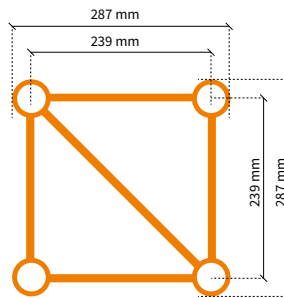




48.3 x 3 mm

Length Square

M29S

6.3 Kg/m

 ((RFID)
READY)

M

P.100

ALU/BLACK

Square - M29S

Code	Length
128001	21 cm
128002	25 cm
128003	29 cm
128004	50 cm
128005	71 cm
128015	75 cm
128006	100 cm
128007	150 cm
128008	200 cm
128009	250 cm
128010	300 cm
128012	400 cm

Load table M29S

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	1952.5	4	976.3	5	650.8	4	488.1	5	976.3	5
4.0	1308.4	15	941.5	19	647.1	17	485.3	19	485.3	18
6.0	921.5	33	649.9	42	492.3	39	392.3	42	321.6	41
8.0	705.9	58	505.5	74	371.2	69	299.1	74	195.7	73
10.0	567.4	91	410.7	116	295.3	108	239.7	116	123.2	114
12.0	470.1	131	343.2	167	243.0	155	198.3	167	83.8	164
14.0	397.3	178	292.3	228	204.3	211	167.5	228	60.1	223
16.0	340.4	233	252.2	297	174.3	276	143.4	297	44.7	291
20.0	256.0	364	192.3	464	130.3	431	107.9	464	26.5	454

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	kg	mm	kg/m	mm
0.5	980.5	0	1958.2	0
1.0	979.1	1	976.3	1
1.5	839.6	5	649.0	3
2.0	652.5	12	485.3	7
2.5	539.5	24	387.1	13
3.0	458.8	43	276.5	19
3.5	398.2	69	204.9	27
4.0	351.0	103	159.9	36

Multiple supported span

Span	CPL	Deflection	2 x Load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg/m	mm
2.0	1418.0	1	726.0	1	779.9	0
4.0	1407.7	6	715.4	5	387.1	4
6.0	1109.9	15	625.5	14	256.2	12
8.0	866.3	28	479.4	25	153.7	23
10.0	705.5	45	391.5	40	100.7	37
12.0	589.6	64	327.8	58	70.6	54
14.0	501.4	87	279.2	79	51.8	73
16.0	431.5	112	240.6	101	39.2	94
20.0	326.3	165	182.2	150	23.9	158

Find complete loading tables on SIXTY82.nl

All loading data is based on calculations per EN-1999-1-1 and the following assumptions:

- Static loads only.
- Spans supported or suspended at both ends.
- Triangle trusses solely used apex-up, apex-down.
- 2 chords truss to be placed upright, supported from top chord and loaded from bottom chord.
- Truss spans can be constructed of elements of different length.
- Interaction between bending moment and shear force considered.
- Self-weight of truss is already considered.
- Assembled truss systems need an individual structural calculation. Please contact SIXTY82 or a structural engineer.
- Read the manual before use.
- Higher loading can be allowed depending on the truss configuration.

Accessories

M29

BASE PLATE
211003 329 x 297 x 5 mm



Half connector (202007) and bolt (817003) not included

BASE PLATE
211004 329 x 329 x 5 mm



Half connector (202007) and bolt (817003) not included

LIFTING BRACKET M29
212001 WLL 1000 kg



HANG-ON82 M29 TO M29S-T
251003 10.2 kg



NEW

HANG-ON82 M29 TO M29L
251004 7.06 kg



NEW

BOOK CORNER M29T-S
198001



NEW

WALL ADAPTER M29S-T
212006



NEW

BOOK-FIX
198004



BASE PLATE STEEL		M29/M39
Code	Finish	35,0 kg
211009	Black	Ø 800 x 8 mm
211010	Zinc	



Half connector not included

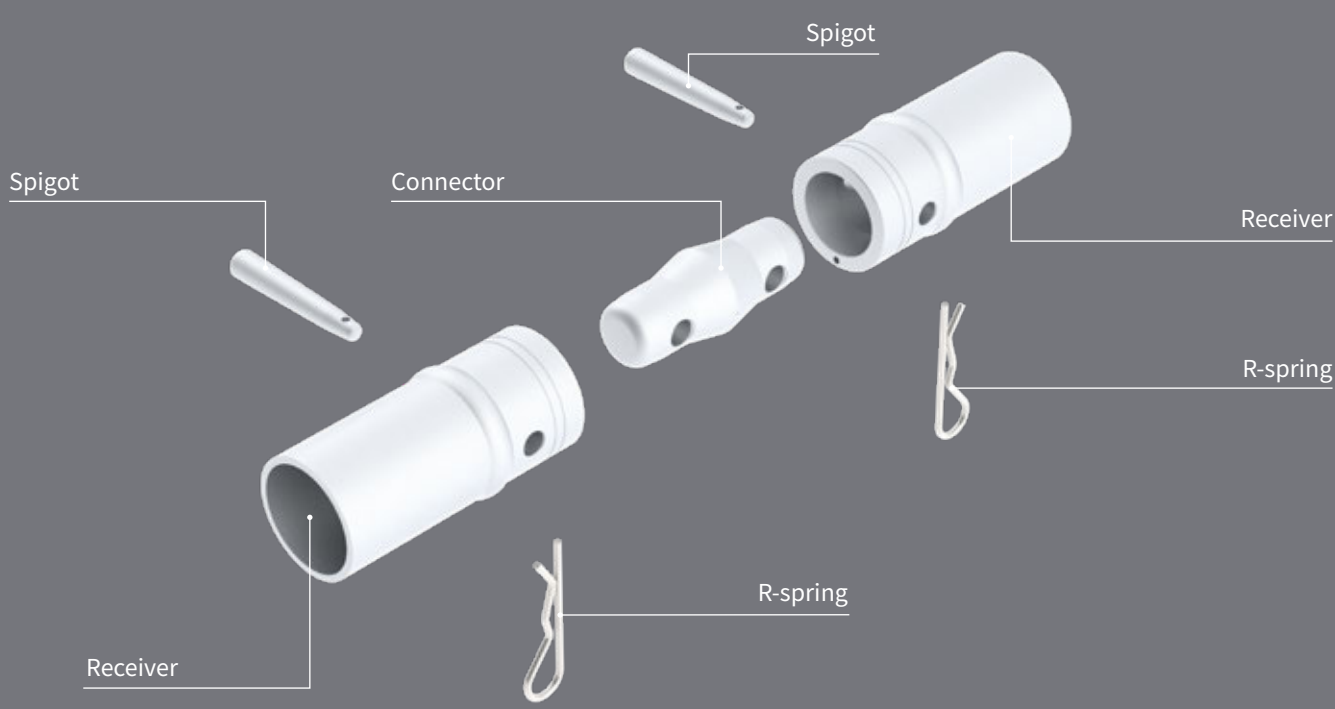
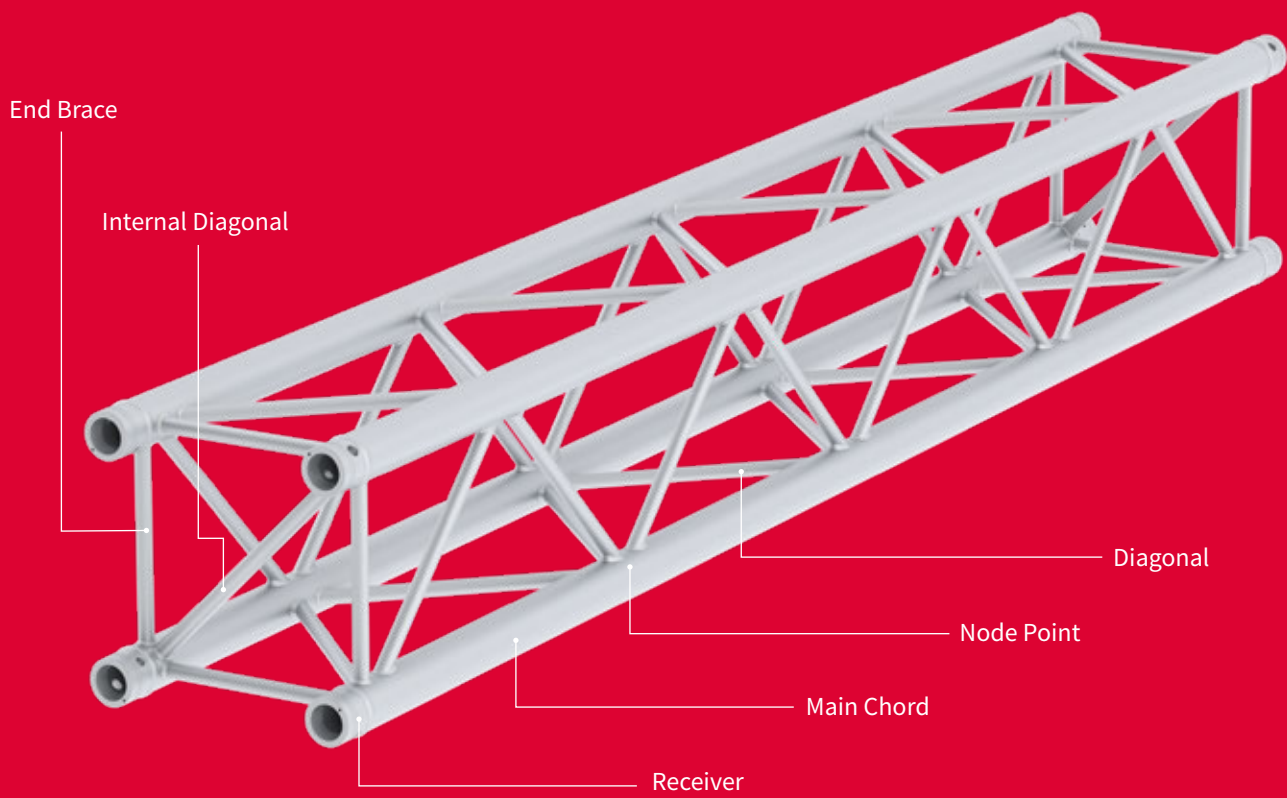
BASE PLATE STEEL		M29/M39
Code	Finish	41,0 kg
211011	Black	800 x 800 x 8 mm
211012	Zinc	



Half connector not included

<p>CONNECTOR M00 202001</p> 	<p>SPIGOT M03 202003</p> 	<p>SPIGOT / THREAD M04 202004</p>  <p>Nut M8 (815001)</p>	<p>R-SPRING M05 202005</p> 														
<p>RECEIVER 75 mm M51 202009</p>  <p>Locator pin (811003)</p>	<p>RECEIVER 105 mm M53 202026</p>  <p>Locator pin (811003)</p>	<p>HALF CONNECTOR M52S 202008</p>  <p>Locator pin (811003)</p>	<p>HALF CONNECTOR M02 202002</p>  <p>M12</p>														
<p>HALF CONNECTOR M50 202010</p>  <p>M12</p>	<p>HALF CONNECTOR M49 202007</p>  <p>M12</p>	<p>SPACER</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Length</th> </tr> </thead> <tbody> <tr> <td>202011</td> <td>2 mm</td> </tr> <tr> <td>202012</td> <td>10 mm</td> </tr> <tr> <td>202013</td> <td>20 mm</td> </tr> <tr> <td>202014</td> <td>30 mm</td> </tr> <tr> <td>202015</td> <td>40 mm</td> </tr> <tr> <td>202016</td> <td>50 mm</td> </tr> </tbody> </table>  <p>L</p>		Code	Length	202011	2 mm	202012	10 mm	202013	20 mm	202014	30 mm	202015	40 mm	202016	50 mm
Code	Length																
202011	2 mm																
202012	10 mm																
202013	20 mm																
202014	30 mm																
202015	40 mm																
202016	50 mm																
<p>HINGE MALE 202019</p>  <p>Locator pin</p>	<p>HINGE FEMALE 202018</p>  <p>Locator pin</p>	<p>HINGE PIN 202020</p> <p>∅ 16 x 50 mm</p> 	<p>LOCATOR PIN 3 x 10 811003</p> 														
<p>COMPLETE HINGE SET 202041</p>  <p>100</p>																	

Truss terminology... **what is what?**



For further information, please refer to the SIXTY82 original user manual.

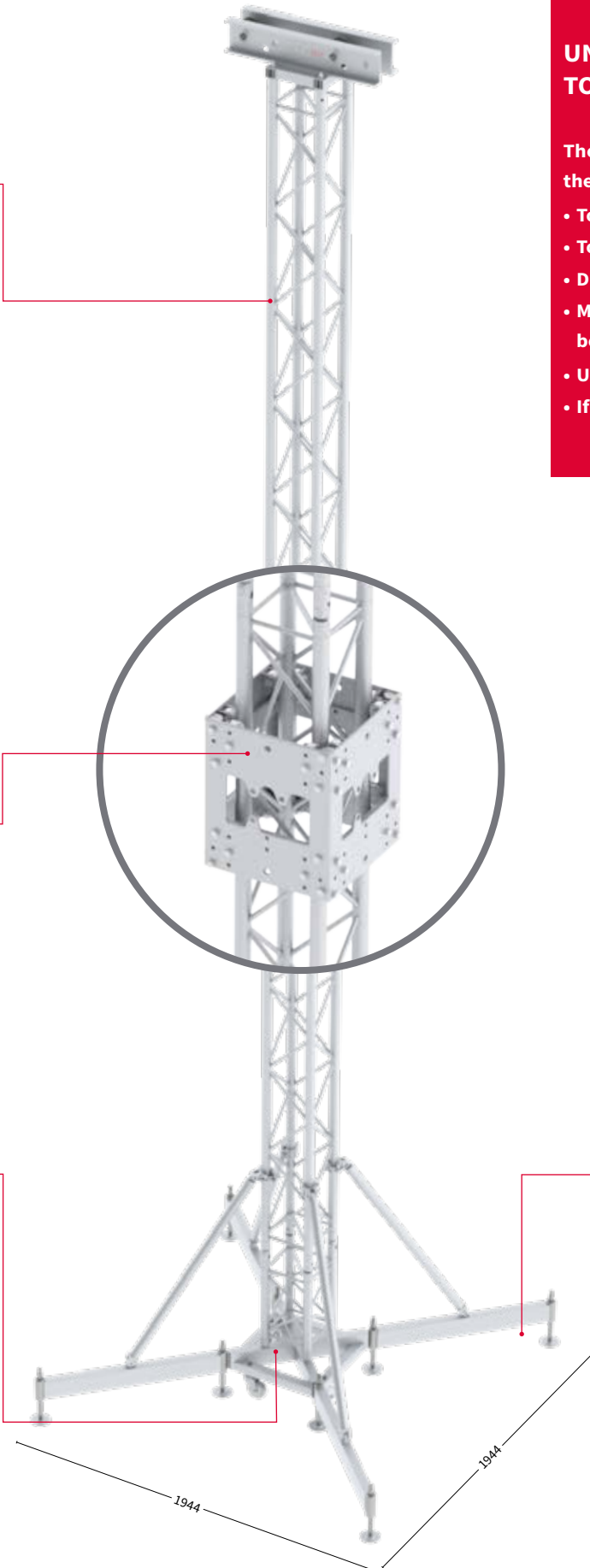


Tower Model M

M29S
Trussing Tower

Integrated
deadhang:
safe and fast

Alu Base:
see detailed
information
leaflet



HOW TO?

UNDERSTANDING TOWER LOADING

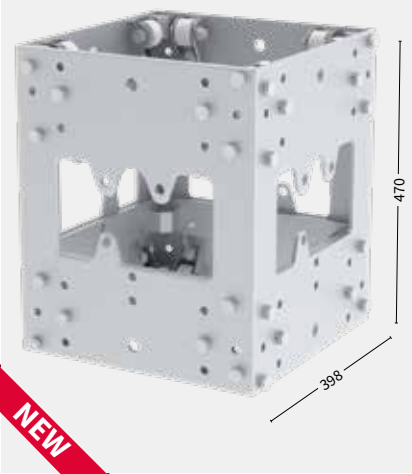
The following variables determine the allowable tower loading:

- Tower length
- Tower cross sectional dimensions
- Dimension of chords
- Method of restraining top and bottom of the tower
- Use of guy wires
- If the tower base is ballasted

Self-locking
outrigger system:
a unique feature
of the Alu Base



SLEEVE BLOCK PLATED M10
232001 25.2 kg



WHY M10 SLEEVE BLOCK PLATED?

- Completely bolted to avoid weakening due to welding
- Lighter weight due to use of special alloys
- Integrated deadhang system
- Deadhang system restrains the sleeve block in 2 directions, therefore optimised for roof systems
- Radiused edges for ease of handling

HEAD SECTION M09
233001 7.3 kg



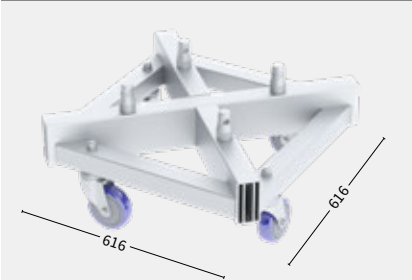
M29S-Safe-L100 SAFE SYSTEM
232010



M29S-Safe PIN
232011



ALU BASE M04
231001 12.9 kg

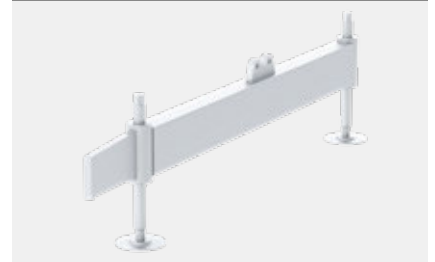


- Lighter due to use of bespoke aluminium extrusions
- Compact design
- Self locking outrigger system
- No moving locking parts

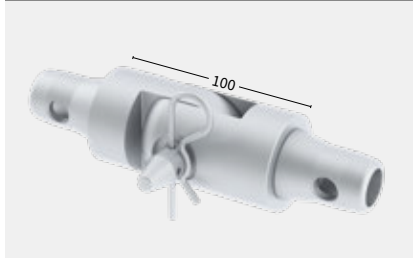
SHORT OUTRIGGER M11
231002 3.1 kg



LONG OUTRIGGER M12
231003 10.1 kg



HINGE PART
202041 2.15 kg



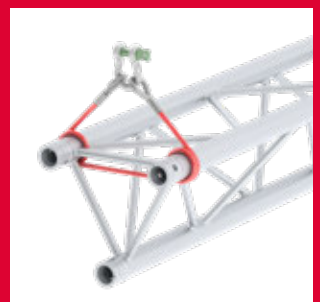
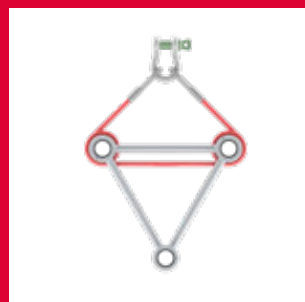
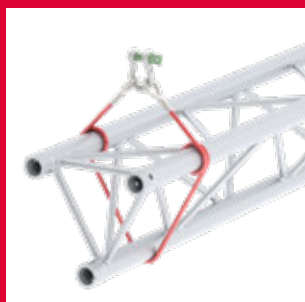
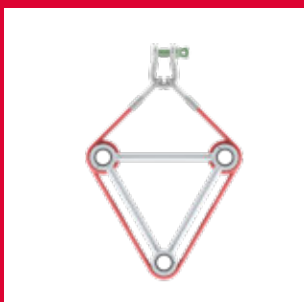
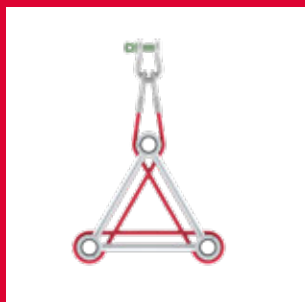
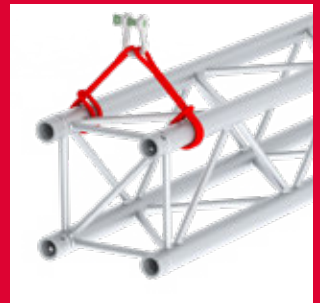
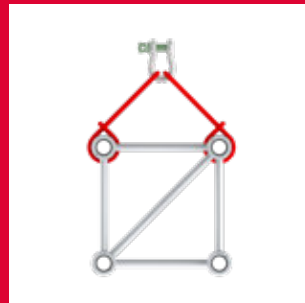
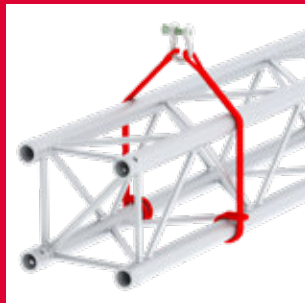
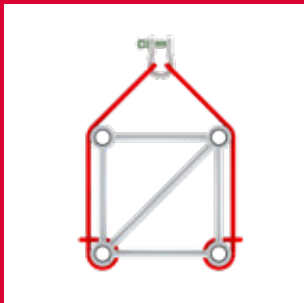
STABILISER M
234005 2.11 kg



Locking pin (202025)

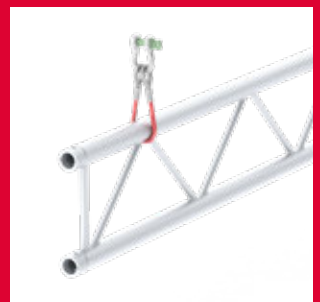
User information

Advised slinging methods



Ladder truss

These need special attention for slinging. Stabilisation of the top chord is vital for the load capacity. Only the bottom chord shall be loaded. Other load applications need structural analysis before use.



Slinging shall be applied solely at the main chords, not at the couplers or internal braces unless approved by a chartered engineer. Slinging shall be applied at node points, aside end braces or aside horizontal cross braces. Slinging equipment shall be made from non-abrasive and fire retardant materials.

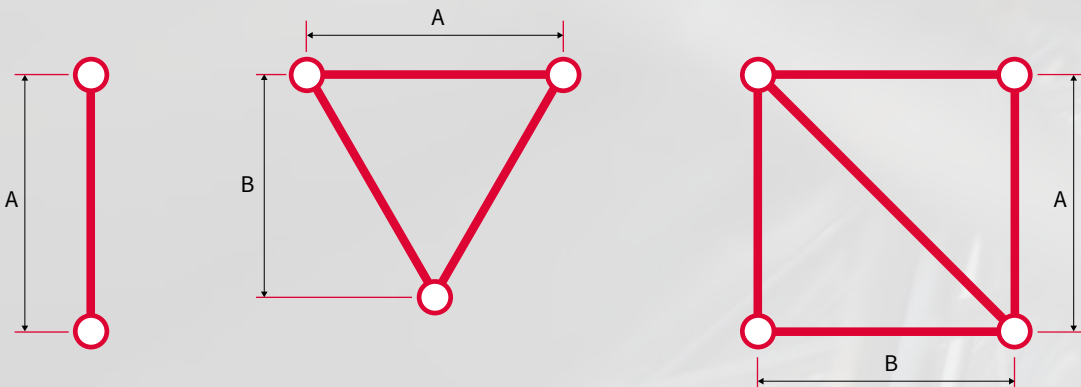
For further information, please refer to the SIXTY82 original user manual.



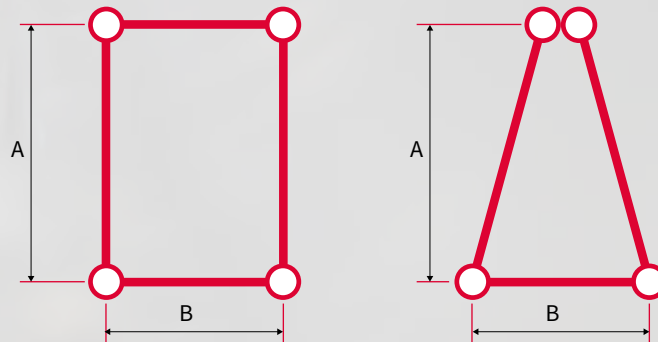


Data Center

Type	Coupler type	Truss length	Truss wide	Material	Cross section tubes				Dead weight	RFID
					Main chord		Diagonals			
					Ø mm	≠ mm	Ø mm	≠ mm		
S22T	Model S	160.2	185.0	EN AW 6060 T6	35.0	1.5	8.0	4.0	2.5	✗
S22S		185.0	185.0		35.0	1.5	8.0	4.0	3.0	
M29L	Model M	239.0	0	EN AW 6082 T6	48.3	3.0	16.0	2.0	3.0	✓
M29T		239.0	207.0		48.3	3.0	16.0	2.0	5.0	
M29TX		239.0	207.0		51.0	2.0	16.0	2.0	4.0	
M29S		239.0	239.0		48.3	3.0	16.0	2.0	6.3	
M39T		339.0	294.0		48.3	3.0	16.0	2.0	5.5	
M39S		339.0	339.0		48.3	3.0	16.0	2.0	6.9	
M39R		339.0	339.0		48.3	3.0	16.0	2.0	6.9	
M39TOW		339.0	339.0		50.0	4.0	25.0	3.0	12.0	
L35S	Model L	299.0	299.0		50.0	4.0	30.0	3.0	12.0	✓
L35R		299.0	207.0		50.0	4.0	30.0	3.0	11.0	
L52S		470.0	470.0		50.0	4.0	30.0	3.0	15.0	
L53TOW		470.0	470.0		60.0	5.0	30.0	3.0	17.5	
XL101R		950.0	520.0		60.0	6.0	48.3	3.0	25.0	✓
XL101F		950.0	520.0		60.0	6.0	48.3	3.0	25.0	✓



Type	Cross section truss					Permissible internal forces truss				
	A cm ²	I _y cm ⁴	I _z cm ⁴	I _y cm	I _z cm	Bending moment		Normal force	Transversal force	
						My kNm	Mz kNm	N kN	V _y kN	V _z kN
S22T	4.74	276.75	276.80	7.60	7.60	1.62	1.87	10.10	1.64	2.83
S22S	6.31	549.17	549.17	9.30	9.30	3.74	3.74	10.10	3.27	3.27
M29L	8.54	1055.16	22.0	11.12	1.61	12.08	-	101.10	-	7.36
M29T	12.81	1064.71	1064.71	9.12	9.12	10.46	12.08	151.65	7.36	12.76
M29TX	9.24	771.16	771.01	9.14	9.14	7.55	8.71	109.36	12.76	7.36
M29S	17.08	2110.33	2110.33	11.12	11.12	24.16	24.16	202.20	14.73	14.73
M39T	12.81	2119.23	2119.23	12.86	12.85	14.86	17.14	151.65	9.47	16.40
M39S	17.08	4207.89	4207.89	15.70	15.70	34.27	34.27	202.20	18.94	18.94
M39R	17.08	4207.89	2110.33	15.70	11.13	34.27	24.16	202.20	18.94	14.73
M39TOW	23.12	5698.96	5500.00	15.70	15.42	36.06	36.06	212.77	40.22	40.22
L35S	23.12	4445.05	4445.05	13.87	13.87	40.93	40.93	273.77	45.48	45.48
L35R	23.12	4445.05	1750.00	13.87	8.70	40.93	-	273.77	-	45.48
L52S	23.12	10906.19	10906.19	21.72	21.72	64.33	64.33	273.77	49.36	49.36
L53TOW	34.60	16334.00	16334.00	21.74	21.74	58.60	58.60	249.00	28.80	28.80
XL101R	40.72	78211.52	23522.57	43.83	24.04	224.32	122.79	472.26	42.54	90.48
XL101F	-	78211.52	-	43.83	-	224.32	-	472.26	-	86.61



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