC11	0.02	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	25.0	RC11	0.07	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
<b>1083 Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	0.0	RC11	0.00	≤ 1	100)	Negligible internal forces
<b>1084 Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	0.0	RC11	0.16	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.05	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.16	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	300.0	RC11	0.04	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
<b>1085 Cross-section No. 1 - SHAPE-THIN U100X50X5</b>						
	400.0	RC11	0.17	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	400.0	RC11	0.05	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	400.0	RC11	0.17	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.01	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
<b>1088 Cross-section No. 16 - SHAPE-THIN U140X40X3</b>						
	0.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.22	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
<b>1089 Cross-section No. 16 - SHAPE-THIN U140X40X3</b>						
	0.0	RC11	0.04	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.21	≤ 1	163)	Cross-section check - Biaxial bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
<b>1090 Cross-section No. 27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)</b>						
	1675.0	RC11	0.40	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.03	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	1675.0	RC11	0.40	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
<b>1091 Cross-section No. 27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)</b>						
	1675.0	RC11	0.59	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	3350.0	RC11	0.00	≤ 1	116)	Cross-section check - Bending about z-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.03	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	1675.0	RC11	0.59	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
	3350.0	RC11	0.00	≤ 1	151)	Cross-section check - Bending about z-axis and shear force acc. to 6.2.5 and 6.2.8
	2680.0	RC11	0.20	≤ 1	161)	Cross-section check - Biaxial bending and shear force acc. to 6.2.6, 6.2.7 and 6.2.9
<b>1092 Cross-section No. 27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)</b>						
	1675.0	RC11	0.59	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.01	≤ 1	116)	Cross-section check - Bending about z-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.03	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	1675.0	RC11	0.59	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
	0.0	RC11	0.01	≤ 1	151)	Cross-section check - Bending about z-axis and shear force acc. to 6.2.5 and 6.2.8
	2345.0	RC11	0.31	≤ 1	161)	Cross-section check - Biaxial bending and shear force acc. to 6.2.6, 6.2.7 and 6.2.9
<b>1093 Cross-section No. 27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)</b>						
	1675.0	RC11	0.65	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	3350.0	RC11	0.04	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	1675.0	RC11	0.65	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
	2680.0	RC11	0.24	≤ 1	161)	Cross-section check - Biaxial bending and shear force acc. to 6.2.6, 6.2.7 and 6.2.9
<b>1099 Cross-section No. 27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)</b>						
	1675.0	RC11	0.59	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.03	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	1675.0	RC11	0.59	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6



Project: Projects

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Date: 20/04/2016

Complete unit 5000x3400

## 2.4 DESIGN BY MEMBER

Member No.	Location x [mm]	LC/CO/ RC	Design		Design No.	Description
	3350.0	RC11	0.00	≤ 1	161)	6.2.8 Cross-section check - Biaxial bending and shear force acc. to 6.2.6, 6.2.7 and 6.2.9
1100	<b>Cross-section No. 27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)</b>					
	1675.0	RC11	0.59	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	3350.0	RC11	0.00	≤ 1	116)	Cross-section check - Bending about z-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.03	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	1675.0	RC11	0.59	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
	3350.0	RC11	0.00	≤ 1	151)	Cross-section check - Bending about z-axis and shear force acc. to 6.2.5 and 6.2.8
	2680.0	RC11	0.20	≤ 1	161)	Cross-section check - Biaxial bending and shear force acc. to 6.2.6, 6.2.7 and 6.2.9
1101	<b>Cross-section No. 27 - RRO 60x30x2   ALUKÖNIGSTAHL - EN 10305/5 (DIN 2395)</b>					
	1675.0	RC11	0.60	≤ 1	111)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 1 or 2
	0.0	RC11	0.03	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	1675.0	RC11	0.60	≤ 1	141)	Cross-section check - Bending and shear force acc. to 6.2.5 and 6.2.8
	3030.0	RC11	0.07	≤ 1	161)	Cross-section check - Biaxial bending and shear force acc. to 6.2.6, 6.2.7 and 6.2.9
1172	<b>Cross-section No. 24 - RRO 100x40x4 (Cold Formed)</b>					
	0.0	RC11	0.01	≤ 1	102)	Cross-section check - Compression acc. to 6.2.4
	1000.0	RC11	0.00	≤ 1	181)	Cross-section check - Bending, shear and axial force acc. to 6.2.9.1
	3000.0	RC11	0.01	≤ 1	221)	Cross-section check - Biaxial bending, shear and axial force acc. to 6.2.10 and 6.2.9
1174	<b>Cross-section No. 30 - QRO 40x2 (Cold Formed)</b>					
	0.0	RC11	0.08	≤ 1	102)	Cross-section check - Compression acc. to 6.2.4
	3050.0	RC11	0.01	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	3050.0	RC11	0.30	≤ 1	181)	Cross-section check - Bending, shear and axial force acc. to 6.2.9.1
	3050.0	RC11	0.13	≤ 1	221)	Cross-section check - Biaxial bending, shear and axial force acc. to 6.2.10 and 6.2.9
1177	<b>Cross-section No. 30 - QRO 40x2 (Cold Formed)</b>					
	0.0	RC11	0.07	≤ 1	102)	Cross-section check - Compression acc. to 6.2.4
	0.0	RC11	0.01	≤ 1	121)	Cross-section check - Shear force in z-axis acc. to 6.2.6
	0.0	RC11	0.00	≤ 1	126)	Cross-section check - Shear buckling acc. to 6.2.6(6)
	2711.1	RC11	0.26	≤ 1	181)	Cross-section check - Bending, shear and axial force acc. to 6.2.9.1
	3050.0	RC11	0.14	≤ 1	221)	Cross-section check - Biaxial bending, shear and axial force acc. to 6.2.10 and 6.2.9
1178	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	150.0	RC11	0.07	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	300.0	RC11	0.12	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	150.0	RC11	0.07	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
1179	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	150.0	RC11	0.07	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	300.0	RC11	0.11	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	150.0	RC11	0.07	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
1180	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.00	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.08	≤ 1	131)	Cross-section check - Torsion acc. to 6.2.7
	0.0	RC11	0.14	≤ 1	133)	Cross-section check - Torsion and shear force acc. to 6.2.7(5)
	0.0	RC11	0.01	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.17	≤ 1	148)	Cross-section check - Bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	200.0	RC11	0.07	≤ 1	168)	Cross-section check - Biaxial bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.21	≤ 1	271)	Cross-section check - Axial stress and torsion - Elastic design
1181	<b>Cross-section No. 1 - SHAPE-THIN U100X50X5</b>					
	0.0	RC11	0.01	≤ 1	112)	Cross-section check - Bending about y-axis acc. to 6.2.5 - Class 3
	0.0	RC11	0.00	≤ 1	122)	Cross-section check - Shear force in z-axis acc. to 6.2.6(4) - Class 3 or 4
	0.0	RC11	0.09	≤ 1	131)	Cross-section check - Torsion acc. to 6.2.7
	0.0	RC11	0.15	≤ 1	133)	Cross-section check - Torsion and shear force acc. to 6.2.7(5)
	0.0	RC11	0.01	≤ 1	143)	Cross-section check - Bending and shear force acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.18	≤ 1	148)	Cross-section check - Bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	200.0	RC11	0.07	≤ 1	168)	Cross-section check - Biaxial bending, shear force and torsion acc. to 6.2.9.2 and 6.2.10 - Class 3 - General cross-section
	0.0	RC11	0.22	≤ 1	271)	Cross-section check - Axial stress and torsion - Elastic design



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Date: 20/04/2016

Complete unit 5000x3400

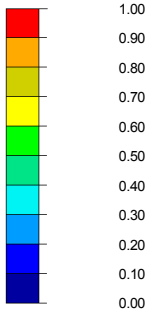
## DESIGN: ULTIMATE LIMIT STATE - CROSS-SECTION DESIGN

RF-STEEL EC3 CA1

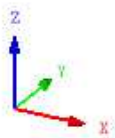
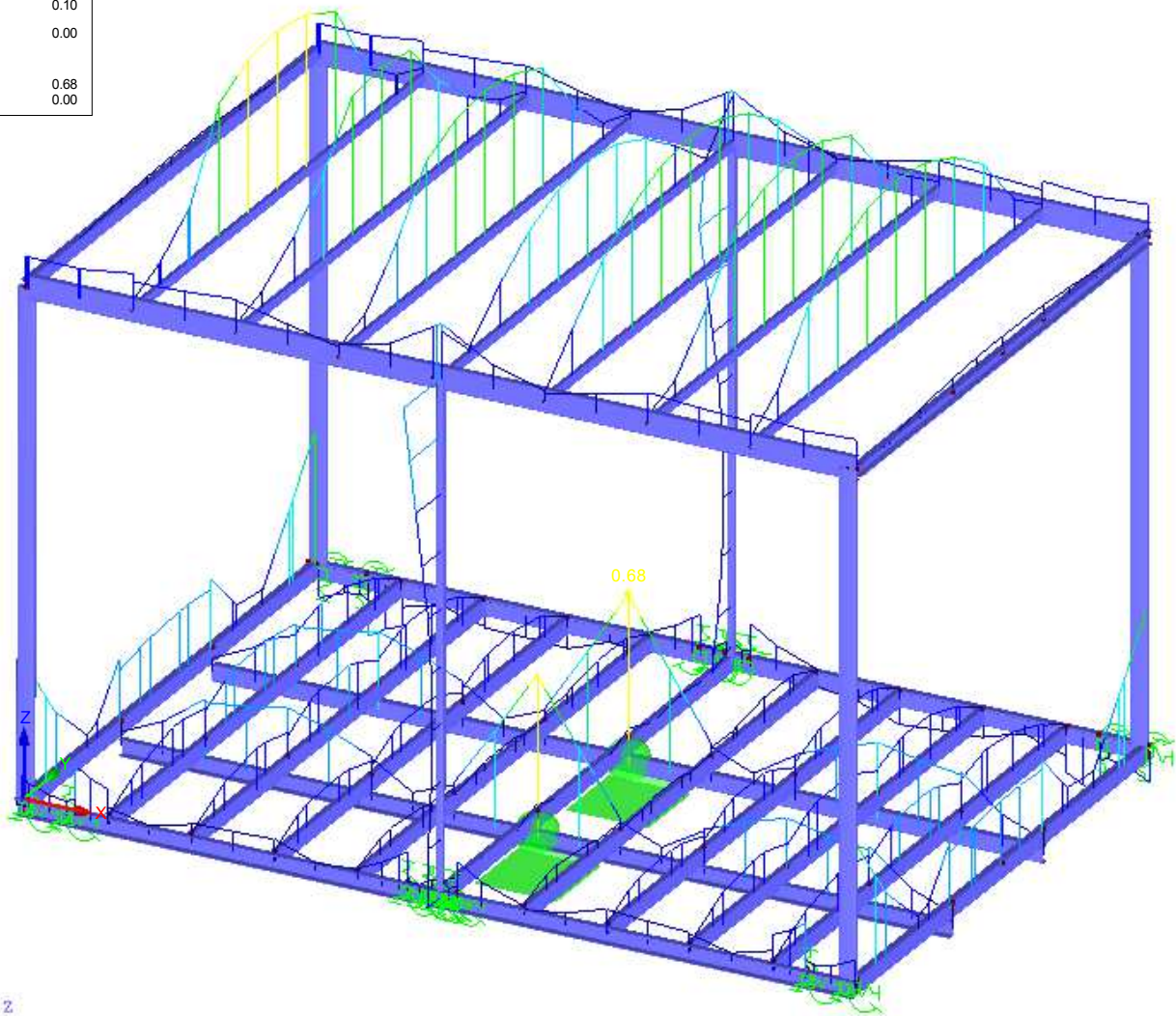
Ultimate Limit State: Cross-Section Design

Isometric

Max  
Design Ratio [-]



Max : 0.68  
Min : 0.00



Max Design Ratio: 0.68