INDEX

1 INTRODUCTION

The aim of this document is to show the structural design and calculation of the temporary structure shown in Figure 1, which will be built in Perth - Australia.

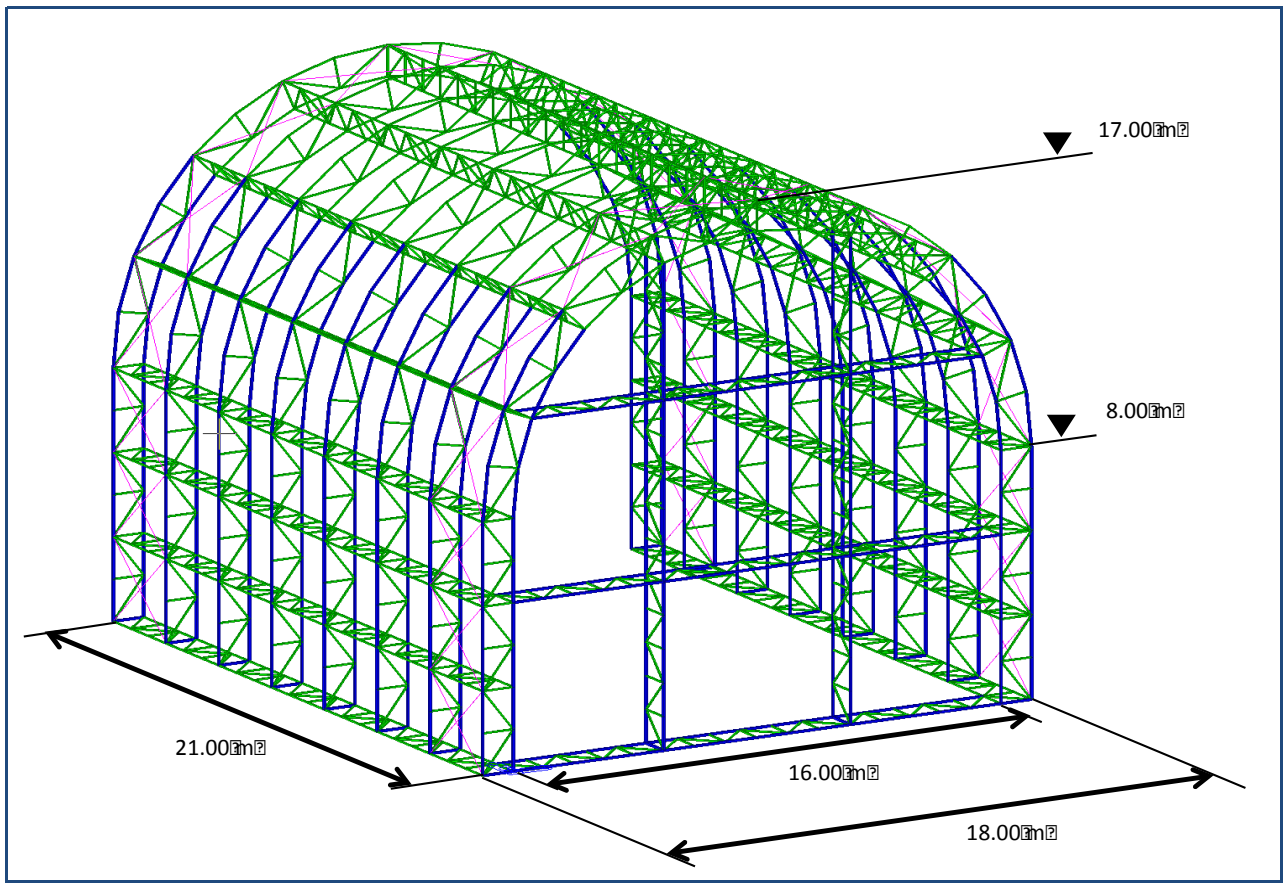


Figure 1 3D Model of the Temporary structure

The steel structure is installed and used as boats storage. It consists of trussed elements that will be hot galvanized. The roof has a segmental arch shape with a total height at the center of 17.00m. The overall plan dimensions , shown in Figure 1, are 18m x 21m and the lateral walls have an height of 8m. The base columns are equipped with rubber wheels that allow the movement of the structure in plan and steel base plate that allow to fix the structure.

For a safe use of the structure it must be respected the “general prescriptions” described in §2 of this document.

2 REREFENCE CODES

The reference codes for structural calculation are Eurocodes. They are a set of harmonized technical rules developed by the European Committee for Standardisation for the structural design of construction works in the European Union.

The following Eurocodes are used:

- EN 13782:2005 Temporary structures - Tents - Safety
- EN 1990:2004 Eurocode: Basis of structural design.
- EN 1991-1-1:2004 Eurocode 1: Actions on structures - Part 1-1: Densities, self-weight, imposed loads for buildings.
- EN 1991-1-3:2004 Eurocode 1: Actions on structures – Part 1-3: General actions - Snow loads
- EN 1991-1-4:2004 Eurocode 1: Actions on structures – Part 1-4: General actions - Wind actions
- EN 1993-1-1: Eurocode 3: Design of steel structures - General rules and rules for buildings.
- EN 1993-1-2: Eurocode 3: Design of steel structures - General rules - Structural fire design.
- EN 1993-1-8: Eurocode 3: Design of steel structures - Design of joints.

3 GENERAL PRESCRIPTION

The following technical prescriptions have to be followed in order to safely use the structure:

1. The structure must always be fixed at the ground through tension components.

2. In case of snow accumulation on the load bearing structure, it is important to proceed with the removal of the same by mechanical devices, by heating of the surfaces or any suitable devices for the removal.

3.1 Use and Operation

According to EN 13782: 2004 Temporary structures - Tents – Safety, the following prescriptions have to be respected.

3.1.1 Periodic thorough examination

Each tent should be examined prior to the end of a period given in the tent book.

The period between two thorough examinations should be done according to local regulation but should not be longer than 3 years.

In general the examination should be carried out on the erected tent. Exceptionally there can be the possibility to check the tent being dismantled.

Mainly the following checks should be performed:

- correct erection;
- check of the structure, especially of modified, repaired or exchanged parts;
- identification of damages, tearing and corrosion;
- check of safety devices (if appropriate);
- fulfilment of conditions from previous examinations.

3.1.2 Installation examination

3.1.2.1 General

Tents should be subjected to an installation examination after each new installation, carried out by competent experts.

3.1.2.2 Extent of installation examination

The following procedure should be performed:

- observance of the conditions imposed by the tent book and their fulfilment;
- correct packing and anchoring according to the plans with respect to the local ground conditions;
- checking of anchorage;

- conformity with the construction documents, existence of all essential load-bearing components inclusive of bracing comparison of forms and cross-sections of load-carrying components. Attention is to be paid to the correct incorporation, staircases, platforms, linings, decorations and similar equipment;
- suitability of the site of tent;
- state of conservation of the essential load-bearing construction parts (random check on site);
- fastening.

3.1.3 Heating and cooking systems

Electrical heating system can be installed in tents.

Other heating system should be put outside at a sufficient distance.

The warm-air generators should be with heat exchangers.

To prepare meals and drinks tents can be equipped with fireplaces in kitchens, these areas should be separated. The heating system should comply with the relevant EN standards or, in absence, with the agreement by parts.

3.1.4 Electrical fittings

The electrical fittings should comply with the relevant EN standards or, in absence, with the agreement by parts.

3.1.5 Fire extinguishers

Types and numbers of extinguishers should be in accordance with EN 3.

4 BURNING BEHAVIOUR

The following is the identification of national standards about the burning behaviour of textile fabrics (for the covering of temporary structures).

4.1 European Standards

EN 1101:1996, Textiles and textile products — Burning behaviour — Curtains and drapes — Detailed procedure to determine the ignitability of vertically oriented specimens (small flame)

EN 1102:1995, Textiles and textile products — Burning behaviour — Curtains and drapes — Detailed procedure to determine the flame spread of vertically oriented specimens

EN 1624:1999, Textiles and textile products — Burning behaviour of industrial and technical textiles - Procedure to determine the flame spread of vertically oriented specimens

EN 1625:1999, Textiles and textile products — Burning behaviour of industrial and technical textiles — Procedure to determine the ignitability of vertically oriented specimens

EN 1363-1, Fire resistance tests — Part 1: General requirements

EN 1363-2, Fire resistance tests — Part 2: Alternative and additional procedures

EN 1364-1, Fire resistance tests for non-loadbearing elements — Part 1: Walls

EN 1364-2, Fire resistance tests for non-loadbearing elements — Part 2: Ceilings

EN 1365-1, Fire resistance tests for loadbearing elements — Part 1: Walls

EN 1365-2, Fire resistance tests for loadbearing elements — Part 2: Floors and roofs

EN 1365-3, Fire resistance tests for loadbearing elements — Part 3: Beams

EN 1365-4, Fire resistance tests for loadbearing elements — Part 4: Columns

EN 1365-5, Fire resistance tests for loadbearing elements — Part 5: Balconies and walkways

EN 1365-6, Fire resistance tests for loadbearing elements — Part 6: Stairs

EN 13501-1, Fire classification of construction products and building elements — Part 1: Classification using test data from reaction to fire tests

EN 13501-2, Fire classification of construction products and building elements — Part 2: Classification using data from fire resistance tests, excluding ventilation services

4.2 National Standards – FRANCE

NF P 92-507:2004, Safety against fire — Building — Interior fitting materials — Classification according to their reaction to fire

NF P 92-503:1995, Safety against fire — Building materials — Reaction to fire tests — Electrical burner test used for flexible materials

FD G 07-180:1985, Textiles — Fire behaviour — Data for choosing standardized methods of test to be used

NF G 07-182:1985, Textiles — Fire behaviour — Measurement of flame spread properties of 45 degrees oriented

specimens - Determination of flame spread rate

NF G 07-184:1985, Textiles — Behaviour in fire — Classification method based on the surface destroyed

5 MATERIALS

The following are the main materials used.

5.1 Structual steel and Anchor Bolts

All structural elements are steel Q345. The following table shows the mechanical characteristics of the material.

Steel Q345			
Yielding strength	f_{yk}	*345*	*N/mm²*
Tensile strength	f_{tk}	*500*	*N/mm²*
Young Modulus	E	*210000*	*N/mm²*
Poisson coefficient	v	*0.3*	
Thermal expansion coefficient	α	*1.20E-05*	
Mass density	ρ	*7850*	*kg/m³*

5.2 Bolts

Bolts and nuts are according to EN ISO 898-1 and EN ISO 898-2. Bolts are Class 5.8 and nuts are Class 5.

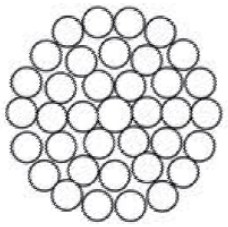
Bolt Class 5.8			
Yielding strength	f_{yb}	*400*	*N/mm²*
Tensile strength	f_{tb}	*500*	*N/mm²*

5.3 Tension Elements

Tension elements, used as bracing elements, are spiral strands with a diameter of 12 mm.

Funi spiroidali - *Spiral strands*

Formazione secondo EN 12385-10 - *Construction conforming to EN 12385-10*



- Elevata sezione metallica
- Zincatura "Pesante" EN 10264-3 cl "A"
- Lubrificazione interna anti ossidante
- Presirata al 50 % del MBF - su richiesta
- Modulo di elasticità 160 kN/mm2 (dopo prestiratura)
- *Very high metallic area*
- *Heavy galvanizzation EN 10264-3 cl "A"*
- *Special lubrication inside*
- *Pre stretched at 50% of MBF (on request)*
- *Elastic modulus 160 kN/mm2 (after prestetching)*

Diametro Diameter mm	Formazione Construction	Sezione Section mm²	Peso Weight Kg	Carico di rottura minimo garantito Minimum breaking load guaranteed 1570 N/mm² kN	1770 N/mm² kN
12	1x19	84.1	0.69	119	
13	1x19	98.8	0.82		157
14	1x19	115	0.95	162	
14.5	1x19	123	1.02		196
16	1x19	150	1.24	211	238
18	1x19	189	1.71	268	302
19	1x19	211	1.82		336
22	1x37	282	2.44	390	439
24	1x37	336	2.90	464	526
26	1x37	394	3.56	544	614
30	1x37	524	4.56	725	817
32	1x37	597	5.17	824	930
36	1x61	754	6.88	1040	1170
38	1x61	840	7.37	1160	1310
40	1x61	931	8.50	1290	1450
42	1x91	1020	9.35	1410	1590
44	1x91	1120	9.80	1550	1750
48	1x91	1340	11.60	1850	2080
51	1x91	1510	13.60	2090	2350
54	1x91	1690	15.26	2340	
57	1x91	1890	17.11	2610	
60	1x91	2090	19.03	2890	
64	1x91	2380	21.47	3280	
66	1x91	2530	22.89	3490	

Figure 2 Spiral strands according to EN 12385-10.

6 MAIN GEOMETRY

The following pictures show the overall dimension, typical frame, connections and properties of the load bearing structure.

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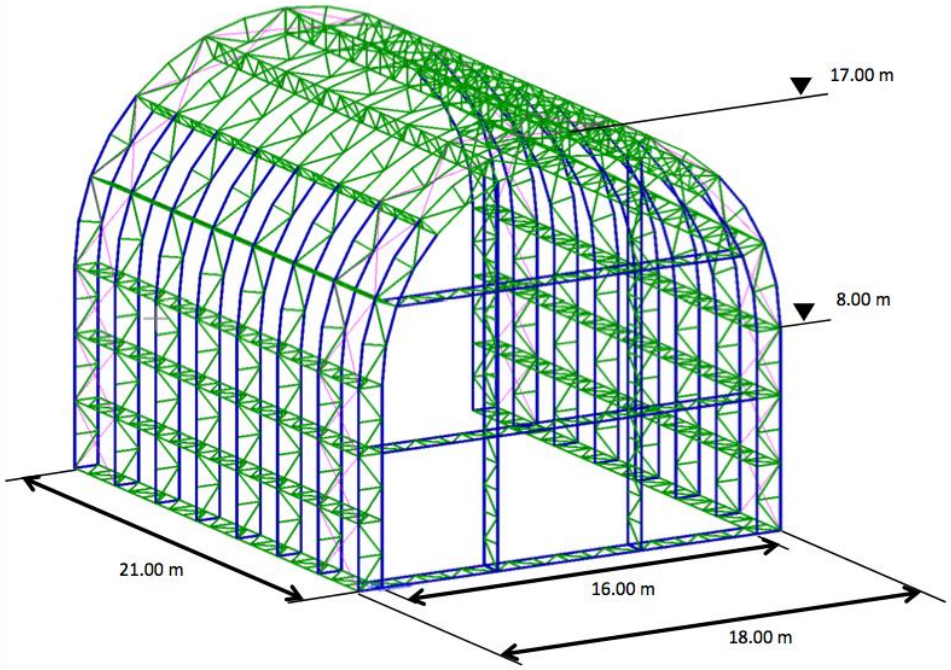
3D OVERALL DIMENSION AND PROPERTY



Material:		**Weight**		
Steel Section	Q345	Steel Section	11200	kg
Bolts	5.8	PVC	635	kg
Anchor Bolts	Q345			
PVC	(950 g/m^2)	Painted Area	575	m^2
Spiral Strands Min. Breaking Load = 119kN				

Date: 04/11/2015	*Prepared:* F.C.	*Checked:* D.B.	*Sheet:* 1/7

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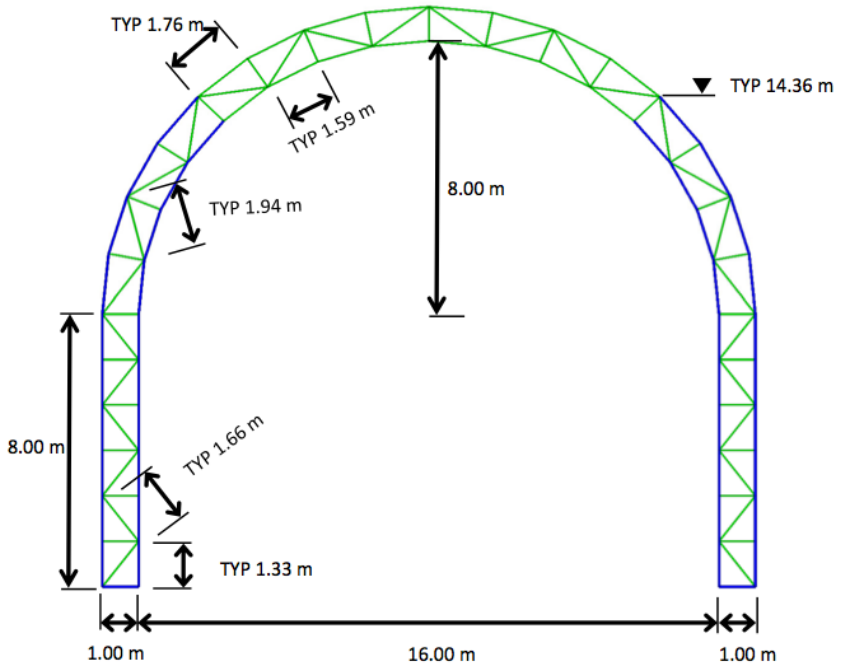
		Rev.:	0

TYPICAL FRAME



Legend:

- Square Hollow Section 60 x 60 x 3 mm
  - . Weight 309 kg
  - . Total Length 58.66 m
  - . Painted Area 14.08 m^2
- Square Hollow Section 40 x 40 x 2,5 mm
  - . Weight 308 kg
  - . Total Length 106.7 m
  - . Painted Area 17.07 m^2

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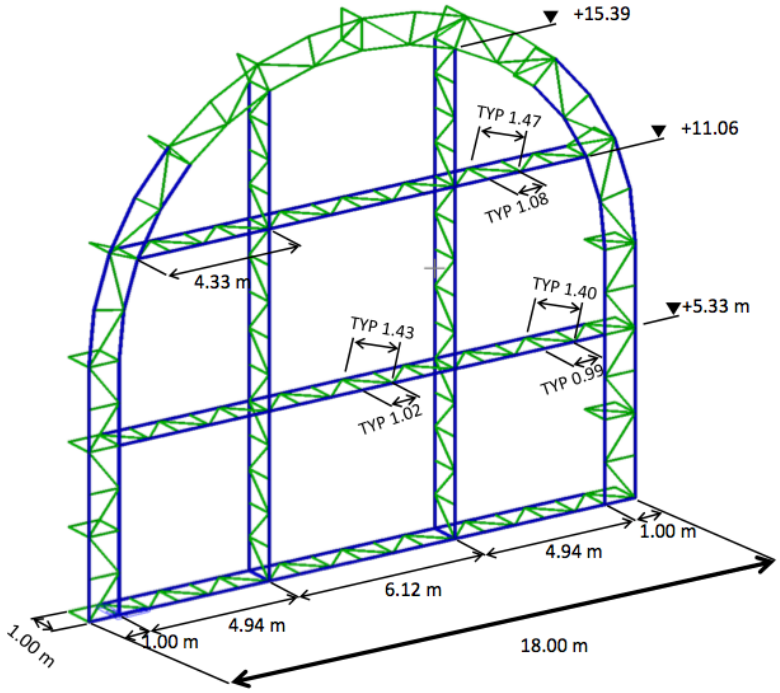
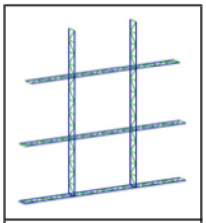
FRONTAL FRAME



Legend:

- Square Hollow Section 60 x 60 x 3 mm
  - . Weight 817 kg
  - . Total Length 155.1 m
  - . Painted Area 37.23 m^2
- Square Hollow Section 40 x 40 x 2,5 mm
  - . Weight 498 kg
  - . Total Length 172.2 m
  - . Painted Area 27.56 m^2



Weight, Length and Painted area refer to these elements

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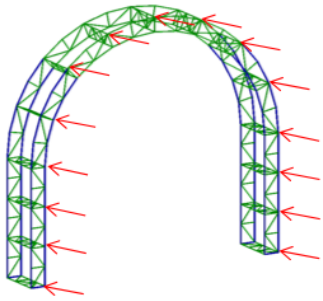
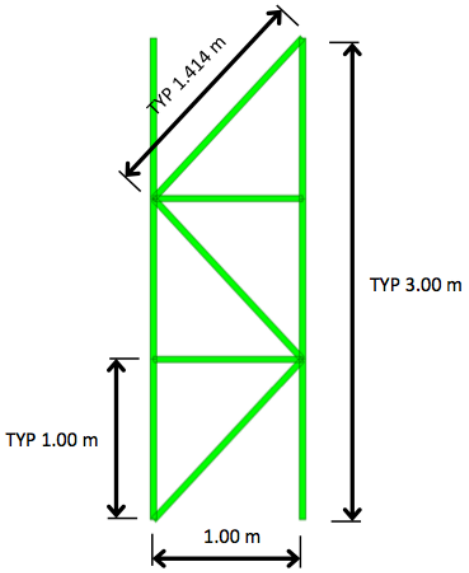
TYPICAL LINKING TRUSS





- Square Hollow Section 40 x 40 x 2,5 mm

. Weight	36	kg
. Total Length	12.24	m
. Painted Area	1.96	m^2

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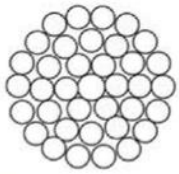
SPIRAL STRANDS

Funi spiroidali - *Spiral strands*

Formazione secondo EN 12385-10 - *Construction conforming to EN 12385-10*



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- *Heavy galvanizzation EN 10264-3 cl "A"*
- *Special lubrication inside*
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- *Elastic modulus 160 kN/mm2 (after prestetching)*

Diametro Diameter mm	*Formazione Construction*	*Sezione Section* mm²	*Peso Weight* Kg	*Carico di rottura minimo garantito Minimum breaking load guaranteed* 1570 N/mm² kN	1770 N/mm² kN
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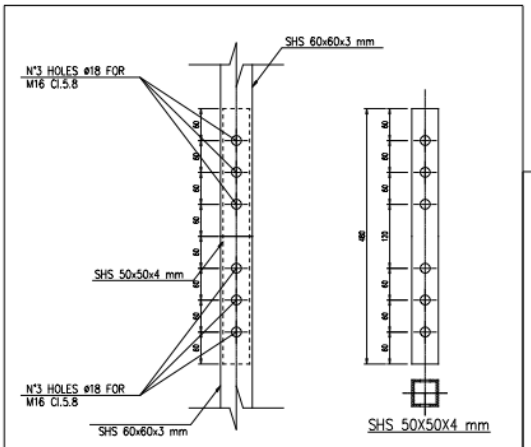
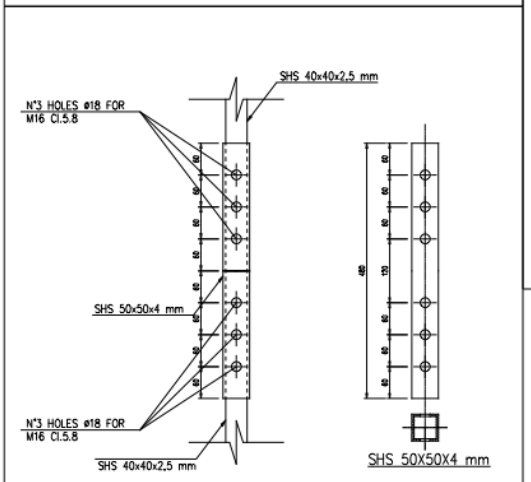
		Rev.:	0

CONNECTIONS

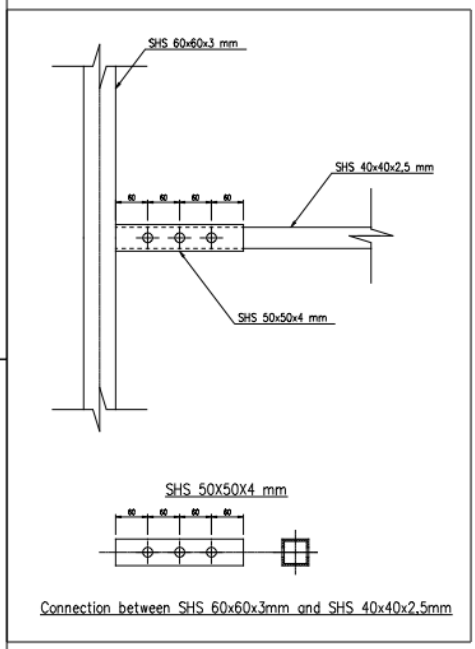
Scale 1:10



Connection between SHS 60x60x3mm



Connection between SHS 40x40x2,5mm



Connection between SHS 60x60x3mm and SHS 40x40x2,5mm

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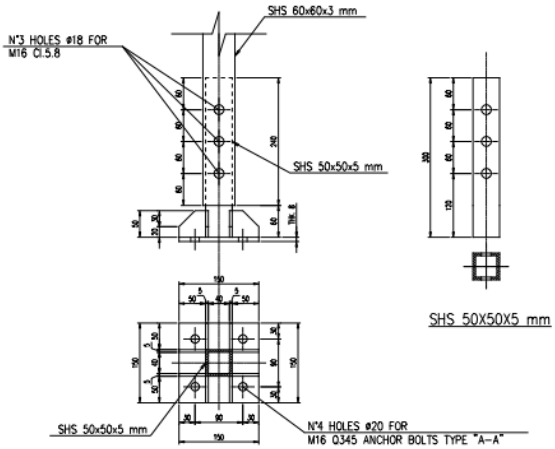
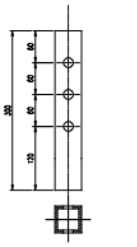
BASE CONNECTIONS

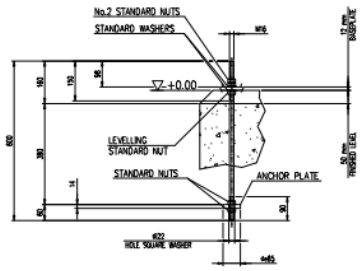
Scale 1:10



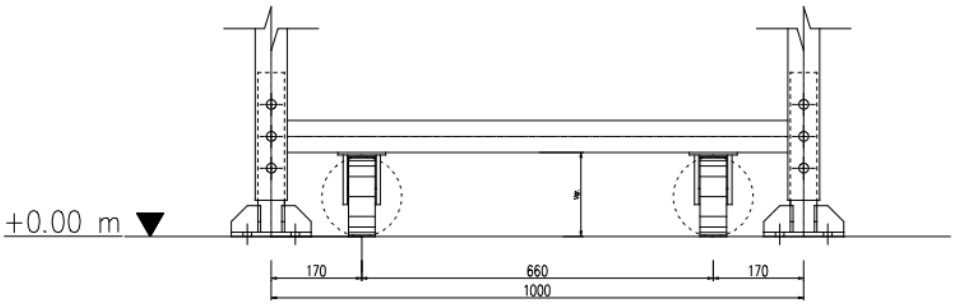
BASEPLATE (TYPICAL)



SHS 50X50X5 mm



ANCHOR BOLT M16 TYPE "A-A"



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7 LOADS

In this chapter it is described the determination of the loads acting on the structure.

7.1 Structural Self-Weight

The self-weight is considered directly by the software.

7.2 Non structural load

Non structural load is the self weight of the tent cover showed in the following table

Non structural load		
PVC Tent Cover	*950*	*g/m²*

The EN 13783 in §7.3 reports also that he dead load of dry canvas shall be assumed as being 5 N/m2 for the calculation of the structures in respect of wind pressure from below which is required for the assessment of the safety against overturning and for the sizing of the anchoring; for all other purposes, it shall be assumed as specified in EN standards or, in absence, in agreement by parts.

7.3 Wind Load

According to §6.4.2 of EN 13782:2005, the wind loads shall be based on EN 1991-1-4, assuming that the special nature of the textile covers are taken into account and regarding:

- location;
- duration and period of installation;
- use under supervision of an operator;
- possibilities of protecting and strengthening.

For $v_{ref} \leq 28$ m/s, as in the case of Port Frejus, the wind load is given in the following Table (extracted from §6.4.2.2 of EN 13782) and it may be applied with the distribution shown in Figure 3 and pressure coefficient shown in Figure 4.

Table 1 — Wind loads

height: *h* m	pressure: *q* N/m^2
$h \leq 5$	500
$5 < h \leq 10$	600
$10 < h \leq 15$	660
$15 < h < 20$	710
$20 < h \leq 25$	760

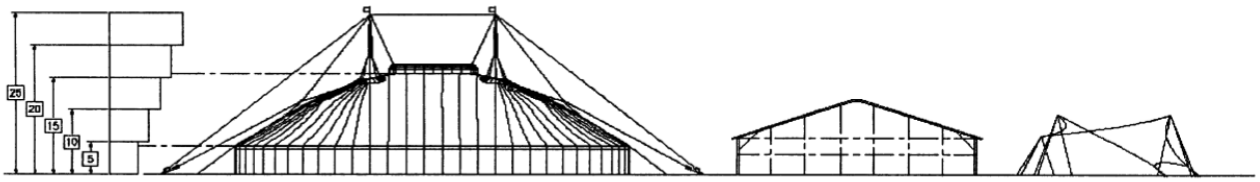

Figure 3 Application of wind load as per EN 13782

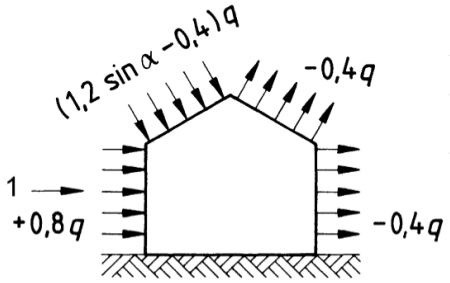

Figure 4 Aerodynamic coefficients for structures of conventional shape as per EN 13782

Since the roof has a cylindrical section, the pressure coefficients shown in Figure 5 are considered for it, as per EN 1991-1-4(2005), considering that f/d is equal to 9/18 = 0,5.

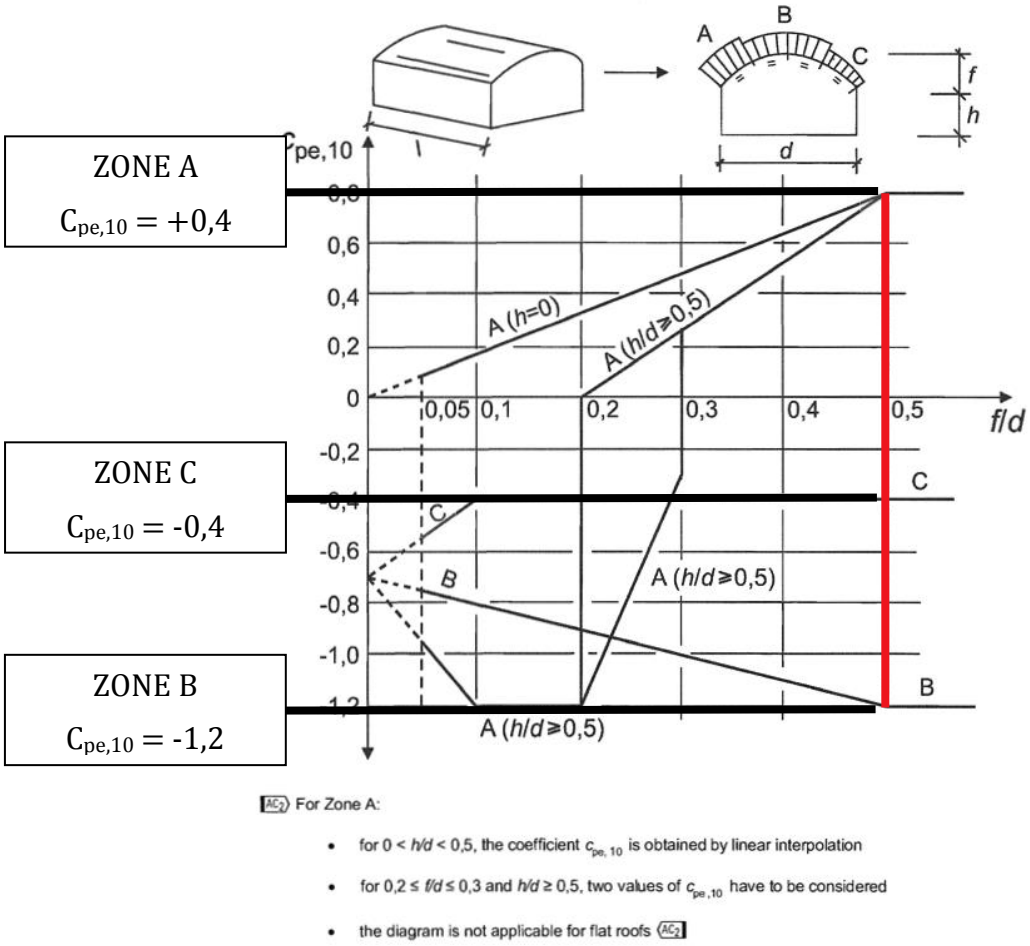

Figure 5 Recommended values of external pressure coefficients as per EN 1991-1-4:2005

The following picture summarizes the pressure coefficient used for the wind load on the load bearing structure.

C_{pe}=-1,2

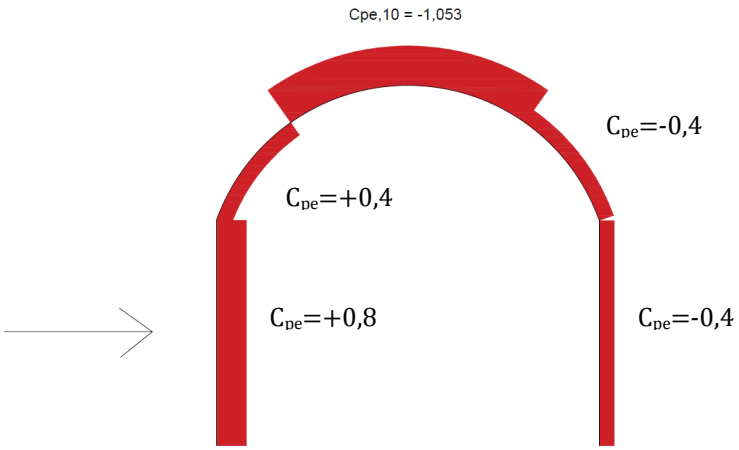

Figure 6 Pressure coefficients used for the load bearing structure

7.4 Snow Load

As per §6.4.3 of EN 13782:2005, the snow loads need not to be taken into account for tents:

- erected in areas, where there is no likelihood of snow or;
- operated at a time of the year, where the likelihood of snow can be discounted or;
- where by design or operating conditions snow settling on the tent is prevented;
- where pre-planned operation action prevents snow settling on the tent.

This last condition may be achieved by:

- sufficient heating equipment is installed and is ready for use and;
- heating is started prior to snow fall and;
- tent is heated in such a way, that the whole roof cladding has an outside air temperature of more than + 2 °C;
- cladding is made and tensioned in such a way, that pounding of water or any other deformations of the cladding cannot take place.

As said in the "general prescription" chapter, it is not necessary to take into account the snow load.

7.5 Seismic Load

As per §6.5 of EN 13782:005, seismic forces may generally not be considered because of the flexibility and the light weight of the tent.

7.6 Load Cases

7.6.1 Permanent Action G_k

The permanent actions are due to selfweight of the structure and to the non structural element weight constituted by PVC cover.

The self-weight is considered directly by the software.

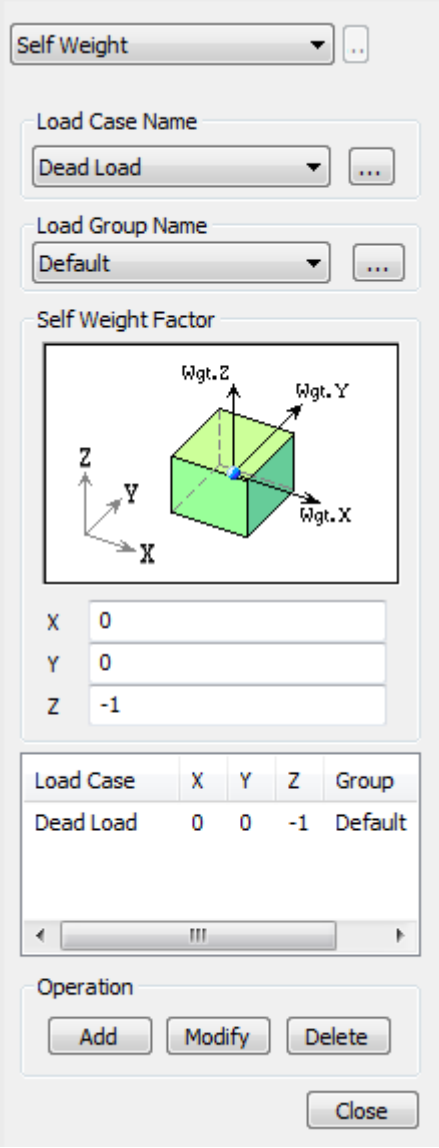

Figure 7 Self weight input

The load due to non structural element (§6.2) is directed in the vertical direction and is applied as floor load. The following picture shows the application of this load to the load bearing structure.

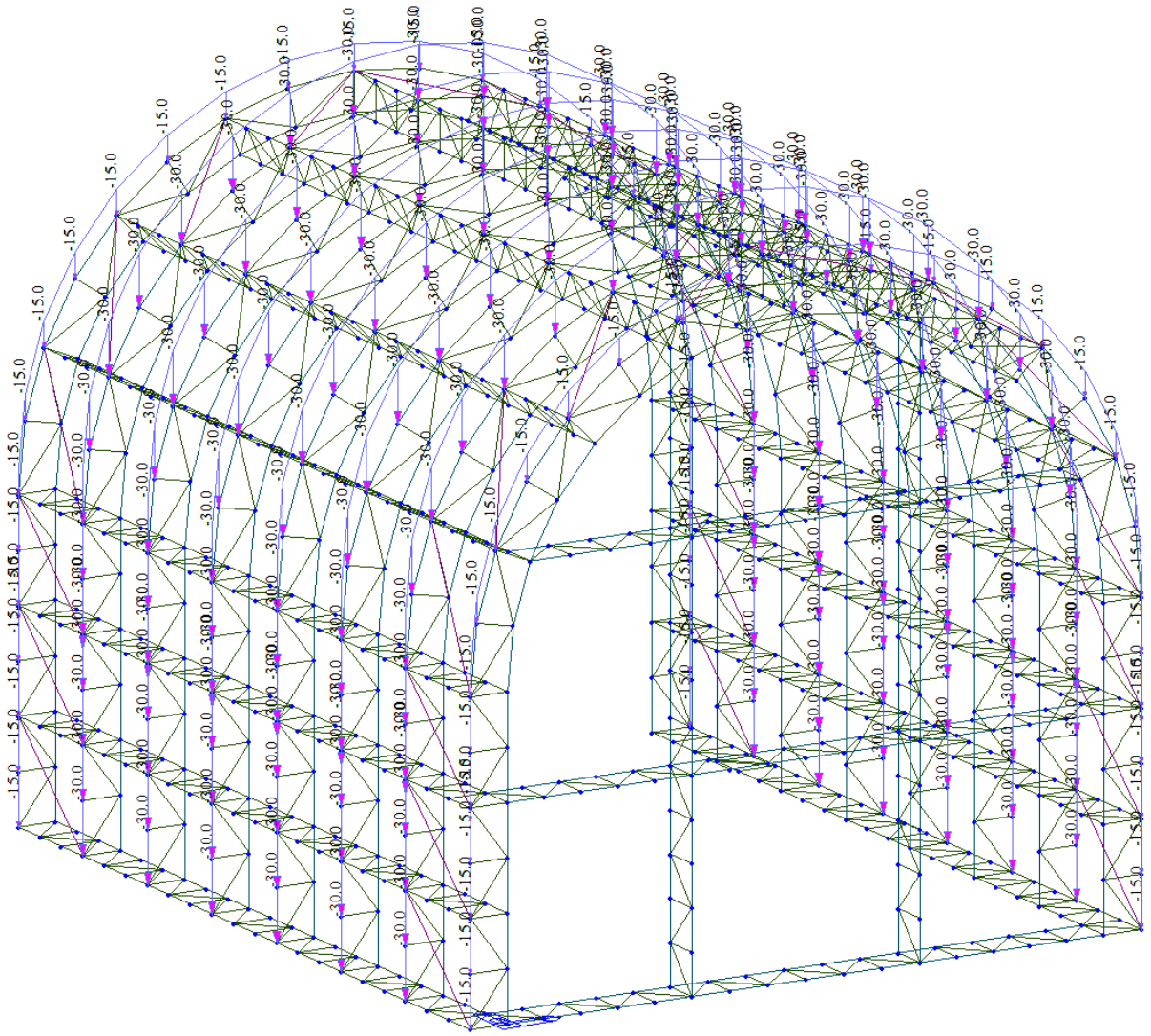

Figure 8 Application of the load due to Non Structural Loads

7.6.2 Variable Action Q_k

The variable action is due to wind load on the load bearing structure. It is applied on the structure as described in §6.3 and it is shown in the following pictures.

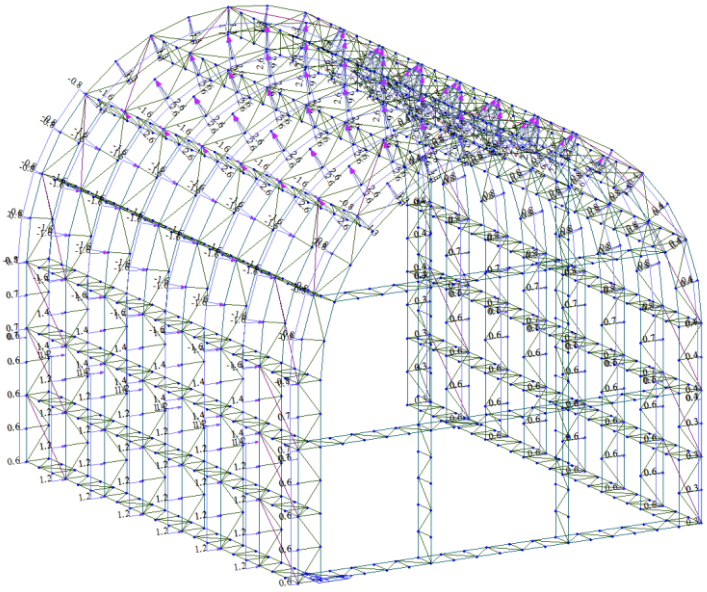

Figure 9 Application of Wind Load in +X direction

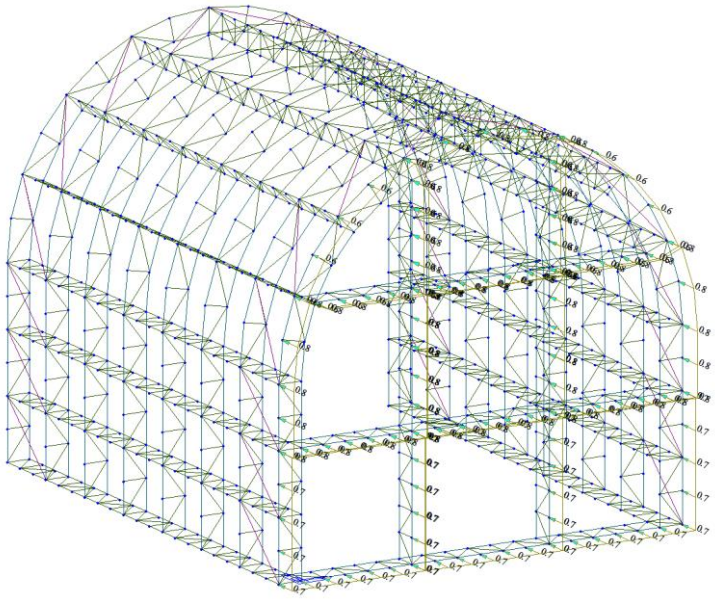

Figure 10 Application of Wind Load in +Y direction

7.7 Load Combinations

According to §6.6.2 of EN 13782:2006, the design values of the actions shall be combined in the following way:

$$\gamma_G G_k + \gamma_F Q_{k,1}$$

$$\gamma_G G_k + \sum \gamma_F Q_{k,i}$$

where:

$\gamma_G = 1{,}35$ partial safety factor for unfavourable permanent actions;

$\gamma_G = 1{,}00$ partial safety factor for favourable permanent actions;

$\gamma_F = 1{,}5$ partial safety factor for only one variable actions;

$\gamma_F = 1{,}35$ partial safety factor for more variable actions;

G_k characteristic value of permanent actions;

$Q_{k,i}$ characteristic value of one of the variable actions;

In this case, there is only the wind load as variable action so the following load combinations are considered.

N°	Combination	Name
1	1.35 G_k	ULS - Vertical Load
2	1.35 G_k + 1.5 W_x	ULS - Wind Load 1
3	1.00 G_k + 1.5 W_x	ULS - Wind Load 2
4	1.35 G_k + 1.5 W_y	ULS - Wind Load 3
5	1.00 G_k + 1.5 W_y	ULS - Wind Load 4
6	1.00 G_k + 1.00 W_x	SLS - Wind Load
7	1.00 G_k + 1.00 W_y	SLS - Wind Load
8	1.00 G_k + 1.20 W_x	Stability
9	1.00 G_k + 1.20 W_y	Stability

7.8 Verification philosophy of stability and equilibrium

According to §7.1 of EN 13782:2005, the limit states due to the combinations of actions shall be calculated. It shall be verified that the design value of internal forces or moments does not exceed the corresponding design resistance of the respective part and the ultimate or serviceability limit state is not exceeded.

Design resistance shall be evaluated in accordance with the following equation:

$$R_d = \frac{R_k}{\gamma_M}$$

where

R_d is the design value of material properties

R_k is the characteristic value of material properties

$\gamma_M = 1{,}1$ is the partial safety factor for the material property in static load combination for steel

According to §7.2 of EN13782:2005, it must be also checked the safety against overturning, sliding and lifting. Favorably acting permanent actions shall be taken into account with their lower value only. Safety factor against overturning, sliding and lifting are taken according to EN13782 and are hereafter shown.

Loading		γ
1	Favourably acting proportions of the dead load	1
2	Unfavourably acting proportions of the dead load	1,1
3	Unfavourably acting wind loads	1,2
4	Unfavourably acting proportions of loads other than the loads listed in items 2 and 3	1,3
NOTE If loads are resolved into components, then these components should be multiplied by the same value of γ.		

Figure 11 Safety factor against overturning, sliding and lifting

According to §7.3 of EN13782:2005, the dead load of dry canvas is taken equal to 5 N/m^2 for the calculation of the structures in respect of wind pressure from below which is required for the assessment of the safety against overturning and for the sizing of the anchoring; for all other purposes, it is taken as described in §6.2 of this document.

8 Results and Structural Check

This chapter first shows the main results of the calculation, then all the relevant structural check are shown.

In the FEM model we considered the load bearing structure fixed at the base as indicated in the following picture.

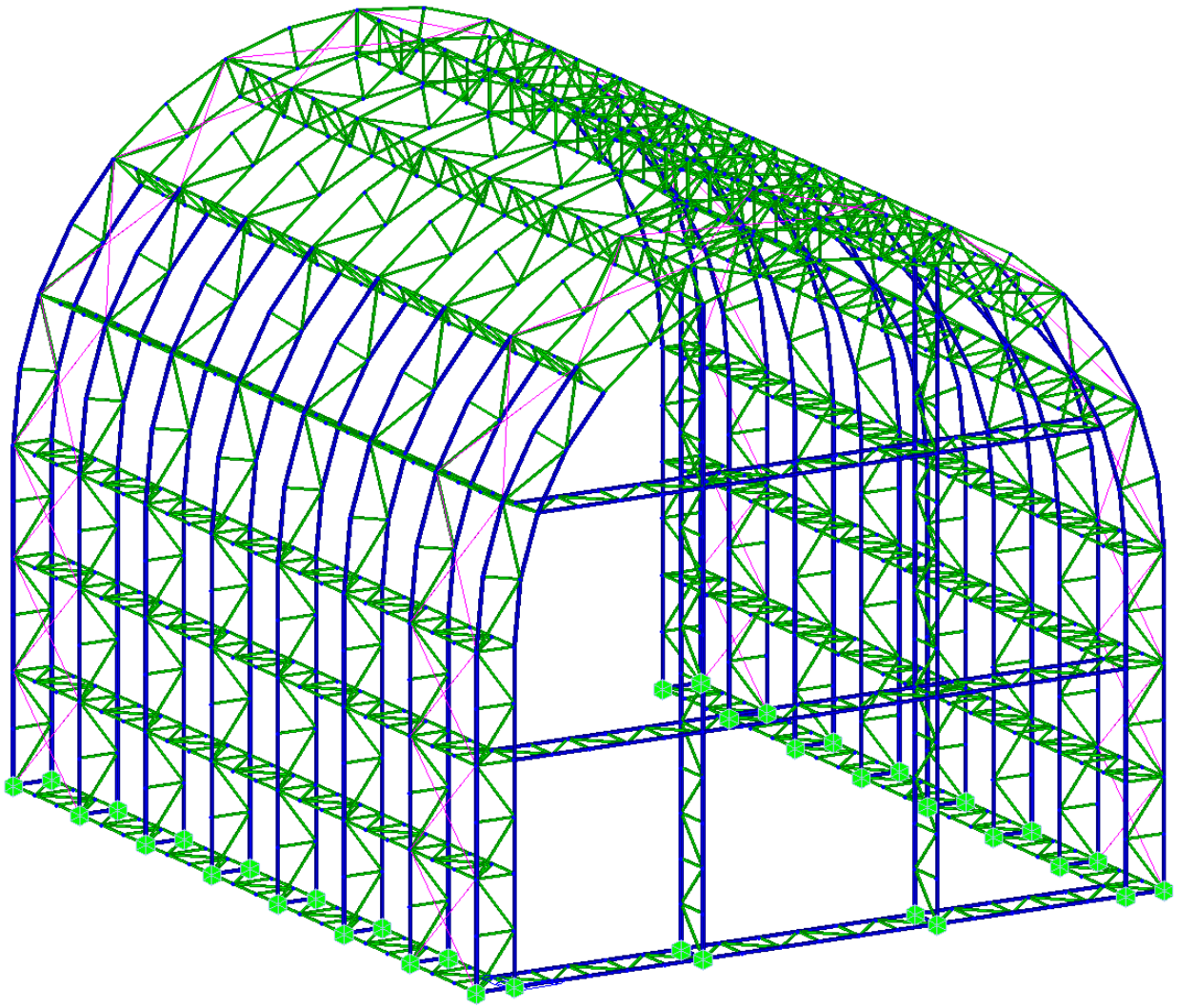

Figure 12 FEM Model with boundary condition

The following pictures show different views of the FEM Model.

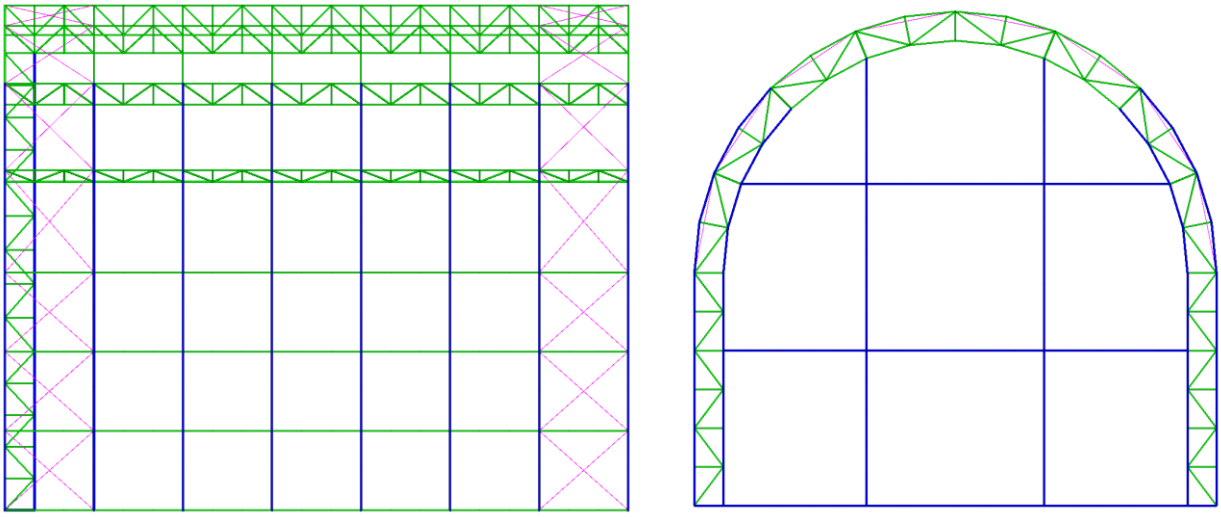

Figure 13 Lateral and Front views of the FEM Model

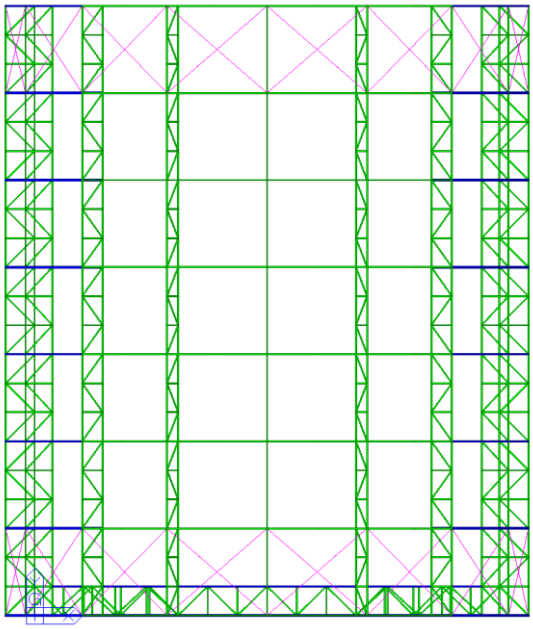

Figure 14 Top view of the FEM Model

Please consider that in the calculation, it has been considered only the tension ropes for the horizontal load considered.

8.1 Main Results

8.1.1 Structural Dead Load - Self Weight

The self weight of the structure is about 10400 kg.

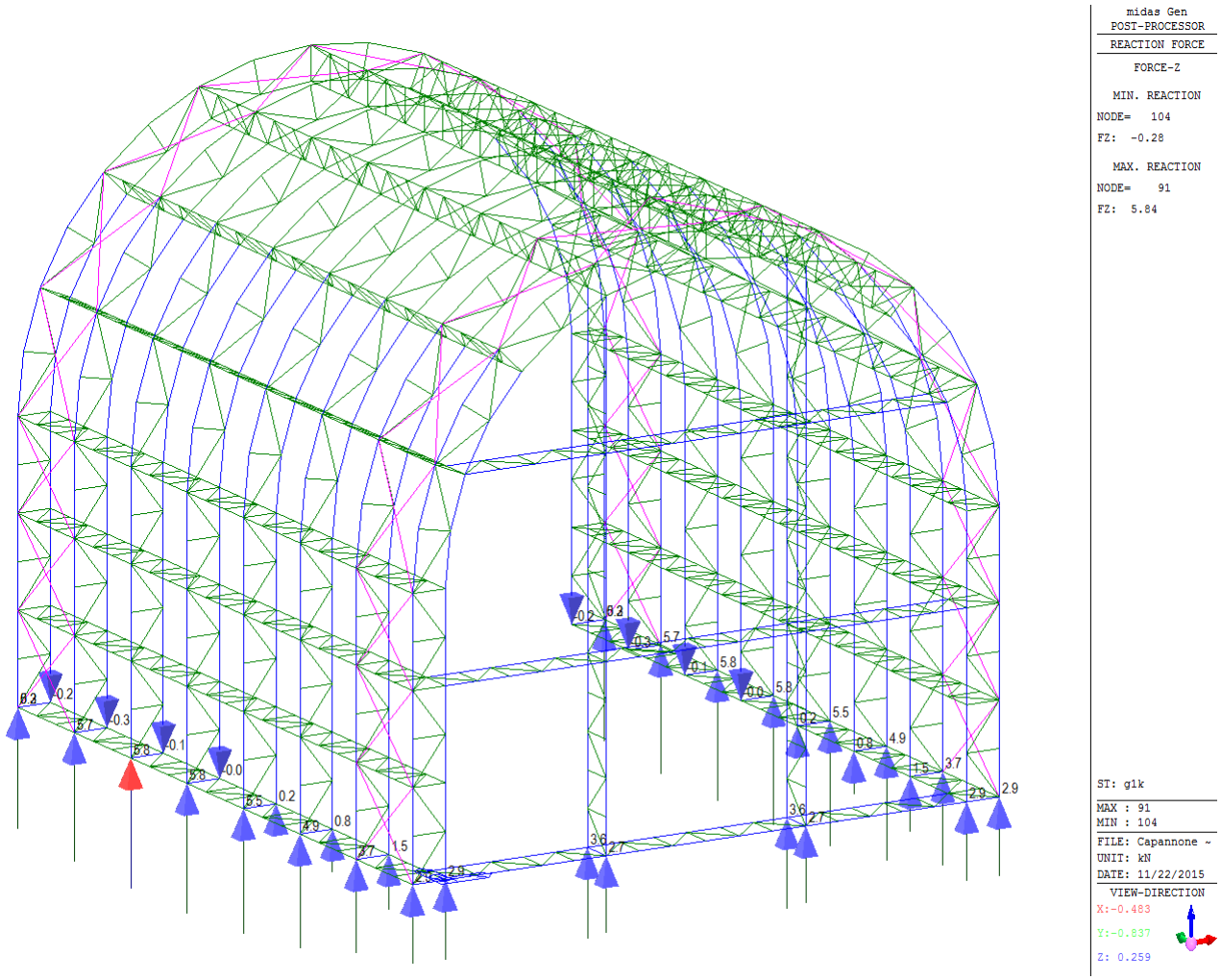

Figure 15 Self-Weight Reactions – G1k

8.1.2 Non Structural Dead Load - Tent Cover

The following picture shows the tent cover reaction. The sum of the following reaction is equal to 4,6kN.

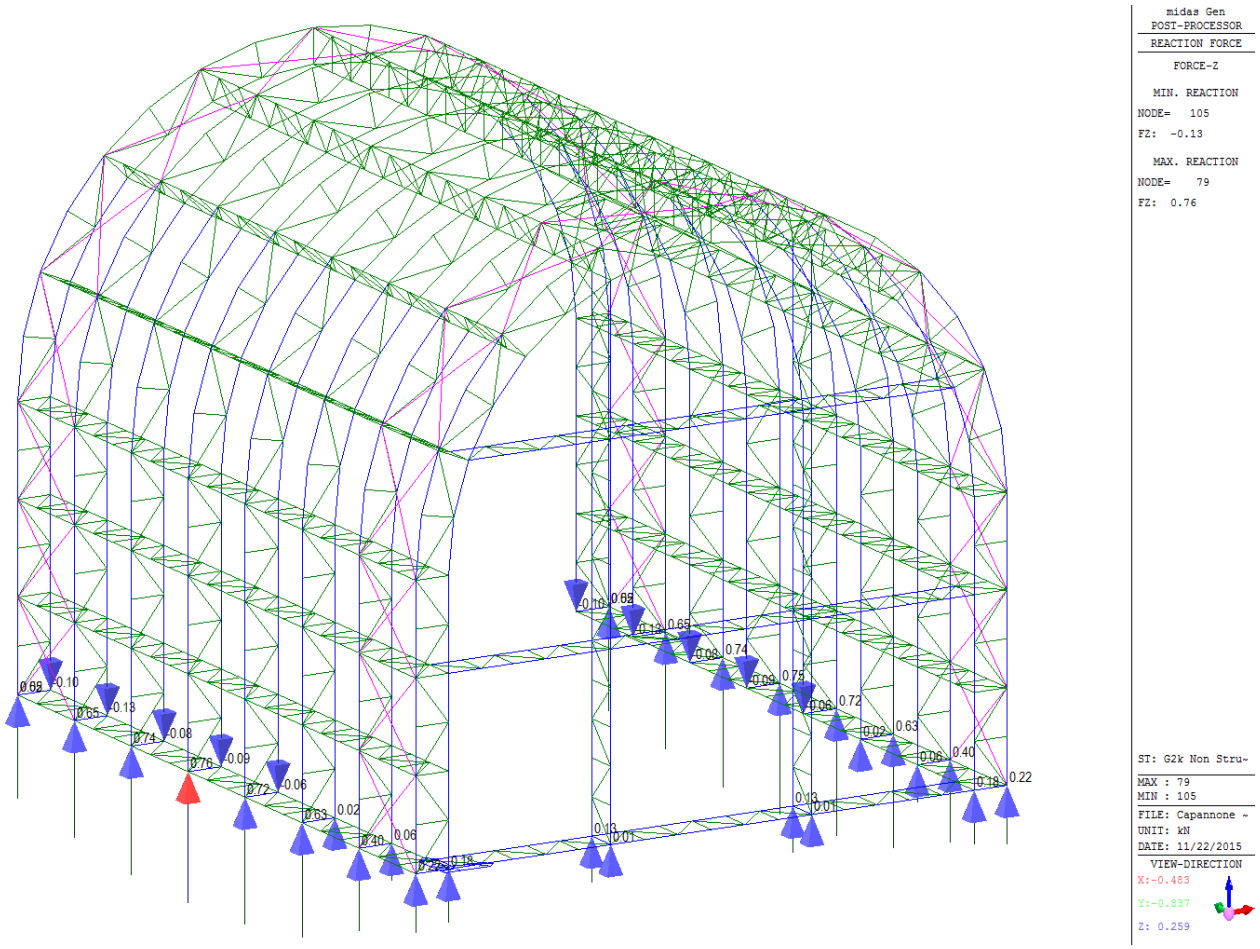

Figure 16 Non structural dead load due to the tent cover - G2k

8.1.3 Wind Load

The following pictures show the base shear due to wind load in both directions.

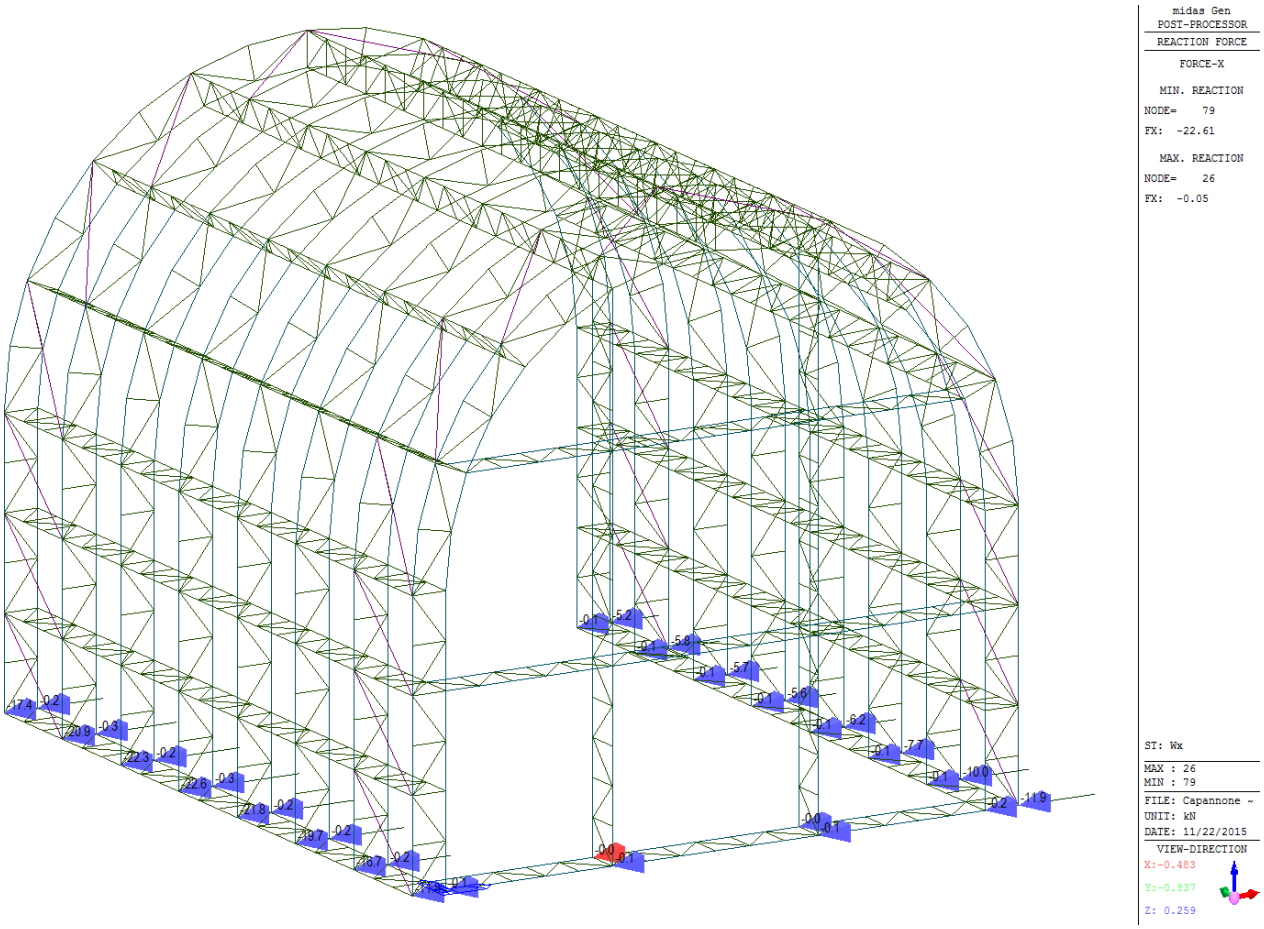

Figure 17 Base Shear due to Wind Load in +X

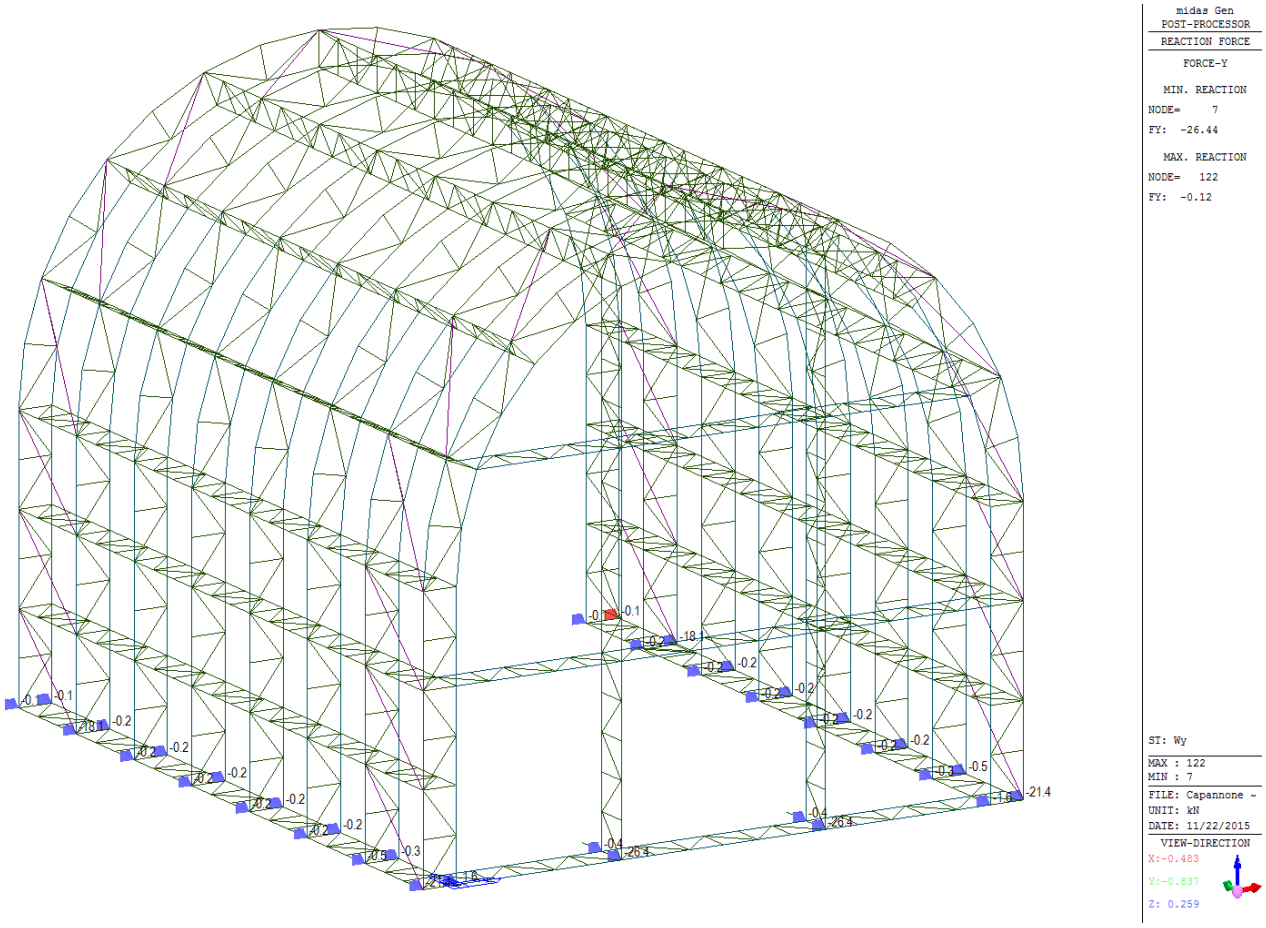

Figure 18 Base Shear due to Wind Load in +Y

8.2 Structural Check

8.2.1 SLS Check

The maximum displacement is on the top of the load bearing structure and it is equal to 43mm for wind in +X direction and 63mm for wind in +Y. Both displacement are less than H/150 = 113mm (recommended limit for single-storey industrial building), so the check is passed.

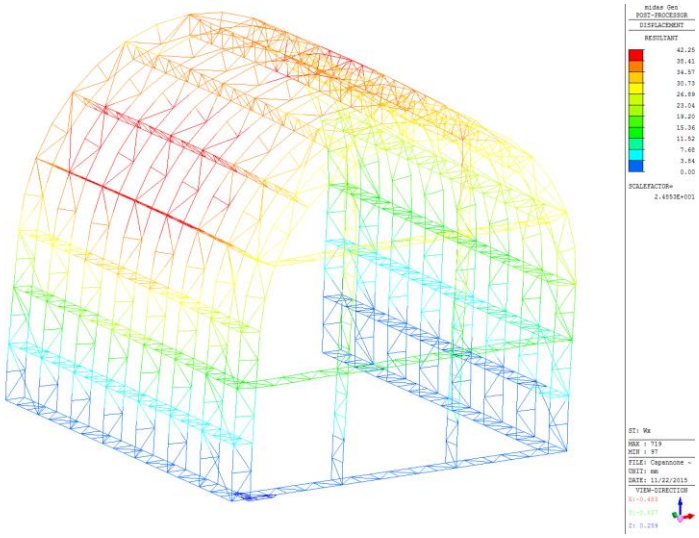

Figure 19 SLS Displacement due to wind load in +X

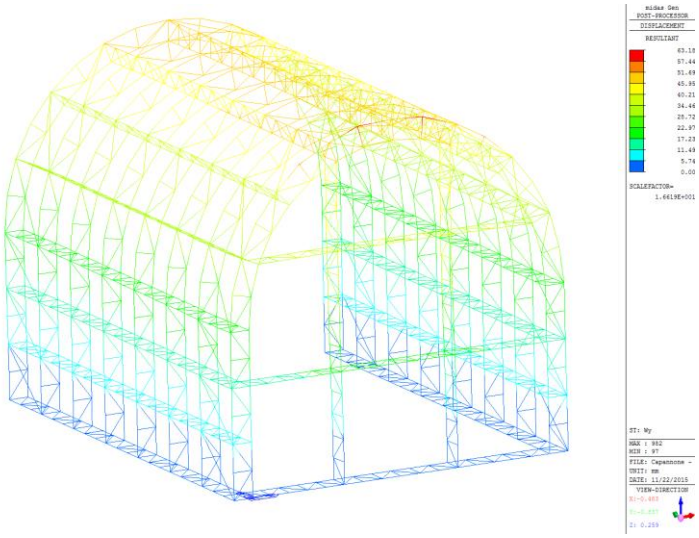

Figure 20 SLS Displacement due to wind load in +Y

8.2.2 ULS Check

8.2.2.1 Buckling Analysis (wind +X)

In order to use the correct buckling length of the different elements of the load bearing structure, different buckling analyis are performed.

The following pictures show the more significant buckling mode, considering a single bay of the structure subjected to SLU combination with wind in +X.

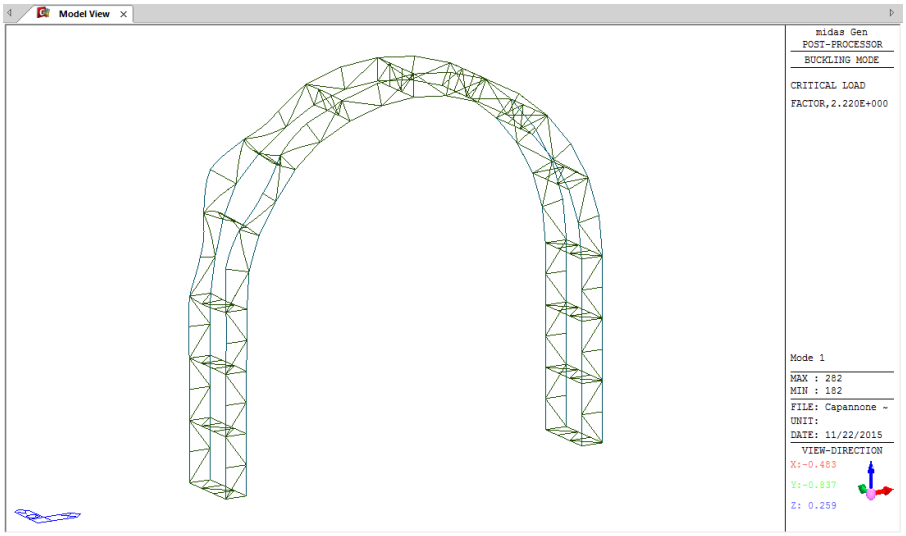

Figure 21 Buckling Mode n.1 – Critical Load Factor 2.22

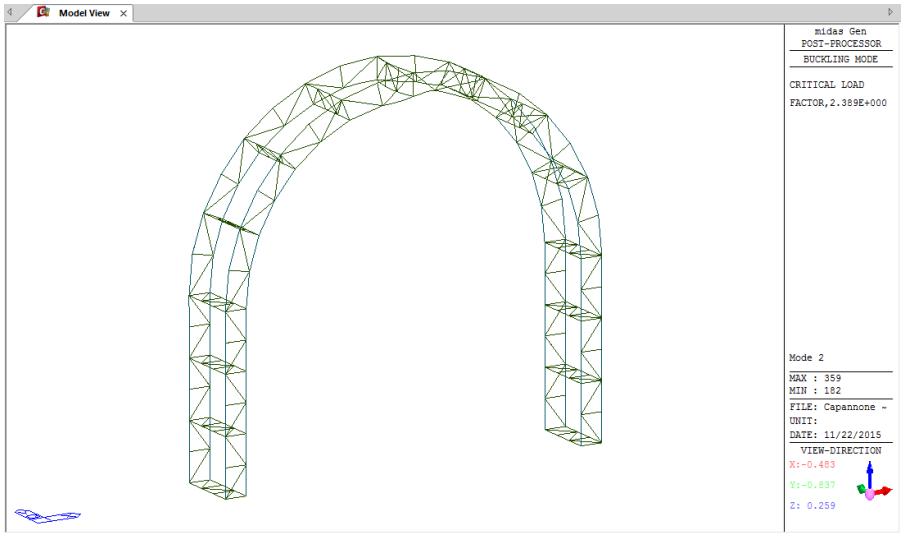

Figure 22 Buckling Mode n.2 – Critical Load Factor 2.39

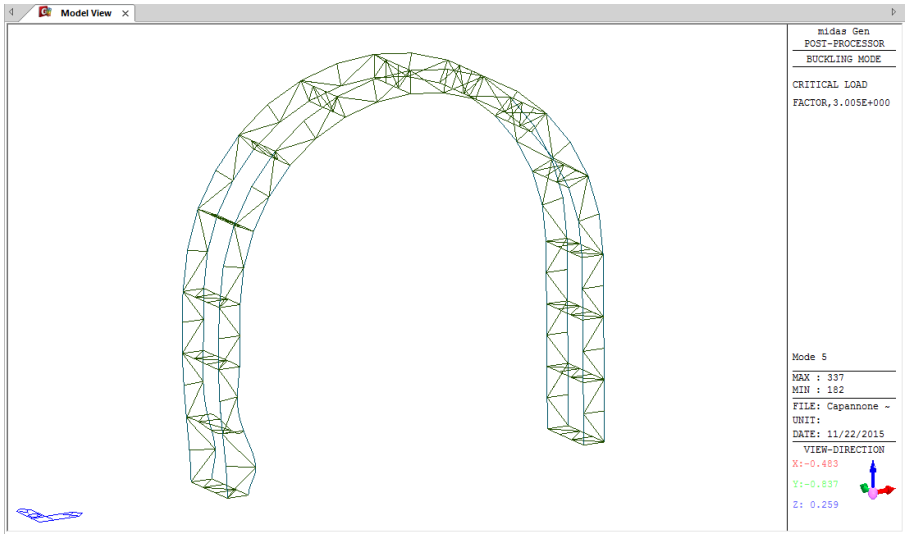

Figure 23 Buckling Mode n.5 – Critical Load Factor 3.00

The Buckling mode no.1 shows the buckling of the compressed section 60x60x3mm in the roof, so the connected critical load factor is used for the calculation of the buckling length of this elements.

The Buckling mode no.2 shows the buckling of the compressed section 40x40x2,5mm in the roof, so the connected critical load factor is used for the calculation of the buckling length of this elements.

The Buckling mode no.5 shows the buckling of the base compressed section 60x60x3mm in the lateral wall, so the connected critical load factor is used for the calculation of the buckling length of this elements.

8.2.2.2 Buckling Analysis (wind +Y)

The following pictures show the more significant buckling mode for SLU combination with wind in +Y.

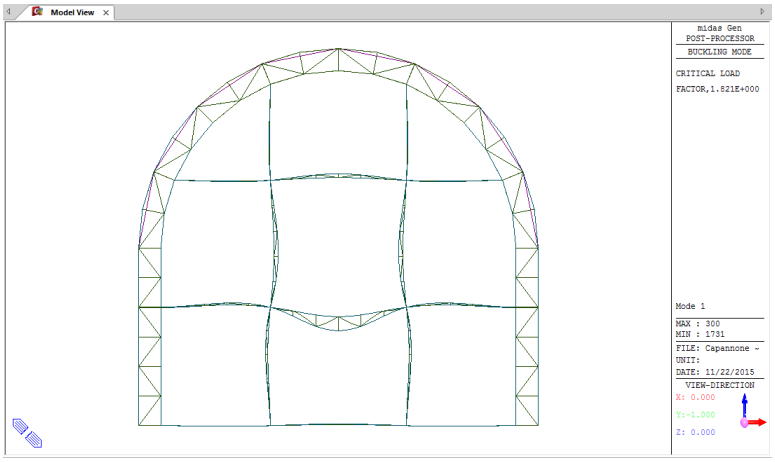

Figure 24 Buckling Mode n.1 (Y) – Critical Load Factor 1,82

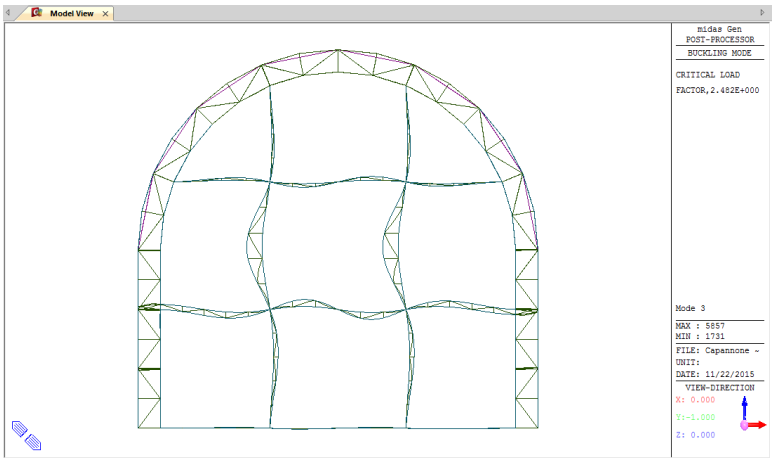

Figure 25 Buckling Mode n.1 (Y) – Critical Load Factor 2.48

The Buckling mode no.1 (Y) shows the buckling of the horizontal compressed section 60x60x3mm in the frontal frame, so the connected critical load factor is used for the calculation of the buckling length of this elements.

The Buckling mode no.3 (Y) shows the buckling of the vertical compressed section 60x60x3mm in the frontal frame, so the connected critical load factor is used for the calculation of the buckling length of this elements.

8.2.2.3 ULS Check (wind in +X)

The following picture shows the Axial Load in ULS combination with wind in +X.

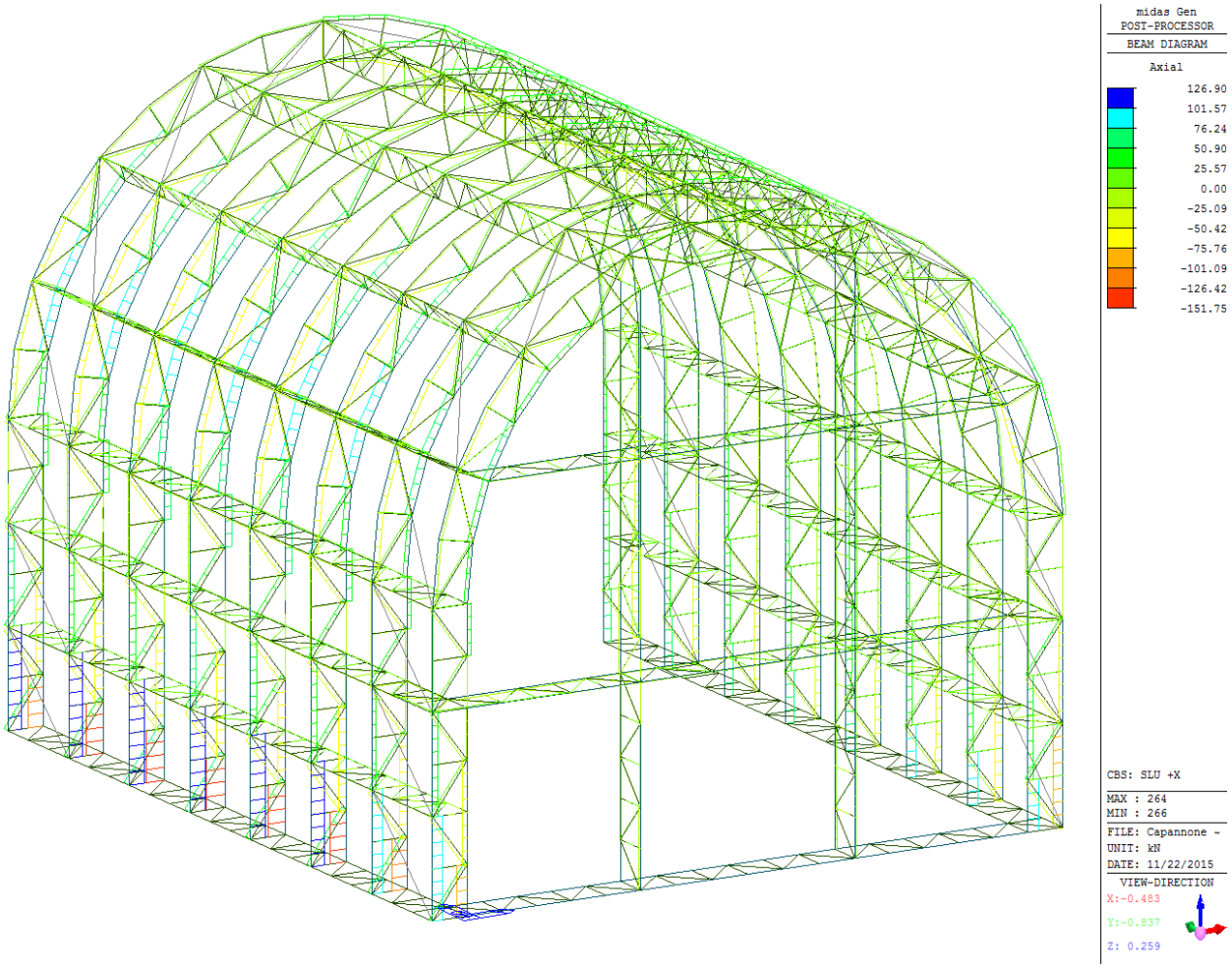

Figure 26 ULS (+X) Axial Load

Diagonal Roof Element – Axial Resistance Check

- Section Properties

Square Hollow Section			40x40x2,5	mm
Esternal Base	B_e	=	40	mm
Esternal Height	He	=	40	mm
Thickness	t	=	2,5	mm
Internal Base	B_i	=	35	mm
Internal Height	Hi	=	35	mm
Buckling Length	L_o	=	1940	mm
Area	A	=	375,00	mm^2
Inertial Moment	I	=	88.281	mm^4
Radius of gyration	r	=	15,3	mm
Slenderness	l	=	126,44	

- Material Properties

Characteristic Yielding Strenght	f_{yk}	=	345	MPa
Partial Safety Factor	g_{m0}	=	1,1	
Partial Safety Factor Buckling	g_{m1}	=	1,1	
Elastic Modulus	E	=	210000	MPa
Design Strength	f_{yd}	=	313,64	MPa

- Axial Tensile Resistance Calculation

Axial Tensile Resistance	N_{tRd}	=	117,61	kN
Stress connected to the axial resistance	s_{tRd}	=	313,64	MPa

- Buckling Resistance Calculation

Ratio d/t	d/t	=	14,00	
Coefficient e	ε	=	0,83	
Classification of cross section			Class 1	
Eulerian Critical Load	N_{cr}	=	48,62	kN
Non-dimensional Slenderness	λ	=	1,63	
Instability curve			a	
Imperfection Factor	a	=	0,21	
Coefficient f	f	=	1,981	
Reduction Factor	c	=	0,322	
Design Buckling Resistance	N_{bRd}	=	37,88	kN
Stress connected to the buckling resistance	s_{bRd}	=	101,03	MPa
Maximum Axial Load	N_{SLU}	=	-31,58	kN
Check Ratio	r	=	0,83	

Diagonal Wall Element Axial Resistance Check

- Section Properties

Square Hollow Section			40x40x2,5	mm
Esternal Base	B_e	=	40	mm
Esternal Height	He	=	40	mm
Thickness	t	=	2,5	mm
Internal Base	B_i	=	35	mm
Internal Height	Hi	=	35	mm
Buckling Length	L_o	=	1606	mm
Area	A	=	375,00	mm^2
Inertial Moment	I	=	88.281	mm^4
Radius of Gyration	r	=	15,3	mm
Slenderness	l	=	104,67	

- Material Properties

Characteristic Yielding Strenght	f_{yk}	=	345	MPa
Partial Safety Factor	g_{m0}	=	1,1	
Partial Safety Factor Buckling	g_{m1}	=	1,1	
Elastic Modulus	E	=	210000	MPa
Design Strength	f_{yd}	=	313,64	MPa

- Axial Tensile Resistance Calculation

Axial Tensile Resistance	N_{tRd}	=	117,61	kN
Stress connected to the axial resistance	s_{tRd}	=	313,64	MPa

- Buckling Resistance Calculation

Ratio d/t	d/t	=	14,00	
Coefficient e	ε	=	0,83	
Classification of cross section			Class 1	
Eulerian Critical Load	N_{cr}	=	70,94	kN
Non-dimensional Slenderness	λ	=	1,35	
Instability curve			a	
Imperfection Factor	a	=	0,21	
Coefficient f	f	=	1,533	
Reduction Factor	c	=	0,443	
Design Buckling Resistance	N_{bRd}	=	52,10	kN
Stress connected to the buckling resistance	s_{bRd}	=	138,94	MPa
Maximum Axial Load	N_{SLU}	=	-49,14	kN
Check Ratio	r	=	0,94	

Roof 60x60x3 - Axial Resistance Check

- Section Properties

Square Hollow Section			60x60x3	mm
Esternal Base	B_e	=	60	mm
Esternal Height	He	=	60	mm
Thickness	t	=	3	mm
Internal Base	B_i	=	54	mm
Internal Height	Hi	=	54	mm
Buckling Length	L_o	=	2386,4	mm
Area	A	=	684,00	mm^2
Inertial Moment	I	=	371.412	mm^4
Radius of gyration	r	=	23,3	mm
Slenderness	l	=	102,41	

- Material Properties

Characteristic Yielding Strenght	f_{yk}	=	345	MPa
Partial Safety Factor	g_{m0}	=	1,1	
Partial Safety Factor - Buckling	g_{m1}	=	1,1	
Elastic Modulus	E	=	210000	MPa
Design Strength	f_{yd}	=	313,64	MPa

- Axial Tensile Resistance Calculation

Axial Tensile Resistance	N_{tRd}	=	214,53	kN
Stress connected to the axial resistance	s_{tRd}	=	313,64	MPa

- Buckling Resistance Calculation

Ratio d/t	d/t	=	18,00	
Coefficient e	ε	=	0,83	
Classification of cross section			Class 1	
Eulerian Critical Load	N_{cr}	=	135,18	kN
Non-dimensional Slenderness	λ	=	1,32	
Instability curve			a	
Imperfection Factor	a	=	0,21	
Coefficient f	f	=	1,491	
Reduction Factor	c	=	0,459	
Design Buckling Resistance	N_{bRd}	=	98,38	kN
Stress connected to the buckling resistance	s_{bRd}	=	143,83	MPa
Maximum Axial Load	N_{SLU}	=	-60,89	kN
Check Ratio	r	=	0,62	

- Buckling Analysis

Critical Load Factor	b	=	2,22	
Axial Load	N	=	60,9	kN
Critical Load	bN	=	135,2	kN
Effective Buckling Length	L_o	=	2386,4	mm

Wall 60x60x3 - Axial Resistance Check

- Section Properties

Square Hollow Section			60x60x3	mm
Esternal Base	B_e	=	60	mm
Esternal Height	He	=	60	mm
Thickness	t	=	3	mm
Internal Base	B_i	=	54	mm
Internal Height	Hi	=	54	mm
Buckling Length	L_o	=	1300,4	mm
Area	A	=	684,00	mm^2
Inertial Moment	I	=	371.412	mm^4
Radius of gyration	r	=	23,3	mm
Slenderness	l	=	55,80	

- Material Properties

Characteristic Yielding Strenght	f_{yk}	=	345	MPa
Partial Safety Factor	g_{m0}	=	1,1	
Partial Safety Factor - Buckling	g_{m1}	=	1,1	
Elastic Modulus	E	=	210000	MPa
Design Strength	f_{yd}	=	313,64	MPa

- Axial Tensile Resistance Calculation

Axial Tensile Resistance	N_{tRd}	=	214,53	kN
Stress connected to the axial resistance	s_{tRd}	=	313,64	MPa

- Buckling Resistance Calculation

Ratio d/t	d/t	=	18,00	
Coefficient ε	ε	=	0,83	
Classification of cross Section			Class 1	
Eulerian Critical Load	N_{cr}	=	455,25	kN
Non-dimensional Slenderness	λ	=	0,72	
Instability curve			a	
Imperfection Factor	a	=	0,21	
Coefficient f	f	=	0,814	
Reduction Factor	c	=	0,838	
Design Buckling Resistance	N_{bRd}	=	179,81	kN
Stress connected to the buckling resistance	s_{bRd}	=	262,88	MPa
Maximum Axial Load	N_{SLU}	=	-151,75	kN
Check Ratio	r	=	0,84	

- Buckling Analysis

Critical Load Factor	β	=	3,00	
Axial Load	N	=	151,8	kN
Critical Load	βN	=	455,3	kN
Effective Buckling Length	L_o	=	1300,4	mm

Roof 40x40x2,5 Axial Resistance Check

- **Section Properties**

Square Hollow Section			40x40x2,5	mm
Esternal Base	B_e	=	40	mm
Esternal Height	He	=	40	mm
Thickness	t	=	2,5	mm
Internal Base	B_i	=	35	mm
Internal Height	Hi	=	35	mm
Buckling Length	L_o	=	1509,8	mm
Area	A	=	375,00	mm^2
Inertial Moment	I	=	88.281	mm^4
Radius of gyration	r	=	15,3	mm
Slenderness	l	=	98,40	

- **Material Properties**

Characteristic Yielding Strenght	f_{yk}	=	345	MPa
Partial Safety Factor	g_{m0}	=	1,1	
Partial Safety Factor Buckling	g_{m1}	=	1,1	
Elastic Modulus	E	=	210000	MPa
Design Strength	f_{yd}	=	313,64	MPa

- **Axial Tensile Resistance Calculation**

Axial Tensile Resistance	N_{tRd}	=	117,61	kN
Stress connected to the axial resistance	s_{tRd}	=	313,64	MPa

- **Buckling Resistance Calculation**

Ratio d/t	d/t	=	14,00	
Coefficient e	ε	=	0,83	
Classification of cross section			Class 1	
Eulerian Critical Load	N_{cr}	=	80,27	kN
Non-dimensional Slenderness	λ	=	1,27	
Instability curve			a	
Imperfection Factor	a	=	0,21	
Coefficient f	f	=	1,418	
Reduction Factor	c	=	0,488	
Design Buckling Resistance	N_{bRd}	=	57,37	kN
Stress connected to the buckling resistance	s_{bRd}	=	152,98	MPa
Maximum Axial Load	N_{SLU}	=	-33,6	kN
Check Ratio	r	=	0,59	

- **Buckling Analysis**

Critical Load Factor	β	=	2,39	
Axial Load	N	=	33,6	kN
Critical Load	βN	=	80,3	kN
Effective Buckling Length	L_o	=	1509,8	mm

8.2.2.4 ULS Check (wind in +Y)

The following picture shows the Axial Load in ULS combination with wind in +Y.

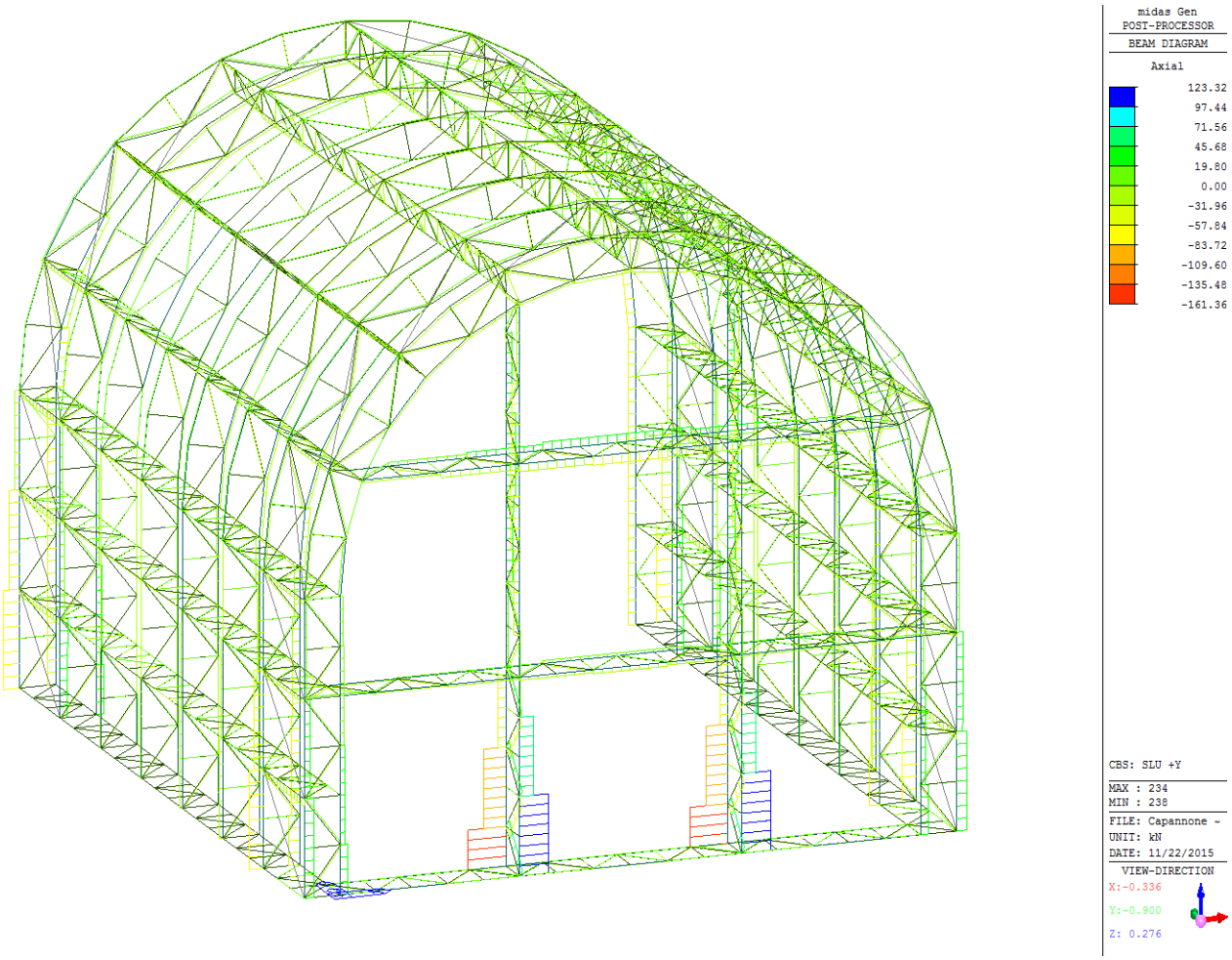

Figure 27 ULS (+Y) Axial Load

Horizontal 60x60x3 Axial Resistance Check

- Section Properties

Square Hollow Section			60x60x3	mm
Esternal Base	B_e	=	60	mm
Esternal Height	He	=	60	mm
Thickness	t	=	3	mm
Internal Base	B_i	=	54	mm
Internal Height	Hi	=	54	mm
Buckling Length	L_o	=	1.618,6	mm
Area	A	=	684,00	mm^2
Inertial Moment	I	=	371.412	mm^4
Radius of gyration	r	=	23,3	mm
Slenderness	l	=	69,46	

- Material Properties

Characteristic Yielding Strenght	f_{yk}	=	345	MPa
Partial Safety Factor	g_{m0}	=	1,1	
Partial Safety Factor Buckling	g_{m1}	=	1,1	
Elastic Modulus	E	=	210000	MPa
Design Strength	f_{yd}	=	313,64	MPa

- Axial Tensile Resistance Calculation

Axial Tensile Resistance	N_{tRd}	=	214,53	kN
Stress connected to the axial resistance	s_{tRd}	=	313,64	MPa

- Buckling Resistance Calculation

Ratio d/t	d/t	=	18,00	
Coefficient ε	ε	=	0,83	
Classification of cross Section			Class 1	
Eulerian Critical Load	N_{cr}	=	293,83	kN
Non-dimensional Slenderness	λ	=	0,90	
Instability curve			a	
Imperfection Factor	a	=	0,21	
Coefficient f	f	=	0,975	
Reduction Factor	c	=	0,736	
Design Buckling Resistance	N_{bRd}	=	157,99	kN
Stress connected to the buckling resistance	s_{bRd}	=	230,98	MPa
Maximum Axial Load	N_{SLU}	=	-36,45	kN
Check Ratio	r	=	0,23	

- Buckling Analysis

Critical Load Factor	β	=	1,82	
Axial Load	N	=	36,5	kN
Critical Load	βN	=	293,8	kN
Effective Buckling Length	L_o	=	1618,6	mm

Vertical 60x60x3 Axial Resistance Check

- Section Properties

Square Hollow Section			60x60x3	mm
Esternal Base	B_e	=	60	mm
Esternal Height	He	=	60	mm
Thickness	t	=	3	mm
Internal Base	B_i	=	54	mm
Internal Height	Hi	=	54	mm
Buckling Length	L_o	=	1295,6	mm
Area	A	=	684,00	mm^2
Inertial Moment	I	=	371.412	mm^4
Radius of gyration	r	=	23,3	mm
Slenderness	l	=	55,60	

- Material Properties

Characteristic Yielding Strenght	f_{yk}	=	345	MPa
Partial Safety Factor	g_{m0}	=	1,1	
Partial Safety Factor Buckling	g_{m1}	=	1,1	
Elastic Modulus	E	=	210000	MPa
Design Strength	f_{yd}	=	313,64	MPa

- Axial Tensile Resistance Calculation

Axial Tensile Resistance	N_{tRd}	=	214,53	kN
Stress connected to the axial resistance	s_{tRd}	=	313,64	MPa

- Buckling Resistance Calculation

Ratio d/t	d/t	=	18,00	
Coefficient ε	ε	=	0,83	
Classification of cross Section			Class 1	
Eulerian Critical Load	N_{cr}	=	458,59	kN
Non-dimensional Slenderness	λ	=	0,72	
Instability curve			a	
Imperfection Factor	a	=	0,21	
Coefficient f	f	=	0,812	
Reduction Factor	c	=	0,839	
Design Buckling Resistance	N_{bRd}	=	180,08	kN
Stress connected to the buckling resistance	s_{bRd}	=	263,28	MPa
Maximum Axial Load	N_{SLU}	=	-161,36	kN
Check Ratio	r	=	0,90	

- Buckling Analysis

Critical Load Factor	β	=	2,84	
Axial Load	N	=	161,4	kN
Critical Load	βN	=	458,6	kN
Effective Buckling Length	L_o	=	1295,6	mm

Frontal 40x40x2,5 Element Axial Resistance Check

- Section Properties

Square Hollow Section			40x40x2,5	mm
Esternal Base	B_e	=	40	mm
Esternal Height	He	=	40	mm
Thickness	t	=	2,5	mm
Internal Base	B_i	=	35	mm
Internal Height	Hi	=	35	mm
Buckling Length	L_o	=	1462	mm
Area	A	=	375,00	mm^2
Inertial Moment	I	=	88.281	mm^4
Radius of Gyration	r	=	15,3	mm
Slenderness	l	=	95,29	

- Material Properties

Characteristic Yielding Strenght	f_{yk}	=	345	MPa
Partial Safety Factor	g_{m0}	=	1,1	
Partial Safety Factor Buckling	g_{m1}	=	1,1	
Elastic Modulus	E	=	210000	MPa
Design Strength	f_{yd}	=	313,64	MPa

- Axial Tensile Resistance Calculation

Axial Tensile Resistance	N_{tRd}	=	117,61	kN
Stress connected to the axial resistance	s_{tRd}	=	313,64	MPa

- Buckling Resistance Calculation

Ratio d/t	d/t	=	14,00	
Coefficient e	ε	=	0,83	
Classification of cross section			Class 1	
Eulerian Critical Load	N_{cr}	=	85,60	kN
Non-dimensional Slenderness	λ	=	1,23	
Instability curve			a	
Imperfection Factor	a	=	0,21	
Coefficient f	f	=	1,364	
Reduction Factor	c	=	0,512	
Design Buckling Resistance	N_{bRd}	=	60,19	kN
Stress connected to the buckling resistance	s_{bRd}	=	160,50	MPa
Maximum Axial Load	N_{SLU}	=	-45,64	kN
Check Ratio	r	=	0,76	

8.2.2.5 Tension element Check

The maximum value of the tensile force in the cables is equal to 40 kN (with wind in +Y direction) and it is shown in the following picture.

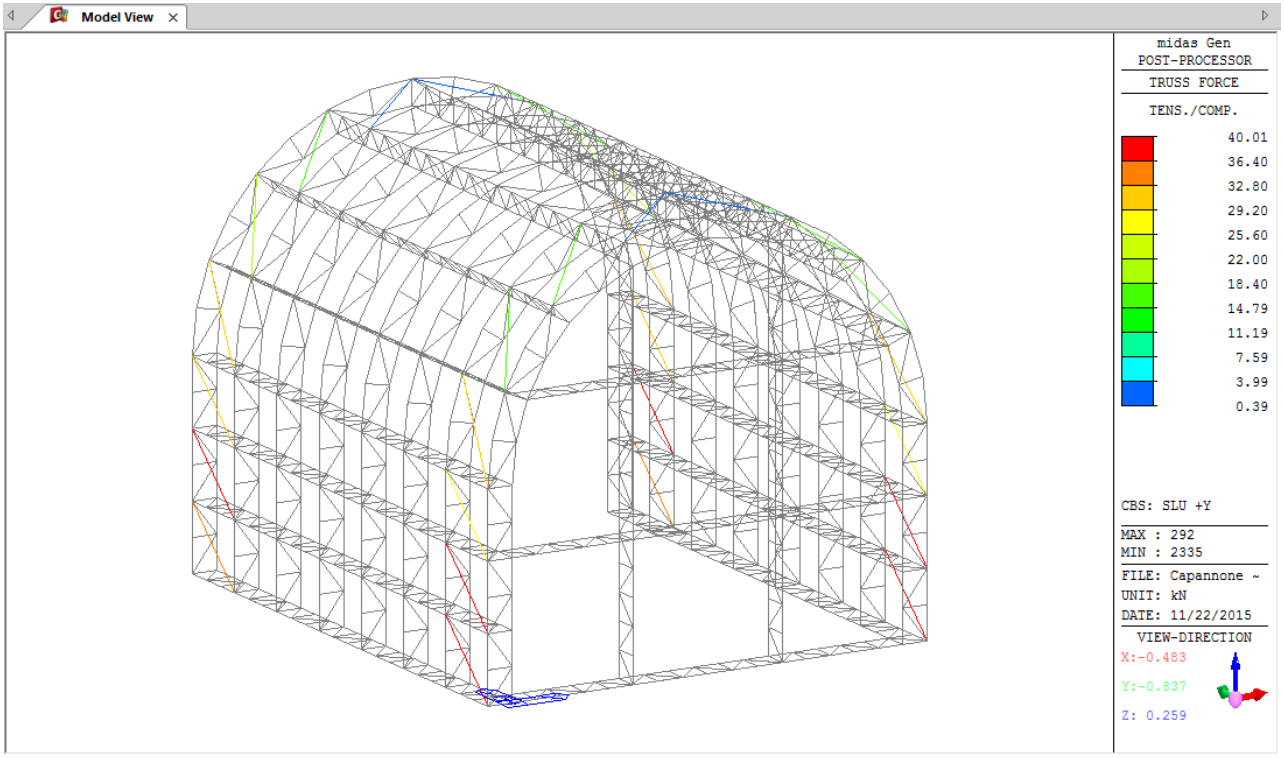

Figure 28 Maximum Tensile load on cables

The following is the check of the ropes according to §9.1.1 of EN 13782:2005:

$$F_{Ed} = 40\ kN \quad £ \quad R_d = \frac{R_{min}}{g_M} = \frac{119}{2} = 59{,}5\ kN \qquad PASSED$$

where R_{min} is the minimum breaking load certified by the manufacturer, and $g_M = 2{,}0$.

8.2.3 Overturning, Sliding and Lifting Check

Since the load bearing structure is fixed at the ground through steel base plate connections overturning, sliding and lifting can not occur. Furthermore since the anchor bolts are designed with SLU actions ($\gamma_F = 1{,}5$ for wind actions), they are automatically checked for safety factor equal to 1,2.

8.3 Design of Joints

The typical connection is composed of 3M16 Class 5.8 as described in the following pictures.

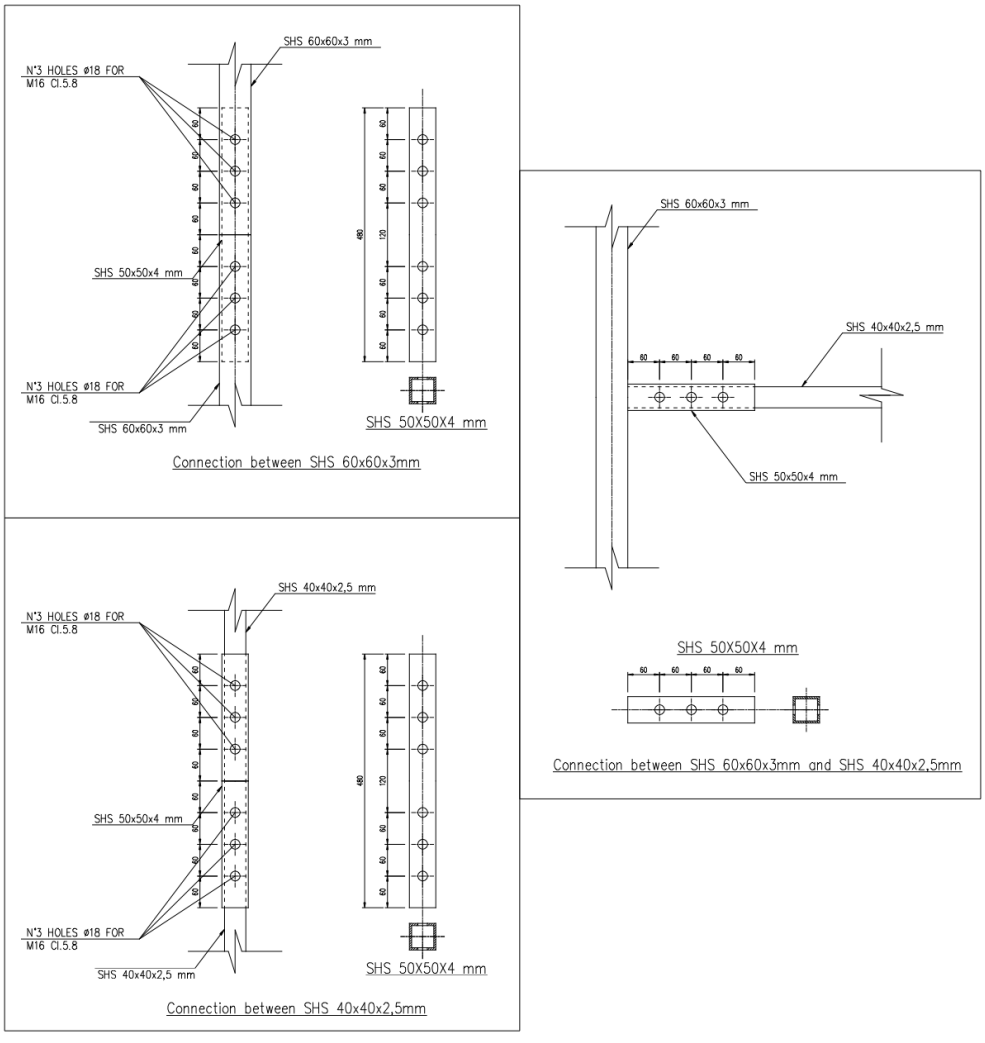

Figure 29 Typical Connections

The connection is designed to resist to the maximum axial load that occur in ULS combinations, equal to 161,36 kN. Considering two shear sections and 3 bolts, the shear force on the single bolt is equal to 26,9 kN. The following picture shows the shear check and the bearing check of the connections according to EC3.

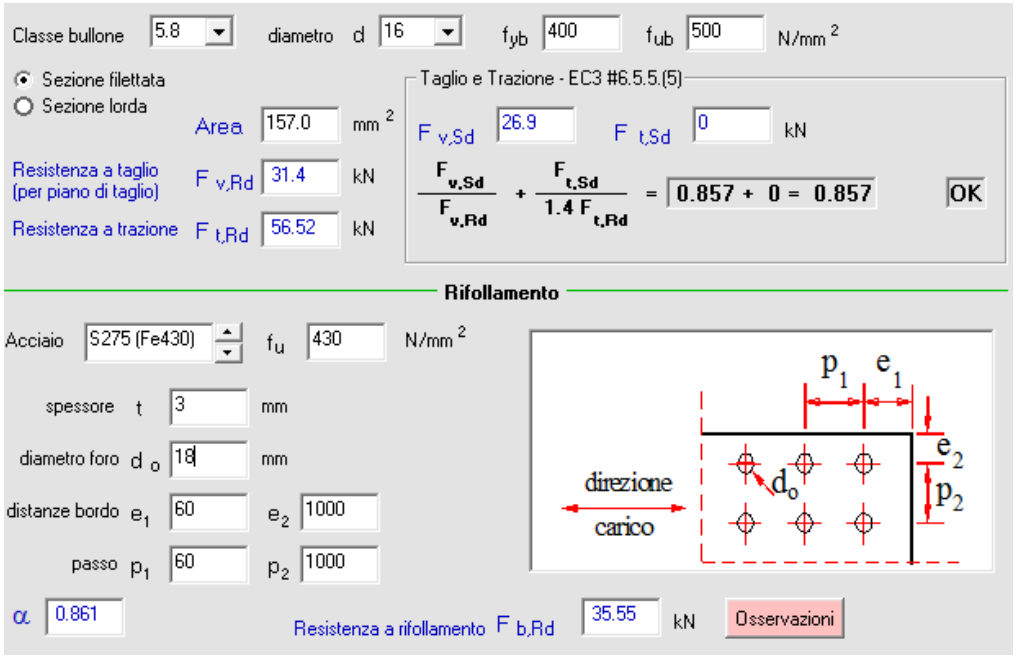

Figure 30 Bolts Check

8.4 Ground anchorages

The ground anchorage is done through steel base plate, connected to concrete foundations with anchor bolts. The following picture show the geometry of the base plate connection.

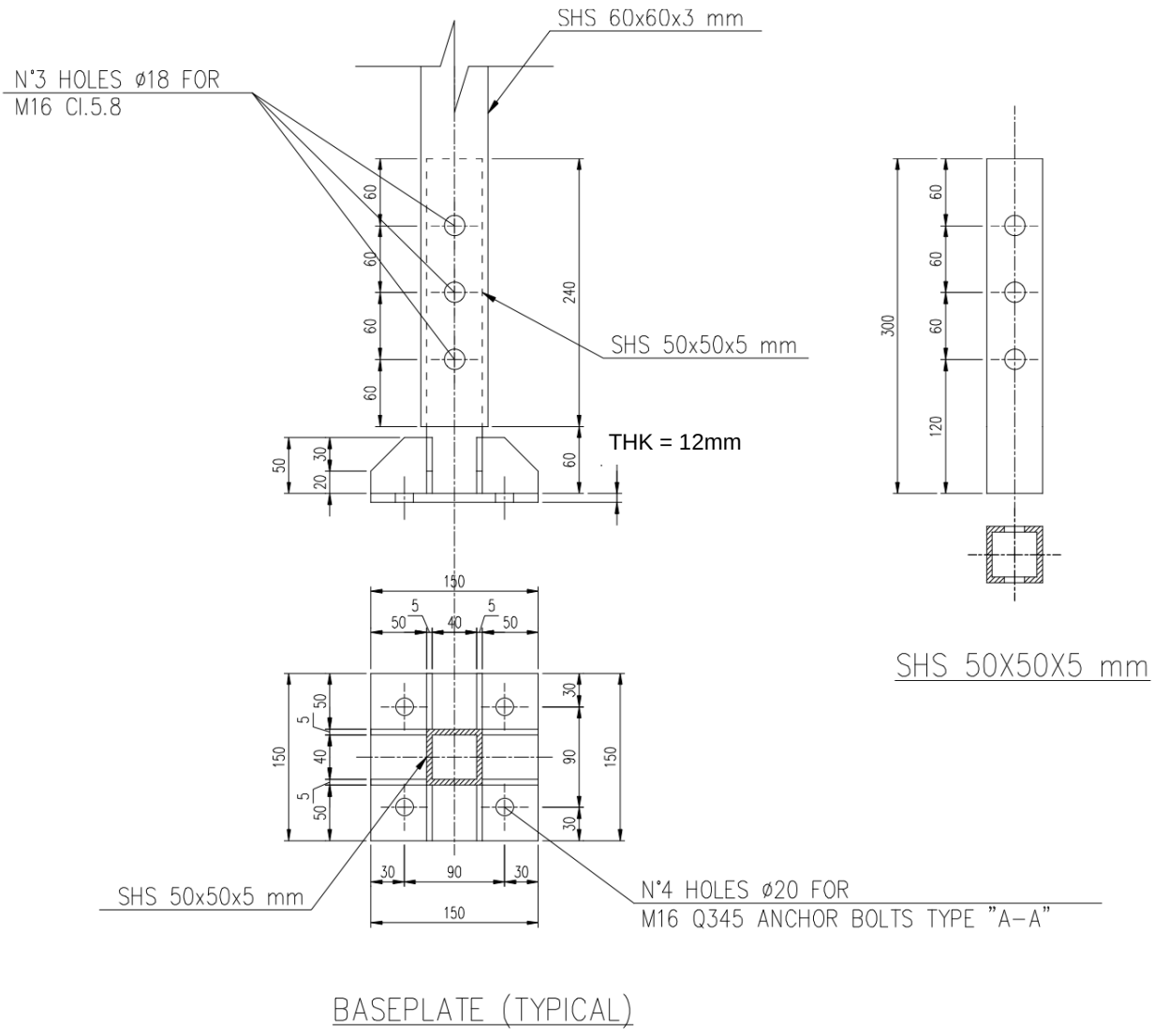

Figure 31 Base Plate connection

YACHT GARAGE	TEMPORARY STRUCTURE PERTH AUSTRALIA Ref. Doc. N.	Job:	
		Rev.:	0

BASE PLATE CONNECTION CHECK

1. Material

1.1 Concrete

Design concrete compressive strength (considering concrete C25/30)	f_{cd} =	16,67	Mpa
Concentrated design resistance*	F_{Rdu} =	50,00	Mpa
*Height of foundation must be greater than 3 times the diameter of the circumscribed circle to Leg Section			
Efficency coefficient for the grout	b_j =	2/3	
Design bearing strength	f_{jd} =	33,33	Mpa

1.2 Steel Base Plate

Q345

Characteristic Steel Yield Strength	f_{yk} =	345	Mpa
Partial safety factor	$g_{M,0}$ =	1,1	
Design steel yield strength	f_{yd} =	313,6	Mpa

1.3 Anchor Bolts

Q345

Characteristic Steel Yield Strength	f_{tk} =	345	Mpa
Characteristic Steel Ultimate Strength	f_{uk} =	500	Mpa
Partial safety factor	$g_{M,2}$ =	1,25	
Anchor Bolts Diameter	D =	16	mm
Anchor Bolts Number	n =	4	
Bolt Spacing (6D)	s =	90	mm
Tensile Strength Single Bolt	$F_{t,Rd}$ =	56,52	kN
Shear Strength Single Bolt	$F_{v,Rd}$ =	37,68	kN

2. Geometry

2.1 Plate

Plate Height	H =	150	mm
Plate Base	B =	150	mm
Plate Thickness	t =	12	mm
Involved Base Plate Length from Gusset	c =	21,8	mm

2.2 Gusset

Gusset Number	n_c =	8	
Gusset Thickness	t_c =	5	mm
Estrenal Gusset Length	l_c =	50	mm
Gusset Height	h_c =	50	mm
Effective Area in Compression	A_{eff} =	6700	mm

Date: 22/11/15	Prepared: F.C.	Checked: D.B.	Sheet: 1/2

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		Rev.:	0

BASE PLATE CONNECTION CHECK

3. Check of the baseplate

3.1 Compression Check of the Base Plate

Maximum Axial Load in compression	$N_{c,Ed}$ =	162,0	kN
Resistance Force in Compression	$N_{c,Rd}$ =	223,3	kN
Ratio	r =	0,73	

3.2 Tension Check of the Anchor Bolts

Maximum Axial Load in Tension	$N_{t,Ed}$ =	168,30	kN
Resistance Force in Tension	$N_{t,Rd}$ =	226,08	kN
Ratio	r =	0,74	

3.3 Shear Check of the Anchor Bolts

Maximum Shear Force	T_{Ed} =	39,83	kN
Design Shear Resistance Force	T_{Rd} =	150,72	kN
Ratio	r =	0,26	

3.4 Check of the Baseplate

Force on each Anchor Bolt	T =	42,08	kN
Maximum distance between Bolts and Gussets	d_c =	25	mm
Gusset Length	b_c =	50	mm
Teorical Length involved (45° diffusion)	b_{c_teo} =	50	mm
Base Plate Length involved in Bending	b_{c_eff} =	50	mm
Design Resistance Moment of the base plate at the gusset's edge	M_{Plc} =	0,56	kNm
Bending Moment at the gusset's edge	M_{Edc} =	0,53	kNm
Ratio	r =	0,93	

3.5 Check of the Gussets

Maximum Shear Force on Gusset	T_{edi} =	21,04	kN
Distance between Gusset and Fixed Point	l_f =	20	mm
Maximum Bendig Moment	M_{edi} =	0,42	kNm
Cross Section of the gusset	A =	250	mm^2

Shear Check

Design Shear Resistance Force	T_{Rd} =	45,27	kN
Ratio	r =	0,46	

CHECKED, NO BENDING STRENGTH REDUCTION

Bending Check

Design Resistance Moment	M_{Rdi} =	0,72	kNm
Ratio	r =	0,59	

Date: 22/11/15	Prepared: F.C.	Checked: D.B.	Sheet: 1/2

9 Calculation Report

< Control Data >

*** CONTROL DATA

Panel Zone Effect : Do not Calculate
Unit System : KN, MM
Definition of Frame
- X Direction of Frame : Unbraced I Sway
- Y Direction of Frame : Unbraced I Sway
- Design Type : 3-D

Design Code
- Steel : Eurocode3:05
- Concrete : Eurocode2:04
- SRC : SSRC79

< Static Loadcase >

*** LOAD CASE DATA

NO	NAME	TYPE	SELF WEIGHT FACTOR X	Y	Z	DESCRIPTION
3	G1k	D	0.000	0.000	-1.000	
6	Wy	W	0.000	0.000	0.000	
7	G2k Non Structural	D	0.000	0.000	0.000	
8	Wx	W	0.000	0.000	0.000	

< Node >

*** NODE DATA

NO	X	Y	Z	TEMPERATURE
1	-1000	0	0	0
2	0	0	0	0
3	987.7	0	0	0
4	1975	0	0	0
5	2963	0	0	0
6	3951	0	0	0
7	4939	0	0	0

8	5959	0	0	0
9	6980	0	0	0
10	8000	0	0	0
11	9020	0	0	0
12	1.004e+004	0	0	0
13	1.106e+004	0	0	0
14	1.205e+004	0	0	0
15	1.304e+004	0	0	0
16	1.402e+004	0	0	0
17	1.501e+004	0	0	0
18	1.6e+004	0	0	0
19	1.7e+004	0	0	0
20	-1000	1000	0	0
21	0	1000	0	0
22	987.7	1000	0	0
23	1975	1000	0	0
24	2963	1000	0	0
25	3951	1000	0	0
26	4939	1000	0	0
27	5959	1000	0	0
28	6980	1000	0	0
29	8000	1000	0	0
30	9020	1000	0	0
31	1.004e+004	1000	0	0
32	1.106e+004	1000	0	0
33	1.205e+004	1000	0	0
34	1.304e+004	1000	0	0
35	1.402e+004	1000	0	0
36	1.501e+004	1000	0	0
37	1.6e+004	1000	0	0
38	1.7e+004	1000	0	0
39	-1000	2000	0	0
40	0	2000	0	0
41	1.6e+004	2000	0	0
42	1.7e+004	2000	0	0
43	-1000	3000	0	0
44	0	3000	0	0
45	1.6e+004	3000	0	0
46	1.7e+004	3000	0	0
47	-1000	4000	0	0
48	0	4000	0	0
49	1.6e+004	4000	0	0
50	1.7e+004	4000	0	0
51	-1000	5000	0	0
52	0	5000	0	0

53	1.6e+004	5000	0	0
54	1.7e+004	5000	0	0
55	-1000	6000	0	0
56	0	6000	0	0
57	1.6e+004	6000	0	0
58	1.7e+004	6000	0	0
59	-1000	7000	0	0
60	0	7000	0	0
61	1.6e+004	7000	0	0
62	1.7e+004	7000	0	0
63	-1000	8000	0	0
64	0	8000	0	0
65	1.6e+004	8000	0	0
66	1.7e+004	8000	0	0
67	-1000	9000	0	0
68	0	9000	0	0
69	1.6e+004	9000	0	0
70	1.7e+004	9000	0	0
71	-1000	1e+004	0	0
72	0	1e+004	0	0
73	1.6e+004	1e+004	0	0
74	1.7e+004	1e+004	0	0
75	-1000	1.1e+004	0	0
76	0	1.1e+004	0	0
77	1.6e+004	1.1e+004	0	0
78	1.7e+004	1.1e+004	0	0
79	-1000	1.2e+004	0	0
80	0	1.2e+004	0	0
81	1.6e+004	1.2e+004	0	0
82	1.7e+004	1.2e+004	0	0
83	-1000	1.3e+004	0	0
84	0	1.3e+004	0	0
85	1.6e+004	1.3e+004	0	0
86	1.7e+004	1.3e+004	0	0
87	-1000	1.4e+004	0	0
88	0	1.4e+004	0	0
89	1.6e+004	1.4e+004	0	0
90	1.7e+004	1.4e+004	0	0
91	-1000	1.5e+004	0	0
92	0	1.5e+004	0	0
93	1.6e+004	1.5e+004	0	0
94	1.7e+004	1.5e+004	0	0
95	-1000	1.6e+004	0	0
96	0	1.6e+004	0	0
97	1.6e+004	1.6e+004	0	0

98	1.7e+004	1.6e+004	0	0
99	-1000	1.7e+004	0	0
100	0	1.7e+004	0	0
101	1.6e+004	1.7e+004	0	0
102	1.7e+004	1.7e+004	0	0
103	-1000	1.8e+004	0	0
104	0	1.8e+004	0	0
105	1.6e+004	1.8e+004	0	0
106	1.7e+004	1.8e+004	0	0
107	-1000	1.9e+004	0	0
108	0	1.9e+004	0	0
109	1.6e+004	1.9e+004	0	0
110	1.7e+004	1.9e+004	0	0
111	-1000	2e+004	0	0
112	0	2e+004	0	0
113	1.6e+004	2e+004	0	0
114	1.7e+004	2e+004	0	0
115	-1000	2.1e+004	0	0
116	-1000	2.1e+004	0	0
117	0	2.1e+004	0	0
118	0	2.1e+004	0	0
119	1.6e+004	2.1e+004	0	0
120	1.6e+004	2.1e+004	0	0
121	1.7e+004	2.1e+004	0	0
122	1.7e+004	2.1e+004	0	0
123	4939	0	1067	0
124	1.106e+004	0	1067	0
125	4939	1000	1067	0
126	1.106e+004	1000	1067	0
127	-1000	0	1333	0
128	0	0	1333	0
129	1.6e+004	0	1333	0
130	1.7e+004	0	1333	0
131	-1000	3000	1333	0
132	0	3000	1333	0
133	1.6e+004	3000	1333	0
134	1.7e+004	3000	1333	0
135	-1000	6000	1333	0
136	0	6000	1333	0
137	1.6e+004	6000	1333	0
138	1.7e+004	6000	1333	0
139	-1000	9000	1333	0
140	0	9000	1333	0
141	1.6e+004	9000	1333	0
142	1.7e+004	9000	1333	0

143	-1000	1.2e+004	1333	0
144	0	1.2e+004	1333	0
145	1.6e+004	1.2e+004	1333	0
146	1.7e+004	1.2e+004	1333	0
147	-1000	1.5e+004	1333	0
148	0	1.5e+004	1333	0
149	1.6e+004	1.5e+004	1333	0
150	1.7e+004	1.5e+004	1333	0
151	-1000	1.8e+004	1333	0
152	0	1.8e+004	1333	0
153	1.6e+004	1.8e+004	1333	0
154	1.7e+004	1.8e+004	1333	0
155	-1000	2.1e+004	1333	0
156	0	2.1e+004	1333	0
157	1.6e+004	2.1e+004	1333	0
158	1.7e+004	2.1e+004	1333	0
159	4939	0	2133	0
160	1.106e+004	0	2133	0
161	4939	1000	2133	0
162	1.106e+004	1000	2133	0
163	-1000	0	2667	0
164	0	0	2667	0
165	1.6e+004	0	2667	0
166	1.7e+004	0	2667	0
167	-1000	1000	2667	0
168	0	1000	2667	0
169	1.6e+004	1000	2667	0
170	1.7e+004	1000	2667	0
171	-1000	2000	2667	0
172	0	2000	2667	0
173	1.6e+004	2000	2667	0
174	1.7e+004	2000	2667	0
175	-1000	3000	2667	0
176	0	3000	2667	0
177	1.6e+004	3000	2667	0
178	1.7e+004	3000	2667	0
179	-1000	4000	2667	0
180	0	4000	2667	0
181	1.6e+004	4000	2667	0
182	1.7e+004	4000	2667	0
183	-1000	5000	2667	0
184	0	5000	2667	0
185	1.6e+004	5000	2667	0
186	1.7e+004	5000	2667	0
187	-1000	6000	2667	0

188	0	6000	2667	0
189	1.6e+004	6000	2667	0
190	1.7e+004	6000	2667	0
191	-1000	7000	2667	0
192	0	7000	2667	0
193	1.6e+004	7000	2667	0
194	1.7e+004	7000	2667	0
195	-1000	8000	2667	0
196	0	8000	2667	0
197	1.6e+004	8000	2667	0
198	1.7e+004	8000	2667	0
199	-1000	9000	2667	0
200	0	9000	2667	0
201	1.6e+004	9000	2667	0
202	1.7e+004	9000	2667	0
203	-1000	1e+004	2667	0
204	0	1e+004	2667	0
205	1.6e+004	1e+004	2667	0
206	1.7e+004	1e+004	2667	0
207	-1000	1.1e+004	2667	0
208	0	1.1e+004	2667	0
209	1.6e+004	1.1e+004	2667	0
210	1.7e+004	1.1e+004	2667	0
211	-1000	1.2e+004	2667	0
212	0	1.2e+004	2667	0
213	1.6e+004	1.2e+004	2667	0
214	1.7e+004	1.2e+004	2667	0
215	-1000	1.3e+004	2667	0
216	0	1.3e+004	2667	0
217	1.6e+004	1.3e+004	2667	0
218	1.7e+004	1.3e+004	2667	0
219	-1000	1.4e+004	2667	0
220	0	1.4e+004	2667	0
221	1.6e+004	1.4e+004	2667	0
222	1.7e+004	1.4e+004	2667	0
223	-1000	1.5e+004	2667	0
224	0	1.5e+004	2667	0
225	1.6e+004	1.5e+004	2667	0
226	1.7e+004	1.5e+004	2667	0
227	-1000	1.6e+004	2667	0
228	0	1.6e+004	2667	0
229	1.6e+004	1.6e+004	2667	0
230	1.7e+004	1.6e+004	2667	0
231	-1000	1.7e+004	2667	0
232	0	1.7e+004	2667	0

233	1.6e+004	1.7e+004	2667	0
234	1.7e+004	1.7e+004	2667	0
235	-1000	1.8e+004	2667	0
236	0	1.8e+004	2667	0
237	1.6e+004	1.8e+004	2667	0
238	1.7e+004	1.8e+004	2667	0
239	-1000	1.9e+004	2667	0
240	0	1.9e+004	2667	0
241	1.6e+004	1.9e+004	2667	0
242	1.7e+004	1.9e+004	2667	0
243	-1000	2e+004	2667	0
244	0	2e+004	2667	0
245	1.6e+004	2e+004	2667	0
246	1.7e+004	2e+004	2667	0
247	-1000	2.1e+004	2667	0
248	0	2.1e+004	2667	0
249	1.6e+004	2.1e+004	2667	0
250	1.7e+004	2.1e+004	2667	0
251	4939	0	3200	0
252	1.106e+004	0	3200	0
253	4939	1000	3200	0
254	1.106e+004	1000	3200	0
255	-1000	0	4000	0
256	0	0	4000	0
257	1.6e+004	0	4000	0
258	1.7e+004	0	4000	0
259	-1000	3000	4000	0
260	0	3000	4000	0
261	1.6e+004	3000	4000	0
262	1.7e+004	3000	4000	0
263	-1000	6000	4000	0
264	0	6000	4000	0
265	1.6e+004	6000	4000	0
266	1.7e+004	6000	4000	0
267	-1000	9000	4000	0
268	0	9000	4000	0
269	1.6e+004	9000	4000	0
270	1.7e+004	9000	4000	0
271	-1000	1.2e+004	4000	0
272	0	1.2e+004	4000	0
273	1.6e+004	1.2e+004	4000	0
274	1.7e+004	1.2e+004	4000	0
275	-1000	1.5e+004	4000	0
276	0	1.5e+004	4000	0
277	1.6e+004	1.5e+004	4000	0

278	1.7e+004	1.5e+004	4000	0
279	-1000	1.8e+004	4000	0
280	0	1.8e+004	4000	0
281	1.6e+004	1.8e+004	4000	0
282	1.7e+004	1.8e+004	4000	0
283	-1000	2.1e+004	4000	0
284	0	2.1e+004	4000	0
285	1.6e+004	2.1e+004	4000	0
286	1.7e+004	2.1e+004	4000	0
287	4939	0	4267	0
288	1.106e+004	0	4267	0
289	4939	1000	4267	0
290	1.106e+004	1000	4267	0
291	-1000	0	5333	0
292	0	0	5333	0
293	987.7	0	5333	0
294	1975	0	5333	0
295	2963	0	5333	0
296	3951	0	5333	0
297	4939	0	5333	0
298	5959	0	5333	0
299	6980	0	5333	0
300	8000	0	5333	0
301	9020	0	5333	0
302	1.004e+004	0	5333	0
303	1.106e+004	0	5333	0
304	1.205e+004	0	5333	0
305	1.304e+004	0	5333	0
306	1.402e+004	0	5333	0
307	1.501e+004	0	5333	0
308	1.6e+004	0	5333	0
309	1.7e+004	0	5333	0
310	-1000	1000	5333	0
311	0	1000	5333	0
312	987.7	1000	5333	0
313	1975	1000	5333	0
314	2963	1000	5333	0
315	3951	1000	5333	0
316	4939	1000	5333	0
317	5959	1000	5333	0
318	6980	1000	5333	0
319	8000	1000	5333	0
320	9020	1000	5333	0
321	1.004e+004	1000	5333	0
322	1.106e+004	1000	5333	0

323	1.205e+004	1000	5333	0
324	1.304e+004	1000	5333	0
325	1.402e+004	1000	5333	0
326	1.501e+004	1000	5333	0
327	1.6e+004	1000	5333	0
328	1.7e+004	1000	5333	0
329	-1000	2000	5333	0
330	0	2000	5333	0
331	1.6e+004	2000	5333	0
332	1.7e+004	2000	5333	0
333	-1000	3000	5333	0
334	0	3000	5333	0
335	1.6e+004	3000	5333	0
336	1.7e+004	3000	5333	0
337	-1000	4000	5333	0
338	0	4000	5333	0
339	1.6e+004	4000	5333	0
340	1.7e+004	4000	5333	0
341	-1000	5000	5333	0
342	0	5000	5333	0
343	1.6e+004	5000	5333	0
344	1.7e+004	5000	5333	0
345	-1000	6000	5333	0
346	0	6000	5333	0
347	1.6e+004	6000	5333	0
348	1.7e+004	6000	5333	0
349	-1000	7000	5333	0
350	0	7000	5333	0
351	1.6e+004	7000	5333	0
352	1.7e+004	7000	5333	0
353	-1000	8000	5333	0
354	0	8000	5333	0
355	1.6e+004	8000	5333	0
356	1.7e+004	8000	5333	0
357	-1000	9000	5333	0
358	0	9000	5333	0
359	1.6e+004	9000	5333	0
360	1.7e+004	9000	5333	0
361	-1000	1e+004	5333	0
362	0	1e+004	5333	0
363	1.6e+004	1e+004	5333	0
364	1.7e+004	1e+004	5333	0
365	-1000	1.1e+004	5333	0
366	0	1.1e+004	5333	0
367	1.6e+004	1.1e+004	5333	0

368	1.7e+004	1.1e+004	5333	0
369	-1000	1.2e+004	5333	0
370	0	1.2e+004	5333	0
371	1.6e+004	1.2e+004	5333	0
372	1.7e+004	1.2e+004	5333	0
373	-1000	1.3e+004	5333	0
374	0	1.3e+004	5333	0
375	1.6e+004	1.3e+004	5333	0
376	1.7e+004	1.3e+004	5333	0
377	-1000	1.4e+004	5333	0
378	0	1.4e+004	5333	0
379	1.6e+004	1.4e+004	5333	0
380	1.7e+004	1.4e+004	5333	0
381	-1000	1.5e+004	5333	0
382	0	1.5e+004	5333	0
383	1.6e+004	1.5e+004	5333	0
384	1.7e+004	1.5e+004	5333	0
385	-1000	1.6e+004	5333	0
386	0	1.6e+004	5333	0
387	1.6e+004	1.6e+004	5333	0
388	1.7e+004	1.6e+004	5333	0
389	-1000	1.7e+004	5333	0
390	0	1.7e+004	5333	0
391	1.6e+004	1.7e+004	5333	0
392	1.7e+004	1.7e+004	5333	0
393	-1000	1.8e+004	5333	0
394	0	1.8e+004	5333	0
395	1.6e+004	1.8e+004	5333	0
396	1.7e+004	1.8e+004	5333	0
397	-1000	1.9e+004	5333	0
398	0	1.9e+004	5333	0
399	1.6e+004	1.9e+004	5333	0
400	1.7e+004	1.9e+004	5333	0
401	-1000	2e+004	5333	0
402	0	2e+004	5333	0
403	1.6e+004	2e+004	5333	0
404	1.7e+004	2e+004	5333	0
405	-1000	2.1e+004	5333	0
406	0	2.1e+004	5333	0
407	1.6e+004	2.1e+004	5333	0
408	1.7e+004	2.1e+004	5333	0
409	4939	0	6479	0
410	1.106e+004	0	6479	0
411	4939	1000	6479	0
412	1.106e+004	1000	6479	0

413	-1000	0	6667	0
414	0	0	6667	0
415	1.6e+004	0	6667	0
416	1.7e+004	0	6667	0
417	-1000	3000	6667	0
418	0	3000	6667	0
419	1.6e+004	3000	6667	0
420	1.7e+004	3000	6667	0
421	-1000	6000	6667	0
422	0	6000	6667	0
423	1.6e+004	6000	6667	0
424	1.7e+004	6000	6667	0
425	-1000	9000	6667	0
426	0	9000	6667	0
427	1.6e+004	9000	6667	0
428	1.7e+004	9000	6667	0
429	-1000	1.2e+004	6667	0
430	0	1.2e+004	6667	0
431	1.6e+004	1.2e+004	6667	0
432	1.7e+004	1.2e+004	6667	0
433	-1000	1.5e+004	6667	0
434	0	1.5e+004	6667	0
435	1.6e+004	1.5e+004	6667	0
436	1.7e+004	1.5e+004	6667	0
437	-1000	1.8e+004	6667	0
438	0	1.8e+004	6667	0
439	1.6e+004	1.8e+004	6667	0
440	1.7e+004	1.8e+004	6667	0
441	-1000	2.1e+004	6667	0
442	0	2.1e+004	6667	0
443	1.6e+004	2.1e+004	6667	0
444	1.7e+004	2.1e+004	6667	0
445	4939	0	7625	0
446	1.106e+004	0	7625	0
447	4939	1000	7625	0
448	1.106e+004	1000	7625	0
449	-1000	0	8000	0
450	0	0	8000	0
451	1.6e+004	0	8000	0
452	1.7e+004	0	8000	0
453	-1000	1000	8000	0
454	0	1000	8000	0
455	1.6e+004	1000	8000	0
456	1.7e+004	1000	8000	0
457	-1000	2000	8000	0

458	0	2000	8000	0
459	1.6e+004	2000	8000	0
460	1.7e+004	2000	8000	0
461	-1000	3000	8000	0
462	0	3000	8000	0
463	1.6e+004	3000	8000	0
464	1.7e+004	3000	8000	0
465	-1000	4000	8000	0
466	0	4000	8000	0
467	1.6e+004	4000	8000	0
468	1.7e+004	4000	8000	0
469	-1000	5000	8000	0
470	0	5000	8000	0
471	1.6e+004	5000	8000	0
472	1.7e+004	5000	8000	0
473	-1000	6000	8000	0
474	0	6000	8000	0
475	1.6e+004	6000	8000	0
476	1.7e+004	6000	8000	0
477	-1000	7000	8000	0
478	0	7000	8000	0
479	1.6e+004	7000	8000	0
480	1.7e+004	7000	8000	0
481	-1000	8000	8000	0
482	0	8000	8000	0
483	1.6e+004	8000	8000	0
484	1.7e+004	8000	8000	0
485	-1000	9000	8000	0
486	0	9000	8000	0
487	1.6e+004	9000	8000	0
488	1.7e+004	9000	8000	0
489	-1000	1e+004	8000	0
490	0	1e+004	8000	0
491	1.6e+004	1e+004	8000	0
492	1.7e+004	1e+004	8000	0
493	-1000	1.1e+004	8000	0
494	0	1.1e+004	8000	0
495	1.6e+004	1.1e+004	8000	0
496	1.7e+004	1.1e+004	8000	0
497	-1000	1.2e+004	8000	0
498	0	1.2e+004	8000	0
499	1.6e+004	1.2e+004	8000	0
500	1.7e+004	1.2e+004	8000	0
501	-1000	1.3e+004	8000	0
502	0	1.3e+004	8000	0

503	1.6e+004	1.3e+004	8000	0
504	1.7e+004	1.3e+004	8000	0
505	-1000	1.4e+004	8000	0
506	0	1.4e+004	8000	0
507	1.6e+004	1.4e+004	8000	0
508	1.7e+004	1.4e+004	8000	0
509	-1000	1.5e+004	8000	0
510	0	1.5e+004	8000	0
511	1.6e+004	1.5e+004	8000	0
512	1.7e+004	1.5e+004	8000	0
513	-1000	1.6e+004	8000	0
514	0	1.6e+004	8000	0
515	1.6e+004	1.6e+004	8000	0
516	1.7e+004	1.6e+004	8000	0
517	-1000	1.7e+004	8000	0
518	0	1.7e+004	8000	0
519	1.6e+004	1.7e+004	8000	0
520	1.7e+004	1.7e+004	8000	0
521	-1000	1.8e+004	8000	0
522	0	1.8e+004	8000	0
523	1.6e+004	1.8e+004	8000	0
524	1.7e+004	1.8e+004	8000	0
525	-1000	1.9e+004	8000	0
526	0	1.9e+004	8000	0
527	1.6e+004	1.9e+004	8000	0
528	1.7e+004	1.9e+004	8000	0
529	-1000	2e+004	8000	0
530	0	2e+004	8000	0
531	1.6e+004	2e+004	8000	0
532	1.7e+004	2e+004	8000	0
533	-1000	2.1e+004	8000	0
534	0	2.1e+004	8000	0
535	1.6e+004	2.1e+004	8000	0
536	1.7e+004	2.1e+004	8000	0
537	4939	0	8770	0
538	1.106e+004	0	8770	0
539	4939	1000	8770	0
540	1.106e+004	1000	8770	0
541	153.7	0	9561	0
542	1.585e+004	0	9561	0
543	153.7	3000	9561	0
544	1.585e+004	3000	9561	0
545	153.7	6000	9561	0
546	1.585e+004	6000	9561	0
547	153.7	9000	9561	0

548	1.585e+004	9000	9561	0
549	153.7	1.2e+004	9561	0
550	1.585e+004	1.2e+004	9561	0
551	153.7	1.5e+004	9561	0
552	1.585e+004	1.5e+004	9561	0
553	153.7	1.8e+004	9561	0
554	1.585e+004	1.8e+004	9561	0
555	153.7	2.1e+004	9561	0
556	1.585e+004	2.1e+004	9561	0
557	-827.1	0	9756	0
558	1.683e+004	0	9756	0
559	-827.1	3000	9756	0
560	1.683e+004	3000	9756	0
561	-827.1	6000	9756	0
562	1.683e+004	6000	9756	0
563	-827.1	9000	9756	0
564	1.683e+004	9000	9756	0
565	-827.1	1.2e+004	9756	0
566	1.683e+004	1.2e+004	9756	0
567	-827.1	1.5e+004	9756	0
568	1.683e+004	1.5e+004	9756	0
569	-827.1	1.8e+004	9756	0
570	1.683e+004	1.8e+004	9756	0
571	-827.1	2.1e+004	9756	0
572	1.683e+004	2.1e+004	9756	0
573	4939	0	9916	0
574	1.106e+004	0	9916	0
575	4939	1000	9916	0
576	1.106e+004	1000	9916	0
577	609	0	1.106e+004	0
578	1691	0	1.106e+004	0
579	2774	0	1.106e+004	0
580	3856	0	1.106e+004	0
581	4939	0	1.106e+004	0
582	5959	0	1.106e+004	0
583	6980	0	1.106e+004	0
584	8000	0	1.106e+004	0
585	9020	0	1.106e+004	0
586	1.004e+004	0	1.106e+004	0
587	1.106e+004	0	1.106e+004	0
588	1.214e+004	0	1.106e+004	0
589	1.323e+004	0	1.106e+004	0
590	1.431e+004	0	1.106e+004	0
591	1.539e+004	0	1.106e+004	0
592	609	1000	1.106e+004	0

593	1691	1000	1.106e+004	0
594	2774	1000	1.106e+004	0
595	3856	1000	1.106e+004	0
596	4939	1000	1.106e+004	0
597	5959	1000	1.106e+004	0
598	6980	1000	1.106e+004	0
599	8000	1000	1.106e+004	0
600	9020	1000	1.106e+004	0
601	1.004e+004	1000	1.106e+004	0
602	1.106e+004	1000	1.106e+004	0
603	1.214e+004	1000	1.106e+004	0
604	1.323e+004	1000	1.106e+004	0
605	1.431e+004	1000	1.106e+004	0
606	1.539e+004	1000	1.106e+004	0
607	609	2000	1.106e+004	0
608	1.539e+004	2000	1.106e+004	0
609	609	3000	1.106e+004	0
610	1.539e+004	3000	1.106e+004	0
611	609	4000	1.106e+004	0
612	1.539e+004	4000	1.106e+004	0
613	609	5000	1.106e+004	0
614	1.539e+004	5000	1.106e+004	0
615	609	6000	1.106e+004	0
616	1.539e+004	6000	1.106e+004	0
617	609	7000	1.106e+004	0
618	1.539e+004	7000	1.106e+004	0
619	609	8000	1.106e+004	0
620	1.539e+004	8000	1.106e+004	0
621	609	9000	1.106e+004	0
622	1.539e+004	9000	1.106e+004	0
623	609	1e+004	1.106e+004	0
624	1.539e+004	1e+004	1.106e+004	0
625	609	1.1e+004	1.106e+004	0
626	1.539e+004	1.1e+004	1.106e+004	0
627	609	1.2e+004	1.106e+004	0
628	1.539e+004	1.2e+004	1.106e+004	0
629	609	1.3e+004	1.106e+004	0
630	1.539e+004	1.3e+004	1.106e+004	0
631	609	1.4e+004	1.106e+004	0
632	1.539e+004	1.4e+004	1.106e+004	0
633	609	1.5e+004	1.106e+004	0
634	1.539e+004	1.5e+004	1.106e+004	0
635	609	1.6e+004	1.106e+004	0
636	1.539e+004	1.6e+004	1.106e+004	0
637	609	1.7e+004	1.106e+004	0

638	1.539e+004	1.7e+004	1.106e+004	0
639	609	1.8e+004	1.106e+004	0
640	1.539e+004	1.8e+004	1.106e+004	0
641	609	1.9e+004	1.106e+004	0
642	1.539e+004	1.9e+004	1.106e+004	0
643	609	2e+004	1.106e+004	0
644	1.539e+004	2e+004	1.106e+004	0
645	609	2.1e+004	1.106e+004	0
646	1.539e+004	2.1e+004	1.106e+004	0
647	-314.9	0	1.144e+004	0
648	1.631e+004	0	1.144e+004	0
649	-314.9	1000	1.144e+004	0
650	1.631e+004	1000	1.144e+004	0
651	-314.9	2000	1.144e+004	0
652	1.631e+004	2000	1.144e+004	0
653	-314.9	3000	1.144e+004	0
654	1.631e+004	3000	1.144e+004	0
655	-314.9	4000	1.144e+004	0
656	1.631e+004	4000	1.144e+004	0
657	-314.9	5000	1.144e+004	0
658	1.631e+004	5000	1.144e+004	0
659	-314.9	6000	1.144e+004	0
660	1.631e+004	6000	1.144e+004	0
661	-314.9	7000	1.144e+004	0
662	1.631e+004	7000	1.144e+004	0
663	-314.9	8000	1.144e+004	0
664	1.631e+004	8000	1.144e+004	0
665	-314.9	9000	1.144e+004	0
666	1.631e+004	9000	1.144e+004	0
667	-314.9	1e+004	1.144e+004	0
668	1.631e+004	1e+004	1.144e+004	0
669	-314.9	1.1e+004	1.144e+004	0
670	1.631e+004	1.1e+004	1.144e+004	0
671	-314.9	1.2e+004	1.144e+004	0
672	1.631e+004	1.2e+004	1.144e+004	0
673	-314.9	1.3e+004	1.144e+004	0
674	1.631e+004	1.3e+004	1.144e+004	0
675	-314.9	1.4e+004	1.144e+004	0
676	1.631e+004	1.4e+004	1.144e+004	0
677	-314.9	1.5e+004	1.144e+004	0
678	1.631e+004	1.5e+004	1.144e+004	0
679	-314.9	1.6e+004	1.144e+004	0
680	1.631e+004	1.6e+004	1.144e+004	0
681	-314.9	1.7e+004	1.144e+004	0
682	1.631e+004	1.7e+004	1.144e+004	0

683	-314.9	1.8e+004	1.144e+004	0
684	1.631e+004	1.8e+004	1.144e+004	0
685	-314.9	1.9e+004	1.144e+004	0
686	1.631e+004	1.9e+004	1.144e+004	0
687	-314.9	2e+004	1.144e+004	0
688	1.631e+004	2e+004	1.144e+004	0
689	-314.9	2.1e+004	1.144e+004	0
690	1.631e+004	2.1e+004	1.144e+004	0
691	4939	0	1.214e+004	0
692	1.106e+004	0	1.214e+004	0
693	4939	1000	1.214e+004	0
694	1.106e+004	1000	1.214e+004	0
695	1348	0	1.244e+004	0
696	1.465e+004	0	1.244e+004	0
697	1348	3000	1.244e+004	0
698	1.465e+004	3000	1.244e+004	0
699	1348	6000	1.244e+004	0
700	1.465e+004	6000	1.244e+004	0
701	1348	9000	1.244e+004	0
702	1.465e+004	9000	1.244e+004	0
703	1348	1.2e+004	1.244e+004	0
704	1.465e+004	1.2e+004	1.244e+004	0
705	1348	1.5e+004	1.244e+004	0
706	1.465e+004	1.5e+004	1.244e+004	0
707	1348	1.8e+004	1.244e+004	0
708	1.465e+004	1.8e+004	1.244e+004	0
709	1348	2.1e+004	1.244e+004	0
710	1.465e+004	2.1e+004	1.244e+004	0
711	516.8	0	1.3e+004	0
712	1.548e+004	0	1.3e+004	0
713	516.8	3000	1.3e+004	0
714	1.548e+004	3000	1.3e+004	0
715	516.8	6000	1.3e+004	0
716	1.548e+004	6000	1.3e+004	0
717	516.8	9000	1.3e+004	0
718	1.548e+004	9000	1.3e+004	0
719	516.8	1.2e+004	1.3e+004	0
720	1.548e+004	1.2e+004	1.3e+004	0
721	516.8	1.5e+004	1.3e+004	0
722	1.548e+004	1.5e+004	1.3e+004	0
723	516.8	1.8e+004	1.3e+004	0
724	1.548e+004	1.8e+004	1.3e+004	0
725	516.8	2.1e+004	1.3e+004	0
726	1.548e+004	2.1e+004	1.3e+004	0
727	4939	0	1.323e+004	0

728	1.106e+004	0	1.323e+004	0
729	4939	1000	1.323e+004	0
730	1.106e+004	1000	1.323e+004	0
731	2343	0	1.366e+004	0
732	1.366e+004	0	1.366e+004	0
733	2343	1000	1.366e+004	0
734	1.366e+004	1000	1.366e+004	0
735	2343	2000	1.366e+004	0
736	1.366e+004	2000	1.366e+004	0
737	2343	3000	1.366e+004	0
738	1.366e+004	3000	1.366e+004	0
739	2343	4000	1.366e+004	0
740	1.366e+004	4000	1.366e+004	0
741	2343	5000	1.366e+004	0
742	1.366e+004	5000	1.366e+004	0
743	2343	6000	1.366e+004	0
744	1.366e+004	6000	1.366e+004	0
745	2343	7000	1.366e+004	0
746	1.366e+004	7000	1.366e+004	0
747	2343	8000	1.366e+004	0
748	1.366e+004	8000	1.366e+004	0
749	2343	9000	1.366e+004	0
750	1.366e+004	9000	1.366e+004	0
751	2343	1e+004	1.366e+004	0
752	1.366e+004	1e+004	1.366e+004	0
753	2343	1.1e+004	1.366e+004	0
754	1.366e+004	1.1e+004	1.366e+004	0
755	2343	1.2e+004	1.366e+004	0
756	1.366e+004	1.2e+004	1.366e+004	0
757	2343	1.3e+004	1.366e+004	0
758	1.366e+004	1.3e+004	1.366e+004	0
759	2343	1.4e+004	1.366e+004	0
760	1.366e+004	1.4e+004	1.366e+004	0
761	2343	1.5e+004	1.366e+004	0
762	1.366e+004	1.5e+004	1.366e+004	0
763	2343	1.6e+004	1.366e+004	0
764	1.366e+004	1.6e+004	1.366e+004	0
765	2343	1.7e+004	1.366e+004	0
766	1.366e+004	1.7e+004	1.366e+004	0
767	2343	1.8e+004	1.366e+004	0
768	1.366e+004	1.8e+004	1.366e+004	0
769	2343	1.9e+004	1.366e+004	0
770	1.366e+004	1.9e+004	1.366e+004	0
771	2343	2e+004	1.366e+004	0
772	1.366e+004	2e+004	1.366e+004	0

773	2343	2.1e+004	1.366e+004	0
774	1.366e+004	2.1e+004	1.366e+004	0
775	4939	0	1.431e+004	0
776	1.106e+004	0	1.431e+004	0
777	4939	1000	1.431e+004	0
778	1.106e+004	1000	1.431e+004	0
779	1636	0	1.436e+004	0
780	1.436e+004	0	1.436e+004	0
781	1636	1000	1.436e+004	0
782	1.436e+004	1000	1.436e+004	0
783	1636	2000	1.436e+004	0
784	1.436e+004	2000	1.436e+004	0
785	1636	3000	1.436e+004	0
786	1.436e+004	3000	1.436e+004	0
787	1636	4000	1.436e+004	0
788	1.436e+004	4000	1.436e+004	0
789	1636	5000	1.436e+004	0
790	1.436e+004	5000	1.436e+004	0
791	1636	6000	1.436e+004	0
792	1.436e+004	6000	1.436e+004	0
793	1636	7000	1.436e+004	0
794	1.436e+004	7000	1.436e+004	0
795	1636	8000	1.436e+004	0
796	1.436e+004	8000	1.436e+004	0
797	1636	9000	1.436e+004	0
798	1.436e+004	9000	1.436e+004	0
799	1636	1e+004	1.436e+004	0
800	1.436e+004	1e+004	1.436e+004	0
801	1636	1.1e+004	1.436e+004	0
802	1.436e+004	1.1e+004	1.436e+004	0
803	1636	1.2e+004	1.436e+004	0
804	1.436e+004	1.2e+004	1.436e+004	0
805	1636	1.3e+004	1.436e+004	0
806	1.436e+004	1.3e+004	1.436e+004	0
807	1636	1.4e+004	1.436e+004	0
808	1.436e+004	1.4e+004	1.436e+004	0
809	1636	1.5e+004	1.436e+004	0
810	1.436e+004	1.5e+004	1.436e+004	0
811	1636	1.6e+004	1.436e+004	0
812	1.436e+004	1.6e+004	1.436e+004	0
813	1636	1.7e+004	1.436e+004	0
814	1.436e+004	1.7e+004	1.436e+004	0
815	1636	1.8e+004	1.436e+004	0
816	1.436e+004	1.8e+004	1.436e+004	0
817	1636	1.9e+004	1.436e+004	0

818	1.436e+004	1.9e+004	1.436e+004	0
819	1636	2e+004	1.436e+004	0
820	1.436e+004	2e+004	1.436e+004	0
821	1636	2.1e+004	1.436e+004	0
822	1.436e+004	2.1e+004	1.436e+004	0
823	3555	0	1.465e+004	0
824	1.244e+004	0	1.465e+004	0
825	3555	3000	1.465e+004	0
826	1.244e+004	3000	1.465e+004	0
827	3555	6000	1.465e+004	0
828	1.244e+004	6000	1.465e+004	0
829	3555	9000	1.465e+004	0
830	1.244e+004	9000	1.465e+004	0
831	3555	1.2e+004	1.465e+004	0
832	1.244e+004	1.2e+004	1.465e+004	0
833	3555	1.5e+004	1.465e+004	0
834	1.244e+004	1.5e+004	1.465e+004	0
835	3555	1.8e+004	1.465e+004	0
836	1.244e+004	1.8e+004	1.465e+004	0
837	3555	2.1e+004	1.465e+004	0
838	1.244e+004	2.1e+004	1.465e+004	0
839	4939	0	1.539e+004	0
840	1.106e+004	0	1.539e+004	0
841	4939	1000	1.539e+004	0
842	1.106e+004	1000	1.539e+004	0
843	4939	2000	1.539e+004	0
844	1.106e+004	2000	1.539e+004	0
845	4939	3000	1.539e+004	0
846	1.106e+004	3000	1.539e+004	0
847	4939	4000	1.539e+004	0
848	1.106e+004	4000	1.539e+004	0
849	4939	5000	1.539e+004	0
850	1.106e+004	5000	1.539e+004	0
851	4939	6000	1.539e+004	0
852	1.106e+004	6000	1.539e+004	0
853	4939	7000	1.539e+004	0
854	1.106e+004	7000	1.539e+004	0
855	4939	8000	1.539e+004	0
856	1.106e+004	8000	1.539e+004	0
857	4939	9000	1.539e+004	0
858	1.106e+004	9000	1.539e+004	0
859	4939	1e+004	1.539e+004	0
860	1.106e+004	1e+004	1.539e+004	0
861	4939	1.1e+004	1.539e+004	0
862	1.106e+004	1.1e+004	1.539e+004	0

863	4939	1.2e+004	1.539e+004	0
864	1.106e+004	1.2e+004	1.539e+004	0
865	4939	1.3e+004	1.539e+004	0
866	1.106e+004	1.3e+004	1.539e+004	0
867	4939	1.4e+004	1.539e+004	0
868	1.106e+004	1.4e+004	1.539e+004	0
869	4939	1.5e+004	1.539e+004	0
870	1.106e+004	1.5e+004	1.539e+004	0
871	4939	1.6e+004	1.539e+004	0
872	1.106e+004	1.6e+004	1.539e+004	0
873	4939	1.7e+004	1.539e+004	0
874	1.106e+004	1.7e+004	1.539e+004	0
875	4939	1.8e+004	1.539e+004	0
876	1.106e+004	1.8e+004	1.539e+004	0
877	4939	1.9e+004	1.539e+004	0
878	1.106e+004	1.9e+004	1.539e+004	0
879	4939	2e+004	1.539e+004	0
880	1.106e+004	2e+004	1.539e+004	0
881	4939	2.1e+004	1.539e+004	0
882	1.106e+004	2.1e+004	1.539e+004	0
883	3000	0	1.548e+004	0
884	1.3e+004	0	1.548e+004	0
885	3000	3000	1.548e+004	0
886	1.3e+004	3000	1.548e+004	0
887	3000	6000	1.548e+004	0
888	1.3e+004	6000	1.548e+004	0
889	3000	9000	1.548e+004	0
890	1.3e+004	9000	1.548e+004	0
891	3000	1.2e+004	1.548e+004	0
892	1.3e+004	1.2e+004	1.548e+004	0
893	3000	1.5e+004	1.548e+004	0
894	1.3e+004	1.5e+004	1.548e+004	0
895	3000	1.8e+004	1.548e+004	0
896	1.3e+004	1.8e+004	1.548e+004	0
897	3000	2.1e+004	1.548e+004	0
898	1.3e+004	2.1e+004	1.548e+004	0
899	6439	0	1.585e+004	0
900	9561	0	1.585e+004	0
901	6439	3000	1.585e+004	0
902	9561	3000	1.585e+004	0
903	6439	6000	1.585e+004	0
904	9561	6000	1.585e+004	0
905	6439	9000	1.585e+004	0
906	9561	9000	1.585e+004	0
907	6439	1.2e+004	1.585e+004	0

908	9561	1.2e+004	1.585e+004	0
909	6439	1.5e+004	1.585e+004	0
910	9561	1.5e+004	1.585e+004	0
911	6439	1.8e+004	1.585e+004	0
912	9561	1.8e+004	1.585e+004	0
913	6439	2.1e+004	1.585e+004	0
914	9561	2.1e+004	1.585e+004	0
915	8000	0	1.6e+004	0
916	8000	1000	1.6e+004	0
917	8000	2000	1.6e+004	0
918	8000	3000	1.6e+004	0
919	8000	4000	1.6e+004	0
920	8000	5000	1.6e+004	0
921	8000	6000	1.6e+004	0
922	8000	7000	1.6e+004	0
923	8000	8000	1.6e+004	0
924	8000	9000	1.6e+004	0
925	8000	1e+004	1.6e+004	0
926	8000	1.1e+004	1.6e+004	0
927	8000	1.2e+004	1.6e+004	0
928	8000	1.3e+004	1.6e+004	0
929	8000	1.4e+004	1.6e+004	0
930	8000	1.5e+004	1.6e+004	0
931	8000	1.6e+004	1.6e+004	0
932	8000	1.7e+004	1.6e+004	0
933	8000	1.8e+004	1.6e+004	0
934	8000	1.9e+004	1.6e+004	0
935	8000	2e+004	1.6e+004	0
936	8000	2.1e+004	1.6e+004	0
937	4556	0	1.631e+004	0
938	1.144e+004	0	1.631e+004	0
939	4556	1000	1.631e+004	0
940	1.144e+004	1000	1.631e+004	0
941	4556	2000	1.631e+004	0
942	1.144e+004	2000	1.631e+004	0
943	4556	3000	1.631e+004	0
944	1.144e+004	3000	1.631e+004	0
945	4556	4000	1.631e+004	0
946	1.144e+004	4000	1.631e+004	0
947	4556	5000	1.631e+004	0
948	1.144e+004	5000	1.631e+004	0
949	4556	6000	1.631e+004	0
950	1.144e+004	6000	1.631e+004	0
951	4556	7000	1.631e+004	0
952	1.144e+004	7000	1.631e+004	0

953	4556	8000	1.631e+004	0
954	1.144e+004	8000	1.631e+004	0
955	4556	9000	1.631e+004	0
956	1.144e+004	9000	1.631e+004	0
957	4556	1e+004	1.631e+004	0
958	1.144e+004	1e+004	1.631e+004	0
959	4556	1.1e+004	1.631e+004	0
960	1.144e+004	1.1e+004	1.631e+004	0
961	4556	1.2e+004	1.631e+004	0
962	1.144e+004	1.2e+004	1.631e+004	0
963	4556	1.3e+004	1.631e+004	0
964	1.144e+004	1.3e+004	1.631e+004	0
965	4556	1.4e+004	1.631e+004	0
966	1.144e+004	1.4e+004	1.631e+004	0
967	4556	1.5e+004	1.631e+004	0
968	1.144e+004	1.5e+004	1.631e+004	0
969	4556	1.6e+004	1.631e+004	0
970	1.144e+004	1.6e+004	1.631e+004	0
971	4556	1.7e+004	1.631e+004	0
972	1.144e+004	1.7e+004	1.631e+004	0
973	4556	1.8e+004	1.631e+004	0
974	1.144e+004	1.8e+004	1.631e+004	0
975	4556	1.9e+004	1.631e+004	0
976	1.144e+004	1.9e+004	1.631e+004	0
977	4556	2e+004	1.631e+004	0
978	1.144e+004	2e+004	1.631e+004	0
979	4556	2.1e+004	1.631e+004	0
980	1.144e+004	2.1e+004	1.631e+004	0
981	6244	0	1.683e+004	0
982	9756	0	1.683e+004	0
983	6244	3000	1.683e+004	0
984	9756	3000	1.683e+004	0
985	6244	6000	1.683e+004	0
986	9756	6000	1.683e+004	0
987	6244	9000	1.683e+004	0
988	9756	9000	1.683e+004	0
989	6244	1.2e+004	1.683e+004	0
990	9756	1.2e+004	1.683e+004	0
991	6244	1.5e+004	1.683e+004	0
992	9756	1.5e+004	1.683e+004	0
993	6244	1.8e+004	1.683e+004	0
994	9756	1.8e+004	1.683e+004	0
995	6244	2.1e+004	1.683e+004	0
996	9756	2.1e+004	1.683e+004	0
997	8000	0	1.7e+004	0

998	8000	1000	1.7e+004	0
999	8000	2000	1.7e+004	0
1000	8000	3000	1.7e+004	0
1001	8000	4000	1.7e+004	0
1002	8000	5000	1.7e+004	0
1003	8000	6000	1.7e+004	0
1004	8000	7000	1.7e+004	0
1005	8000	8000	1.7e+004	0
1006	8000	9000	1.7e+004	0
1007	8000	1e+004	1.7e+004	0
1008	8000	1.1e+004	1.7e+004	0
1009	8000	1.2e+004	1.7e+004	0
1010	8000	1.3e+004	1.7e+004	0
1011	8000	1.4e+004	1.7e+004	0
1012	8000	1.5e+004	1.7e+004	0
1013	8000	1.6e+004	1.7e+004	0
1014	8000	1.7e+004	1.7e+004	0
1015	8000	1.8e+004	1.7e+004	0
1016	8000	1.9e+004	1.7e+004	0
1017	8000	2e+004	1.7e+004	0
1018	8000	2.1e+004	1.7e+004	0

< Boundary >

** SUPPORT / SPECIFIED DISPLACEMENT

NODE	SUPPORT	SPECIFIED DISPLACEMENT					
	DDDRRR	Dx	Dy	Dz	Rx	Ry	Rz
1	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
32	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
43	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
44	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
45	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
46	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
55	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
56	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
57	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

58	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
67	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
68	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
69	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
70	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
79	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
80	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
81	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
82	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
91	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
92	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
93	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
94	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
103	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
104	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
105	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
106	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
115	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
116	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
117	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
118	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
119	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
120	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
121	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
122	111111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

< Beam >

*** BEAM MEMBER DATA

NO	NODAL CONNECTIVITY I	J	BEAM END RELEASE I	J	MATERIAL	SECTION	LENGTH
1	1	2	-	-	S235	40x40x2.5	1000
2	2	3	-	-	S235	60x60x3	987.7
3	3	4	-	-	S235	60x60x3	987.7
4	4	5	-	-	S235	60x60x3	987.7
5	5	6	-	-	S235	60x60x3	987.7
6	6	7	-	-	S235	60x60x3	987.7
7	7	8	-	-	S235	60x60x3	1020
8	8	9	-	-	S235	60x60x3	1020
9	9	10	-	-	S235	60x60x3	1020
10	10	11	-	-	S235	60x60x3	1020
11	11	12	-	-	S235	60x60x3	1020

12	12	13	-	-	S235	60x60x3	1020
13	13	14	-	-	S235	60x60x3	987.7
14	14	15	-	-	S235	60x60x3	987.7
15	15	16	-	-	S235	60x60x3	987.7
16	16	17	-	-	S235	60x60x3	987.7
17	17	18	-	-	S235	60x60x3	987.7
18	18	19	-	-	S235	40x40x2.5	1000
19	20	1	-	-	S235	40x40x2.5	1000
20	21	1	-	-	S235	40x40x2.5	1414
21	21	2	-	-	S235	40x40x2.5	1000
22	21	3	-	-	S235	40x40x2.5	1406
23	3	22	-	-	S235	40x40x2.5	1000
24	3	23	-	-	S235	40x40x2.5	1406
25	4	23	-	-	S235	40x40x2.5	1000
26	23	5	-	-	S235	40x40x2.5	1406
27	5	24	-	-	S235	40x40x2.5	1000
28	5	25	-	-	S235	40x40x2.5	1406
29	6	25	-	-	S235	40x40x2.5	1000
30	25	7	-	-	S235	40x40x2.5	1406
31	7	26	-	-	S235	40x40x2.5	1000
32	7	27	-	-	S235	40x40x2.5	1429
33	8	27	-	-	S235	40x40x2.5	1000
34	27	9	-	-	S235	40x40x2.5	1429
35	9	28	-	-	S235	40x40x2.5	1000
36	9	29	-	-	S235	40x40x2.5	1429
37	10	29	-	-	S235	40x40x2.5	1000
38	29	11	-	-	S235	40x40x2.5	1429
39	11	30	-	-	S235	40x40x2.5	1000
40	11	31	-	-	S235	40x40x2.5	1429
41	12	31	-	-	S235	40x40x2.5	1000
42	31	13	-	-	S235	40x40x2.5	1429
43	13	32	-	-	S235	40x40x2.5	1000
44	13	33	-	-	S235	40x40x2.5	1406
45	14	33	-	-	S235	40x40x2.5	1000
46	33	15	-	-	S235	40x40x2.5	1406
47	15	34	-	-	S235	40x40x2.5	1000
48	15	35	-	-	S235	40x40x2.5	1406
49	16	35	-	-	S235	40x40x2.5	1000
50	35	17	-	-	S235	40x40x2.5	1406
51	17	36	-	-	S235	40x40x2.5	1000
52	17	37	-	-	S235	40x40x2.5	1406
53	37	18	-	-	S235	40x40x2.5	1000
54	37	19	-	-	S235	40x40x2.5	1414
55	38	19	-	-	S235	40x40x2.5	1000
56	21	20	-	-	S235	40x40x2.5	1000

57	21	22	-	-	S235	60x60x3	987.7
58	22	23	-	-	S235	60x60x3	987.7
59	23	24	-	-	S235	60x60x3	987.7
60	24	25	-	-	S235	60x60x3	987.7
61	25	26	-	-	S235	60x60x3	987.7
62	26	27	-	-	S235	60x60x3	1020
63	27	28	-	-	S235	60x60x3	1020
64	28	29	-	-	S235	60x60x3	1020
65	29	30	-	-	S235	60x60x3	1020
66	30	31	-	-	S235	60x60x3	1020
67	31	32	-	-	S235	60x60x3	1020
68	32	33	-	-	S235	60x60x3	987.7
69	33	34	-	-	S235	60x60x3	987.7
70	34	35	-	-	S235	60x60x3	987.7
71	35	36	-	-	S235	60x60x3	987.7
72	36	37	-	-	S235	60x60x3	987.7
73	37	38	-	-	S235	40x40x2.5	1000
74	39	20	-	-	S235	40x40x2.5	1000
75	39	21	-	-	S235	40x40x2.5	1414
76	40	21	-	-	S235	40x40x2.5	1000
77	41	37	-	-	S235	40x40x2.5	1000
78	42	37	-	-	S235	40x40x2.5	1414
79	42	38	-	-	S235	40x40x2.5	1000
80	40	39	-	-	S235	40x40x2.5	1000
81	41	42	-	-	S235	40x40x2.5	1000
82	43	39	-	-	S235	40x40x2.5	1000
83	44	39	-	-	S235	40x40x2.5	1414
84	44	40	-	-	S235	40x40x2.5	1000
85	45	41	-	-	S235	40x40x2.5	1000
86	45	42	-	-	S235	40x40x2.5	1414
87	46	42	-	-	S235	40x40x2.5	1000
88	43	44	-	-	S235	40x40x2.5	1000
89	45	46	-	-	S235	40x40x2.5	1000
90	47	43	-	-	S235	40x40x2.5	1000
91	48	43	-	-	S235	40x40x2.5	1414
92	48	44	-	-	S235	40x40x2.5	1000
93	49	45	-	-	S235	40x40x2.5	1000
94	49	46	-	-	S235	40x40x2.5	1414
95	50	46	-	-	S235	40x40x2.5	1000
96	48	47	-	-	S235	40x40x2.5	1000
97	49	50	-	-	S235	40x40x2.5	1000
98	51	47	-	-	S235	40x40x2.5	1000
99	51	48	-	-	S235	40x40x2.5	1414
100	52	48	-	-	S235	40x40x2.5	1000
101	53	49	-	-	S235	40x40x2.5	1000

102	54	49	-	-	S235	40x40x2.5	1414
103	54	50	-	-	S235	40x40x2.5	1000
104	52	51	-	-	S235	40x40x2.5	1000
105	53	54	-	-	S235	40x40x2.5	1000
106	55	51	-	-	S235	40x40x2.5	1000
107	56	51	-	-	S235	40x40x2.5	1414
108	56	52	-	-	S235	40x40x2.5	1000
109	57	53	-	-	S235	40x40x2.5	1000
110	57	54	-	-	S235	40x40x2.5	1414
111	58	54	-	-	S235	40x40x2.5	1000
112	55	56	-	-	S235	40x40x2.5	1000
113	57	58	-	-	S235	40x40x2.5	1000
114	59	55	-	-	S235	40x40x2.5	1000
115	60	55	-	-	S235	40x40x2.5	1414
116	60	56	-	-	S235	40x40x2.5	1000
117	61	57	-	-	S235	40x40x2.5	1000
118	61	58	-	-	S235	40x40x2.5	1414
119	62	58	-	-	S235	40x40x2.5	1000
120	60	59	-	-	S235	40x40x2.5	1000
121	61	62	-	-	S235	40x40x2.5	1000
122	63	59	-	-	S235	40x40x2.5	1000
123	63	60	-	-	S235	40x40x2.5	1414
124	64	60	-	-	S235	40x40x2.5	1000
125	65	61	-	-	S235	40x40x2.5	1000
126	66	61	-	-	S235	40x40x2.5	1414
127	66	62	-	-	S235	40x40x2.5	1000
128	64	63	-	-	S235	40x40x2.5	1000
129	65	66	-	-	S235	40x40x2.5	1000
130	67	63	-	-	S235	40x40x2.5	1000
131	68	63	-	-	S235	40x40x2.5	1414
132	68	64	-	-	S235	40x40x2.5	1000
133	69	65	-	-	S235	40x40x2.5	1000
134	69	66	-	-	S235	40x40x2.5	1414
135	70	66	-	-	S235	40x40x2.5	1000
136	67	68	-	-	S235	40x40x2.5	1000
137	69	70	-	-	S235	40x40x2.5	1000
138	71	67	-	-	S235	40x40x2.5	1000
139	72	67	-	-	S235	40x40x2.5	1414
140	72	68	-	-	S235	40x40x2.5	1000
141	73	69	-	-	S235	40x40x2.5	1000
142	73	70	-	-	S235	40x40x2.5	1414
143	74	70	-	-	S235	40x40x2.5	1000
144	72	71	-	-	S235	40x40x2.5	1000
145	73	74	-	-	S235	40x40x2.5	1000
146	75	71	-	-	S235	40x40x2.5	1000

147	75	72	-	-	S235	40x40x2.5	1414
148	76	72	-	-	S235	40x40x2.5	1000
149	77	73	-	-	S235	40x40x2.5	1000
150	78	73	-	-	S235	40x40x2.5	1414
151	78	74	-	-	S235	40x40x2.5	1000
152	76	75	-	-	S235	40x40x2.5	1000
153	77	78	-	-	S235	40x40x2.5	1000
154	79	75	-	-	S235	40x40x2.5	1000
155	80	75	-	-	S235	40x40x2.5	1414
156	80	76	-	-	S235	40x40x2.5	1000
157	81	77	-	-	S235	40x40x2.5	1000
158	81	78	-	-	S235	40x40x2.5	1414
159	82	78	-	-	S235	40x40x2.5	1000
160	79	80	-	-	S235	40x40x2.5	1000
161	81	82	-	-	S235	40x40x2.5	1000
162	83	79	-	-	S235	40x40x2.5	1000
163	84	79	-	-	S235	40x40x2.5	1414
164	84	80	-	-	S235	40x40x2.5	1000
165	85	81	-	-	S235	40x40x2.5	1000
166	85	82	-	-	S235	40x40x2.5	1414
167	86	82	-	-	S235	40x40x2.5	1000
168	84	83	-	-	S235	40x40x2.5	1000
169	85	86	-	-	S235	40x40x2.5	1000
170	87	83	-	-	S235	40x40x2.5	1000
171	87	84	-	-	S235	40x40x2.5	1414
172	88	84	-	-	S235	40x40x2.5	1000
173	89	85	-	-	S235	40x40x2.5	1000
174	90	85	-	-	S235	40x40x2.5	1414
175	90	86	-	-	S235	40x40x2.5	1000
176	88	87	-	-	S235	40x40x2.5	1000
177	89	90	-	-	S235	40x40x2.5	1000
178	91	87	-	-	S235	40x40x2.5	1000
179	92	87	-	-	S235	40x40x2.5	1414
180	92	88	-	-	S235	40x40x2.5	1000
181	93	89	-	-	S235	40x40x2.5	1000
182	93	90	-	-	S235	40x40x2.5	1414
183	94	90	-	-	S235	40x40x2.5	1000
184	91	92	-	-	S235	40x40x2.5	1000
185	93	94	-	-	S235	40x40x2.5	1000
186	95	91	-	-	S235	40x40x2.5	1000
187	96	91	-	-	S235	40x40x2.5	1414
188	96	92	-	-	S235	40x40x2.5	1000
189	97	93	-	-	S235	40x40x2.5	1000
190	97	94	-	-	S235	40x40x2.5	1414
191	98	94	-	-	S235	40x40x2.5	1000

192	96	95	-	-	S235	40x40x2.5	1000
193	97	98	-	-	S235	40x40x2.5	1000
194	99	95	-	-	S235	40x40x2.5	1000
195	99	96	-	-	S235	40x40x2.5	1414
196	100	96	-	-	S235	40x40x2.5	1000
197	101	97	-	-	S235	40x40x2.5	1000
198	102	97	-	-	S235	40x40x2.5	1414
199	102	98	-	-	S235	40x40x2.5	1000
200	100	99	-	-	S235	40x40x2.5	1000
201	101	102	-	-	S235	40x40x2.5	1000
202	103	99	-	-	S235	40x40x2.5	1000
203	104	99	-	-	S235	40x40x2.5	1414
204	104	100	-	-	S235	40x40x2.5	1000
205	105	101	-	-	S235	40x40x2.5	1000
206	105	102	-	-	S235	40x40x2.5	1414
207	106	102	-	-	S235	40x40x2.5	1000
208	103	104	-	-	S235	40x40x2.5	1000
209	105	106	-	-	S235	40x40x2.5	1000
210	107	103	-	-	S235	40x40x2.5	1000
211	108	103	-	-	S235	40x40x2.5	1414
212	108	104	-	-	S235	40x40x2.5	1000
213	109	105	-	-	S235	40x40x2.5	1000
214	109	106	-	-	S235	40x40x2.5	1414
215	110	106	-	-	S235	40x40x2.5	1000
216	108	107	-	-	S235	40x40x2.5	1000
217	109	110	-	-	S235	40x40x2.5	1000
218	111	107	-	-	S235	40x40x2.5	1000
219	111	108	-	-	S235	40x40x2.5	1414
220	112	108	-	-	S235	40x40x2.5	1000
221	113	109	-	-	S235	40x40x2.5	1000
222	114	109	-	-	S235	40x40x2.5	1414
223	114	110	-	-	S235	40x40x2.5	1000
224	112	111	-	-	S235	40x40x2.5	1000
225	113	114	-	-	S235	40x40x2.5	1000
226	116	111	-	-	S235	40x40x2.5	1000
227	118	111	-	-	S235	40x40x2.5	1414
228	118	112	-	-	S235	40x40x2.5	1000
229	120	113	-	-	S235	40x40x2.5	1000
230	120	114	-	-	S235	40x40x2.5	1414
231	122	114	-	-	S235	40x40x2.5	1000
232	116	118	-	-	S235	40x40x2.5	1000
233	120	122	-	-	S235	40x40x2.5	1000
234	123	7	-	-	S235	60x60x3	1067
235	124	13	-	-	S235	60x60x3	1067
236	7	125	-	-	S235	40x40x2.5	1462

237	13	126	-	-	S235	40x40x2.5	1462
238	125	26	-	-	S235	60x60x3	1067
239	126	32	-	-	S235	60x60x3	1067
240	1	127	-	-	S235	60x60x3	1333
241	1	128	-	-	S235	40x40x2.5	1667
242	2	128	-	-	S235	60x60x3	1333
243	18	129	-	-	S235	60x60x3	1333
244	19	129	-	-	S235	40x40x2.5	1667
245	19	130	-	-	S235	60x60x3	1333
246	43	131	-	-	S235	60x60x3	1333
247	43	132	-	-	S235	40x40x2.5	1667
248	44	132	-	-	S235	60x60x3	1333
249	45	133	-	-	S235	60x60x3	1333
250	46	133	-	-	S235	40x40x2.5	1667
251	46	134	-	-	S235	60x60x3	1333
252	55	135	-	-	S235	60x60x3	1333
253	55	136	-	-	S235	40x40x2.5	1667
254	56	136	-	-	S235	60x60x3	1333
255	57	137	-	-	S235	60x60x3	1333
256	58	137	-	-	S235	40x40x2.5	1667
257	58	138	-	-	S235	60x60x3	1333
258	67	139	-	-	S235	60x60x3	1333
259	67	140	-	-	S235	40x40x2.5	1667
260	68	140	-	-	S235	60x60x3	1333
261	69	141	-	-	S235	60x60x3	1333
262	70	141	-	-	S235	40x40x2.5	1667
263	70	142	-	-	S235	60x60x3	1333
264	79	143	-	-	S235	60x60x3	1333
265	79	144	-	-	S235	40x40x2.5	1667
266	80	144	-	-	S235	60x60x3	1333
267	81	145	-	-	S235	60x60x3	1333
268	82	145	-	-	S235	40x40x2.5	1667
269	82	146	-	-	S235	60x60x3	1333
270	91	147	-	-	S235	60x60x3	1333
271	91	148	-	-	S235	40x40x2.5	1667
272	92	148	-	-	S235	60x60x3	1333
273	93	149	-	-	S235	60x60x3	1333
274	94	149	-	-	S235	40x40x2.5	1667
275	94	150	-	-	S235	60x60x3	1333
276	103	151	-	-	S235	60x60x3	1333
277	103	152	-	-	S235	40x40x2.5	1667
278	104	152	-	-	S235	60x60x3	1333
279	105	153	-	-	S235	60x60x3	1333
280	106	153	-	-	S235	40x40x2.5	1667
281	106	154	-	-	S235	60x60x3	1333

282	116	155	-	-	S235	60x60x3	1333
283	116	156	-	-	S235	40x40x2.5	1667
284	118	156	-	-	S235	60x60x3	1333
285	120	157	-	-	S235	60x60x3	1333
286	122	157	-	-	S235	40x40x2.5	1667
287	122	158	-	-	S235	60x60x3	1333
288	123	125	-	-	S235	40x40x2.5	1000
289	124	126	-	-	S235	40x40x2.5	1000
290	127	128	-	-	S235	40x40x2.5	1000
291	130	129	-	-	S235	40x40x2.5	1000
294	131	132	-	-	S235	40x40x2.5	1000
295	134	133	-	-	S235	40x40x2.5	1000
296	135	136	-	-	S235	40x40x2.5	1000
297	138	137	-	-	S235	40x40x2.5	1000
298	139	140	-	-	S235	40x40x2.5	1000
299	142	141	-	-	S235	40x40x2.5	1000
300	143	144	-	-	S235	40x40x2.5	1000
301	146	145	-	-	S235	40x40x2.5	1000
302	147	148	-	-	S235	40x40x2.5	1000
303	150	149	-	-	S235	40x40x2.5	1000
304	151	152	-	-	S235	40x40x2.5	1000
305	154	153	-	-	S235	40x40x2.5	1000
308	155	156	-	-	S235	40x40x2.5	1000
309	158	157	-	-	S235	40x40x2.5	1000
310	159	123	-	-	S235	60x60x3	1067
311	160	124	-	-	S235	60x60x3	1067
312	125	159	-	-	S235	40x40x2.5	1462
313	126	160	-	-	S235	40x40x2.5	1462
314	161	125	-	-	S235	60x60x3	1067
315	162	126	-	-	S235	60x60x3	1067
316	127	163	-	-	S235	60x60x3	1333
317	128	163	-	-	S235	40x40x2.5	1667
318	128	164	-	-	S235	60x60x3	1333
319	129	165	-	-	S235	60x60x3	1333
320	129	166	-	-	S235	40x40x2.5	1667
321	130	166	-	-	S235	60x60x3	1333
322	131	175	-	-	S235	60x60x3	1333
323	132	175	-	-	S235	40x40x2.5	1667
324	132	176	-	-	S235	60x60x3	1333
325	133	177	-	-	S235	60x60x3	1333
326	133	178	-	-	S235	40x40x2.5	1667
327	134	178	-	-	S235	60x60x3	1333
328	135	187	-	-	S235	60x60x3	1333
329	136	187	-	-	S235	40x40x2.5	1667
330	136	188	-	-	S235	60x60x3	1333

331	137	189	-	-	S235	60x60x3	1333
332	137	190	-	-	S235	40x40x2.5	1667
333	138	190	-	-	S235	60x60x3	1333
334	139	199	-	-	S235	60x60x3	1333
335	140	199	-	-	S235	40x40x2.5	1667
336	140	200	-	-	S235	60x60x3	1333
337	141	201	-	-	S235	60x60x3	1333
338	141	202	-	-	S235	40x40x2.5	1667
339	142	202	-	-	S235	60x60x3	1333
340	143	211	-	-	S235	60x60x3	1333
341	144	211	-	-	S235	40x40x2.5	1667
342	144	212	-	-	S235	60x60x3	1333
343	145	213	-	-	S235	60x60x3	1333
344	145	214	-	-	S235	40x40x2.5	1667
345	146	214	-	-	S235	60x60x3	1333
346	147	223	-	-	S235	60x60x3	1333
347	148	223	-	-	S235	40x40x2.5	1667
348	148	224	-	-	S235	60x60x3	1333
349	149	225	-	-	S235	60x60x3	1333
350	149	226	-	-	S235	40x40x2.5	1667
351	150	226	-	-	S235	60x60x3	1333
352	151	235	-	-	S235	60x60x3	1333
353	152	235	-	-	S235	40x40x2.5	1667
354	152	236	-	-	S235	60x60x3	1333
355	153	237	-	-	S235	60x60x3	1333
356	153	238	-	-	S235	40x40x2.5	1667
357	154	238	-	-	S235	60x60x3	1333
358	155	247	-	-	S235	60x60x3	1333
359	156	247	-	-	S235	40x40x2.5	1667
360	156	248	-	-	S235	60x60x3	1333
361	157	249	-	-	S235	60x60x3	1333
362	157	250	-	-	S235	40x40x2.5	1667
363	158	250	-	-	S235	60x60x3	1333
364	159	161	-	-	S235	40x40x2.5	1000
365	160	162	-	-	S235	40x40x2.5	1000
366	163	164	-	-	S235	40x40x2.5	1000
367	251	159	-	-	S235	60x60x3	1067
368	252	160	-	-	S235	60x60x3	1067
369	166	165	-	-	S235	40x40x2.5	1000
370	167	163	-	-	S235	40x40x2.5	1000
371	168	163	-	-	S235	40x40x2.5	1414
372	168	164	-	-	S235	40x40x2.5	1000
373	159	253	-	-	S235	40x40x2.5	1462
374	160	254	-	-	S235	40x40x2.5	1462
375	169	165	-	-	S235	40x40x2.5	1000

376	169	166	-	-	S235	40x40x2.5	1414
377	170	166	-	-	S235	40x40x2.5	1000
378	168	167	-	-	S235	40x40x2.5	1000
379	253	161	-	-	S235	60x60x3	1067
380	254	162	-	-	S235	60x60x3	1067
381	169	170	-	-	S235	40x40x2.5	1000
382	171	167	-	-	S235	40x40x2.5	1000
383	171	168	-	-	S235	40x40x2.5	1414
384	172	168	-	-	S235	40x40x2.5	1000
385	173	169	-	-	S235	40x40x2.5	1000
386	174	169	-	-	S235	40x40x2.5	1414
387	174	170	-	-	S235	40x40x2.5	1000
388	172	171	-	-	S235	40x40x2.5	1000
389	173	174	-	-	S235	40x40x2.5	1000
390	175	171	-	-	S235	40x40x2.5	1000
391	176	171	-	-	S235	40x40x2.5	1414
392	176	172	-	-	S235	40x40x2.5	1000
393	177	173	-	-	S235	40x40x2.5	1000
394	177	174	-	-	S235	40x40x2.5	1414
395	178	174	-	-	S235	40x40x2.5	1000
396	175	176	-	-	S235	40x40x2.5	1000
397	178	177	-	-	S235	40x40x2.5	1000
398	179	175	-	-	S235	40x40x2.5	1000
399	180	175	-	-	S235	40x40x2.5	1414
400	180	176	-	-	S235	40x40x2.5	1000
401	181	177	-	-	S235	40x40x2.5	1000
402	181	178	-	-	S235	40x40x2.5	1414
403	182	178	-	-	S235	40x40x2.5	1000
404	180	179	-	-	S235	40x40x2.5	1000
405	181	182	-	-	S235	40x40x2.5	1000
406	183	179	-	-	S235	40x40x2.5	1000
407	183	180	-	-	S235	40x40x2.5	1414
408	184	180	-	-	S235	40x40x2.5	1000
409	185	181	-	-	S235	40x40x2.5	1000
410	186	181	-	-	S235	40x40x2.5	1414
411	186	182	-	-	S235	40x40x2.5	1000
412	184	183	-	-	S235	40x40x2.5	1000
413	185	186	-	-	S235	40x40x2.5	1000
414	187	183	-	-	S235	40x40x2.5	1000
415	188	183	-	-	S235	40x40x2.5	1414
416	188	184	-	-	S235	40x40x2.5	1000
417	189	185	-	-	S235	40x40x2.5	1000
418	189	186	-	-	S235	40x40x2.5	1414
419	190	186	-	-	S235	40x40x2.5	1000
420	187	188	-	-	S235	40x40x2.5	1000

421	190	189	-	-	S235	40x40x2.5	1000
422	191	187	-	-	S235	40x40x2.5	1000
423	192	187	-	-	S235	40x40x2.5	1414
424	192	188	-	-	S235	40x40x2.5	1000
425	193	189	-	-	S235	40x40x2.5	1000
426	193	190	-	-	S235	40x40x2.5	1414
427	194	190	-	-	S235	40x40x2.5	1000
428	192	191	-	-	S235	40x40x2.5	1000
429	193	194	-	-	S235	40x40x2.5	1000
430	195	191	-	-	S235	40x40x2.5	1000
431	195	192	-	-	S235	40x40x2.5	1414
432	196	192	-	-	S235	40x40x2.5	1000
433	197	193	-	-	S235	40x40x2.5	1000
434	198	193	-	-	S235	40x40x2.5	1414
435	198	194	-	-	S235	40x40x2.5	1000
436	196	195	-	-	S235	40x40x2.5	1000
437	197	198	-	-	S235	40x40x2.5	1000
438	199	195	-	-	S235	40x40x2.5	1000
439	200	195	-	-	S235	40x40x2.5	1414
440	200	196	-	-	S235	40x40x2.5	1000
441	201	197	-	-	S235	40x40x2.5	1000
442	201	198	-	-	S235	40x40x2.5	1414
443	202	198	-	-	S235	40x40x2.5	1000
444	199	200	-	-	S235	40x40x2.5	1000
445	202	201	-	-	S235	40x40x2.5	1000
446	203	199	-	-	S235	40x40x2.5	1000
447	204	199	-	-	S235	40x40x2.5	1414
448	204	200	-	-	S235	40x40x2.5	1000
449	205	201	-	-	S235	40x40x2.5	1000
450	205	202	-	-	S235	40x40x2.5	1414
451	206	202	-	-	S235	40x40x2.5	1000
452	204	203	-	-	S235	40x40x2.5	1000
453	205	206	-	-	S235	40x40x2.5	1000
454	207	203	-	-	S235	40x40x2.5	1000
455	207	204	-	-	S235	40x40x2.5	1414
456	208	204	-	-	S235	40x40x2.5	1000
457	209	205	-	-	S235	40x40x2.5	1000
458	210	205	-	-	S235	40x40x2.5	1414
459	210	206	-	-	S235	40x40x2.5	1000
460	208	207	-	-	S235	40x40x2.5	1000
461	209	210	-	-	S235	40x40x2.5	1000
462	211	207	-	-	S235	40x40x2.5	1000
463	212	207	-	-	S235	40x40x2.5	1414
464	212	208	-	-	S235	40x40x2.5	1000
465	213	209	-	-	S235	40x40x2.5	1000

466	213	210	-	-	S235	40x40x2.5	1414
467	214	210	-	-	S235	40x40x2.5	1000
468	211	212	-	-	S235	40x40x2.5	1000
469	214	213	-	-	S235	40x40x2.5	1000
470	215	211	-	-	S235	40x40x2.5	1000
471	216	211	-	-	S235	40x40x2.5	1414
472	216	212	-	-	S235	40x40x2.5	1000
473	217	213	-	-	S235	40x40x2.5	1000
474	217	214	-	-	S235	40x40x2.5	1414
475	218	214	-	-	S235	40x40x2.5	1000
476	216	215	-	-	S235	40x40x2.5	1000
477	217	218	-	-	S235	40x40x2.5	1000
478	219	215	-	-	S235	40x40x2.5	1000
479	219	216	-	-	S235	40x40x2.5	1414
480	220	216	-	-	S235	40x40x2.5	1000
481	221	217	-	-	S235	40x40x2.5	1000
482	222	217	-	-	S235	40x40x2.5	1414
483	222	218	-	-	S235	40x40x2.5	1000
484	220	219	-	-	S235	40x40x2.5	1000
485	221	222	-	-	S235	40x40x2.5	1000
486	223	219	-	-	S235	40x40x2.5	1000
487	224	219	-	-	S235	40x40x2.5	1414
488	224	220	-	-	S235	40x40x2.5	1000
489	225	221	-	-	S235	40x40x2.5	1000
490	225	222	-	-	S235	40x40x2.5	1414
491	226	222	-	-	S235	40x40x2.5	1000
492	223	224	-	-	S235	40x40x2.5	1000
493	226	225	-	-	S235	40x40x2.5	1000
494	227	223	-	-	S235	40x40x2.5	1000
495	228	223	-	-	S235	40x40x2.5	1414
496	228	224	-	-	S235	40x40x2.5	1000
497	229	225	-	-	S235	40x40x2.5	1000
498	229	226	-	-	S235	40x40x2.5	1414
499	230	226	-	-	S235	40x40x2.5	1000
500	228	227	-	-	S235	40x40x2.5	1000
501	229	230	-	-	S235	40x40x2.5	1000
502	231	227	-	-	S235	40x40x2.5	1000
503	231	228	-	-	S235	40x40x2.5	1414
504	232	228	-	-	S235	40x40x2.5	1000
505	233	229	-	-	S235	40x40x2.5	1000
506	234	229	-	-	S235	40x40x2.5	1414
507	234	230	-	-	S235	40x40x2.5	1000
508	232	231	-	-	S235	40x40x2.5	1000
509	233	234	-	-	S235	40x40x2.5	1000
510	235	231	-	-	S235	40x40x2.5	1000

511	236	231	-	-	S235	40x40x2.5	1414
512	236	232	-	-	S235	40x40x2.5	1000
513	237	233	-	-	S235	40x40x2.5	1000
514	237	234	-	-	S235	40x40x2.5	1414
515	238	234	-	-	S235	40x40x2.5	1000
516	235	236	-	-	S235	40x40x2.5	1000
517	238	237	-	-	S235	40x40x2.5	1000
518	239	235	-	-	S235	40x40x2.5	1000
519	240	235	-	-	S235	40x40x2.5	1414
520	240	236	-	-	S235	40x40x2.5	1000
521	241	237	-	-	S235	40x40x2.5	1000
522	241	238	-	-	S235	40x40x2.5	1414
523	242	238	-	-	S235	40x40x2.5	1000
524	240	239	-	-	S235	40x40x2.5	1000
525	241	242	-	-	S235	40x40x2.5	1000
526	243	239	-	-	S235	40x40x2.5	1000
527	243	240	-	-	S235	40x40x2.5	1414
528	244	240	-	-	S235	40x40x2.5	1000
529	245	241	-	-	S235	40x40x2.5	1000
530	246	241	-	-	S235	40x40x2.5	1414
531	246	242	-	-	S235	40x40x2.5	1000
532	244	243	-	-	S235	40x40x2.5	1000
533	245	246	-	-	S235	40x40x2.5	1000
534	247	243	-	-	S235	40x40x2.5	1000
535	248	243	-	-	S235	40x40x2.5	1414
536	248	244	-	-	S235	40x40x2.5	1000
537	249	245	-	-	S235	40x40x2.5	1000
538	249	246	-	-	S235	40x40x2.5	1414
539	250	246	-	-	S235	40x40x2.5	1000
540	247	248	-	-	S235	40x40x2.5	1000
541	250	249	-	-	S235	40x40x2.5	1000
542	251	253	-	-	S235	40x40x2.5	1000
543	252	254	-	-	S235	40x40x2.5	1000
544	163	255	-	-	S235	60x60x3	1333
545	163	256	-	-	S235	40x40x2.5	1667
546	164	256	-	-	S235	60x60x3	1333
547	165	257	-	-	S235	60x60x3	1333
548	166	257	-	-	S235	40x40x2.5	1667
549	166	258	-	-	S235	60x60x3	1333
550	175	259	-	-	S235	60x60x3	1333
551	175	260	-	-	S235	40x40x2.5	1667
552	176	260	-	-	S235	60x60x3	1333
553	177	261	-	-	S235	60x60x3	1333
554	178	261	-	-	S235	40x40x2.5	1667
555	178	262	-	-	S235	60x60x3	1333

556	187	263	-	-	S235	60x60x3	1333
557	187	264	-	-	S235	40x40x2.5	1667
558	188	264	-	-	S235	60x60x3	1333
559	189	265	-	-	S235	60x60x3	1333
560	190	265	-	-	S235	40x40x2.5	1667
561	190	266	-	-	S235	60x60x3	1333
562	199	267	-	-	S235	60x60x3	1333
563	199	268	-	-	S235	40x40x2.5	1667
564	200	268	-	-	S235	60x60x3	1333
565	201	269	-	-	S235	60x60x3	1333
566	202	269	-	-	S235	40x40x2.5	1667
567	202	270	-	-	S235	60x60x3	1333
568	211	271	-	-	S235	60x60x3	1333
569	211	272	-	-	S235	40x40x2.5	1667
570	212	272	-	-	S235	60x60x3	1333
571	213	273	-	-	S235	60x60x3	1333
572	214	273	-	-	S235	40x40x2.5	1667
573	214	274	-	-	S235	60x60x3	1333
574	223	275	-	-	S235	60x60x3	1333
575	223	276	-	-	S235	40x40x2.5	1667
576	224	276	-	-	S235	60x60x3	1333
577	225	277	-	-	S235	60x60x3	1333
578	226	277	-	-	S235	40x40x2.5	1667
579	226	278	-	-	S235	60x60x3	1333
580	235	279	-	-	S235	60x60x3	1333
581	235	280	-	-	S235	40x40x2.5	1667
582	236	280	-	-	S235	60x60x3	1333
583	237	281	-	-	S235	60x60x3	1333
584	238	281	-	-	S235	40x40x2.5	1667
585	238	282	-	-	S235	60x60x3	1333
586	247	283	-	-	S235	60x60x3	1333
587	247	284	-	-	S235	40x40x2.5	1667
588	248	284	-	-	S235	60x60x3	1333
589	249	285	-	-	S235	60x60x3	1333
590	250	285	-	-	S235	40x40x2.5	1667
591	250	286	-	-	S235	60x60x3	1333
592	287	251	-	-	S235	60x60x3	1067
593	288	252	-	-	S235	60x60x3	1067
594	253	287	-	-	S235	40x40x2.5	1462
595	254	288	-	-	S235	40x40x2.5	1462
596	289	253	-	-	S235	60x60x3	1067
597	290	254	-	-	S235	60x60x3	1067
598	255	256	-	-	S235	40x40x2.5	1000
599	258	257	-	-	S235	40x40x2.5	1000
602	259	260	-	-	S235	40x40x2.5	1000

603	262	261	-	-	S235	40x40x2.5	1000
604	263	264	-	-	S235	40x40x2.5	1000
605	266	265	-	-	S235	40x40x2.5	1000
606	267	268	-	-	S235	40x40x2.5	1000
607	270	269	-	-	S235	40x40x2.5	1000
608	271	272	-	-	S235	40x40x2.5	1000
609	274	273	-	-	S235	40x40x2.5	1000
610	275	276	-	-	S235	40x40x2.5	1000
611	278	277	-	-	S235	40x40x2.5	1000
612	279	280	-	-	S235	40x40x2.5	1000
613	282	281	-	-	S235	40x40x2.5	1000
616	283	284	-	-	S235	40x40x2.5	1000
617	286	285	-	-	S235	40x40x2.5	1000
618	287	289	-	-	S235	40x40x2.5	1000
619	288	290	-	-	S235	40x40x2.5	1000
620	255	291	-	-	S235	60x60x3	1333
621	256	291	-	-	S235	40x40x2.5	1667
622	256	292	-	-	S235	60x60x3	1333
623	257	308	-	-	S235	60x60x3	1333
624	257	309	-	-	S235	40x40x2.5	1667
625	258	309	-	-	S235	60x60x3	1333
626	259	333	-	-	S235	60x60x3	1333
627	260	333	-	-	S235	40x40x2.5	1667
628	260	334	-	-	S235	60x60x3	1333
629	261	335	-	-	S235	60x60x3	1333
630	261	336	-	-	S235	40x40x2.5	1667
631	262	336	-	-	S235	60x60x3	1333
632	263	345	-	-	S235	60x60x3	1333
633	264	345	-	-	S235	40x40x2.5	1667
634	264	346	-	-	S235	60x60x3	1333
635	265	347	-	-	S235	60x60x3	1333
636	265	348	-	-	S235	40x40x2.5	1667
637	266	348	-	-	S235	60x60x3	1333
638	267	357	-	-	S235	60x60x3	1333
639	268	357	-	-	S235	40x40x2.5	1667
640	268	358	-	-	S235	60x60x3	1333
641	269	359	-	-	S235	60x60x3	1333
642	269	360	-	-	S235	40x40x2.5	1667
643	270	360	-	-	S235	60x60x3	1333
644	271	369	-	-	S235	60x60x3	1333
645	272	369	-	-	S235	40x40x2.5	1667
646	272	370	-	-	S235	60x60x3	1333
647	273	371	-	-	S235	60x60x3	1333
648	273	372	-	-	S235	40x40x2.5	1667
649	274	372	-	-	S235	60x60x3	1333

650	275	381	-	-	S235	60x60x3	1333
651	276	381	-	-	S235	40x40x2.5	1667
652	276	382	-	-	S235	60x60x3	1333
653	277	383	-	-	S235	60x60x3	1333
654	277	384	-	-	S235	40x40x2.5	1667
655	278	384	-	-	S235	60x60x3	1333
656	279	393	-	-	S235	60x60x3	1333
657	280	393	-	-	S235	40x40x2.5	1667
658	280	394	-	-	S235	60x60x3	1333
659	281	395	-	-	S235	60x60x3	1333
660	281	396	-	-	S235	40x40x2.5	1667
661	282	396	-	-	S235	60x60x3	1333
662	283	405	-	-	S235	60x60x3	1333
663	284	405	-	-	S235	40x40x2.5	1667
664	284	406	-	-	S235	60x60x3	1333
665	285	407	-	-	S235	60x60x3	1333
666	285	408	-	-	S235	40x40x2.5	1667
667	286	408	-	-	S235	60x60x3	1333
668	297	287	-	-	S235	60x60x3	1067
669	303	288	-	-	S235	60x60x3	1067
670	287	316	-	-	S235	40x40x2.5	1462
671	288	322	-	-	S235	40x40x2.5	1462
672	316	289	-	-	S235	60x60x3	1067
673	322	290	-	-	S235	60x60x3	1067
674	291	292	-	-	S235	40x40x2.5	1000
675	292	293	-	-	S235	60x60x3	987.7
676	293	294	-	-	S235	60x60x3	987.7
677	294	295	-	-	S235	60x60x3	987.7
678	295	296	-	-	S235	60x60x3	987.7
679	296	297	-	-	S235	60x60x3	987.7
680	297	298	-	-	S235	60x60x3	1020
681	298	299	-	-	S235	60x60x3	1020
682	299	300	-	-	S235	60x60x3	1020
683	300	301	-	-	S235	60x60x3	1020
684	301	302	-	-	S235	60x60x3	1020
685	302	303	-	-	S235	60x60x3	1020
686	303	304	-	-	S235	60x60x3	987.7
687	304	305	-	-	S235	60x60x3	987.7
688	305	306	-	-	S235	60x60x3	987.7
689	306	307	-	-	S235	60x60x3	987.7
690	307	308	-	-	S235	60x60x3	987.7
691	309	308	-	-	S235	40x40x2.5	1000
692	310	291	-	-	S235	40x40x2.5	1000
693	311	291	-	-	S235	40x40x2.5	1414
694	311	292	-	-	S235	40x40x2.5	1000

695	311	293	-	-	S235	40x40x2.5	1406
696	293	312	-	-	S235	40x40x2.5	1000
697	293	313	-	-	S235	40x40x2.5	1406
698	294	313	-	-	S235	40x40x2.5	1000
699	313	295	-	-	S235	40x40x2.5	1406
700	295	314	-	-	S235	40x40x2.5	1000
701	295	315	-	-	S235	40x40x2.5	1406
702	296	315	-	-	S235	40x40x2.5	1000
703	315	297	-	-	S235	40x40x2.5	1406
704	297	316	-	-	S235	40x40x2.5	1000
705	297	317	-	-	S235	40x40x2.5	1429
706	298	317	-	-	S235	40x40x2.5	1000
707	317	299	-	-	S235	40x40x2.5	1429
708	299	318	-	-	S235	40x40x2.5	1000
709	299	319	-	-	S235	40x40x2.5	1429
710	300	319	-	-	S235	40x40x2.5	1000
711	319	301	-	-	S235	40x40x2.5	1429
712	301	320	-	-	S235	40x40x2.5	1000
713	301	321	-	-	S235	40x40x2.5	1429
714	302	321	-	-	S235	40x40x2.5	1000
715	321	303	-	-	S235	40x40x2.5	1429
716	303	322	-	-	S235	40x40x2.5	1000
717	303	323	-	-	S235	40x40x2.5	1406
718	304	323	-	-	S235	40x40x2.5	1000
719	323	305	-	-	S235	40x40x2.5	1406
720	305	324	-	-	S235	40x40x2.5	1000
721	305	325	-	-	S235	40x40x2.5	1406
722	306	325	-	-	S235	40x40x2.5	1000
723	325	307	-	-	S235	40x40x2.5	1406
724	307	326	-	-	S235	40x40x2.5	1000
725	307	327	-	-	S235	40x40x2.5	1406
726	327	308	-	-	S235	40x40x2.5	1000
727	327	309	-	-	S235	40x40x2.5	1414
728	328	309	-	-	S235	40x40x2.5	1000
729	311	310	-	-	S235	40x40x2.5	1000
730	311	312	-	-	S235	60x60x3	987.7
731	312	313	-	-	S235	60x60x3	987.7
732	313	314	-	-	S235	60x60x3	987.7
733	314	315	-	-	S235	60x60x3	987.7
734	315	316	-	-	S235	60x60x3	987.7
735	316	317	-	-	S235	60x60x3	1020
736	317	318	-	-	S235	60x60x3	1020
737	318	319	-	-	S235	60x60x3	1020
738	319	320	-	-	S235	60x60x3	1020
739	320	321	-	-	S235	60x60x3	1020

740	321	322	-	-	S235	60x60x3	1020
741	322	323	-	-	S235	60x60x3	987.7
742	323	324	-	-	S235	60x60x3	987.7
743	324	325	-	-	S235	60x60x3	987.7
744	325	326	-	-	S235	60x60x3	987.7
745	326	327	-	-	S235	60x60x3	987.7
746	327	328	-	-	S235	40x40x2.5	1000
747	329	310	-	-	S235	40x40x2.5	1000
748	329	311	-	-	S235	40x40x2.5	1414
749	330	311	-	-	S235	40x40x2.5	1000
750	331	327	-	-	S235	40x40x2.5	1000
751	332	327	-	-	S235	40x40x2.5	1414
752	332	328	-	-	S235	40x40x2.5	1000
753	330	329	-	-	S235	40x40x2.5	1000
754	331	332	-	-	S235	40x40x2.5	1000
755	333	329	-	-	S235	40x40x2.5	1000
756	334	329	-	-	S235	40x40x2.5	1414
757	334	330	-	-	S235	40x40x2.5	1000
758	335	331	-	-	S235	40x40x2.5	1000
759	335	332	-	-	S235	40x40x2.5	1414
760	336	332	-	-	S235	40x40x2.5	1000
761	333	334	-	-	S235	40x40x2.5	1000
762	336	335	-	-	S235	40x40x2.5	1000
763	337	333	-	-	S235	40x40x2.5	1000
764	338	333	-	-	S235	40x40x2.5	1414
765	338	334	-	-	S235	40x40x2.5	1000
766	339	335	-	-	S235	40x40x2.5	1000
767	339	336	-	-	S235	40x40x2.5	1414
768	340	336	-	-	S235	40x40x2.5	1000
769	338	337	-	-	S235	40x40x2.5	1000
770	339	340	-	-	S235	40x40x2.5	1000
771	341	337	-	-	S235	40x40x2.5	1000
772	341	338	-	-	S235	40x40x2.5	1414
773	342	338	-	-	S235	40x40x2.5	1000
774	343	339	-	-	S235	40x40x2.5	1000
775	344	339	-	-	S235	40x40x2.5	1414
776	344	340	-	-	S235	40x40x2.5	1000
777	342	341	-	-	S235	40x40x2.5	1000
778	343	344	-	-	S235	40x40x2.5	1000
779	345	341	-	-	S235	40x40x2.5	1000
780	346	341	-	-	S235	40x40x2.5	1414
781	346	342	-	-	S235	40x40x2.5	1000
782	347	343	-	-	S235	40x40x2.5	1000
783	347	344	-	-	S235	40x40x2.5	1414
784	348	344	-	-	S235	40x40x2.5	1000

785	345	346	-	-	S235	40x40x2.5	1000
786	348	347	-	-	S235	40x40x2.5	1000
787	349	345	-	-	S235	40x40x2.5	1000
788	350	345	-	-	S235	40x40x2.5	1414
789	350	346	-	-	S235	40x40x2.5	1000
790	351	347	-	-	S235	40x40x2.5	1000
791	351	348	-	-	S235	40x40x2.5	1414
792	352	348	-	-	S235	40x40x2.5	1000
793	350	349	-	-	S235	40x40x2.5	1000
794	351	352	-	-	S235	40x40x2.5	1000
795	353	349	-	-	S235	40x40x2.5	1000
796	353	350	-	-	S235	40x40x2.5	1414
797	354	350	-	-	S235	40x40x2.5	1000
798	355	351	-	-	S235	40x40x2.5	1000
799	356	351	-	-	S235	40x40x2.5	1414
800	356	352	-	-	S235	40x40x2.5	1000
801	354	353	-	-	S235	40x40x2.5	1000
802	355	356	-	-	S235	40x40x2.5	1000
803	357	353	-	-	S235	40x40x2.5	1000
804	358	353	-	-	S235	40x40x2.5	1414
805	358	354	-	-	S235	40x40x2.5	1000
806	359	355	-	-	S235	40x40x2.5	1000
807	359	356	-	-	S235	40x40x2.5	1414
808	360	356	-	-	S235	40x40x2.5	1000
809	357	358	-	-	S235	40x40x2.5	1000
810	360	359	-	-	S235	40x40x2.5	1000
811	361	357	-	-	S235	40x40x2.5	1000
812	362	357	-	-	S235	40x40x2.5	1414
813	362	358	-	-	S235	40x40x2.5	1000
814	363	359	-	-	S235	40x40x2.5	1000
815	363	360	-	-	S235	40x40x2.5	1414
816	364	360	-	-	S235	40x40x2.5	1000
817	362	361	-	-	S235	40x40x2.5	1000
818	363	364	-	-	S235	40x40x2.5	1000
819	365	361	-	-	S235	40x40x2.5	1000
820	365	362	-	-	S235	40x40x2.5	1414
821	366	362	-	-	S235	40x40x2.5	1000
822	367	363	-	-	S235	40x40x2.5	1000
823	368	363	-	-	S235	40x40x2.5	1414
824	368	364	-	-	S235	40x40x2.5	1000
825	366	365	-	-	S235	40x40x2.5	1000
826	367	368	-	-	S235	40x40x2.5	1000
827	369	365	-	-	S235	40x40x2.5	1000
828	370	365	-	-	S235	40x40x2.5	1414
829	370	366	-	-	S235	40x40x2.5	1000

830	371	367	-	-	S235	40x40x2.5	1000
831	371	368	-	-	S235	40x40x2.5	1414
832	372	368	-	-	S235	40x40x2.5	1000
833	369	370	-	-	S235	40x40x2.5	1000
834	372	371	-	-	S235	40x40x2.5	1000
835	373	369	-	-	S235	40x40x2.5	1000
836	374	369	-	-	S235	40x40x2.5	1414
837	374	370	-	-	S235	40x40x2.5	1000
838	375	371	-	-	S235	40x40x2.5	1000
839	375	372	-	-	S235	40x40x2.5	1414
840	376	372	-	-	S235	40x40x2.5	1000
841	374	373	-	-	S235	40x40x2.5	1000
842	375	376	-	-	S235	40x40x2.5	1000
843	377	373	-	-	S235	40x40x2.5	1000
844	377	374	-	-	S235	40x40x2.5	1414
845	378	374	-	-	S235	40x40x2.5	1000
846	379	375	-	-	S235	40x40x2.5	1000
847	380	375	-	-	S235	40x40x2.5	1414
848	380	376	-	-	S235	40x40x2.5	1000
849	378	377	-	-	S235	40x40x2.5	1000
850	379	380	-	-	S235	40x40x2.5	1000
851	381	377	-	-	S235	40x40x2.5	1000
852	382	377	-	-	S235	40x40x2.5	1414
853	382	378	-	-	S235	40x40x2.5	1000
854	383	379	-	-	S235	40x40x2.5	1000
855	383	380	-	-	S235	40x40x2.5	1414
856	384	380	-	-	S235	40x40x2.5	1000
857	381	382	-	-	S235	40x40x2.5	1000
858	384	383	-	-	S235	40x40x2.5	1000
859	385	381	-	-	S235	40x40x2.5	1000
860	386	381	-	-	S235	40x40x2.5	1414
861	386	382	-	-	S235	40x40x2.5	1000
862	387	383	-	-	S235	40x40x2.5	1000
863	387	384	-	-	S235	40x40x2.5	1414
864	388	384	-	-	S235	40x40x2.5	1000
865	386	385	-	-	S235	40x40x2.5	1000
866	387	388	-	-	S235	40x40x2.5	1000
867	389	385	-	-	S235	40x40x2.5	1000
868	389	386	-	-	S235	40x40x2.5	1414
869	390	386	-	-	S235	40x40x2.5	1000
870	391	387	-	-	S235	40x40x2.5	1000
871	392	387	-	-	S235	40x40x2.5	1414
872	392	388	-	-	S235	40x40x2.5	1000
873	390	389	-	-	S235	40x40x2.5	1000
874	391	392	-	-	S235	40x40x2.5	1000

875	393	389	-	-	S235	40x40x2.5	1000
876	394	389	-	-	S235	40x40x2.5	1414
877	394	390	-	-	S235	40x40x2.5	1000
878	395	391	-	-	S235	40x40x2.5	1000
879	395	392	-	-	S235	40x40x2.5	1414
880	396	392	-	-	S235	40x40x2.5	1000
881	393	394	-	-	S235	40x40x2.5	1000
882	396	395	-	-	S235	40x40x2.5	1000
883	397	393	-	-	S235	40x40x2.5	1000
884	398	393	-	-	S235	40x40x2.5	1414
885	398	394	-	-	S235	40x40x2.5	1000
886	399	395	-	-	S235	40x40x2.5	1000
887	399	396	-	-	S235	40x40x2.5	1414
888	400	396	-	-	S235	40x40x2.5	1000
889	398	397	-	-	S235	40x40x2.5	1000
890	399	400	-	-	S235	40x40x2.5	1000
891	401	397	-	-	S235	40x40x2.5	1000
892	401	398	-	-	S235	40x40x2.5	1414
893	402	398	-	-	S235	40x40x2.5	1000
894	403	399	-	-	S235	40x40x2.5	1000
895	404	399	-	-	S235	40x40x2.5	1414
896	404	400	-	-	S235	40x40x2.5	1000
897	402	401	-	-	S235	40x40x2.5	1000
898	403	404	-	-	S235	40x40x2.5	1000
899	405	401	-	-	S235	40x40x2.5	1000
900	406	401	-	-	S235	40x40x2.5	1414
901	406	402	-	-	S235	40x40x2.5	1000
902	407	403	-	-	S235	40x40x2.5	1000
903	407	404	-	-	S235	40x40x2.5	1414
904	408	404	-	-	S235	40x40x2.5	1000
905	405	406	-	-	S235	40x40x2.5	1000
906	408	407	-	-	S235	40x40x2.5	1000
907	409	297	-	-	S235	60x60x3	1146
908	410	303	-	-	S235	60x60x3	1146
909	316	409	-	-	S235	40x40x2.5	1521
910	322	410	-	-	S235	40x40x2.5	1521
911	411	316	-	-	S235	60x60x3	1146
912	412	322	-	-	S235	60x60x3	1146
913	291	413	-	-	S235	60x60x3	1333
914	291	414	-	-	S235	40x40x2.5	1667
915	292	414	-	-	S235	60x60x3	1333
916	308	415	-	-	S235	60x60x3	1333
917	309	415	-	-	S235	40x40x2.5	1667
918	309	416	-	-	S235	60x60x3	1333
919	333	417	-	-	S235	60x60x3	1333

920	333	418	-	-	S235	40x40x2.5	1667
921	334	418	-	-	S235	60x60x3	1333
922	335	419	-	-	S235	60x60x3	1333
923	336	419	-	-	S235	40x40x2.5	1667
924	336	420	-	-	S235	60x60x3	1333
925	345	421	-	-	S235	60x60x3	1333
926	345	422	-	-	S235	40x40x2.5	1667
927	346	422	-	-	S235	60x60x3	1333
928	347	423	-	-	S235	60x60x3	1333
929	348	423	-	-	S235	40x40x2.5	1667
930	348	424	-	-	S235	60x60x3	1333
931	357	425	-	-	S235	60x60x3	1333
932	357	426	-	-	S235	40x40x2.5	1667
933	358	426	-	-	S235	60x60x3	1333
934	359	427	-	-	S235	60x60x3	1333
935	360	427	-	-	S235	40x40x2.5	1667
936	360	428	-	-	S235	60x60x3	1333
937	369	429	-	-	S235	60x60x3	1333
938	369	430	-	-	S235	40x40x2.5	1667
939	370	430	-	-	S235	60x60x3	1333
940	371	431	-	-	S235	60x60x3	1333
941	372	431	-	-	S235	40x40x2.5	1667
942	372	432	-	-	S235	60x60x3	1333
943	381	433	-	-	S235	60x60x3	1333
944	381	434	-	-	S235	40x40x2.5	1667
945	382	434	-	-	S235	60x60x3	1333
946	383	435	-	-	S235	60x60x3	1333
947	384	435	-	-	S235	40x40x2.5	1667
948	384	436	-	-	S235	60x60x3	1333
949	393	437	-	-	S235	60x60x3	1333
950	393	438	-	-	S235	40x40x2.5	1667
951	394	438	-	-	S235	60x60x3	1333
952	395	439	-	-	S235	60x60x3	1333
953	396	439	-	-	S235	40x40x2.5	1667
954	396	440	-	-	S235	60x60x3	1333
955	405	441	-	-	S235	60x60x3	1333
956	405	442	-	-	S235	40x40x2.5	1667
957	406	442	-	-	S235	60x60x3	1333
958	407	443	-	-	S235	60x60x3	1333
959	408	443	-	-	S235	40x40x2.5	1667
960	408	444	-	-	S235	60x60x3	1333
961	409	411	-	-	S235	40x40x2.5	1000
962	410	412	-	-	S235	40x40x2.5	1000
963	413	414	-	-	S235	40x40x2.5	1000
964	416	415	-	-	S235	40x40x2.5	1000

967	417	418	-	-	S235	40x40x2.5	1000
968	420	419	-	-	S235	40x40x2.5	1000
969	421	422	-	-	S235	40x40x2.5	1000
970	424	423	-	-	S235	40x40x2.5	1000
971	425	426	-	-	S235	40x40x2.5	1000
972	428	427	-	-	S235	40x40x2.5	1000
973	429	430	-	-	S235	40x40x2.5	1000
974	432	431	-	-	S235	40x40x2.5	1000
975	433	434	-	-	S235	40x40x2.5	1000
976	436	435	-	-	S235	40x40x2.5	1000
977	437	438	-	-	S235	40x40x2.5	1000
978	440	439	-	-	S235	40x40x2.5	1000
981	441	442	-	-	S235	40x40x2.5	1000
982	444	443	-	-	S235	40x40x2.5	1000
983	445	409	-	-	S235	60x60x3	1146
984	446	410	-	-	S235	60x60x3	1146
985	409	447	-	-	S235	40x40x2.5	1521
986	410	448	-	-	S235	40x40x2.5	1521
987	447	411	-	-	S235	60x60x3	1146
988	448	412	-	-	S235	60x60x3	1146
989	413	449	-	-	S235	60x60x3	1333
990	414	449	-	-	S235	40x40x2.5	1667
991	414	450	-	-	S235	60x60x3	1333
992	415	451	-	-	S235	60x60x3	1333
993	415	452	-	-	S235	40x40x2.5	1667
994	416	452	-	-	S235	60x60x3	1333
995	417	461	-	-	S235	60x60x3	1333
996	418	461	-	-	S235	40x40x2.5	1667
997	418	462	-	-	S235	60x60x3	1333
998	419	463	-	-	S235	60x60x3	1333
999	419	464	-	-	S235	40x40x2.5	1667
1000	420	464	-	-	S235	60x60x3	1333
1001	421	473	-	-	S235	60x60x3	1333
1002	422	473	-	-	S235	40x40x2.5	1667
1003	422	474	-	-	S235	60x60x3	1333
1004	423	475	-	-	S235	60x60x3	1333
1005	423	476	-	-	S235	40x40x2.5	1667
1006	424	476	-	-	S235	60x60x3	1333
1007	425	485	-	-	S235	60x60x3	1333
1008	426	485	-	-	S235	40x40x2.5	1667
1009	426	486	-	-	S235	60x60x3	1333
1010	427	487	-	-	S235	60x60x3	1333
1011	427	488	-	-	S235	40x40x2.5	1667
1012	428	488	-	-	S235	60x60x3	1333
1013	429	497	-	-	S235	60x60x3	1333

1014	430	497	-	-	S235	40x40x2.5	1667
1015	430	498	-	-	S235	60x60x3	1333
1016	431	499	-	-	S235	60x60x3	1333
1017	431	500	-	-	S235	40x40x2.5	1667
1018	432	500	-	-	S235	60x60x3	1333
1019	433	509	-	-	S235	60x60x3	1333
1020	434	509	-	-	S235	40x40x2.5	1667
1021	434	510	-	-	S235	60x60x3	1333
1022	435	511	-	-	S235	60x60x3	1333
1023	435	512	-	-	S235	40x40x2.5	1667
1024	436	512	-	-	S235	60x60x3	1333
1025	437	521	-	-	S235	60x60x3	1333
1026	438	521	-	-	S235	40x40x2.5	1667
1027	438	522	-	-	S235	60x60x3	1333
1028	439	523	-	-	S235	60x60x3	1333
1029	439	524	-	-	S235	40x40x2.5	1667
1030	440	524	-	-	S235	60x60x3	1333
1031	441	533	-	-	S235	60x60x3	1333
1032	442	533	-	-	S235	40x40x2.5	1667
1033	442	534	-	-	S235	60x60x3	1333
1034	443	535	-	-	S235	60x60x3	1333
1035	443	536	-	-	S235	40x40x2.5	1667
1036	444	536	-	-	S235	60x60x3	1333
1037	445	447	-	-	S235	40x40x2.5	1000
1038	446	448	-	-	S235	40x40x2.5	1000
1039	449	450	-	-	S235	40x40x2.5	1000
1040	452	451	-	-	S235	40x40x2.5	1000
1041	453	449	-	-	S235	40x40x2.5	1000
1042	454	449	-	-	S235	40x40x2.5	1414
1043	454	450	-	-	S235	40x40x2.5	1000
1044	455	451	-	-	S235	40x40x2.5	1000
1045	455	452	-	-	S235	40x40x2.5	1414
1046	456	452	-	-	S235	40x40x2.5	1000
1047	454	453	-	-	S235	40x40x2.5	1000
1048	455	456	-	-	S235	40x40x2.5	1000
1049	457	453	-	-	S235	40x40x2.5	1000
1050	457	454	-	-	S235	40x40x2.5	1414
1051	458	454	-	-	S235	40x40x2.5	1000
1052	459	455	-	-	S235	40x40x2.5	1000
1053	460	455	-	-	S235	40x40x2.5	1414
1054	460	456	-	-	S235	40x40x2.5	1000
1055	458	457	-	-	S235	40x40x2.5	1000
1056	459	460	-	-	S235	40x40x2.5	1000
1057	461	457	-	-	S235	40x40x2.5	1000
1058	462	457	-	-	S235	40x40x2.5	1414

1059	462	458	-	-	S235	40x40x2.5	1000
1060	463	459	-	-	S235	40x40x2.5	1000
1061	463	460	-	-	S235	40x40x2.5	1414
1062	464	460	-	-	S235	40x40x2.5	1000
1063	461	462	-	-	S235	40x40x2.5	1000
1064	464	463	-	-	S235	40x40x2.5	1000
1065	465	461	-	-	S235	40x40x2.5	1000
1066	466	461	-	-	S235	40x40x2.5	1414
1067	466	462	-	-	S235	40x40x2.5	1000
1068	467	463	-	-	S235	40x40x2.5	1000
1069	467	464	-	-	S235	40x40x2.5	1414
1070	468	464	-	-	S235	40x40x2.5	1000
1071	466	465	-	-	S235	40x40x2.5	1000
1072	467	468	-	-	S235	40x40x2.5	1000
1073	469	465	-	-	S235	40x40x2.5	1000
1074	469	466	-	-	S235	40x40x2.5	1414
1075	470	466	-	-	S235	40x40x2.5	1000
1076	471	467	-	-	S235	40x40x2.5	1000
1077	472	467	-	-	S235	40x40x2.5	1414
1078	472	468	-	-	S235	40x40x2.5	1000
1079	470	469	-	-	S235	40x40x2.5	1000
1080	471	472	-	-	S235	40x40x2.5	1000
1081	473	469	-	-	S235	40x40x2.5	1000
1082	474	469	-	-	S235	40x40x2.5	1414
1083	474	470	-	-	S235	40x40x2.5	1000
1084	475	471	-	-	S235	40x40x2.5	1000
1085	475	472	-	-	S235	40x40x2.5	1414
1086	476	472	-	-	S235	40x40x2.5	1000
1087	473	474	-	-	S235	40x40x2.5	1000
1088	476	475	-	-	S235	40x40x2.5	1000
1089	477	473	-	-	S235	40x40x2.5	1000
1090	478	473	-	-	S235	40x40x2.5	1414
1091	478	474	-	-	S235	40x40x2.5	1000
1092	479	475	-	-	S235	40x40x2.5	1000
1093	479	476	-	-	S235	40x40x2.5	1414
1094	480	476	-	-	S235	40x40x2.5	1000
1095	478	477	-	-	S235	40x40x2.5	1000
1096	479	480	-	-	S235	40x40x2.5	1000
1097	481	477	-	-	S235	40x40x2.5	1000
1098	481	478	-	-	S235	40x40x2.5	1414
1099	482	478	-	-	S235	40x40x2.5	1000
1100	483	479	-	-	S235	40x40x2.5	1000
1101	484	479	-	-	S235	40x40x2.5	1414
1102	484	480	-	-	S235	40x40x2.5	1000
1103	482	481	-	-	S235	40x40x2.5	1000

1104	483	484	-	-	S235	40x40x2.5	1000
1105	485	481	-	-	S235	40x40x2.5	1000
1106	486	481	-	-	S235	40x40x2.5	1414
1107	486	482	-	-	S235	40x40x2.5	1000
1108	487	483	-	-	S235	40x40x2.5	1000
1109	487	484	-	-	S235	40x40x2.5	1414
1110	488	484	-	-	S235	40x40x2.5	1000
1111	485	486	-	-	S235	40x40x2.5	1000
1112	488	487	-	-	S235	40x40x2.5	1000
1113	489	485	-	-	S235	40x40x2.5	1000
1114	490	485	-	-	S235	40x40x2.5	1414
1115	490	486	-	-	S235	40x40x2.5	1000
1116	491	487	-	-	S235	40x40x2.5	1000
1117	491	488	-	-	S235	40x40x2.5	1414
1118	492	488	-	-	S235	40x40x2.5	1000
1119	490	489	-	-	S235	40x40x2.5	1000
1120	491	492	-	-	S235	40x40x2.5	1000
1121	493	489	-	-	S235	40x40x2.5	1000
1122	493	490	-	-	S235	40x40x2.5	1414
1123	494	490	-	-	S235	40x40x2.5	1000
1124	495	491	-	-	S235	40x40x2.5	1000
1125	496	491	-	-	S235	40x40x2.5	1414
1126	496	492	-	-	S235	40x40x2.5	1000
1127	494	493	-	-	S235	40x40x2.5	1000
1128	495	496	-	-	S235	40x40x2.5	1000
1129	497	493	-	-	S235	40x40x2.5	1000
1130	498	493	-	-	S235	40x40x2.5	1414
1131	498	494	-	-	S235	40x40x2.5	1000
1132	499	495	-	-	S235	40x40x2.5	1000
1133	499	496	-	-	S235	40x40x2.5	1414
1134	500	496	-	-	S235	40x40x2.5	1000
1135	497	498	-	-	S235	40x40x2.5	1000
1136	500	499	-	-	S235	40x40x2.5	1000
1137	501	497	-	-	S235	40x40x2.5	1000
1138	502	497	-	-	S235	40x40x2.5	1414
1139	502	498	-	-	S235	40x40x2.5	1000
1140	503	499	-	-	S235	40x40x2.5	1000
1141	503	500	-	-	S235	40x40x2.5	1414
1142	504	500	-	-	S235	40x40x2.5	1000
1143	502	501	-	-	S235	40x40x2.5	1000
1144	503	504	-	-	S235	40x40x2.5	1000
1145	505	501	-	-	S235	40x40x2.5	1000
1146	505	502	-	-	S235	40x40x2.5	1414
1147	506	502	-	-	S235	40x40x2.5	1000
1148	507	503	-	-	S235	40x40x2.5	1000

1149	508	503	-	-	S235	40x40x2.5	1414
1150	508	504	-	-	S235	40x40x2.5	1000
1151	506	505	-	-	S235	40x40x2.5	1000
1152	507	508	-	-	S235	40x40x2.5	1000
1153	509	505	-	-	S235	40x40x2.5	1000
1154	510	505	-	-	S235	40x40x2.5	1414
1155	510	506	-	-	S235	40x40x2.5	1000
1156	511	507	-	-	S235	40x40x2.5	1000
1157	511	508	-	-	S235	40x40x2.5	1414
1158	512	508	-	-	S235	40x40x2.5	1000
1159	509	510	-	-	S235	40x40x2.5	1000
1160	512	511	-	-	S235	40x40x2.5	1000
1161	513	509	-	-	S235	40x40x2.5	1000
1162	514	509	-	-	S235	40x40x2.5	1414
1163	514	510	-	-	S235	40x40x2.5	1000
1164	515	511	-	-	S235	40x40x2.5	1000
1165	515	512	-	-	S235	40x40x2.5	1414
1166	516	512	-	-	S235	40x40x2.5	1000
1167	514	513	-	-	S235	40x40x2.5	1000
1168	515	516	-	-	S235	40x40x2.5	1000
1169	517	513	-	-	S235	40x40x2.5	1000
1170	517	514	-	-	S235	40x40x2.5	1414
1171	518	514	-	-	S235	40x40x2.5	1000
1172	519	515	-	-	S235	40x40x2.5	1000
1173	520	515	-	-	S235	40x40x2.5	1414
1174	520	516	-	-	S235	40x40x2.5	1000
1175	518	517	-	-	S235	40x40x2.5	1000
1176	519	520	-	-	S235	40x40x2.5	1000
1177	521	517	-	-	S235	40x40x2.5	1000
1178	522	517	-	-	S235	40x40x2.5	1414
1179	522	518	-	-	S235	40x40x2.5	1000
1180	523	519	-	-	S235	40x40x2.5	1000
1181	523	520	-	-	S235	40x40x2.5	1414
1182	524	520	-	-	S235	40x40x2.5	1000
1183	521	522	-	-	S235	40x40x2.5	1000
1184	524	523	-	-	S235	40x40x2.5	1000
1185	525	521	-	-	S235	40x40x2.5	1000
1186	526	521	-	-	S235	40x40x2.5	1414
1187	526	522	-	-	S235	40x40x2.5	1000
1188	527	523	-	-	S235	40x40x2.5	1000
1189	527	524	-	-	S235	40x40x2.5	1414
1190	528	524	-	-	S235	40x40x2.5	1000
1191	526	525	-	-	S235	40x40x2.5	1000
1192	527	528	-	-	S235	40x40x2.5	1000
1193	529	525	-	-	S235	40x40x2.5	1000

1194	529	526	-	-	S235	40x40x2.5	1414
1195	530	526	-	-	S235	40x40x2.5	1000
1196	531	527	-	-	S235	40x40x2.5	1000
1197	532	527	-	-	S235	40x40x2.5	1414
1198	532	528	-	-	S235	40x40x2.5	1000
1199	530	529	-	-	S235	40x40x2.5	1000
1200	531	532	-	-	S235	40x40x2.5	1000
1201	533	529	-	-	S235	40x40x2.5	1000
1202	534	529	-	-	S235	40x40x2.5	1414
1203	534	530	-	-	S235	40x40x2.5	1000
1204	535	531	-	-	S235	40x40x2.5	1000
1205	535	532	-	-	S235	40x40x2.5	1414
1206	536	532	-	-	S235	40x40x2.5	1000
1207	533	534	-	-	S235	40x40x2.5	1000
1208	536	535	-	-	S235	40x40x2.5	1000
1209	537	445	-	-	S235	60x60x3	1146
1210	538	446	-	-	S235	60x60x3	1146
1211	447	537	-	-	S235	40x40x2.5	1521
1212	448	538	-	-	S235	40x40x2.5	1521
1213	539	447	-	-	S235	60x60x3	1146
1214	540	448	-	-	S235	60x60x3	1146
1215	537	539	-	-	S235	40x40x2.5	1000
1216	538	540	-	-	S235	40x40x2.5	1000
1217	449	541	-	-	S235	40x40x2.5	1941
1218	450	541	-	-	S235	60x60x3	1568
1219	542	451	-	-	S235	60x60x3	1568
1220	542	452	-	-	S235	40x40x2.5	1941
1221	461	543	-	-	S235	40x40x2.5	1941
1222	462	543	-	-	S235	60x60x3	1568
1223	544	463	-	-	S235	60x60x3	1568
1224	544	464	-	-	S235	40x40x2.5	1941
1225	473	545	-	-	S235	40x40x2.5	1941
1226	474	545	-	-	S235	60x60x3	1568
1227	546	475	-	-	S235	60x60x3	1568
1228	546	476	-	-	S235	40x40x2.5	1941
1229	485	547	-	-	S235	40x40x2.5	1941
1230	486	547	-	-	S235	60x60x3	1568
1231	548	487	-	-	S235	60x60x3	1568
1232	548	488	-	-	S235	40x40x2.5	1941
1233	497	549	-	-	S235	40x40x2.5	1941
1234	498	549	-	-	S235	60x60x3	1568
1235	550	499	-	-	S235	60x60x3	1568
1236	550	500	-	-	S235	40x40x2.5	1941
1237	509	551	-	-	S235	40x40x2.5	1941
1238	510	551	-	-	S235	60x60x3	1568

1239	552	511	-	-	S235	60x60x3	1568
1240	552	512	-	-	S235	40x40x2.5	1941
1241	521	553	-	-	S235	40x40x2.5	1941
1242	522	553	-	-	S235	60x60x3	1568
1243	554	523	-	-	S235	60x60x3	1568
1244	554	524	-	-	S235	40x40x2.5	1941
1245	533	555	-	-	S235	40x40x2.5	1941
1246	534	555	-	-	S235	60x60x3	1568
1247	556	535	-	-	S235	60x60x3	1568
1248	556	536	-	-	S235	40x40x2.5	1941
1249	449	557	-	-	S235	60x60x3	1764
1250	558	452	-	-	S235	60x60x3	1764
1251	461	559	-	-	S235	60x60x3	1764
1252	560	464	-	-	S235	60x60x3	1764
1253	473	561	-	-	S235	60x60x3	1764
1254	562	476	-	-	S235	60x60x3	1764
1255	485	563	-	-	S235	60x60x3	1764
1256	564	488	-	-	S235	60x60x3	1764
1257	497	565	-	-	S235	60x60x3	1764
1258	566	500	-	-	S235	60x60x3	1764
1259	509	567	-	-	S235	60x60x3	1764
1260	568	512	-	-	S235	60x60x3	1764
1261	521	569	-	-	S235	60x60x3	1764
1262	570	524	-	-	S235	60x60x3	1764
1263	533	571	-	-	S235	60x60x3	1764
1264	572	536	-	-	S235	60x60x3	1764
1265	573	537	-	-	S235	60x60x3	1146
1266	574	538	-	-	S235	60x60x3	1146
1267	537	575	-	-	S235	40x40x2.5	1521
1268	538	576	-	-	S235	40x40x2.5	1521
1269	575	539	-	-	S235	60x60x3	1146
1270	576	540	-	-	S235	60x60x3	1146
1271	541	557	-	-	S235	40x40x2.5	1000
1272	542	558	-	-	S235	40x40x2.5	1000
1273	543	559	-	-	S235	40x40x2.5	1000
1274	544	560	-	-	S235	40x40x2.5	1000
1275	545	561	-	-	S235	40x40x2.5	1000
1276	546	562	-	-	S235	40x40x2.5	1000
1277	547	563	-	-	S235	40x40x2.5	1000
1278	548	564	-	-	S235	40x40x2.5	1000
1279	549	565	-	-	S235	40x40x2.5	1000
1280	550	566	-	-	S235	40x40x2.5	1000
1281	551	567	-	-	S235	40x40x2.5	1000
1282	552	568	-	-	S235	40x40x2.5	1000
1283	553	569	-	-	S235	40x40x2.5	1000

1284	554	570	-	-	S235	40x40x2.5	1000
1285	555	571	-	-	S235	40x40x2.5	1000
1286	556	572	-	-	S235	40x40x2.5	1000
1291	573	575	-	-	S235	40x40x2.5	1000
1292	574	576	-	-	S235	40x40x2.5	1000
1293	541	577	-	-	S235	60x60x3	1568
1294	591	542	-	-	S235	60x60x3	1568
1295	543	609	-	-	S235	60x60x3	1568
1296	610	544	-	-	S235	60x60x3	1568
1297	545	615	-	-	S235	60x60x3	1568
1298	616	546	-	-	S235	60x60x3	1568
1299	547	621	-	-	S235	60x60x3	1568
1300	622	548	-	-	S235	60x60x3	1568
1301	549	627	-	-	S235	60x60x3	1568
1302	628	550	-	-	S235	60x60x3	1568
1303	551	633	-	-	S235	60x60x3	1568
1304	634	552	-	-	S235	60x60x3	1568
1305	553	639	-	-	S235	60x60x3	1568
1306	640	554	-	-	S235	60x60x3	1568
1307	555	645	-	-	S235	60x60x3	1568
1308	646	556	-	-	S235	60x60x3	1568
1309	581	573	-	-	S235	60x60x3	1146
1310	587	574	-	-	S235	60x60x3	1146
1311	575	581	-	-	S235	40x40x2.5	1521
1312	576	587	-	-	S235	40x40x2.5	1521
1313	596	575	-	-	S235	60x60x3	1146
1314	602	576	-	-	S235	60x60x3	1146
1315	541	647	-	-	S235	40x40x2.5	1941
1316	648	542	-	-	S235	40x40x2.5	1941
1317	543	653	-	-	S235	40x40x2.5	1941
1318	654	544	-	-	S235	40x40x2.5	1941
1319	545	659	-	-	S235	40x40x2.5	1941
1320	660	546	-	-	S235	40x40x2.5	1941
1321	547	665	-	-	S235	40x40x2.5	1941
1322	666	548	-	-	S235	40x40x2.5	1941
1323	549	671	-	-	S235	40x40x2.5	1941
1324	672	550	-	-	S235	40x40x2.5	1941
1325	551	677	-	-	S235	40x40x2.5	1941
1326	678	552	-	-	S235	40x40x2.5	1941
1327	553	683	-	-	S235	40x40x2.5	1941
1328	684	554	-	-	S235	40x40x2.5	1941
1329	555	689	-	-	S235	40x40x2.5	1941
1330	690	556	-	-	S235	40x40x2.5	1941
1331	557	647	-	-	S235	60x60x3	1764
1332	648	558	-	-	S235	60x60x3	1764

1333	559	653	-	-	S235	60x60x3	1764
1334	654	560	-	-	S235	60x60x3	1764
1335	561	659	-	-	S235	60x60x3	1764
1336	660	562	-	-	S235	60x60x3	1764
1337	563	665	-	-	S235	60x60x3	1764
1338	666	564	-	-	S235	60x60x3	1764
1339	565	671	-	-	S235	60x60x3	1764
1340	672	566	-	-	S235	60x60x3	1764
1341	567	677	-	-	S235	60x60x3	1764
1342	678	568	-	-	S235	60x60x3	1764
1343	569	683	-	-	S235	60x60x3	1764
1344	684	570	-	-	S235	60x60x3	1764
1345	571	689	-	-	S235	60x60x3	1764
1346	690	572	-	-	S235	60x60x3	1764
1347	577	578	-	-	S235	60x60x3	1082
1348	578	579	-	-	S235	60x60x3	1082
1349	579	580	-	-	S235	60x60x3	1082
1350	580	581	-	-	S235	60x60x3	1082
1351	581	582	-	-	S235	60x60x3	1020
1352	582	583	-	-	S235	60x60x3	1020
1353	583	584	-	-	S235	60x60x3	1020
1354	584	585	-	-	S235	60x60x3	1020
1355	585	586	-	-	S235	60x60x3	1020
1356	586	587	-	-	S235	60x60x3	1020
1357	587	588	-	-	S235	60x60x3	1082
1358	588	589	-	-	S235	60x60x3	1082
1359	589	590	-	-	S235	60x60x3	1082
1360	590	591	-	-	S235	60x60x3	1082
1361	577	592	-	-	S235	40x40x2.5	1000
1362	593	577	-	-	S235	40x40x2.5	1474
1363	578	593	-	-	S235	40x40x2.5	1000
1364	579	593	-	-	S235	40x40x2.5	1474
1365	579	594	-	-	S235	40x40x2.5	1000
1366	595	579	-	-	S235	40x40x2.5	1474
1367	580	595	-	-	S235	40x40x2.5	1000
1368	581	595	-	-	S235	40x40x2.5	1474
1369	581	596	-	-	S235	40x40x2.5	1000
1370	581	597	-	-	S235	40x40x2.5	1429
1371	582	597	-	-	S235	40x40x2.5	1000
1372	597	583	-	-	S235	40x40x2.5	1429
1373	583	598	-	-	S235	40x40x2.5	1000
1374	583	599	-	-	S235	40x40x2.5	1429
1375	584	599	-	-	S235	40x40x2.5	1000
1376	599	585	-	-	S235	40x40x2.5	1429
1377	585	600	-	-	S235	40x40x2.5	1000

1378	585	601	-	-	S235	40x40x2.5	1429
1379	586	601	-	-	S235	40x40x2.5	1000
1380	601	587	-	-	S235	40x40x2.5	1429
1381	587	602	-	-	S235	40x40x2.5	1000
1382	587	603	-	-	S235	40x40x2.5	1474
1383	588	603	-	-	S235	40x40x2.5	1000
1384	603	589	-	-	S235	40x40x2.5	1474
1385	589	604	-	-	S235	40x40x2.5	1000
1386	589	605	-	-	S235	40x40x2.5	1474
1387	590	605	-	-	S235	40x40x2.5	1000
1388	605	591	-	-	S235	40x40x2.5	1474
1389	591	606	-	-	S235	40x40x2.5	1000
1390	592	593	-	-	S235	60x60x3	1082
1391	593	594	-	-	S235	60x60x3	1082
1392	594	595	-	-	S235	60x60x3	1082
1393	595	596	-	-	S235	60x60x3	1082
1394	596	597	-	-	S235	60x60x3	1020
1395	597	598	-	-	S235	60x60x3	1020
1396	598	599	-	-	S235	60x60x3	1020
1397	599	600	-	-	S235	60x60x3	1020
1398	600	601	-	-	S235	60x60x3	1020
1399	601	602	-	-	S235	60x60x3	1020
1400	602	603	-	-	S235	60x60x3	1082
1401	603	604	-	-	S235	60x60x3	1082
1402	604	605	-	-	S235	60x60x3	1082
1403	605	606	-	-	S235	60x60x3	1082
1404	592	607	-	-	S235	40x40x2.5	1000
1405	606	608	-	-	S235	40x40x2.5	1000
1406	607	609	-	-	S235	40x40x2.5	1000
1407	608	610	-	-	S235	40x40x2.5	1000
1408	609	611	-	-	S235	40x40x2.5	1000
1409	610	612	-	-	S235	40x40x2.5	1000
1410	611	613	-	-	S235	40x40x2.5	1000
1411	612	614	-	-	S235	40x40x2.5	1000
1412	613	615	-	-	S235	40x40x2.5	1000
1413	614	616	-	-	S235	40x40x2.5	1000
1414	615	617	-	-	S235	40x40x2.5	1000
1415	616	618	-	-	S235	40x40x2.5	1000
1416	617	619	-	-	S235	40x40x2.5	1000
1417	618	620	-	-	S235	40x40x2.5	1000
1418	619	621	-	-	S235	40x40x2.5	1000
1419	620	622	-	-	S235	40x40x2.5	1000
1420	621	623	-	-	S235	40x40x2.5	1000
1421	622	624	-	-	S235	40x40x2.5	1000
1422	623	625	-	-	S235	40x40x2.5	1000

1423	624	626	-	-	S235	40x40x2.5	1000
1424	625	627	-	-	S235	40x40x2.5	1000
1425	626	628	-	-	S235	40x40x2.5	1000
1426	627	629	-	-	S235	40x40x2.5	1000
1427	628	630	-	-	S235	40x40x2.5	1000
1428	629	631	-	-	S235	40x40x2.5	1000
1429	630	632	-	-	S235	40x40x2.5	1000
1430	631	633	-	-	S235	40x40x2.5	1000
1431	632	634	-	-	S235	40x40x2.5	1000
1432	633	635	-	-	S235	40x40x2.5	1000
1433	634	636	-	-	S235	40x40x2.5	1000
1434	635	637	-	-	S235	40x40x2.5	1000
1435	636	638	-	-	S235	40x40x2.5	1000
1436	637	639	-	-	S235	40x40x2.5	1000
1437	638	640	-	-	S235	40x40x2.5	1000
1438	639	641	-	-	S235	40x40x2.5	1000
1439	640	642	-	-	S235	40x40x2.5	1000
1440	641	643	-	-	S235	40x40x2.5	1000
1441	642	644	-	-	S235	40x40x2.5	1000
1442	643	645	-	-	S235	40x40x2.5	1000
1443	644	646	-	-	S235	40x40x2.5	1000
1444	577	647	-	-	S235	40x40x2.5	1000
1445	591	648	-	-	S235	40x40x2.5	1000
1446	647	592	-	-	S235	40x40x2.5	1414
1447	648	606	-	-	S235	40x40x2.5	1414
1448	649	592	-	-	S235	40x40x2.5	1000
1449	650	606	-	-	S235	40x40x2.5	1000
1450	592	651	-	-	S235	40x40x2.5	1414
1451	606	652	-	-	S235	40x40x2.5	1414
1452	607	651	-	-	S235	40x40x2.5	1000
1453	608	652	-	-	S235	40x40x2.5	1000
1454	651	609	-	-	S235	40x40x2.5	1414
1455	652	610	-	-	S235	40x40x2.5	1414
1456	609	653	-	-	S235	40x40x2.5	1000
1457	610	654	-	-	S235	40x40x2.5	1000
1458	653	611	-	-	S235	40x40x2.5	1414
1459	654	612	-	-	S235	40x40x2.5	1414
1460	655	611	-	-	S235	40x40x2.5	1000
1461	656	612	-	-	S235	40x40x2.5	1000
1462	611	657	-	-	S235	40x40x2.5	1414
1463	612	658	-	-	S235	40x40x2.5	1414
1464	613	657	-	-	S235	40x40x2.5	1000
1465	614	658	-	-	S235	40x40x2.5	1000
1466	657	615	-	-	S235	40x40x2.5	1414
1467	658	616	-	-	S235	40x40x2.5	1414

1468	615	659	-	-	S235	40x40x2.5	1000
1469	616	660	-	-	S235	40x40x2.5	1000
1470	659	617	-	-	S235	40x40x2.5	1414
1471	660	618	-	-	S235	40x40x2.5	1414
1472	661	617	-	-	S235	40x40x2.5	1000
1473	662	618	-	-	S235	40x40x2.5	1000
1474	617	663	-	-	S235	40x40x2.5	1414
1475	618	664	-	-	S235	40x40x2.5	1414
1476	619	663	-	-	S235	40x40x2.5	1000
1477	620	664	-	-	S235	40x40x2.5	1000
1478	663	621	-	-	S235	40x40x2.5	1414
1479	664	622	-	-	S235	40x40x2.5	1414
1480	621	665	-	-	S235	40x40x2.5	1000
1481	622	666	-	-	S235	40x40x2.5	1000
1482	665	623	-	-	S235	40x40x2.5	1414
1483	666	624	-	-	S235	40x40x2.5	1414
1484	667	623	-	-	S235	40x40x2.5	1000
1485	668	624	-	-	S235	40x40x2.5	1000
1486	623	669	-	-	S235	40x40x2.5	1414
1487	624	670	-	-	S235	40x40x2.5	1414
1488	625	669	-	-	S235	40x40x2.5	1000
1489	626	670	-	-	S235	40x40x2.5	1000
1490	669	627	-	-	S235	40x40x2.5	1414
1491	670	628	-	-	S235	40x40x2.5	1414
1492	627	671	-	-	S235	40x40x2.5	1000
1493	628	672	-	-	S235	40x40x2.5	1000
1494	671	629	-	-	S235	40x40x2.5	1414
1495	672	630	-	-	S235	40x40x2.5	1414
1496	673	629	-	-	S235	40x40x2.5	1000
1497	674	630	-	-	S235	40x40x2.5	1000
1498	629	675	-	-	S235	40x40x2.5	1414
1499	630	676	-	-	S235	40x40x2.5	1414
1500	631	675	-	-	S235	40x40x2.5	1000
1501	632	676	-	-	S235	40x40x2.5	1000
1502	675	633	-	-	S235	40x40x2.5	1414
1503	676	634	-	-	S235	40x40x2.5	1414
1504	633	677	-	-	S235	40x40x2.5	1000
1505	634	678	-	-	S235	40x40x2.5	1000
1506	677	635	-	-	S235	40x40x2.5	1414
1507	678	636	-	-	S235	40x40x2.5	1414
1508	679	635	-	-	S235	40x40x2.5	1000
1509	680	636	-	-	S235	40x40x2.5	1000
1510	635	681	-	-	S235	40x40x2.5	1414
1511	636	682	-	-	S235	40x40x2.5	1414
1512	637	681	-	-	S235	40x40x2.5	1000

1513	638	682	-	-	S235	40x40x2.5	1000
1514	681	639	-	-	S235	40x40x2.5	1414
1515	682	640	-	-	S235	40x40x2.5	1414
1516	639	683	-	-	S235	40x40x2.5	1000
1517	640	684	-	-	S235	40x40x2.5	1000
1518	683	641	-	-	S235	40x40x2.5	1414
1519	684	642	-	-	S235	40x40x2.5	1414
1520	685	641	-	-	S235	40x40x2.5	1000
1521	686	642	-	-	S235	40x40x2.5	1000
1522	641	687	-	-	S235	40x40x2.5	1414
1523	642	688	-	-	S235	40x40x2.5	1414
1524	643	687	-	-	S235	40x40x2.5	1000
1525	644	688	-	-	S235	40x40x2.5	1000
1526	687	645	-	-	S235	40x40x2.5	1414
1527	688	646	-	-	S235	40x40x2.5	1414
1528	645	689	-	-	S235	40x40x2.5	1000
1529	646	690	-	-	S235	40x40x2.5	1000
1530	647	649	-	-	S235	40x40x2.5	1000
1531	648	650	-	-	S235	40x40x2.5	1000
1532	649	651	-	-	S235	40x40x2.5	1000
1533	650	652	-	-	S235	40x40x2.5	1000
1534	651	653	-	-	S235	40x40x2.5	1000
1535	652	654	-	-	S235	40x40x2.5	1000
1536	653	655	-	-	S235	40x40x2.5	1000
1537	654	656	-	-	S235	40x40x2.5	1000
1538	655	657	-	-	S235	40x40x2.5	1000
1539	656	658	-	-	S235	40x40x2.5	1000
1540	657	659	-	-	S235	40x40x2.5	1000
1541	658	660	-	-	S235	40x40x2.5	1000
1542	659	661	-	-	S235	40x40x2.5	1000
1543	660	662	-	-	S235	40x40x2.5	1000
1544	661	663	-	-	S235	40x40x2.5	1000
1545	662	664	-	-	S235	40x40x2.5	1000
1546	663	665	-	-	S235	40x40x2.5	1000
1547	664	666	-	-	S235	40x40x2.5	1000
1548	665	667	-	-	S235	40x40x2.5	1000
1549	666	668	-	-	S235	40x40x2.5	1000
1550	667	669	-	-	S235	40x40x2.5	1000
1551	668	670	-	-	S235	40x40x2.5	1000
1552	669	671	-	-	S235	40x40x2.5	1000
1553	670	672	-	-	S235	40x40x2.5	1000
1554	671	673	-	-	S235	40x40x2.5	1000
1555	672	674	-	-	S235	40x40x2.5	1000
1556	673	675	-	-	S235	40x40x2.5	1000
1557	674	676	-	-	S235	40x40x2.5	1000

1558	675	677	-	-	S235	40x40x2.5	1000
1559	676	678	-	-	S235	40x40x2.5	1000
1560	677	679	-	-	S235	40x40x2.5	1000
1561	678	680	-	-	S235	40x40x2.5	1000
1562	679	681	-	-	S235	40x40x2.5	1000
1563	680	682	-	-	S235	40x40x2.5	1000
1564	681	683	-	-	S235	40x40x2.5	1000
1565	682	684	-	-	S235	40x40x2.5	1000
1566	683	685	-	-	S235	40x40x2.5	1000
1567	684	686	-	-	S235	40x40x2.5	1000
1568	685	687	-	-	S235	40x40x2.5	1000
1569	686	688	-	-	S235	40x40x2.5	1000
1570	687	689	-	-	S235	40x40x2.5	1000
1571	688	690	-	-	S235	40x40x2.5	1000
1572	691	581	-	-	S235	60x60x3	1082
1573	692	587	-	-	S235	60x60x3	1082
1574	581	693	-	-	S235	40x40x2.5	1474
1575	587	694	-	-	S235	40x40x2.5	1474
1576	693	596	-	-	S235	60x60x3	1082
1577	694	602	-	-	S235	60x60x3	1082
1578	577	695	-	-	S235	60x60x3	1568
1579	696	591	-	-	S235	60x60x3	1568
1580	609	697	-	-	S235	60x60x3	1568
1581	698	610	-	-	S235	60x60x3	1568
1582	615	699	-	-	S235	60x60x3	1568
1583	700	616	-	-	S235	60x60x3	1568
1584	621	701	-	-	S235	60x60x3	1568
1585	702	622	-	-	S235	60x60x3	1568
1586	627	703	-	-	S235	60x60x3	1568
1587	704	628	-	-	S235	60x60x3	1568
1588	633	705	-	-	S235	60x60x3	1568
1589	706	634	-	-	S235	60x60x3	1568
1590	639	707	-	-	S235	60x60x3	1568
1591	708	640	-	-	S235	60x60x3	1568
1592	645	709	-	-	S235	60x60x3	1568
1593	710	646	-	-	S235	60x60x3	1568
1594	647	695	-	-	S235	40x40x2.5	1941
1595	696	648	-	-	S235	40x40x2.5	1941
1596	653	697	-	-	S235	40x40x2.5	1941
1597	698	654	-	-	S235	40x40x2.5	1941
1598	659	699	-	-	S235	40x40x2.5	1941
1599	700	660	-	-	S235	40x40x2.5	1941
1600	665	701	-	-	S235	40x40x2.5	1941
1601	702	666	-	-	S235	40x40x2.5	1941
1602	671	703	-	-	S235	40x40x2.5	1941

1603	704	672	-	-	S235	40x40x2.5	1941
1604	677	705	-	-	S235	40x40x2.5	1941
1605	706	678	-	-	S235	40x40x2.5	1941
1606	683	707	-	-	S235	40x40x2.5	1941
1607	708	684	-	-	S235	40x40x2.5	1941
1608	689	709	-	-	S235	40x40x2.5	1941
1609	710	690	-	-	S235	40x40x2.5	1941
1610	691	693	-	-	S235	40x40x2.5	1000
1611	692	694	-	-	S235	40x40x2.5	1000
1612	647	711	-	-	S235	60x60x3	1764
1613	712	648	-	-	S235	60x60x3	1764
1614	653	713	-	-	S235	60x60x3	1764
1615	714	654	-	-	S235	60x60x3	1764
1616	659	715	-	-	S235	60x60x3	1764
1617	716	660	-	-	S235	60x60x3	1764
1618	665	717	-	-	S235	60x60x3	1764
1619	718	666	-	-	S235	60x60x3	1764
1620	671	719	-	-	S235	60x60x3	1764
1621	720	672	-	-	S235	60x60x3	1764
1622	677	721	-	-	S235	60x60x3	1764
1623	722	678	-	-	S235	60x60x3	1764
1624	683	723	-	-	S235	60x60x3	1764
1625	724	684	-	-	S235	60x60x3	1764
1626	689	725	-	-	S235	60x60x3	1764
1627	726	690	-	-	S235	60x60x3	1764
1628	727	691	-	-	S235	60x60x3	1082
1629	728	692	-	-	S235	60x60x3	1082
1630	693	727	-	-	S235	40x40x2.5	1474
1631	694	728	-	-	S235	40x40x2.5	1474
1632	729	693	-	-	S235	60x60x3	1082
1633	730	694	-	-	S235	60x60x3	1082
1634	695	711	-	-	S235	40x40x2.5	1000
1635	696	712	-	-	S235	40x40x2.5	1000
1636	697	713	-	-	S235	40x40x2.5	1000
1637	698	714	-	-	S235	40x40x2.5	1000
1638	699	715	-	-	S235	40x40x2.5	1000
1639	700	716	-	-	S235	40x40x2.5	1000
1640	701	717	-	-	S235	40x40x2.5	1000
1641	702	718	-	-	S235	40x40x2.5	1000
1642	703	719	-	-	S235	40x40x2.5	1000
1643	704	720	-	-	S235	40x40x2.5	1000
1644	705	721	-	-	S235	40x40x2.5	1000
1645	706	722	-	-	S235	40x40x2.5	1000
1646	707	723	-	-	S235	40x40x2.5	1000
1647	708	724	-	-	S235	40x40x2.5	1000

1648	709	725	-	-	S235	40x40x2.5	1000
1649	710	726	-	-	S235	40x40x2.5	1000
1654	695	731	-	-	S235	60x60x3	1568
1655	732	696	-	-	S235	60x60x3	1568
1656	697	737	-	-	S235	60x60x3	1568
1657	738	698	-	-	S235	60x60x3	1568
1658	699	743	-	-	S235	60x60x3	1568
1659	744	700	-	-	S235	60x60x3	1568
1660	701	749	-	-	S235	60x60x3	1568
1661	750	702	-	-	S235	60x60x3	1568
1662	703	755	-	-	S235	60x60x3	1568
1663	756	704	-	-	S235	60x60x3	1568
1664	705	761	-	-	S235	60x60x3	1568
1665	762	706	-	-	S235	60x60x3	1568
1666	707	767	-	-	S235	60x60x3	1568
1667	768	708	-	-	S235	60x60x3	1568
1668	709	773	-	-	S235	60x60x3	1568
1669	774	710	-	-	S235	60x60x3	1568
1670	727	729	-	-	S235	40x40x2.5	1000
1671	728	730	-	-	S235	40x40x2.5	1000
1672	695	779	-	-	S235	40x40x2.5	1941
1673	780	696	-	-	S235	40x40x2.5	1941
1674	697	785	-	-	S235	40x40x2.5	1941
1675	786	698	-	-	S235	40x40x2.5	1941
1676	699	791	-	-	S235	40x40x2.5	1941
1677	792	700	-	-	S235	40x40x2.5	1941
1678	701	797	-	-	S235	40x40x2.5	1941
1679	798	702	-	-	S235	40x40x2.5	1941
1680	703	803	-	-	S235	40x40x2.5	1941
1681	804	704	-	-	S235	40x40x2.5	1941
1682	705	809	-	-	S235	40x40x2.5	1941
1683	810	706	-	-	S235	40x40x2.5	1941
1684	707	815	-	-	S235	40x40x2.5	1941
1685	816	708	-	-	S235	40x40x2.5	1941
1686	709	821	-	-	S235	40x40x2.5	1941
1687	822	710	-	-	S235	40x40x2.5	1941
1688	731	733	-	-	S235	40x40x2.5	1000
1689	732	734	-	-	S235	40x40x2.5	1000
1690	733	735	-	-	S235	40x40x2.5	1000
1691	734	736	-	-	S235	40x40x2.5	1000
1692	735	737	-	-	S235	40x40x2.5	1000
1693	736	738	-	-	S235	40x40x2.5	1000
1694	737	739	-	-	S235	40x40x2.5	1000
1695	738	740	-	-	S235	40x40x2.5	1000
1696	739	741	-	-	S235	40x40x2.5	1000

1697	740	742	-	-	S235	40x40x2.5	1000
1698	741	743	-	-	S235	40x40x2.5	1000
1699	742	744	-	-	S235	40x40x2.5	1000
1700	743	745	-	-	S235	40x40x2.5	1000
1701	744	746	-	-	S235	40x40x2.5	1000
1702	745	747	-	-	S235	40x40x2.5	1000
1703	746	748	-	-	S235	40x40x2.5	1000
1704	747	749	-	-	S235	40x40x2.5	1000
1705	748	750	-	-	S235	40x40x2.5	1000
1706	749	751	-	-	S235	40x40x2.5	1000
1707	750	752	-	-	S235	40x40x2.5	1000
1708	751	753	-	-	S235	40x40x2.5	1000
1709	752	754	-	-	S235	40x40x2.5	1000
1710	753	755	-	-	S235	40x40x2.5	1000
1711	754	756	-	-	S235	40x40x2.5	1000
1712	755	757	-	-	S235	40x40x2.5	1000
1713	756	758	-	-	S235	40x40x2.5	1000
1714	757	759	-	-	S235	40x40x2.5	1000
1715	758	760	-	-	S235	40x40x2.5	1000
1716	759	761	-	-	S235	40x40x2.5	1000
1717	760	762	-	-	S235	40x40x2.5	1000
1718	761	763	-	-	S235	40x40x2.5	1000
1719	762	764	-	-	S235	40x40x2.5	1000
1720	763	765	-	-	S235	40x40x2.5	1000
1721	764	766	-	-	S235	40x40x2.5	1000
1722	765	767	-	-	S235	40x40x2.5	1000
1723	766	768	-	-	S235	40x40x2.5	1000
1724	767	769	-	-	S235	40x40x2.5	1000
1725	768	770	-	-	S235	40x40x2.5	1000
1726	769	771	-	-	S235	40x40x2.5	1000
1727	770	772	-	-	S235	40x40x2.5	1000
1728	771	773	-	-	S235	40x40x2.5	1000
1729	772	774	-	-	S235	40x40x2.5	1000
1730	711	779	-	-	S235	60x60x3	1764
1731	780	712	-	-	S235	60x60x3	1764
1732	713	785	-	-	S235	60x60x3	1764
1733	786	714	-	-	S235	60x60x3	1764
1734	715	791	-	-	S235	60x60x3	1764
1735	792	716	-	-	S235	60x60x3	1764
1736	717	797	-	-	S235	60x60x3	1764
1737	798	718	-	-	S235	60x60x3	1764
1738	719	803	-	-	S235	60x60x3	1764
1739	804	720	-	-	S235	60x60x3	1764
1740	721	809	-	-	S235	60x60x3	1764
1741	810	722	-	-	S235	60x60x3	1764

1742	723	815	-	-	S235	60x60x3	1764
1743	816	724	-	-	S235	60x60x3	1764
1744	725	821	-	-	S235	60x60x3	1764
1745	822	726	-	-	S235	60x60x3	1764
1746	775	727	-	-	S235	60x60x3	1082
1747	776	728	-	-	S235	60x60x3	1082
1748	727	777	-	-	S235	40x40x2.5	1474
1749	728	778	-	-	S235	40x40x2.5	1474
1750	777	729	-	-	S235	60x60x3	1082
1751	778	730	-	-	S235	60x60x3	1082
1752	779	731	-	-	S235	40x40x2.5	1000
1753	780	732	-	-	S235	40x40x2.5	1000
1754	779	733	-	-	S235	40x40x2.5	1414
1755	780	734	-	-	S235	40x40x2.5	1414
1756	733	781	-	-	S235	40x40x2.5	1000
1757	734	782	-	-	S235	40x40x2.5	1000
1758	733	783	-	-	S235	40x40x2.5	1414
1759	734	784	-	-	S235	40x40x2.5	1414
1760	735	783	-	-	S235	40x40x2.5	1000
1761	736	784	-	-	S235	40x40x2.5	1000
1762	783	737	-	-	S235	40x40x2.5	1414
1763	784	738	-	-	S235	40x40x2.5	1414
1764	785	737	-	-	S235	40x40x2.5	1000
1765	786	738	-	-	S235	40x40x2.5	1000
1766	785	739	-	-	S235	40x40x2.5	1414
1767	786	740	-	-	S235	40x40x2.5	1414
1768	739	787	-	-	S235	40x40x2.5	1000
1769	740	788	-	-	S235	40x40x2.5	1000
1770	739	789	-	-	S235	40x40x2.5	1414
1771	740	790	-	-	S235	40x40x2.5	1414
1772	741	789	-	-	S235	40x40x2.5	1000
1773	742	790	-	-	S235	40x40x2.5	1000
1774	789	743	-	-	S235	40x40x2.5	1414
1775	790	744	-	-	S235	40x40x2.5	1414
1776	791	743	-	-	S235	40x40x2.5	1000
1777	792	744	-	-	S235	40x40x2.5	1000
1778	791	745	-	-	S235	40x40x2.5	1414
1779	792	746	-	-	S235	40x40x2.5	1414
1780	745	793	-	-	S235	40x40x2.5	1000
1781	746	794	-	-	S235	40x40x2.5	1000
1782	745	795	-	-	S235	40x40x2.5	1414
1783	746	796	-	-	S235	40x40x2.5	1414
1784	747	795	-	-	S235	40x40x2.5	1000
1785	748	796	-	-	S235	40x40x2.5	1000
1786	795	749	-	-	S235	40x40x2.5	1414

1787	796	750	-	-	S235	40x40x2.5	1414
1788	797	749	-	-	S235	40x40x2.5	1000
1789	798	750	-	-	S235	40x40x2.5	1000
1790	797	751	-	-	S235	40x40x2.5	1414
1791	798	752	-	-	S235	40x40x2.5	1414
1792	751	799	-	-	S235	40x40x2.5	1000
1793	752	800	-	-	S235	40x40x2.5	1000
1794	751	801	-	-	S235	40x40x2.5	1414
1795	752	802	-	-	S235	40x40x2.5	1414
1796	753	801	-	-	S235	40x40x2.5	1000
1797	754	802	-	-	S235	40x40x2.5	1000
1798	801	755	-	-	S235	40x40x2.5	1414
1799	802	756	-	-	S235	40x40x2.5	1414
1800	803	755	-	-	S235	40x40x2.5	1000
1801	804	756	-	-	S235	40x40x2.5	1000
1802	803	757	-	-	S235	40x40x2.5	1414
1803	804	758	-	-	S235	40x40x2.5	1414
1804	757	805	-	-	S235	40x40x2.5	1000
1805	758	806	-	-	S235	40x40x2.5	1000
1806	757	807	-	-	S235	40x40x2.5	1414
1807	758	808	-	-	S235	40x40x2.5	1414
1808	759	807	-	-	S235	40x40x2.5	1000
1809	760	808	-	-	S235	40x40x2.5	1000
1810	807	761	-	-	S235	40x40x2.5	1414
1811	808	762	-	-	S235	40x40x2.5	1414
1812	809	761	-	-	S235	40x40x2.5	1000
1813	810	762	-	-	S235	40x40x2.5	1000
1814	809	763	-	-	S235	40x40x2.5	1414
1815	810	764	-	-	S235	40x40x2.5	1414
1816	763	811	-	-	S235	40x40x2.5	1000
1817	764	812	-	-	S235	40x40x2.5	1000
1818	763	813	-	-	S235	40x40x2.5	1414
1819	764	814	-	-	S235	40x40x2.5	1414
1820	765	813	-	-	S235	40x40x2.5	1000
1821	766	814	-	-	S235	40x40x2.5	1000
1822	813	767	-	-	S235	40x40x2.5	1414
1823	814	768	-	-	S235	40x40x2.5	1414
1824	815	767	-	-	S235	40x40x2.5	1000
1825	816	768	-	-	S235	40x40x2.5	1000
1826	815	769	-	-	S235	40x40x2.5	1414
1827	816	770	-	-	S235	40x40x2.5	1414
1828	769	817	-	-	S235	40x40x2.5	1000
1829	770	818	-	-	S235	40x40x2.5	1000
1830	769	819	-	-	S235	40x40x2.5	1414
1831	770	820	-	-	S235	40x40x2.5	1414

1832	771	819	-	-	S235	40x40x2.5	1000
1833	772	820	-	-	S235	40x40x2.5	1000
1834	819	773	-	-	S235	40x40x2.5	1414
1835	820	774	-	-	S235	40x40x2.5	1414
1836	821	773	-	-	S235	40x40x2.5	1000
1837	822	774	-	-	S235	40x40x2.5	1000
1838	731	823	-	-	S235	40x40x2.5	1568
1839	824	732	-	-	S235	40x40x2.5	1568
1840	737	825	-	-	S235	40x40x2.5	1568
1841	826	738	-	-	S235	40x40x2.5	1568
1842	743	827	-	-	S235	40x40x2.5	1568
1843	828	744	-	-	S235	40x40x2.5	1568
1844	749	829	-	-	S235	40x40x2.5	1568
1845	830	750	-	-	S235	40x40x2.5	1568
1846	755	831	-	-	S235	40x40x2.5	1568
1847	832	756	-	-	S235	40x40x2.5	1568
1848	761	833	-	-	S235	40x40x2.5	1568
1849	834	762	-	-	S235	40x40x2.5	1568
1850	767	835	-	-	S235	40x40x2.5	1568
1851	836	768	-	-	S235	40x40x2.5	1568
1852	773	837	-	-	S235	40x40x2.5	1568
1853	838	774	-	-	S235	40x40x2.5	1568
1854	775	777	-	-	S235	40x40x2.5	1000
1855	776	778	-	-	S235	40x40x2.5	1000
1856	779	781	-	-	S235	40x40x2.5	1000
1857	780	782	-	-	S235	40x40x2.5	1000
1858	781	783	-	-	S235	40x40x2.5	1000
1859	782	784	-	-	S235	40x40x2.5	1000
1860	783	785	-	-	S235	40x40x2.5	1000
1861	784	786	-	-	S235	40x40x2.5	1000
1862	785	787	-	-	S235	40x40x2.5	1000
1863	786	788	-	-	S235	40x40x2.5	1000
1864	787	789	-	-	S235	40x40x2.5	1000
1865	788	790	-	-	S235	40x40x2.5	1000
1866	789	791	-	-	S235	40x40x2.5	1000
1867	790	792	-	-	S235	40x40x2.5	1000
1868	791	793	-	-	S235	40x40x2.5	1000
1869	792	794	-	-	S235	40x40x2.5	1000
1870	793	795	-	-	S235	40x40x2.5	1000
1871	794	796	-	-	S235	40x40x2.5	1000
1872	795	797	-	-	S235	40x40x2.5	1000
1873	796	798	-	-	S235	40x40x2.5	1000
1874	797	799	-	-	S235	40x40x2.5	1000
1875	798	800	-	-	S235	40x40x2.5	1000
1876	799	801	-	-	S235	40x40x2.5	1000

1877	800	802	-	-	S235	40x40x2.5	1000
1878	801	803	-	-	S235	40x40x2.5	1000
1879	802	804	-	-	S235	40x40x2.5	1000
1880	803	805	-	-	S235	40x40x2.5	1000
1881	804	806	-	-	S235	40x40x2.5	1000
1882	805	807	-	-	S235	40x40x2.5	1000
1883	806	808	-	-	S235	40x40x2.5	1000
1884	807	809	-	-	S235	40x40x2.5	1000
1885	808	810	-	-	S235	40x40x2.5	1000
1886	809	811	-	-	S235	40x40x2.5	1000
1887	810	812	-	-	S235	40x40x2.5	1000
1888	811	813	-	-	S235	40x40x2.5	1000
1889	812	814	-	-	S235	40x40x2.5	1000
1890	813	815	-	-	S235	40x40x2.5	1000
1891	814	816	-	-	S235	40x40x2.5	1000
1892	815	817	-	-	S235	40x40x2.5	1000
1893	816	818	-	-	S235	40x40x2.5	1000
1894	817	819	-	-	S235	40x40x2.5	1000
1895	818	820	-	-	S235	40x40x2.5	1000
1896	819	821	-	-	S235	40x40x2.5	1000
1897	820	822	-	-	S235	40x40x2.5	1000
1898	779	823	-	-	S235	40x40x2.5	1941
1899	824	780	-	-	S235	40x40x2.5	1941
1900	785	825	-	-	S235	40x40x2.5	1941
1901	826	786	-	-	S235	40x40x2.5	1941
1902	791	827	-	-	S235	40x40x2.5	1941
1903	828	792	-	-	S235	40x40x2.5	1941
1904	797	829	-	-	S235	40x40x2.5	1941
1905	830	798	-	-	S235	40x40x2.5	1941
1906	803	831	-	-	S235	40x40x2.5	1941
1907	832	804	-	-	S235	40x40x2.5	1941
1908	809	833	-	-	S235	40x40x2.5	1941
1909	834	810	-	-	S235	40x40x2.5	1941
1910	815	835	-	-	S235	40x40x2.5	1941
1911	836	816	-	-	S235	40x40x2.5	1941
1912	821	837	-	-	S235	40x40x2.5	1941
1913	838	822	-	-	S235	40x40x2.5	1941
1914	839	775	-	-	S235	60x60x3	1082
1915	840	776	-	-	S235	60x60x3	1082
1916	777	839	-	-	S235	40x40x2.5	1474
1917	778	840	-	-	S235	40x40x2.5	1474
1918	841	777	-	-	S235	60x60x3	1082
1919	842	778	-	-	S235	60x60x3	1082
1920	779	883	-	-	S235	40x40x2.5	1764
1921	884	780	-	-	S235	40x40x2.5	1764

1922	785	885	-	-	S235	40x40x2.5	1764
1923	886	786	-	-	S235	40x40x2.5	1764
1924	791	887	-	-	S235	40x40x2.5	1764
1925	888	792	-	-	S235	40x40x2.5	1764
1926	797	889	-	-	S235	40x40x2.5	1764
1927	890	798	-	-	S235	40x40x2.5	1764
1928	803	891	-	-	S235	40x40x2.5	1764
1929	892	804	-	-	S235	40x40x2.5	1764
1930	809	893	-	-	S235	40x40x2.5	1764
1931	894	810	-	-	S235	40x40x2.5	1764
1932	815	895	-	-	S235	40x40x2.5	1764
1933	896	816	-	-	S235	40x40x2.5	1764
1934	821	897	-	-	S235	40x40x2.5	1764
1935	898	822	-	-	S235	40x40x2.5	1764
1936	823	839	-	-	S235	40x40x2.5	1568
1937	840	824	-	-	S235	40x40x2.5	1568
1938	825	845	-	-	S235	40x40x2.5	1568
1939	846	826	-	-	S235	40x40x2.5	1568
1940	827	851	-	-	S235	40x40x2.5	1568
1941	852	828	-	-	S235	40x40x2.5	1568
1942	829	857	-	-	S235	40x40x2.5	1568
1943	858	830	-	-	S235	40x40x2.5	1568
1944	831	863	-	-	S235	40x40x2.5	1568
1945	864	832	-	-	S235	40x40x2.5	1568
1946	833	869	-	-	S235	40x40x2.5	1568
1947	870	834	-	-	S235	40x40x2.5	1568
1948	835	875	-	-	S235	40x40x2.5	1568
1949	876	836	-	-	S235	40x40x2.5	1568
1950	837	881	-	-	S235	40x40x2.5	1568
1951	882	838	-	-	S235	40x40x2.5	1568
1952	823	883	-	-	S235	40x40x2.5	1000
1953	824	884	-	-	S235	40x40x2.5	1000
1954	825	885	-	-	S235	40x40x2.5	1000
1955	826	886	-	-	S235	40x40x2.5	1000
1956	827	887	-	-	S235	40x40x2.5	1000
1957	828	888	-	-	S235	40x40x2.5	1000
1958	829	889	-	-	S235	40x40x2.5	1000
1959	830	890	-	-	S235	40x40x2.5	1000
1960	831	891	-	-	S235	40x40x2.5	1000
1961	832	892	-	-	S235	40x40x2.5	1000
1962	833	893	-	-	S235	40x40x2.5	1000
1963	834	894	-	-	S235	40x40x2.5	1000
1964	835	895	-	-	S235	40x40x2.5	1000
1965	836	896	-	-	S235	40x40x2.5	1000
1966	837	897	-	-	S235	40x40x2.5	1000

1967	838	898	-	-	S235	40x40x2.5	1000
1972	839	841	-	-	S235	40x40x2.5	1000
1973	840	842	-	-	S235	40x40x2.5	1000
1974	841	843	-	-	S235	40x40x2.5	1000
1975	842	844	-	-	S235	40x40x2.5	1000
1976	843	845	-	-	S235	40x40x2.5	1000
1977	844	846	-	-	S235	40x40x2.5	1000
1978	845	847	-	-	S235	40x40x2.5	1000
1979	846	848	-	-	S235	40x40x2.5	1000
1980	847	849	-	-	S235	40x40x2.5	1000
1981	848	850	-	-	S235	40x40x2.5	1000
1982	849	851	-	-	S235	40x40x2.5	1000
1983	850	852	-	-	S235	40x40x2.5	1000
1984	851	853	-	-	S235	40x40x2.5	1000
1985	852	854	-	-	S235	40x40x2.5	1000
1986	853	855	-	-	S235	40x40x2.5	1000
1987	854	856	-	-	S235	40x40x2.5	1000
1988	855	857	-	-	S235	40x40x2.5	1000
1989	856	858	-	-	S235	40x40x2.5	1000
1990	857	859	-	-	S235	40x40x2.5	1000
1991	858	860	-	-	S235	40x40x2.5	1000
1992	859	861	-	-	S235	40x40x2.5	1000
1993	860	862	-	-	S235	40x40x2.5	1000
1994	861	863	-	-	S235	40x40x2.5	1000
1995	862	864	-	-	S235	40x40x2.5	1000
1996	863	865	-	-	S235	40x40x2.5	1000
1997	864	866	-	-	S235	40x40x2.5	1000
1998	865	867	-	-	S235	40x40x2.5	1000
1999	866	868	-	-	S235	40x40x2.5	1000
2000	867	869	-	-	S235	40x40x2.5	1000
2001	868	870	-	-	S235	40x40x2.5	1000
2002	869	871	-	-	S235	40x40x2.5	1000
2003	870	872	-	-	S235	40x40x2.5	1000
2004	871	873	-	-	S235	40x40x2.5	1000
2005	872	874	-	-	S235	40x40x2.5	1000
2006	873	875	-	-	S235	40x40x2.5	1000
2007	874	876	-	-	S235	40x40x2.5	1000
2008	875	877	-	-	S235	40x40x2.5	1000
2009	876	878	-	-	S235	40x40x2.5	1000
2010	877	879	-	-	S235	40x40x2.5	1000
2011	878	880	-	-	S235	40x40x2.5	1000
2012	879	881	-	-	S235	40x40x2.5	1000
2013	880	882	-	-	S235	40x40x2.5	1000
2014	823	937	-	-	S235	40x40x2.5	1941
2015	938	824	-	-	S235	40x40x2.5	1941

2016	825	943	-	-	S235	40x40x2.5	1941
2017	944	826	-	-	S235	40x40x2.5	1941
2018	827	949	-	-	S235	40x40x2.5	1941
2019	950	828	-	-	S235	40x40x2.5	1941
2020	829	955	-	-	S235	40x40x2.5	1941
2021	956	830	-	-	S235	40x40x2.5	1941
2022	831	961	-	-	S235	40x40x2.5	1941
2023	962	832	-	-	S235	40x40x2.5	1941
2024	833	967	-	-	S235	40x40x2.5	1941
2025	968	834	-	-	S235	40x40x2.5	1941
2026	835	973	-	-	S235	40x40x2.5	1941
2027	974	836	-	-	S235	40x40x2.5	1941
2028	837	979	-	-	S235	40x40x2.5	1941
2029	980	838	-	-	S235	40x40x2.5	1941
2030	839	899	-	-	S235	40x40x2.5	1568
2031	900	840	-	-	S235	40x40x2.5	1568
2032	845	901	-	-	S235	40x40x2.5	1568
2033	902	846	-	-	S235	40x40x2.5	1568
2034	851	903	-	-	S235	40x40x2.5	1568
2035	904	852	-	-	S235	40x40x2.5	1568
2036	857	905	-	-	S235	40x40x2.5	1568
2037	906	858	-	-	S235	40x40x2.5	1568
2038	863	907	-	-	S235	40x40x2.5	1568
2039	908	864	-	-	S235	40x40x2.5	1568
2040	869	909	-	-	S235	40x40x2.5	1568
2041	910	870	-	-	S235	40x40x2.5	1568
2042	875	911	-	-	S235	40x40x2.5	1568
2043	912	876	-	-	S235	40x40x2.5	1568
2044	881	913	-	-	S235	40x40x2.5	1568
2045	914	882	-	-	S235	40x40x2.5	1568
2046	839	937	-	-	S235	40x40x2.5	1000
2047	840	938	-	-	S235	40x40x2.5	1000
2048	937	841	-	-	S235	40x40x2.5	1414
2049	938	842	-	-	S235	40x40x2.5	1414
2050	939	841	-	-	S235	40x40x2.5	1000
2051	940	842	-	-	S235	40x40x2.5	1000
2052	841	941	-	-	S235	40x40x2.5	1414
2053	842	942	-	-	S235	40x40x2.5	1414
2054	843	941	-	-	S235	40x40x2.5	1000
2055	844	942	-	-	S235	40x40x2.5	1000
2056	941	845	-	-	S235	40x40x2.5	1414
2057	942	846	-	-	S235	40x40x2.5	1414
2058	845	943	-	-	S235	40x40x2.5	1000
2059	846	944	-	-	S235	40x40x2.5	1000
2060	943	847	-	-	S235	40x40x2.5	1414

2061	944	848	-	-	S235	40x40x2.5	1414
2062	945	847	-	-	S235	40x40x2.5	1000
2063	946	848	-	-	S235	40x40x2.5	1000
2064	847	947	-	-	S235	40x40x2.5	1414
2065	848	948	-	-	S235	40x40x2.5	1414
2066	849	947	-	-	S235	40x40x2.5	1000
2067	850	948	-	-	S235	40x40x2.5	1000
2068	947	851	-	-	S235	40x40x2.5	1414
2069	948	852	-	-	S235	40x40x2.5	1414
2070	851	949	-	-	S235	40x40x2.5	1000
2071	852	950	-	-	S235	40x40x2.5	1000
2072	949	853	-	-	S235	40x40x2.5	1414
2073	950	854	-	-	S235	40x40x2.5	1414
2074	951	853	-	-	S235	40x40x2.5	1000
2075	952	854	-	-	S235	40x40x2.5	1000
2076	853	953	-	-	S235	40x40x2.5	1414
2077	854	954	-	-	S235	40x40x2.5	1414
2078	855	953	-	-	S235	40x40x2.5	1000
2079	856	954	-	-	S235	40x40x2.5	1000
2080	953	857	-	-	S235	40x40x2.5	1414
2081	954	858	-	-	S235	40x40x2.5	1414
2082	857	955	-	-	S235	40x40x2.5	1000
2083	858	956	-	-	S235	40x40x2.5	1000
2084	955	859	-	-	S235	40x40x2.5	1414
2085	956	860	-	-	S235	40x40x2.5	1414
2086	957	859	-	-	S235	40x40x2.5	1000
2087	958	860	-	-	S235	40x40x2.5	1000
2088	859	959	-	-	S235	40x40x2.5	1414
2089	860	960	-	-	S235	40x40x2.5	1414
2090	861	959	-	-	S235	40x40x2.5	1000
2091	862	960	-	-	S235	40x40x2.5	1000
2092	959	863	-	-	S235	40x40x2.5	1414
2093	960	864	-	-	S235	40x40x2.5	1414
2094	863	961	-	-	S235	40x40x2.5	1000
2095	864	962	-	-	S235	40x40x2.5	1000
2096	961	865	-	-	S235	40x40x2.5	1414
2097	962	866	-	-	S235	40x40x2.5	1414
2098	963	865	-	-	S235	40x40x2.5	1000
2099	964	866	-	-	S235	40x40x2.5	1000
2100	865	965	-	-	S235	40x40x2.5	1414
2101	866	966	-	-	S235	40x40x2.5	1414
2102	867	965	-	-	S235	40x40x2.5	1000
2103	868	966	-	-	S235	40x40x2.5	1000
2104	965	869	-	-	S235	40x40x2.5	1414
2105	966	870	-	-	S235	40x40x2.5	1414

2106	869	967	-	-	S235	40x40x2.5	1000
2107	870	968	-	-	S235	40x40x2.5	1000
2108	967	871	-	-	S235	40x40x2.5	1414
2109	968	872	-	-	S235	40x40x2.5	1414
2110	969	871	-	-	S235	40x40x2.5	1000
2111	970	872	-	-	S235	40x40x2.5	1000
2112	871	971	-	-	S235	40x40x2.5	1414
2113	872	972	-	-	S235	40x40x2.5	1414
2114	873	971	-	-	S235	40x40x2.5	1000
2115	874	972	-	-	S235	40x40x2.5	1000
2116	971	875	-	-	S235	40x40x2.5	1414
2117	972	876	-	-	S235	40x40x2.5	1414
2118	875	973	-	-	S235	40x40x2.5	1000
2119	876	974	-	-	S235	40x40x2.5	1000
2120	973	877	-	-	S235	40x40x2.5	1414
2121	974	878	-	-	S235	40x40x2.5	1414
2122	975	877	-	-	S235	40x40x2.5	1000
2123	976	878	-	-	S235	40x40x2.5	1000
2124	877	977	-	-	S235	40x40x2.5	1414
2125	878	978	-	-	S235	40x40x2.5	1414
2126	879	977	-	-	S235	40x40x2.5	1000
2127	880	978	-	-	S235	40x40x2.5	1000
2128	977	881	-	-	S235	40x40x2.5	1414
2129	978	882	-	-	S235	40x40x2.5	1414
2130	881	979	-	-	S235	40x40x2.5	1000
2131	882	980	-	-	S235	40x40x2.5	1000
2132	883	937	-	-	S235	40x40x2.5	1764
2133	938	884	-	-	S235	40x40x2.5	1764
2134	885	943	-	-	S235	40x40x2.5	1764
2135	944	886	-	-	S235	40x40x2.5	1764
2136	887	949	-	-	S235	40x40x2.5	1764
2137	950	888	-	-	S235	40x40x2.5	1764
2138	889	955	-	-	S235	40x40x2.5	1764
2139	956	890	-	-	S235	40x40x2.5	1764
2140	891	961	-	-	S235	40x40x2.5	1764
2141	962	892	-	-	S235	40x40x2.5	1764
2142	893	967	-	-	S235	40x40x2.5	1764
2143	968	894	-	-	S235	40x40x2.5	1764
2144	895	973	-	-	S235	40x40x2.5	1764
2145	974	896	-	-	S235	40x40x2.5	1764
2146	897	979	-	-	S235	40x40x2.5	1764
2147	980	898	-	-	S235	40x40x2.5	1764
2148	899	915	-	-	S235	40x40x2.5	1568
2149	915	900	-	-	S235	40x40x2.5	1568
2150	901	918	-	-	S235	40x40x2.5	1568

2151	918	902	-	-	S235	40x40x2.5	1568
2152	903	921	-	-	S235	40x40x2.5	1568
2153	921	904	-	-	S235	40x40x2.5	1568
2154	905	924	-	-	S235	40x40x2.5	1568
2155	924	906	-	-	S235	40x40x2.5	1568
2156	907	927	-	-	S235	40x40x2.5	1568
2157	927	908	-	-	S235	40x40x2.5	1568
2158	909	930	-	-	S235	40x40x2.5	1568
2159	930	910	-	-	S235	40x40x2.5	1568
2160	911	933	-	-	S235	40x40x2.5	1568
2161	933	912	-	-	S235	40x40x2.5	1568
2162	913	936	-	-	S235	40x40x2.5	1568
2163	936	914	-	-	S235	40x40x2.5	1568
2164	915	916	-	-	S235	40x40x2.5	1000
2165	916	917	-	-	S235	40x40x2.5	1000
2166	917	918	-	-	S235	40x40x2.5	1000
2167	918	919	-	-	S235	40x40x2.5	1000
2168	919	920	-	-	S235	40x40x2.5	1000
2169	920	921	-	-	S235	40x40x2.5	1000
2170	921	922	-	-	S235	40x40x2.5	1000
2171	922	923	-	-	S235	40x40x2.5	1000
2172	923	924	-	-	S235	40x40x2.5	1000
2173	924	925	-	-	S235	40x40x2.5	1000
2174	925	926	-	-	S235	40x40x2.5	1000
2175	926	927	-	-	S235	40x40x2.5	1000
2176	927	928	-	-	S235	40x40x2.5	1000
2177	928	929	-	-	S235	40x40x2.5	1000
2178	929	930	-	-	S235	40x40x2.5	1000
2179	930	931	-	-	S235	40x40x2.5	1000
2180	931	932	-	-	S235	40x40x2.5	1000
2181	932	933	-	-	S235	40x40x2.5	1000
2182	933	934	-	-	S235	40x40x2.5	1000
2183	934	935	-	-	S235	40x40x2.5	1000
2184	935	936	-	-	S235	40x40x2.5	1000
2185	937	899	-	-	S235	40x40x2.5	1941
2186	900	938	-	-	S235	40x40x2.5	1941
2187	943	901	-	-	S235	40x40x2.5	1941
2188	902	944	-	-	S235	40x40x2.5	1941
2189	949	903	-	-	S235	40x40x2.5	1941
2190	904	950	-	-	S235	40x40x2.5	1941
2191	955	905	-	-	S235	40x40x2.5	1941
2192	906	956	-	-	S235	40x40x2.5	1941
2193	961	907	-	-	S235	40x40x2.5	1941
2194	908	962	-	-	S235	40x40x2.5	1941
2195	967	909	-	-	S235	40x40x2.5	1941

2196	910	968	-	-	S235	40x40x2.5	1941
2197	973	911	-	-	S235	40x40x2.5	1941
2198	912	974	-	-	S235	40x40x2.5	1941
2199	979	913	-	-	S235	40x40x2.5	1941
2200	914	980	-	-	S235	40x40x2.5	1941
2201	937	939	-	-	S235	40x40x2.5	1000
2202	938	940	-	-	S235	40x40x2.5	1000
2203	939	941	-	-	S235	40x40x2.5	1000
2204	940	942	-	-	S235	40x40x2.5	1000
2205	941	943	-	-	S235	40x40x2.5	1000
2206	942	944	-	-	S235	40x40x2.5	1000
2207	943	945	-	-	S235	40x40x2.5	1000
2208	944	946	-	-	S235	40x40x2.5	1000
2209	945	947	-	-	S235	40x40x2.5	1000
2210	946	948	-	-	S235	40x40x2.5	1000
2211	947	949	-	-	S235	40x40x2.5	1000
2212	948	950	-	-	S235	40x40x2.5	1000
2213	949	951	-	-	S235	40x40x2.5	1000
2214	950	952	-	-	S235	40x40x2.5	1000
2215	951	953	-	-	S235	40x40x2.5	1000
2216	952	954	-	-	S235	40x40x2.5	1000
2217	953	955	-	-	S235	40x40x2.5	1000
2218	954	956	-	-	S235	40x40x2.5	1000
2219	955	957	-	-	S235	40x40x2.5	1000
2220	956	958	-	-	S235	40x40x2.5	1000
2221	957	959	-	-	S235	40x40x2.5	1000
2222	958	960	-	-	S235	40x40x2.5	1000
2223	959	961	-	-	S235	40x40x2.5	1000
2224	960	962	-	-	S235	40x40x2.5	1000
2225	961	963	-	-	S235	40x40x2.5	1000
2226	962	964	-	-	S235	40x40x2.5	1000
2227	963	965	-	-	S235	40x40x2.5	1000
2228	964	966	-	-	S235	40x40x2.5	1000
2229	965	967	-	-	S235	40x40x2.5	1000
2230	966	968	-	-	S235	40x40x2.5	1000
2231	967	969	-	-	S235	40x40x2.5	1000
2232	968	970	-	-	S235	40x40x2.5	1000
2233	969	971	-	-	S235	40x40x2.5	1000
2234	970	972	-	-	S235	40x40x2.5	1000
2235	971	973	-	-	S235	40x40x2.5	1000
2236	972	974	-	-	S235	40x40x2.5	1000
2237	973	975	-	-	S235	40x40x2.5	1000
2238	974	976	-	-	S235	40x40x2.5	1000
2239	975	977	-	-	S235	40x40x2.5	1000
2240	976	978	-	-	S235	40x40x2.5	1000

2241	977	979	-	-	S235	40x40x2.5	1000
2242	978	980	-	-	S235	40x40x2.5	1000
2243	899	981	-	-	S235	40x40x2.5	1000
2244	900	982	-	-	S235	40x40x2.5	1000
2245	901	983	-	-	S235	40x40x2.5	1000
2246	902	984	-	-	S235	40x40x2.5	1000
2247	903	985	-	-	S235	40x40x2.5	1000
2248	904	986	-	-	S235	40x40x2.5	1000
2249	905	987	-	-	S235	40x40x2.5	1000
2250	906	988	-	-	S235	40x40x2.5	1000
2251	907	989	-	-	S235	40x40x2.5	1000
2252	908	990	-	-	S235	40x40x2.5	1000
2253	909	991	-	-	S235	40x40x2.5	1000
2254	910	992	-	-	S235	40x40x2.5	1000
2255	911	993	-	-	S235	40x40x2.5	1000
2256	912	994	-	-	S235	40x40x2.5	1000
2257	913	995	-	-	S235	40x40x2.5	1000
2258	914	996	-	-	S235	40x40x2.5	1000
2259	899	997	-	-	S235	40x40x2.5	1941
2260	997	900	-	-	S235	40x40x2.5	1941
2261	901	1000	-	-	S235	40x40x2.5	1941
2262	1000	902	-	-	S235	40x40x2.5	1941
2263	903	1003	-	-	S235	40x40x2.5	1941
2264	1003	904	-	-	S235	40x40x2.5	1941
2265	905	1006	-	-	S235	40x40x2.5	1941
2266	1006	906	-	-	S235	40x40x2.5	1941
2267	907	1009	-	-	S235	40x40x2.5	1941
2268	1009	908	-	-	S235	40x40x2.5	1941
2269	909	1012	-	-	S235	40x40x2.5	1941
2270	1012	910	-	-	S235	40x40x2.5	1941
2271	911	1015	-	-	S235	40x40x2.5	1941
2272	1015	912	-	-	S235	40x40x2.5	1941
2273	913	1018	-	-	S235	40x40x2.5	1941
2274	1018	914	-	-	S235	40x40x2.5	1941
2275	997	915	-	-	S235	40x40x2.5	1000
2276	997	916	-	-	S235	40x40x2.5	1414
2277	916	998	-	-	S235	40x40x2.5	1000
2278	916	999	-	-	S235	40x40x2.5	1414
2279	917	999	-	-	S235	40x40x2.5	1000
2280	999	918	-	-	S235	40x40x2.5	1414
2281	1000	918	-	-	S235	40x40x2.5	1000
2282	1000	919	-	-	S235	40x40x2.5	1414
2283	919	1001	-	-	S235	40x40x2.5	1000
2284	919	1002	-	-	S235	40x40x2.5	1414
2285	920	1002	-	-	S235	40x40x2.5	1000

2286	1002	921	-	-	S235	40x40x2.5	1414
2287	1003	921	-	-	S235	40x40x2.5	1000
2288	1003	922	-	-	S235	40x40x2.5	1414
2289	922	1004	-	-	S235	40x40x2.5	1000
2290	922	1005	-	-	S235	40x40x2.5	1414
2291	923	1005	-	-	S235	40x40x2.5	1000
2292	1005	924	-	-	S235	40x40x2.5	1414
2293	1006	924	-	-	S235	40x40x2.5	1000
2294	1006	925	-	-	S235	40x40x2.5	1414
2295	925	1007	-	-	S235	40x40x2.5	1000
2296	925	1008	-	-	S235	40x40x2.5	1414
2297	926	1008	-	-	S235	40x40x2.5	1000
2298	1008	927	-	-	S235	40x40x2.5	1414
2299	1009	927	-	-	S235	40x40x2.5	1000
2300	1009	928	-	-	S235	40x40x2.5	1414
2301	928	1010	-	-	S235	40x40x2.5	1000
2302	928	1011	-	-	S235	40x40x2.5	1414
2303	929	1011	-	-	S235	40x40x2.5	1000
2304	1011	930	-	-	S235	40x40x2.5	1414
2305	1012	930	-	-	S235	40x40x2.5	1000
2306	1012	931	-	-	S235	40x40x2.5	1414
2307	931	1013	-	-	S235	40x40x2.5	1000
2308	931	1014	-	-	S235	40x40x2.5	1414
2309	932	1014	-	-	S235	40x40x2.5	1000
2310	1014	933	-	-	S235	40x40x2.5	1414
2311	1015	933	-	-	S235	40x40x2.5	1000
2312	1015	934	-	-	S235	40x40x2.5	1414
2313	934	1016	-	-	S235	40x40x2.5	1000
2314	934	1017	-	-	S235	40x40x2.5	1414
2315	935	1017	-	-	S235	40x40x2.5	1000
2316	1017	936	-	-	S235	40x40x2.5	1414
2317	1018	936	-	-	S235	40x40x2.5	1000
2318	937	981	-	-	S235	40x40x2.5	1764
2319	982	938	-	-	S235	40x40x2.5	1764
2320	943	983	-	-	S235	40x40x2.5	1764
2321	984	944	-	-	S235	40x40x2.5	1764
2322	949	985	-	-	S235	40x40x2.5	1764
2323	986	950	-	-	S235	40x40x2.5	1764
2324	955	987	-	-	S235	40x40x2.5	1764
2325	988	956	-	-	S235	40x40x2.5	1764
2326	961	989	-	-	S235	40x40x2.5	1764
2327	990	962	-	-	S235	40x40x2.5	1764
2328	967	991	-	-	S235	40x40x2.5	1764
2329	992	968	-	-	S235	40x40x2.5	1764
2330	973	993	-	-	S235	40x40x2.5	1764

2331	994	974	-	-	S235	40x40x2.5	1764
2332	979	995	-	-	S235	40x40x2.5	1764
2333	996	980	-	-	S235	40x40x2.5	1764
2338	981	997	-	-	S235	40x40x2.5	1764
2339	997	982	-	-	S235	40x40x2.5	1764
2340	983	1000	-	-	S235	40x40x2.5	1764
2341	1000	984	-	-	S235	40x40x2.5	1764
2342	985	1003	-	-	S235	40x40x2.5	1764
2343	1003	986	-	-	S235	40x40x2.5	1764
2344	987	1006	-	-	S235	40x40x2.5	1764
2345	1006	988	-	-	S235	40x40x2.5	1764
2346	989	1009	-	-	S235	40x40x2.5	1764
2347	1009	990	-	-	S235	40x40x2.5	1764
2348	991	1012	-	-	S235	40x40x2.5	1764
2349	1012	992	-	-	S235	40x40x2.5	1764
2350	993	1015	-	-	S235	40x40x2.5	1764
2351	1015	994	-	-	S235	40x40x2.5	1764
2352	995	1018	-	-	S235	40x40x2.5	1764
2353	1018	996	-	-	S235	40x40x2.5	1764
2354	997	998	-	-	S235	40x40x2.5	1000
2355	998	999	-	-	S235	40x40x2.5	1000
2356	999	1000	-	-	S235	40x40x2.5	1000
2357	1000	1001	-	-	S235	40x40x2.5	1000
2358	1001	1002	-	-	S235	40x40x2.5	1000
2359	1002	1003	-	-	S235	40x40x2.5	1000
2360	1003	1004	-	-	S235	40x40x2.5	1000
2361	1004	1005	-	-	S235	40x40x2.5	1000
2362	1005	1006	-	-	S235	40x40x2.5	1000
2363	1006	1007	-	-	S235	40x40x2.5	1000
2364	1007	1008	-	-	S235	40x40x2.5	1000
2365	1008	1009	-	-	S235	40x40x2.5	1000
2366	1009	1010	-	-	S235	40x40x2.5	1000
2367	1010	1011	-	-	S235	40x40x2.5	1000
2368	1011	1012	-	-	S235	40x40x2.5	1000
2369	1012	1013	-	-	S235	40x40x2.5	1000
2370	1013	1014	-	-	S235	40x40x2.5	1000
2371	1014	1015	-	-	S235	40x40x2.5	1000
2372	1015	1016	-	-	S235	40x40x2.5	1000
2373	1016	1017	-	-	S235	40x40x2.5	1000
2374	1017	1018	-	-	S235	40x40x2.5	1000

< Truss >

*** TRUSS MEMBER DATA

NO	NODAL CONNECTIVITY I	J	MATERIAL	SECTION	TENSION / COMPRESSION	SECTION I	AREA J	LENGTH
292	1	175	S235 Controven~		N	113.1	-	4014
293	19	178	S235 Controven~		N	113.1	-	4014
306	103	247	S235 Controven~		N	113.1	-	4014
307	106	250	S235 Controven~		N	113.1	-	4014
600	163	333	S235 Controven~		N	113.1	-	4014
601	166	336	S235 Controven~		N	113.1	-	4014
614	235	405	S235 Controven~		N	113.1	-	4014
615	238	408	S235 Controven~		N	113.1	-	4014
965	291	461	S235 Controven~		N	113.1	-	4014
966	309	464	S235 Controven~		N	113.1	-	4014
979	393	533	S235 Controven~		N	113.1	-	4014
980	396	536	S235 Controven~		N	113.1	-	4014
1287	449	653	S235 Controven~		N	113.1	-	4619
1288	452	654	S235 Controven~		N	113.1	-	4619
1289	521	689	S235 Controven~		N	113.1	-	4619
1290	524	690	S235 Controven~		N	113.1	-	4619
1650	647	785	S235 Controven~		N	113.1	-	4619
1651	648	786	S235 Controven~		N	113.1	-	4619
1652	683	821	S235 Controven~		N	113.1	-	4619
1653	684	822	S235 Controven~		N	113.1	-	4619
1968	779	943	S235 Controven~		N	113.1	-	4619
1969	780	944	S235 Controven~		N	113.1	-	4619
1970	815	979	S235 Controven~		N	113.1	-	4619
1971	816	980	S235 Controven~		N	113.1	-	4619
2334	937	1000	S235 Controven~		N	113.1	-	4619
2335	938	1000	S235 Controven~		N	113.1	-	4619
2336	973	1018	S235 Controven~		N	113.1	-	4619
2337	974	1018	S235 Controven~		N	113.1	-	4619

< Self Weight >

[LOAD CASE : G1k]

; X,0, Y,0, Z,-1

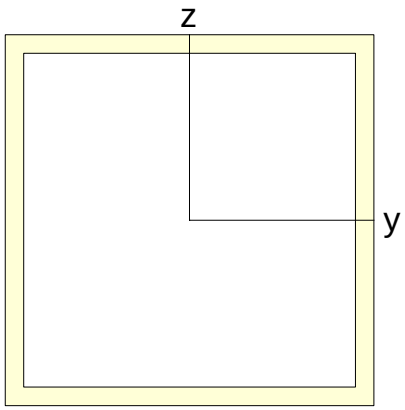
< Weight/Volume/Surface area of all member >

*** TOTAL WEIGHT / VOLUME / SURFACE AREA SUMMARY

SECTION	SECION	SURFACE AREA	VOLUMN	WEIGHT	FRAME	TRUSS

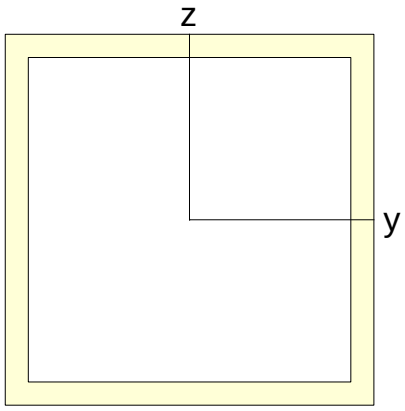
NO	NAME				NUMBER	NUMBER
1	60x60x3	2.847e+008	4.271e+008	32.88	468	0
2	40x40x2.5	6.934e+008	8.668e+008	66.73	1878	0
4	Controventi 12~	4.602e+006	1.381e+007	1.063	0	28

Table 1 1 : 60x60x3



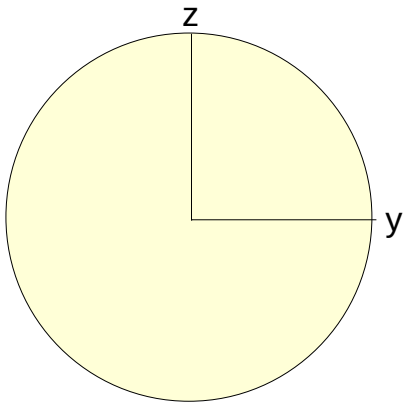
A(mm ^{2})	Asy(mm ^{2})	Asz(mm ^{2})	z(+)(mm)	z(-)(mm)
684.000	360.000	360.000	30.000	30.000
Ixx(mm ^{4})	Iyy(mm ^{4})	Izz(mm ^{4})	y(+)(mm)	y(-)(mm)
555579.000	371412.000	371412.000	30.000	30.000

Table 2 2 : 40x40x2.5



A (mm ^{2})	Asy (mm ^{2})	Asz (mm ^{2})	z (+) (mm)	z (-) (mm)
375.000	200.000	200.000	20.000	20.000
Ixx (mm ^{4})	Iyy (mm ^{4})	Izz (mm ^{4})	y (+) (mm)	y (-) (mm)
131835.937	88281.250	88281.250	20.000	20.000

Table 3 4 : Controventi 12mm



A (mm ^{2})	Asy (mm ^{2})	Asz (mm ^{2})	z (+) (mm)	z (-) (mm)
113.097	101.788	101.788	6.000	6.000
Ixx (mm ^{4})	Iyy (mm ^{4})	Izz (mm ^{4})	y (+) (mm)	y (-) (mm)
2035.752	1017.876	1017.876	6.000	6.000