LITEC

Strutture & Soluzioni

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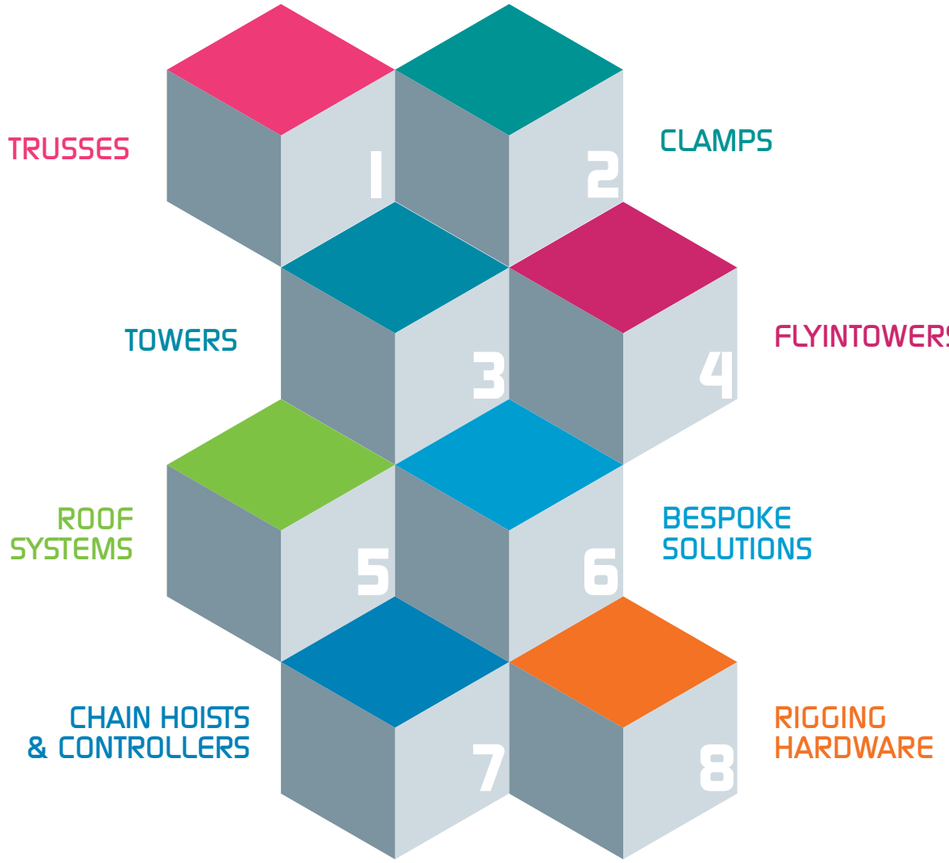
LITEC designs and manufactures bespoke and standard aluminium truss systems for entertainment, corporate, film and TV, concert touring, theme park and architectural applications. The company assists clients from initial concept to installation providing them with knowledge and experience to realize safe, simple and easy-to-assemble solutions. To complete the Trussing line, LITEC offers a wide range of Rigging products, electric chain hoists, controllers and accessories complying with the highest standards of quality and safety. High quality equals safety. LITEC has always been on the front line to spread out know-how in the industry organizing training for professionals.

LITEC meets all your trussing and rigging needs thanks to our cutting edge technology, design innovation, extensive product portfolio and global support network.

You can follow us on www.litectruss.com, Facebook and YouTube.



RESPONSIBILITY

Responsibility in thinking and designing. Responsibility in producing, testing, verifying. Responsibility in giving what you need on time. Responsibility in giving answers. Building trusses is a great responsibility. First and foremost we must guarantee safety. We understand this responsibility and this makes us focus on the attention to detail. Our ever increasing range of products is a responsibility we have embraced since we produced our first truss.
This responsibility is manufactured into every product we make. Alongside the guarantee of high quality manufacturing processes and testing procedures, lies the dedication and the passion of people who love their job.

SECTORS OF APPLICATIONS

Aluminium trusses have been used by technicians in theatres, television studios and at rock concerts for a long time now. Today however they have spread to all sectors where structures have to be built for hanging lights, equipment, false ceiling, etc. They are aesthetically pleasing, light and sturdy, and can also be used to set up fairs stands, in showrooms, in shops, in modern cinemas, in entertainment venues, in large sports complexes to support large advertising panels, and in multipurpose halls such as railways and airport concourses. LITEC assists clients at every stage, from initial concept to completion of the structure. No matter how simple or complex the project, LITEC is on-hand to provide safe, high-performance and innovative solutions.
The best-suited products and the most professional team, leading to the right solution to every request.

CERTIFICATIONS

There are different levels of quality when talking about aluminium trusses. There is the quality of the raw material, the quality of welding and the quality on the manufacturing process. Products have to comply with all the relevant international standards and they are tested and certified by the most respectable certification institutes. High quality equals safety. This is guaranteed not only through certificates, but also with common sense and deep knowledge of engineers and installers. The product needs to be calculated and certified through rigorous calculation reports and installation must be tested by a qualified engineer.
The Standards that are commonly used for the technical evaluation of a product refer to normative codes issued and recognized at a national and international level. Among these we can mention ANSI, BS, EN, ISO, DIN. Each of these outlines a different calculation approach, still leading to similar results.

LITEC's products and processes are certified by the following bodies:

TÜV Süd One of the world's leading organizations that supplies technical services and certifies the quality of processes and products.

GSI SLV München (Schweißtechnische Lehr – und Versuchsanstalt) They certify that welding quality control process is carried out in accordance with German standard DIN V 4113-3. LITEC is certified at class C, the most demanding of the certification grades, corresponding to the highest levels of quality.

DVS Zert They certify the process of welding according to the European and international standard EN ISO 3834-2, and provide certified welders' licenses. DVS Zert is ANBCC (Authorized National Body for Company Certification) for Germany, within EWF (European Welding Federation) and IIW (International Institute of Welding).

DIBt (Deutsches Institut für Bautechnik) They are the Center of Competence in Civil Engineering by certifying the resistance of welding between aluminium extruded profiles and die-cast end plates. They are a member of EOTA (European Organisation for Technical Approvals) and other national and international organisations.

University of Padua – Department of Civil, Environmental and Architectural Engineering They carry out 'Stress Tests' on trussing products.

Iuav University of Venice – Department of Architectural Construction They carry out 'Stress Tests' on trussing products.

Statehood Day – Kongresni Square – Ljubljana, Slovenia
Photo courtesy of Prozvok, d.o.o., Notranje Gorice, Slovenia
Photo credit: Martin Cvetko / Prozvok

LITEC Strutture & Soluzioni
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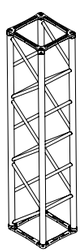
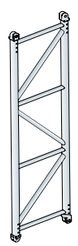
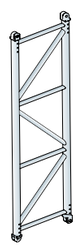
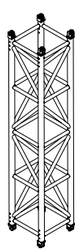
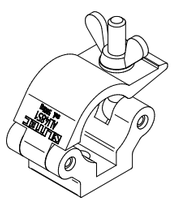
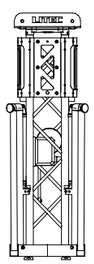
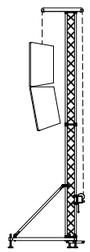
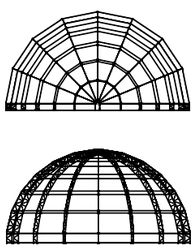
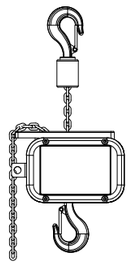
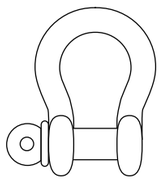









TRUSSES

QUALITY

LITEC offers a vast and complete range of trusses, which includes the series with end plates, the new truss line provided with conical connection, the LIBERA System and the High Load Trusses with forked connections, in order to meet the needs of operators in various different sectors. Trusses are aesthetically pleasing, light and robust and are used where structures have to be built for hanging lights, equipment, false ceiling, etc. To provide the right solution for every situation, with the most suitable product.

"END-PLATED" TRUSSES

RELIABILITY

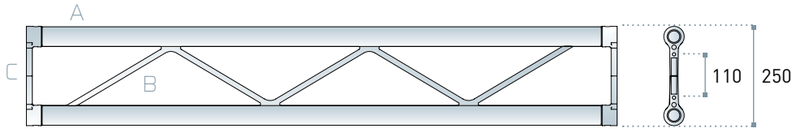
The end-plated truss line stands out for its design, durability and reliability. Strengthened by a dual connection system of spigots or bolts, represents a benchmark for the installations sector.
The end plate guarantees relevant benefits:

- Greater twist resistance
- Minimal eccentricity
- Absolute compatibility between trusses.

In addition, when end-plated trusses are loaded in a van, they allow to use the room inside them, thus exploiting space at the best.

FX25S

Flat section aluminium truss with 25 cm long sides. This is the smallest of our flat, end-plated trusses. Internal diagonal braces are made using 14 mm extruded aluminium, which helps to keep the visual profile of the truss to a minimum. Also suitable for use in tight spaces.



Chords A: extruded tube Ø 50x1,5 mm
EN AW 6005 T6

Diagonals B: extruded tube Ø 14x1,5 mm
EN AW 6060 T6

Ends C: aluminium casting plate
EN AC 42200 T6

Connection systems
FXFC: quick-fit kit
FXSM8: bolt connection kit

LINEAR ELEMENTS

code	cm	kg
FX25S012M5	25x5x12.5	0.8
FX25S025	25x5x25	1.0
FX25S050	25x5x50	1.5
FX25S100	25x5x100	2.2
FX25S150	25x5x150	3.0
FX25S200	25x5x200	3.9
FX25S250	25x25x250	4.6
FX25S300	25x5x300	5.4
FX25S350	25x5x350	6.2
FX25S400	25x5x400	7.0

CORNERS AND FITTINGS

code	cm	kg
FX25ACS	25x12.5x5	1.7
FX25K2	25x5x5	1.2
FX25K4	25x25x5	3.3
FX25L2045P	50x50x5	2.0
FX25L2045V	50x50x25	3.0
FX25L2060P	50x50x5	2.7
FX25L2060V	50x50x25	3.3
FX25L2090P	50x50x5	1.7
FX25L2090V	50x50x25	1.8
FX25L2120P	50x50x5	1.7
FX25L2120V	50x50x25	1.9
FX25L2135P	50x50x5	2.1
FX25L2135V	50x50x25	1.9
FX25L3LP	50x50x50	2.5
FX25L3LV	50x50x50	2.7
FX25L3RP	50x50x50	2.7
FX25L3RV	50x50x50	2.7
FX25T3NP	50x50x5	2.1
FX25T3NV	25x50x50	2.1
FX25T4NP	50x50x50	3.0
FX25T4NV	50x50x50	2.7
FX25X4NP	50x50x55	2.1
FX25X4NV	50x50x25	2.4
FX25ACL	25x25x5	4.1

FX25S

LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	UNIF. DISTRIBUTED LOAD full load kg	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD full load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD full load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD full load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD full load kg	FIFTH POINT LOAD central deflection mm
1	269	269	0	269	269	0	135	269	0	90	269	0	67	269	0
2	134	267	1	261	261	1	134	267	0	89	267	1	67	267	1
3	45	136	2	79	79	1	51	102	2	36	109	2	28	113	2
4	13	52	2	31	31	1	20	39	2	14	42	2	11	43	2
5	4	21	2	13	13	1	8	16	2	6	17	2	4	18	2
6	1	6	2	5	5	1	2	5	2	2	6	2	1	5	2

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIFORMLY DISTRIBUTED LOAD q am.- kg/m	UNIFORMLY DISTRIBUTED LOAD q am.- kg	UNIFORMLY DISTRIBUTED LOAD defl.- mm	CENTRE POINT LOAD F am. - kg	CENTRE POINT LOAD defl.- mm
1	134	134	1	130	1
2	64	127	4	84	7
3	19	56	6	23	7
4	5	18	6	7	6
5	1	4	6	1	5

AXIAL LOAD TABLE

H m	AXIAL LOAD N am. Kg
2	193
3	85
4	48

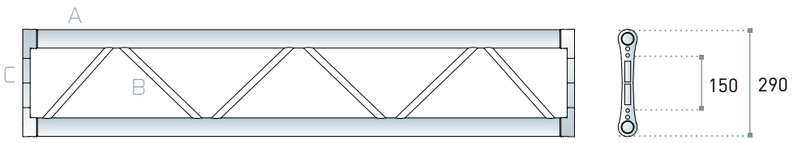
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

FX30S

Flat section aluminium truss with 29 cm long sides. The most widely used of the flat, end-plated trusses. Ideal for use in reticular/ grid structures and also perfectly suited for use alongside similar components supporting lightweight installations.



Chords A: extruded tube Ø 50x2 mm
EN AW 6082 T6

Diagonals B: extruded tube Ø 18x2 mm
EN AW 6082 T6

Ends C: aluminium casting plate
EN AC 42200 T6

Connection systems
FXFC: quick-fit kit
FXSM10: bolt connection kit

LINEAR ELEMENTS

code	cm	kg
FX30S010M5	29x5x10.5	1.3
FX30S021	29x5x21	1.5
FX30S025	29x5x25	1.6
FX30S050	29x5x50	1.8
FX30S100	29x5x100	2.7
FX30S150	29x5x150	3.7
FX30S200	29x5x200	4.7
FX30S250	29x5x250	5.8
FX30S300	29x5x300	6.7
FX30S350	29x5x350	7.7
FX30S400	29x5x400	8.7

CORNERS AND FITTINGS

code	cm	kg
FX30K2	29x5x5	1.3
FX30K4	29x29x5	3.3
FX30SL2060P	50x50x5	3.8
FX30SL2060V	50x50x29	3.0
FX30SL2090P	50x50x5	2.5
FX30SL2090V	50x50x29	2.8
FX30SL2120P	50x50x5	2.6
FX30SL2120V	50x50x29	2.9
FX30SL2135P	50x50x5	2.7
FX30SL2135V	50x50x29	2.9
FX30SL3LP	50x50x50	3.8
FX30SL3LV	50x50x50	3.8
FX30SL3RP	50x50x50	3.8
FX30SL3RV	50x50x50	3.7
FX30ST3NP	50x50x5	2.9
FX30ST3NV	50x50x29	4.2
FX30ST4NP	50x50x50	3.0
FX30ST4NV	50x50x50	4.2
FX30SX4NP	50x50x5	3.4
FX30SX4NV	50x50x29	3.9
FX30SACL	29x21x5	2.4
FX30SACS	29x10.5x5	2.1

FX30S

LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	UNIF. DISTRIBUTED LOAD full load kg	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD full load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD full load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD full load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD full load kg	FIFTH POINT LOAD central deflection mm
1	1169	1169	0	1124	1124	0	585	1169	0	390	1169	0	292	1169	0
2	366	732	1	423	423	1	274	549	1	195	586	1	152	610	1
3	70	211	1	123	123	1	79	158	1	56	169	1	44	176	1
4	21	83	1	48	48	1	31	62	1	22	67	1	17	69	1
5	7	35	1	21	21	1	13	26	1	10	29	1	7	29	1
6	2	13	1	9	9	1	5	10	1	4	11	1	3	11	1

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIFORMLY DISTRIBUTED LOAD q am.- kg/m	UNIFORMLY DISTRIBUTED LOAD q am.- kg	UNIFORMLY DISTRIBUTED LOAD defl.- mm	CENTRE POINT LOAD F am. - kg	CENTRE POINT LOAD defl.- mm
1	560	560	1	380	1
2	157	315	5	157	5
3	29	87	5	44	8
4	8	30	5	15	9
5	2	8	5	4	7

AXIAL LOAD TABLE

H m	AXIAL LOAD N am. Kg
2	251
3	111
4	63

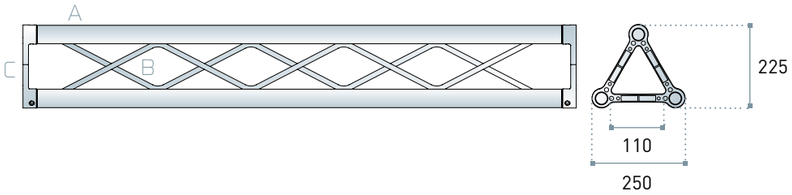
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

TX25SA
ANTI-TORSION

Triangular section aluminium truss with 25 cm long sides. This is the triangular version of the lightest professional structure, yet it is able to guarantee a reasonable loading capacity and span. The internal 14 mm diameter diagonal components are flush which decreases the aesthetic impact of this truss, which may therefore also be used in small areas.



Chords A: extruded tube Ø 50x1,5 mm
EN AW 6005 T6

Diagonals B: extruded tube Ø 14x1,5 mm
EN AW 6060 T6

Ends C: aluminium casting plate
EN AC 42200 T6

Connection systems
TXFC: quick-fit kit
TXSM8: bolt connection kit

LINEAR ELEMENTS

code	cm	kg
TX25S012M5	25x22.5x12.5	1.3
TX25S025	25x22.5x25	1.6
TX25S050	25x22.5x50	2.2
TX25S100	25x22.5x100	3.6
TX25S150	25x22.5x150	4.8
TX25S200	25x22.5x200	5.8
TX25S250	25x22.5x250	7.0
TX25S300	25x22.5x300	8.1
TX25S350	25x22.5x350	9.5
TX25S400	25x22.5x400	10.6

CORNERS AND FITTINGS

code	cm	kg
TX25SL2045	100x100x22.5	6.8
TX25SL2060	100x100x22.5	7.2
TX25SL2090	50x50x22.5	4.3
TX25SL2090I	50x50x25	3.0
TX25SL2090E	50x50x25	3.0
TX25SL2120	50x50x22.5	3.0
TX25SL2135	50x50x22.5	3.1
TX25SL3L	50x50x50	4.2
TX25SL3LU	50x50x50	4.1
TX25SL3R	50x50x50	4.2
TX25SL3RU	50x50x50	4.1
TX25ST3	50x50x22.5	3.4
TX25ST3F	50x25x50	3.6
TX25ST3FU	50x25x50	3.5
TX25ST4	50x50x50	4.8
TX25ST4RU	50x50x50	4.9
TX25SL3LU	50x50x50	4.9
TX25SX4	50x50x22.5	4.0
TX25SX5	50x50x50	6.1
TX25SX5NU	50x50x50	6.1

TX25SA

LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	UNIF. DISTRIBUTED LOAD full load kg	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD full load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD full load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD full load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD full load kg	FIFTH POINT LOAD central deflection mm
1	467	467	0	467	467	0	233	467	0	156	467	0	117	467	0
2	232	464	1	352	352	2	227	455	2	155	464	2	116	464	2
3	154	461	5	260	260	4	174	348	5	140	420	6	113	450	6
4	115	458	12	205	205	8	141	281	10	113	338	11	88	353	11
5	76	381	19	168	168	14	117	234	16	91	273	17	72	287	18
6	53	320	28	141	141	20	99	199	24	76	227	26	60	240	26
7	39	270	39	121	121	28	86	172	34	64	193	35	51	204	36
8	29	231	51	105	105	38	75	150	45	56	167	47	44	178	47
9	22	200	64	92	92	49	66	132	58	48	144	59	39	154	60
10	18	176	80	81	81	61	59	117	73	42	127	74	34	136	75
11	14	154	96	71	71	75	53	105	91	37	111	89	30	121	92
12	11	133	113	63	63	91	47	93	109	33	98	106	27	107	110
13	9	116	131	56	56	109	41	83	129	29	87	126	24	95	130
14	7	104	154	50	50	128	37	74	151	26	78	148	21	83	150

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

SPAN	UNIFORMLY DISTRIBUTED LOAD q			CENTRE POINT LOAD F	
m	q am.- kg/m	q am.- kg	defl.- mm	F am. - kg	defl.- mm
1	232	232	1	175	2
2	85	171	5	101	8
3	41	123	13	69	20
4	23	93	25	51	35

AXIAL LOAD TABLE

H m	AXIAL LOAD N am. Kg
3	2871
6	744
9	333
12	188

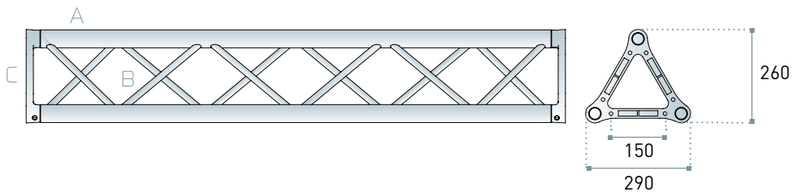
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

TX30SA
ANTI-TORSION

Triangular section aluminium truss with 29 cm long sides. This is the most popular version of all our triangular trusses. It is manufactured using 6082 aluminium alloy extruded components, with a high load-bearing capacity and twist-resistant strength. The diagonal chords have been re-configured and their diameter changed to improve the aesthetic appearance and increase the overall strength of the truss.



Chords A: extruded tube Ø 50x2 mm
EN AW 6082 T6

Diagonals B: extruded tube Ø 18 x 2 mm
EN AW 6082 T6

Ends C: aluminium casting plate
EN AC 42200 T6

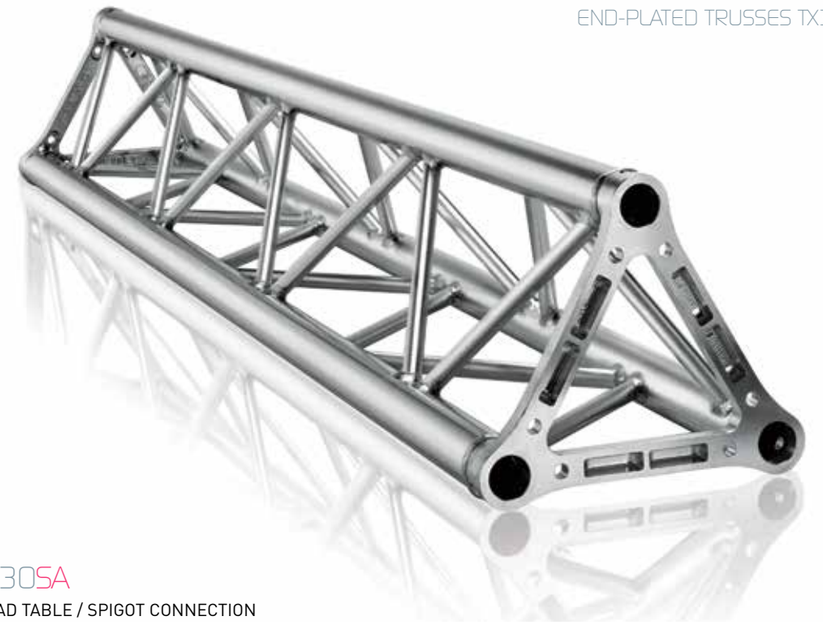
Connection systems
TXFC: quick-fit kit
TXSM10: bolt connection kit

LINEAR ELEMENTS

code	cm	kg
TX30S010M5	29x26x10.5	2.3
TX30S021	29x26x21	2.6
TX30S025	29x26x25	2.7
TX30S050	29x26x50	3.7
TX30S100	29x26x100	5.4
TX30S150	29x26x150	7.2
TX30S200	29x26x200	9.0
TX30S250	29x26x250	10.7
TX30S300	29x26x300	12.5
TX30S350	29x26x350	14.2
TX30S400	29x26x400	16.0

CORNERS AND FITTINGS

code	cm	kg
TX30SL2045	100x100x26	6.9
TX30SL2045I	100x100x29	6.9
TX30SL2060	100x100x26	7.0
TX30SL2060I	100x100x29	7.1
TX30SL2090	50x50x26	4.4
TX30SL2090I	50x50x29	4.5
TX30SL2120	50x50x26	4.6
TX30SL2120I	50x50x29	4.9
TX30SL2135	50x50x26	4.9
TX30SL2135I	50x50x29	5.0
TX30SL3L	50x50x50	6.5
TX30SL3LU	50x50x50	6.3
TX30SL3R	50x50x50	6.4
TX30SL3RU	50x50x50	6.3
TX30ST3	50x50x26	5.5
TX30ST3F	29x50x50	5.8
TX30ST3FU	29x50x50	5.5
TX30ST4	50x50x50	7.5
TX30ST4RU	50x50x50	7.8
TX30ST4LU	50x50x50	7.8
TX30SX4	50x50x26	6.2
TX30SX5	50x50x50	8.4
TX30SX5NU	50x50x50	8.6
TX30SX6	50x50x50	9.3



TX30SA

LOAD TABLE / SPIGOT CONNECTION

	UNIF. DISTRIBUTED LOAD			CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD		
SPAN m	point load kg/m	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm
1	2025	2025	0	1306	1306	0	830	1661	0	638	1913	0	506	2025	0
2	919	1837	3	784	784	2	534	1068	2	433	1300	3	338	1351	3
3	418	1253	7	556	556	5	390	779	6	297	891	6	237	948	7
4	236	945	13	427	427	9	305	610	11	225	676	12	181	726	12
5	150	751	20	345	345	15	249	498	18	180	540	18	146	584	19
6	103	618	29	288	288	22	210	419	27	149	447	27	121	486	28
7	74	519	39	245	245	30	179	359	37	127	380	37	104	415	38
8	56	448	51	213	213	40	156	313	49	109	327	48	90	359	50
9	43	387	65	186	186	51	137	274	63	95	284	61	79	314	64
10	34	341	80	164	164	64	121	243	78	84	251	75	69	276	78
11	27	301	97	145	145	78	109	218	96	74	222	91	61	246	96
12	22	267	115	130	130	94	97	194	114	66	198	109	55	219	114
13	18	239	136	116	116	111	87	175	135	59	176	128	49	196	134
14	15	214	157	104	104	130	79	157	158	53	158	149	44	175	156
15	13	189	179	93	93	151	71	142	183	47	140	171	39	157	180
16	10	166	202	83	83	174	64	127	208	42	127	197	35	139	204

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

SPAN	UNIFORMLY DISTRIBUTED LOAD			CENTRE POINT LOAD	
m	q am.- kg/m	q am.- kg	defl.- mm	F am. - kg	defl.- mm
1	649	649	1	391	2
2	192	385	6	213	9
3	89	267	15	143	21
4	50	200	28	105	38
5	31	156	44	81	59
6	21	123	65	64	85

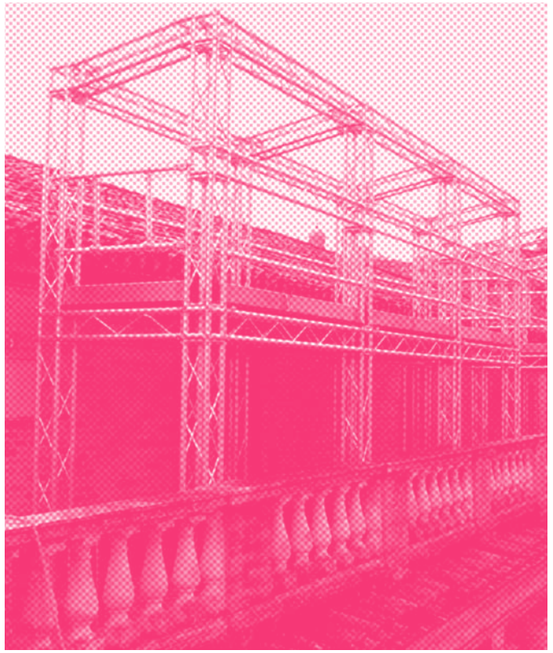
AXIAL LOAD TABLE

AXIAL LOAD	N
H m	N am. Kg
3	5399
6	1395
9	624
12	351

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

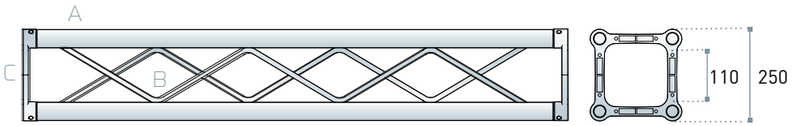
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered. The load tables values refer to the use of the truss with the apex down.



QX25SA
ANTI-TORSION

Square section aluminium truss with 25 cm long sides.
It is the lightest professional structure, yet it is able to guarantee a reasonable loading capacity and span. The internal 14 mm diameter diagonal components are flush which decreases the aesthetic impact of this truss, which may therefore also be used in small areas.



Chords A:	extruded tube Ø 50x1,5 mm	EN AW 6005 T6
Diagonals B:	extruded tube Ø 14x1,5 mm	EN AW 6060 T6
Ends C:	aluminium casting plate	EN AC 42200 T6

Connection systems QXFC: quick-fit kit QXSM8: bolt connection kit

LINEAR ELEMENTS

code	cm	kg
QX25S012M5	25x25x12.5	2.5
QX25S025	25x25x25	2.8
QX25S050	25x25x50	3.5
QX25S100	25x25x100	5.2
QX25S150	25x25x150	6.8
QX25S200	25x25x200	8.4
QX25S250	25x25x250	10.0
QX25S300	25x25x300	11.6
QX25S350	25x25x350	13.3
QX25S400	25x25x400	14.9

CORNERS AND FITTINGS

code	cm	kg
QX25K8 (Dado)	25x25x25	7.0
QX25SL2045	100x100x25	6.8
QX25SL2060	100x100x25	7.2
QX25SL2090	50x50x25	4.3
QX25SL2120	50x50x25	4.4
QX25SL2135	50x50x25	4.7
QX25SL2ADJ	50x50x25	5.9
QX25SL3	50x50x25	5.9
QX25ST3	50x50x50	5.3
QX25ST4	50x50x50	6.9
QX25SX4	50x50x25	6.6
QX25SX5	50x50x50	8.0
QX25SX6	50x50x50	9.0
QX25SACL	25x25x25	3.5
QX25SACS	25x12.5x25	3.4
QX25SACSC	25x12.5x25	3.4

QX25SA

LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	UNIF. DISTRIBUTED LOAD full load kg	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD full load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD full load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD full load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD full load kg	FIFTH POINT LOAD central deflection mm
1	537	537	0	537	537	0	269	537	0	179	537	0	134	537	0
2	267	533	1	533	533	1	267	533	1	178	533	1	133	533	1
3	176	529	3	484	484	4	264	529	4	176	529	4	132	529	3
4	131	525	7	400	400	8	258	516	9	175	525	9	131	525	8
5	104	521	13	339	339	14	223	446	15	174	521	17	130	521	16
6	86	516	23	293	293	21	196	391	24	157	471	26	127	507	27
7	73	512	37	256	256	30	173	347	34	141	424	38	110	441	38
8	63	508	55	227	227	40	156	311	46	125	376	51	98	391	51
9	52	467	72	203	203	52	140	280	60	111	333	66	87	347	66
10	41	415	90	183	183	66	127	253	76	99	298	82	78	311	82
11	34	375	110	165	165	81	116	231	95	89	267	101	70	281	101
12	28	338	132	150	150	99	105	210	115	80	240	120	64	255	122
13	24	308	157	136	136	117	96	193	137	73	218	143	58	231	144
14	20	279	183	124	124	139	88	176	161	66	198	167	53	210	169

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

SPAN	UNIFORMLY DISTRIBUTED LOAD			CENTRE POINT LOAD	
m	q am.- kg/m	q am.- kg	defl.- mm	F am. - kg	defl.- mm
1	267	267	0	267	1
2	131	262	4	197	8
3	77	232	12	143	20
4	46	186	24	111	38

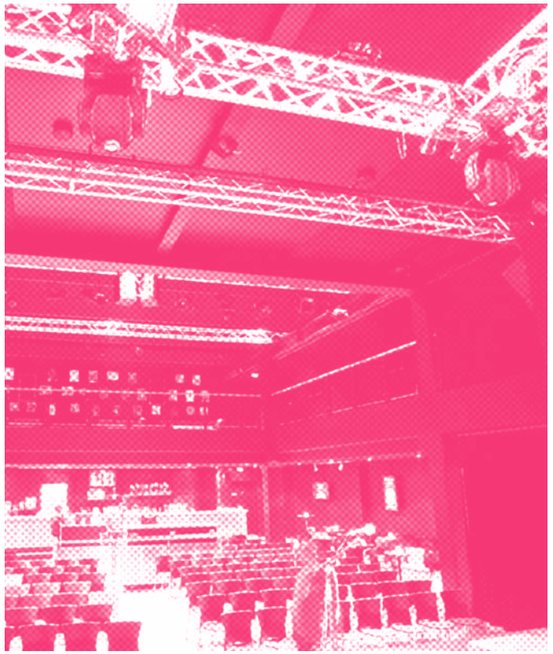
AXIAL LOAD TABLE

	AXIAL LOAD
H m	N am. Kg
3	5540
6	1461
9	656
12	371

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

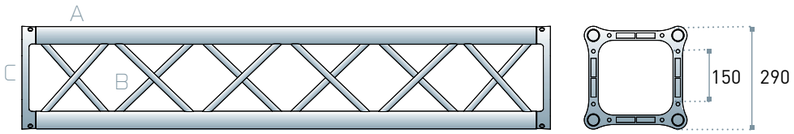
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.



QX30SA
ANTI-TORSION

Square section aluminium truss twist-resistant version with 29 cm long sides. It substitutes the model QX30S, from which it keeps the excellent size, weight, cost and performance characteristics. It is made of 6082 alloy extruded components, with high load-bearing and twisting strength. It is a constitutive element of Unitower, Towerlift 3, and Flyintower Compact and FT X30SA.



Chords A: extruded tube Ø 50x2 mm
EN AW 6082 T6

Diagonals B: extruded tube Ø 18x2 mm
EN AW 6082 T6

Ends C: aluminium casting plate
EN AC 42200 T6

Connection systems
QXFC: quick-fit kit
QXSM10: bolt connection kit

LINEAR ELEMENTS

code	cm	kg
QX30SA010M5	29x29x10.5	2.9
QX30SA021	29x29x21	3.4
QX30SA025	29x29x25	3.6
QX30SA029	29x29x29	3.8
QX30SA050	29x29x50	4.8
QX30SA100	29x29x100	7.1
QX30SA150	29x29x150	9.5
QX30SA200	29x29x200	11.8
QX30SA250	29x29x250	14.1
QX30SA300	29x29x300	16.5
QX30SA350	29x29x350	18.8
QX30SA400	29x29x400	21.2

CORNERS AND FITTINGS

code	cm	kg
QX30K8 (Dado)	29x29x29	9.0
QX30SAL2ADJ	50x50x29	7.4
QX30SAL2045	100x100x29	8.5
QX30SAL2060	100x100x29	9.2
QX30SAL2090	50x50x29	5.9
QX30SAL2120	50x50x29	6.9
QX30SAL2135	50x50x29	6.3
QX30SAL3	50x50x50	8.2
QX30SAT3	50x50x29	7.3
QX30SAT4	50x50x50	9.7
QX30SAX4	50x50x29	8.2
QX30SAX5	50x50x50	9.9
QX30SAX6	50x50x50	11.2
QX30SAACL	29x21x29	4.5
QX30SAACS	29x10.5x29	4.2
QX30SAACSC	29x12.4x29	5.2

QX30SA

LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	UNIF. DISTRIBUTED LOAD full load kg	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD full load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD full load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD full load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD full load kg	FIFTH POINT LOAD central deflection mm
1	2484	2484	0,3	2484	2484	0,4	1242	2484	0,4	828	2484	0,3	621	2484	0,3
2	1239	2478	2	1981	1981	3	1239	2478	3	826	2478	3	620	2478	3
3	824	2473	7	1386	1386	6	988	1976	8	720	2161	8	586	2344	8
4	550	2200	15	1057	1057	12	768	1536	14	542	1625	14	445	1779	15
5	350	1750	24	850	850	18	624	1248	23	433	1298	22	357	1427	23
6	241	1448	34	708	708	27	523	1046	33	359	1077	32	297	1187	34
7	176	1231	46	605	605	37	449	898	46	306	917	44	253	1013	46
8	133	1067	60	526	526	48	392	783	60	265	796	57	220	880	60
9	104	939	76	463	463	61	346	692	77	233	700	72	194	776	76
10	83	834	94	413	413	76	309	618	95	208	623	89	173	691	94
11	68	748	114	371	371	92	278	556	115	186	559	108	155	621	114
12	56	676	135	335	335	110	252	504	138	168	505	129	140	561	136
13	47	613	159	304	304	130	230	459	162	153	458	151	127	510	160
14	40	559	184	278	278	151	210	420	188	139	418	176	116	465	185
15	34	511	212	254	254	174	193	386	217	127	382	202	107	426	213
16	29	469	241	233	233	199	177	355	247	117	351	230	98	392	243
17	25	431	272	214	214	226	164	327	280	107	322	260	90	360	274
18	22	396	305	197	197	255	151	302	314	99	297	292	83	332	308

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

SPAN	UNIFORMLY DISTRIBUTED LOAD q			CENTRE POINT LOAD F	
m	q am.- kg/m	q am.- kg	defl.- mm	F am. - kg	defl.- mm
1	1239	1239	1	990	3
2	491	982	8	528	12
3	227	681	19	354	26
4	128	512	35	262	47
5	81	405	55	206	73
6	55	330	79	167	105

AXIAL LOAD TABLE

AXIAL LOAD N	
H m	N am. Kg
3	6367
6	3215
9	1502
12	862

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

QX40SA
ANTI-TORSION

Square section aluminium truss twist-resistant version with 40 cm long sides. It replaces the old truss QX40S. It achieves better resistance thanks to the introduction of diagonals on all the faces.

Chords A: extruded tube Ø 50x2 mm
EN AW 6082 T6

Diagonals B: extruded tube Ø 20x2 mm
EN AW 6082 T6

Ends C: aluminium casting plate
EN AC 42200 T6

Connection systems
QXFC: quick-fit kit
QXSM10: bolt connection kit

LINEAR ELEMENTS

code	cm	kg
QX40SA010	40x40x10	4.4
QX40SA025	40x40x25	5.0
QX40SA050	40x40x50	6.7
QX40SA100	40x40x100	10.0
QX40SA150	40x40x150	13.2
QX40SA200	40x40x200	16.6
QX40SA250	40x40x250	19.9
QX40SA300	40x40x300	23.2
QX40SA350	40x40x350	26.5
QX40SA400	40x40x400	29.8

CORNERS AND FITTINGS

code	cm	kg
QX40K8 (Dado)	40x40x40	12.3
QX40SAL2ADJ	50x50x40	9.0
QX40SAL2045	100x100x40	10.9
QX40SAL2060	100x100x40	11.2
QX40SAL2090	50x50x40	7.6
QX40SAL2120	50x50x40	7.7
QX40SAL2135	50x50x40	7.9
QX40SAL3	50x50x50	9.8
QX40SAT3	100x50x40	12.0
QX40SAT4	50x100x50	14.3
QX40SAX4	100x100x40	16.0
QX40SAX5	100x100x50	18.5
QX40SAX6	100x100x100	22.0

QX40SA

LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	UNIF. DISTRIBUTED LOAD full load kg	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD full load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD full load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD full load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD full load kg	FIFTH POINT LOAD central deflection mm
1	3065	3065	0	2865	2865	0	1532	3065	0	1022	3065	0	766	3065	0
2	1529	3058	1	2054	2054	1	1268	2537	1	953	2859	1	765	3058	1
3	1017	3052	4	1578	1578	3	1024	2047	4	797	2392	4	663	2651	4
4	761	3043	10	1273	1273	7	852	1703	8	680	2041	8	551	2205	9
5	494	2472	16	1063	1063	11	726	1452	13	584	1753	14	457	1827	14
6	346	2076	23	909	909	16	630	1260	19	492	1476	21	389	1554	21
7	255	1784	31	792	792	23	555	1110	27	424	1271	28	337	1349	2
8	195	1560	41	699	699	30	495	989	36	371	1113	37	297	1188	38
9	154	1383	53	624	624	39	445	890	46	329	987	48	265	1059	49
10	123	1235	65	562	562	48	403	806	58	295	884	59	238	952	61
11	101	1110	79	510	510	59	368	735	71	266	798	72	216	862	74
12	84	1005	94	465	465	71	337	674	86	242	726	86	196	786	89
13	70	916	110	426	426	84	310	620	102	221	663	101	180	720	105
14	60	838	127	392	392	98	286	572	119	203	608	118	165	662	122
15	51	770	146	362	362	114	265	530	138	187	560	136	153	610	14
16	44	709	166	335	335	131	246	492	159	172	517	155	141	564	161
17	39	655	188	310	310	149	229	458	180	159	478	176	131	523	182
18	34	606	211	288	288	168	213	427	203	148	443	197	121	486	205

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIFORMLY DISTRIBUTED LOAD q am.- kg/m	UNIFORMLY DISTRIBUTED LOAD q am.- kg	UNIFORMLY DISTRIBUTED LOAD defl.- mm	CENTRE POINT LOAD F am. - kg	CENTRE POINT LOAD defl.- mm
1	1427	1427	1	1024	1
2	508	1016	4	634	7
3	258	773	10	451	16
4	154	616	20	347	29
5	101	506	32	278	46
6	71	424	48	230	67

AXIAL LOAD TABLE

H m	AXIAL LOAD N am. Kg
3	6949
6	5330
9	3069
12	1791

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

QH30SA
ANTI-TORSION

Square section heavy duty aluminium truss twist-resistant version with 29 cm long sides. It substitutes the old Heavy Duty series QD30S and QD30SA. It is characterized by the introduction of Ø 48x3 mm chords and Ø 20x2 mm diagonals on all the faces. This truss constitutes Varitower 3 – 30 and Flyintower FT H30SA.

Chords A: extruded tube Ø 48x3 mm
EN AW 6082 T6

Diagonals B: extruded tube Ø 20x2 mm
EN AW 6082 T6

Ends C: aluminium casting plate
EN AC 42200 T6

Connection systems
QXFC: quick-fit kit
QXSM10: bolt connection kit

ELEMENTI LINEARI

codice	cm	kg
QH30SA010M5	29x29x10.5	3,1
QH30SA021	29x29x21	3,6
QH30SA025	29x29x25	4,1
QH30SA029	29x29x29	4,3
QH30SA050	29x29x50	5,8
QH30SA100	29x29x100	9,1
QH30SA150	29x29x150	12,3
QH30SA200	29x29x200	15,5
QH30SA250	29x29x250	18,7
QH30SA300	29x29x300	21,9
QH30SA350	29x29x350	25,2
QH30SA400	29x29x400	28,4

CORNERS AND FITTINGS

code	cm	kg
QH30SAACL	29x21x29	6,1
QH30SAACS	29x10.5x29	5,6
QH30SAL2045	100x100x29	9,4
QH30SAL2060	100x100x29	10,5
QH30SAL2090	50x50x29	11,7
QH30SAL2120	50x50x29	6,8
QH30SAL2135	50x50x29	7,7
QH30SAL3	50x50x50	8
QH30SAT3	50x50x29	8,2
QH30SAT4	50x50x50	10,8
QH30SAX4	50x50x29	9,3
QH30SAX5	50x50x50	11,8
QH30SAX6	50x50x50	12,9

QH30SA
LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	UNIF. DISTRIBUTED LOAD full load kg	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD full load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD full load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD full load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD full load kg	FIFTH POINT LOAD central deflection mm
1	2775	2775	0	2775	2775	0	1387	2775	0	925	2775	0	694	2775	0
2	1384	2768	2	2677	2677	3	1384	2768	2	923	2768	2	692	2768	2
3	920	2760	6	1894	1894	6	1335	2670	7	920	2760	7	690	2760	7
4	688	2753	13	1454	1454	11	1046	2092	14	753	2259	14	614	2454	14
5	492	2462	24	1175	1175	18	855	1709	22	603	1809	22	494	1976	23
6	340	2039	34	982	982	26	720	1439	33	501	1503	32	412	1649	33
7	248	1734	46	840	840	36	619	1239	45	427	1282	43	352	1410	45
8	188	1503	60	732	732	47	542	1083	59	371	1114	57	307	1227	60
9	147	1323	76	646	646	60	480	960	76	327	981	72	271	1083	76
10	118	1176	94	576	576	75	429	859	94	291	874	89	241	966	94
11	96	1056	114	518	518	91	387	774	114	262	785	108	217	869	114
12	79	954	136	469	469	109	351	703	136	237	710	129	197	786	135
13	67	866	159	427	427	129	320	641	161	215	645	151	179	715	159
14	56	790	185	390	390	150	294	587	187	196	589	176	163	654	185
15	48	723	212	357	357	173	270	540	215	180	539	202	150	600	213
16	42	664	241	328	328	198	249	497	246	165	495	230	138	551	242
17	36	611	272	302	302	225	230	459	278	152	456	260	127	508	274
18	31	563	305	278	278	254	213	425	313	140	420	292	117	469	307

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIFORMLY DISTRIBUTED LOAD q am.- kg/m	UNIFORMLY DISTRIBUTED LOAD q am.- kg	UNIFORMLY DISTRIBUTED LOAD defl.- mm	CENTRE POINT LOAD F am. - kg	CENTRE POINT LOAD defl.- mm
1	1384	1384	1	1337	3
2	663	1327	8	726	11
3	310	930	19	490	26
4	176	704	34	365	46
5	112	559	54	287	73
6	76	457	78	234	104

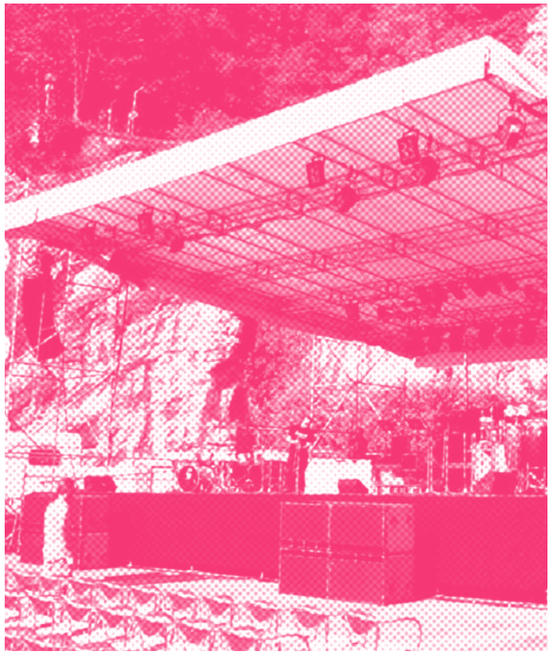
AXIAL LOAD TABLE

H m	AXIAL LOAD N am. Kg
3	8873
6	4521
9	2112
12	1212

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

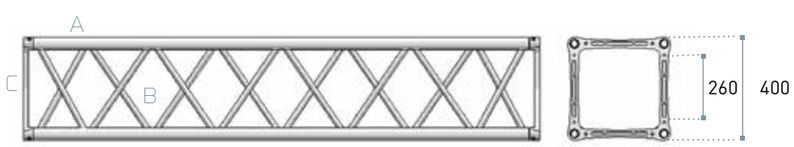
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.



QH40SA
ANTI-TORSION

Square section heavy duty aluminium truss twist-resistant version with 40 cm long sides. It replaces the old Heavy Duty series QD40S and QD40SA. It is characterized by the introduction of Ø 48x3 mm chords and Ø 20x2 mm diagonals on all the faces. This truss constitutes Varitower 3-40.



Chords A:
extruded tube Ø 48x3 mm EN AW 6082 6

Diagonals B: extruded tube Ø 22x2 mm EN AW 6082 T6

Ends C: aluminium casting plate EN AC 42200 T6

Connection systems
QXFC: quick-fit kit
QXSM10: bolt connection kit

LINEAR ELEMENTS

code	cm	kg
QH40SA010	40x40x10	4,4
QH40SA025	40x40x25	5,6
QH40SA050	40x40x50	7,6
QH40SA100	40x40x100	11,3
QH40SA150	40x40x150	14,9
QH40SA200	40x40x200	18,6
QH40SA250	40x40x250	22,3
QH40SA300	40x40x300	26
QH40SA350	40x40x350	29,6
QH40SA400	40x40x400	33,3

CORNERS AND FITTINGS

code	cm	kg
QH40SAACSC	40x14.4x40	7,1
QH40SAL2045	100x100x29	11,6
QH40SAL2060	100x100x29	17,3
QH40SAL2090	50x50x29	12,6
QH40SAL2120	50x50x29	9,2
QH40SAL2135	50x50x29	9,2
QH40SAL3	50x50x50	9,5
QH40SAT3	50x50x29	14,8
QH40SAT4	50x50x50	17,3
QH40SAX4	50x50x29	20,1
QH40SAX5	50x50x50	19,9
QH40SAX6	50x50x50	27,9

QH40SA

LOAD TABLE / SPIGOT CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	full load kg	central deflection mm	CENTRE POINT LOAD point load kg	full load kg	central deflection mm	THIRD POINT LOAD point load kg	full load kg	central deflection mm	QUARTER POINT LOAD point load kg	full load kg	central deflection mm	FIFTH POINT LOAD point load kg	full load kg	central deflection mm
1	3650	3650	0	3650	3650	0	1825	3650	0	1217	3650	0	913	3650	0
2	1822	3644	1	2822	2822	1	1736	3471	1	1215	3644	1	911	3644	1
3	1213	3638	4	2180	2180	3	1408	2815	4	1093	3279	4	907	3627	4
4	908	3631	8	1767	1767	7	1176	2353	7	936	2809	8	767	3066	9
5	693	3467	16	1480	1480	11	1006	2013	12	816	2447	14	637	2549	14
6	486	2919	23	1270	1270	16	877	1754	19	691	2073	20	544	2176	21
7	359	2515	31	1110	1110	22	775	1550	26	597	1790	28	474	1894	29
8	276	2206	41	984	984	30	693	1386	35	524	1572	37	418	1674	38
9	218	1960	52	881	881	38	625	1251	46	466	1399	47	374	1496	48
10	176	1761	65	797	797	48	569	1138	58	419	1257	59	338	1350	60
11	145	1590	79	725	725	58	521	1041	71	380	1139	72	307	1228	74
12	120	1445	94	664	664	70	479	958	85	347	1040	86	281	1123	88
13	102	1322	110	612	612	83	443	885	101	318	954	101	258	1033	104
14	87	1215	128	565	565	97	411	821	118	293	879	118	239	954	122
15	75	1122	146	524	524	112	382	765	137	271	814	135	221	885	140
16	65	1039	167	488	488	129	357	714	157	252	755	155	206	823	160
17	57	965	188	455	455	146	334	668	178	234	703	175	192	767	181
18	50	899	211	425	425	165	313	626	201	219	656	197	179	717	204

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

SPAN	UNIFORMLY DISTRIBUTED LOAD q			CENTRE POINT LOAD F	
m	q am.- kg/m	q am.- kg	defl.- mm	F am. - kg	defl.- mm
1	1822	1822	1	1408	1
2	700	1400	4	880	6
3	358	1074	10	632	16
4	216	862	19	489	29
5	143	714	32	395	46
6	101	605	47	329	68

AXIAL LOAD TABLE

AXIAL LOAD N	
H m	N am. Kg
3	9697
6	7444
9	4316
12	2519

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

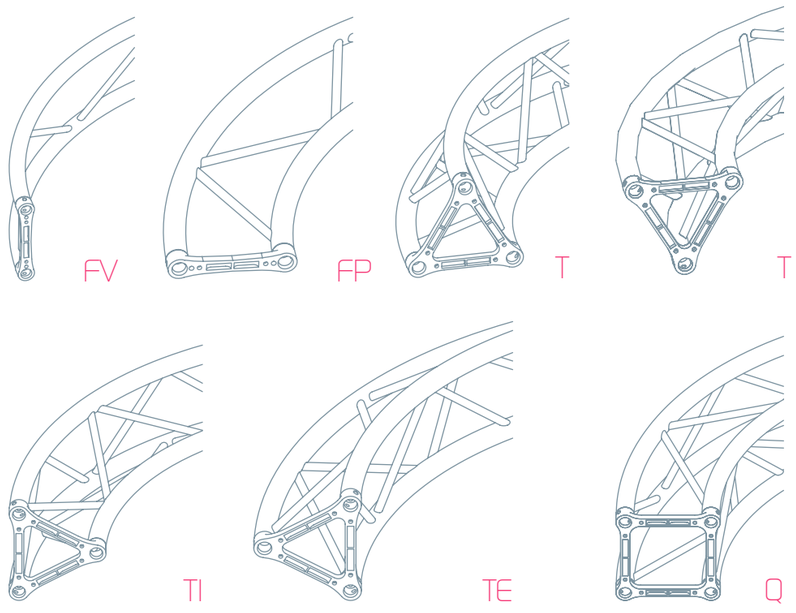
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

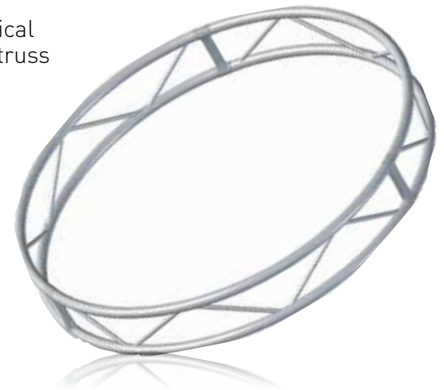
RINGS

Each truss is available in a corresponding curved version normally used for constructing rings with a diameter of not less than two metres. There is no standard length for curved components.
It is however preferable to limit each single component to no longer than 3.5 metres to make transport and handling easier.

For practical reasons, the number of curved components in a ring is normally divisible by four. Apart from curves and rings, it is possible to build ellipses or irregular curved shapes. There are one solution for the square section, three for the triangular section and two for the flat section.



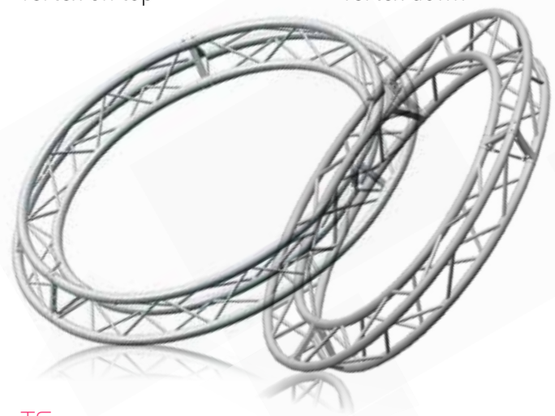
FV
Vertical
flat truss



FP
Horizontal
flat truss

T
Triangular truss with
vertex on top

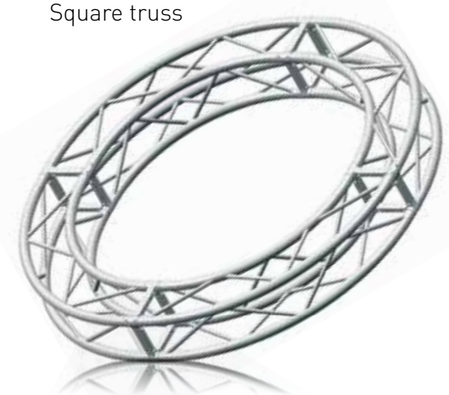
T
Triangular truss with
vertex down



TI
Triangular truss with
internal vertex

TE
Triangular truss with
external vertex

Q
Square truss



CORNERS AND FITTINGS

This page shows corners and fittings for flat, triangular and square section trusses. The code numbers shown under the pictures refer to the shape and make it easy to identify the right model, but they do not indicate the type of truss.
To form the whole code number, place before the truss series number. For example QX25SL2045.
All the models and their characteristics are listed in the page of the corresponding truss model.

L2060P
60° horizontal two-way corner

L2060V
60° vertical two-way corner

L2090P
90° horizontal two-way corner

L2090V
90° vertical two-way corner

L2120P
120° horizontal two-way corner

L2120V
120° vertical two-way corner

L2135P
135° horizontal two-way corner

L2135V
135° vertical two-way corner

L3LP
90° horizontal left three-way corner

L3RP
90° horizontal right three-way corner

L3LV
90° vertical left three-way corner

L3RV
90° vertical right three-way corner

T3NP
Horizontal three-way "T"

T3NV
Vertical three-way "T"

T4NP
Horizontal four-way "T"

T4NV
Vertical four-way "T"

X4NP
Horizontal four-way cross

X4NV
Vertical four-way cross

L2090
90° two-way corner

L20901
90° two-way corner with internal vertex

L2090E
90° two-way corner with external vertex

L2045
45° two-way corner arrange as needed

L2060
60° two-way corner

L2120
120° two-way corner

L2135
135° two-way corner

L3L
Left 90° three-way corner

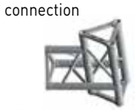
L3R
Right 90° three-way corner

L3LU
Left 90° three-way corner, vertex on top

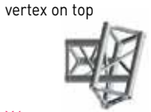
L3RU
Right 90° three-way corner, vertex on top

T3
Three-way "T"

T3F
Three-way "T" with downward connection



T3FU
Three-way "T" with downward connection, vertex on top



T4
Four-way "T"

T4RU
Right four-way "T" vertex on top

T4LU
Left four-way "T" vertex on top

X4
Four-way cross

X5
Five-way cross

X5NU
Five-way cross, vertex on top

X6
Six-way cross

L2045
45° two-way corner

L2060
60° two-way corner

L2090
90° two-way corner

L2120
Angolo 2 vie 120°

L2135
135° two-way corner°

L2ADJ
Adjustable two-way corner

L3
90° three-way corner

T3
Three-way "T"

T4
Four-way "T"

X4
Four-way cross

X5
Five-way cross

X6
Six-way cross

QP30L2ADJ
Book corner

DADO SYSTEM

DADO, the solution for all 90° corners and crosses. Managing corners and crosses is one of the biggest problems structure installers and hirers have to face. DADO is the answer. It is devised around a six-faced die-cast cube and may be put together in multifarious ways leaving the user complete freedom.
Each individual junction is assembled with reinforced tubes without welding. The connection between DADO and the trusses is the quick-fit type, with special steel half spigots. Their assembly and alignment is made easy with an assembly template.

FX25K2
FX30K2

FX25K4
FX30K4

FX40K4

QX25K8
QX30K8

QX40K8

QXKFC connection kit for DADO K4-K8

TZ assembly tool for half-spigots

a detail of DADO

COUPLER ASSEMBLY Before joining a truss to a Dado, the half-spigots must be inserted on the face to be connected. The spigots should be connected to a Dado with M10 screws. Do not tighten the screws yet.

BLOCKING THE SPIGOTS Next, using the supplied tool, tighten the screws two by two on the diagonals of the same face. Use of tool TZ30K01 (or TZ40K01 or QX40K8) is essential for maintaining the position of the spigots with the wider end of the conical holes facing outwards.

CONNECTING TO THE TRUSS Connecting Dado to a truss is straightforward and intuitive. You will need both the conical pins and safety split-pins. Figures 5 and 6 show assembly. NOTE: the conical pins must be hammered hard into the connectors.

K2 is the dado version for flat section. Grid structures are increasingly used and this possibility is another DADO feature.

K4 is the dado version for square and flat section structures. The possibility of combining square and flat trusses is an important feature of DADO.

K8 is the dado version for square section structures. A special reinforced tube, made to our specifications, together with the sturdiness of the six-faced cube mean that Dado is even more rigid than traditional corners, which makes the whole structure even sturdier.

END-PLATED TRUSSES

CONNECTIONS

End-plated trusses allow to use two different systems of connection. The quick-fit system is certainly the most widespread and mainly used when the structure is frequently assembled and dismantled. In the case of permanent installations, on the other hand, a more economical bolt connection system may be used.
Our plate is made in such a way that the bolts may be completely inserted so that there are no edges or external protuberances which could damage canvases or other fabrics or which might simply be unaesthetic on certain structures. The possibility to use bolts that are easy to find can compensate the temporary lack of quick-fit kits for carelessness or loss.
The two systems can work as an alternative to each other, but in case of structures set up at the limit of their load capacity, we advise the use of the quick-fit connection system. The bolt connection system reduces maximum performances listed in our load tables.

Quick-fit connection system
Nut & Bolt connection system

Connection systems

"Quick connect" or "nult & bolt connect". Both the Standard and Heavy Duty ranges have cast aluminium end plates. The plates allow two different types of connection: quick-fit and with bolts. The connection systems are available in kits for flat, triangular and square-section trusses.

KSG

KCP

KSP

KSF

K370

FXFC

FXKFC

TXFC

QXKFCT

QXICU

QXFC

FXSM8

FXSM10

TXSM8

TXSM10

QXSM8

QXSM10

END-PLATED TRUSSES

ACCESSORIES

Generic accessories. To further enhance the standard products and their line of specific accessories, LITEC also offers a range of generic accessories useful for many different applications and needs.

FP

Universal 25 cm truss floor plate

FP25M

Universal 25 cm truss floor plate

FP30M

Universal truss floor plate
29 cm – 50x50 cm
40 cm – 50x50 cm

RA

Reinforcement arm

RAT

Aluminium pipe with caps

RAB

Aluminium pipe with bushes

ACSC

Square - Clamp module for TL3/VT3

ACS

Square - Clamp module short

ACL

Square - Clamp module long

HFX30STER

Terminal FX30 W/hook

QX30SA-001

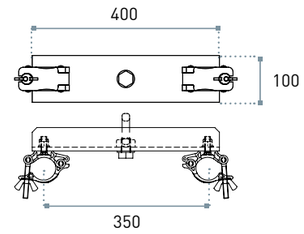
Compact Truss Inclinator for end-plated series

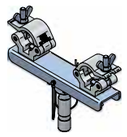
C030WB

29 cm wall bracket W/half couplers

C025, C030, C040

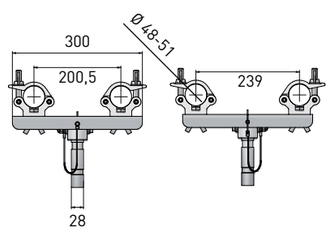
Bar Hook for trusses

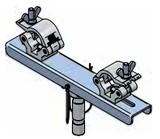




HCL51L07

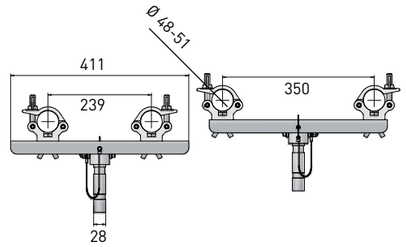
Truss support 25-30





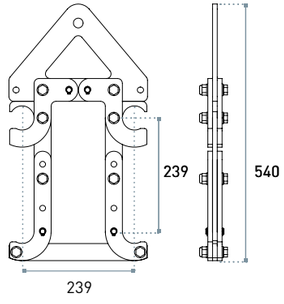
HCL51L08

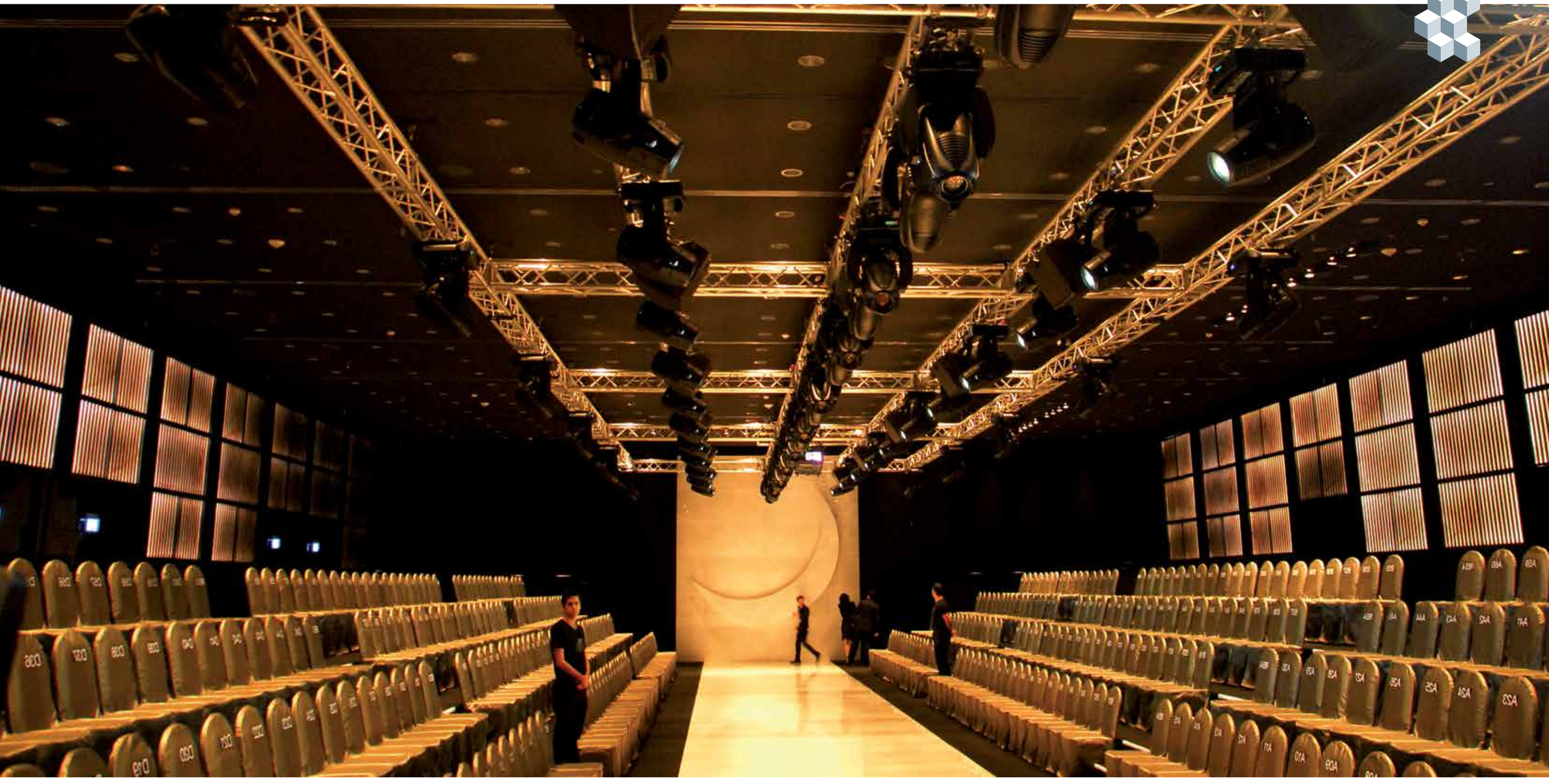
Truss support 30-40



CBQ3040, CBT3040

Bridle Hook for triangular/square trusses



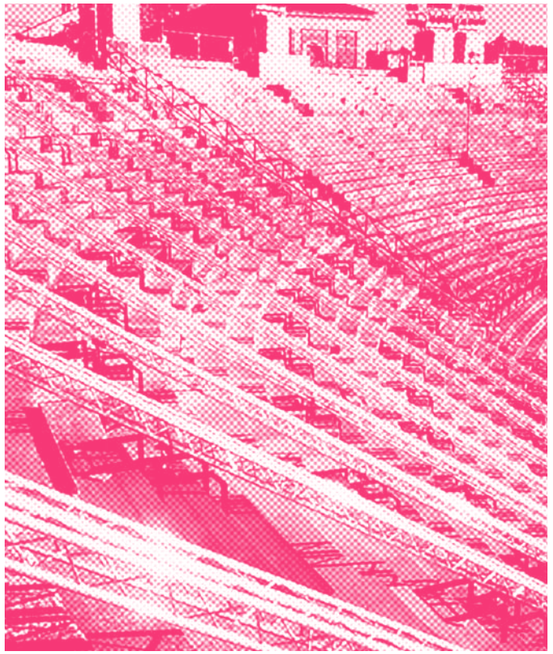


Armani Fashion Show / Armani Hotel Opening in Dubai
Photo courtesy of TechnoPro llc,
P.O. Box 18820, Dubai, United Arab Emirates

CONICAL CONNECTION TRUSSES

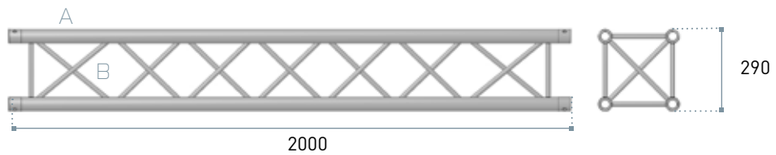
LITEC offers a wide range of Trussing products. Its end-plated, “star” LIBERA System and High Load forked trusses are benchmarks in their own segments. Now LITEC extends its product portfolio supplying even those customers that have trusses with conical connections in their stock with the NEW P Series and E Series trusses. The P series has 16x2mm braces, whilst E line has 20x2mm braces. The thicker braces of the E Series trusses make them more durable in their life cycle and more resistant during transportation. For this reason, they are more suitable for the rental sector.

Compatible with the most popular trusses with conical connection systems already existing in the market, both these series are very versatile in their use and very fast to be joined. For more information please contact our offices.



P SERIES TRUSSES

P Series trusses are designed with main tubes (50 x 2 mm) and diagonals (16 x 12 mm), and use bush connectors. They are compact and strong, and represent the perfect solution for fixed installations and the exhibition industry. The series also includes rings and corners.



Chords A:
extruded tube Ø 50x2 mm EN AW 6082 T6

Diagonals B:
extruded tube Ø 16x2 mm EN AW 6082 T6

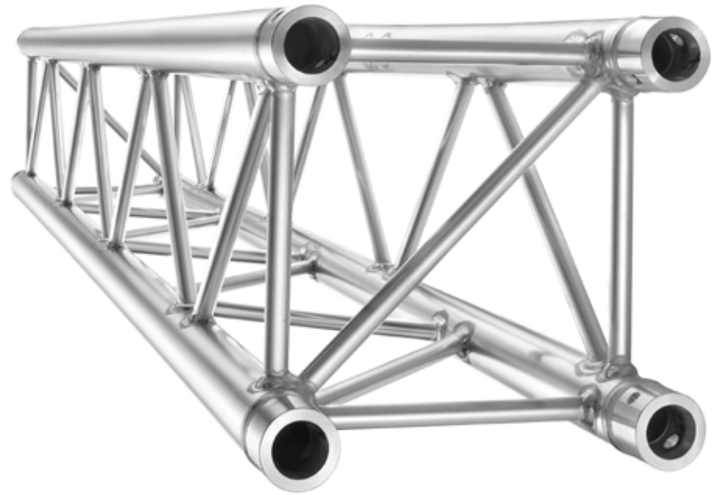
Connection systems:
Fast conical connection system

LINEAR ELEMENTS

code	cm	kg
QC30P050	29x29x50	3.0
QC30P100	29x29x100	5.0
QC30P200	29x29x200	11.0
QC30P300	29x29x300	16.8

CORNERS AND FITTINGS

code	description
QC30PL2090	90° two-way corner
QC30PL3	90° three-way corner
QC30PT3	Three-way T corner
FPC30P	Universal truss floor plate – 30 cm
QC30PL2ADJ	Adjustable two-way corner
QC30K8	Six-way DADO



P SERIES TRUSSES

LOAD TABLE/CONICAL CONNECTION

UNIF. DISTRIBUTED LOAD | CENTRE POINT LOAD | THIRD POINT LOAD

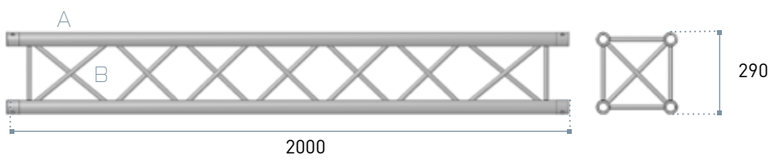
SPAN m	point load load kg/m	point load load kg	point load load kg
4	426	1171	852
6	257	771	578
8	142	568	426
10	89	444	333
12	60	359	269
14	42	297	222
16	31	248	186
18	23	210	157
20	18	177	133

Load table has been prepared in accordance with din4113 and DIN18800. When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self-weight of the truss has been taken into account when calculating the values in the table. It should be noted that this are idealized loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

E SERIES TRUSSES

E Series trusses are designed with main tubes (50 x 2 mm) and diagonals (20 x 12 mm), and use bush connectors. They are strong and versatile, and are ideal for exhibition and entertainment sector applications. The series also includes rings and corners.



Chords A:
extruded tube Ø 50x2 mm EN AW 6082 T6

Diagonals B:
extruded tube Ø 20x2 mm EN AW 6082 T6

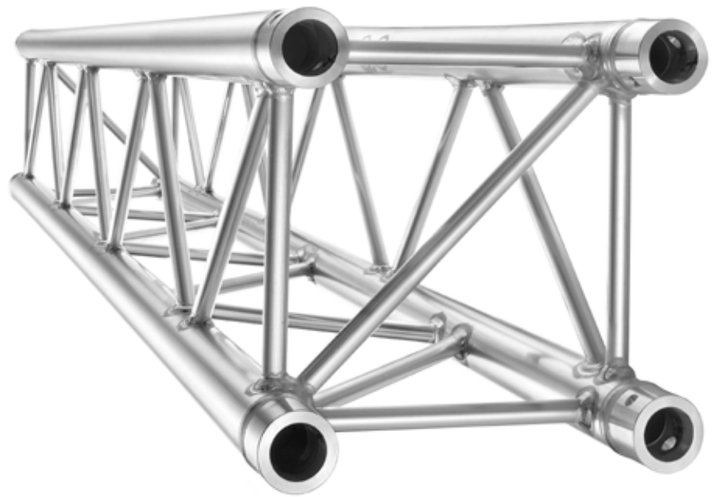
Connection systems:
Fast conical connection system

LINEAR ELEMENTS

code	cm	kg
LT QC30E050	29x29x50	4.0
LT QC30E100	29x29x100	5.9
LT QC30E200	29x29x200	11.8
LT QCE300	29x29x300	17.7

CORNERS AND FITTINGS

code	description
QC30EL2090	90° two-way corner
QC30EL3	90° three-way corner
QC30ET3	Three-way T corner
FPC30E	Universal truss floor plate – 30 cm
QC30EL2ADJ	Adjustable two-way corner
QC30K8	Six-way DADO



E SERIES TRUSSES

LOAD TABLE/CONICAL CONNECTION

UNIF. DISTRIBUTED LOAD | CENTRE POINT LOAD | THIRD POINT LOAD

SPAN m	point load load kg/m	point load load kg	point load load kg
4	426	1171	852
6	257	771	578
8	142	568	426
10	89	444	333
12	60	359	269
14	42	297	222
16	31	248	186
18	23	210	157
20	18	177	133

Load table has been prepared in accordance with din4113 and DIN18800. When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self-weight of the truss has been taken into account when calculating the values in the table. It should be noted that this are idealized loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

CONICAL CONNECTION TRUSSES

CORNERS AND FITTINGS

This page shows corners and fittings for P and E Square Series Trusses with conical connection.
Junctions are very important to build up a successful modular system. The corners available ensures maximum versatility to meet any specific project requirements.

P SERIES TRUSSES

QC30PL2090

90° two-way corner

QC30PL3

90° three-way corner

LT QC30PT3

Three-way T-corner

FPC30P

Universal truss floor plate
30 cm

QC30PL2ADJ

Adjustable two-way corner

E SERIES TRUSSES

QC30EL2090

90° two-way corner

QC30EL3

90° three-way corner

LT QC30ET3

Three-way T-corner

FPC30E

Universal truss floor plate
30 cm

QC30EL2ADJ

Adjustable two-way corner

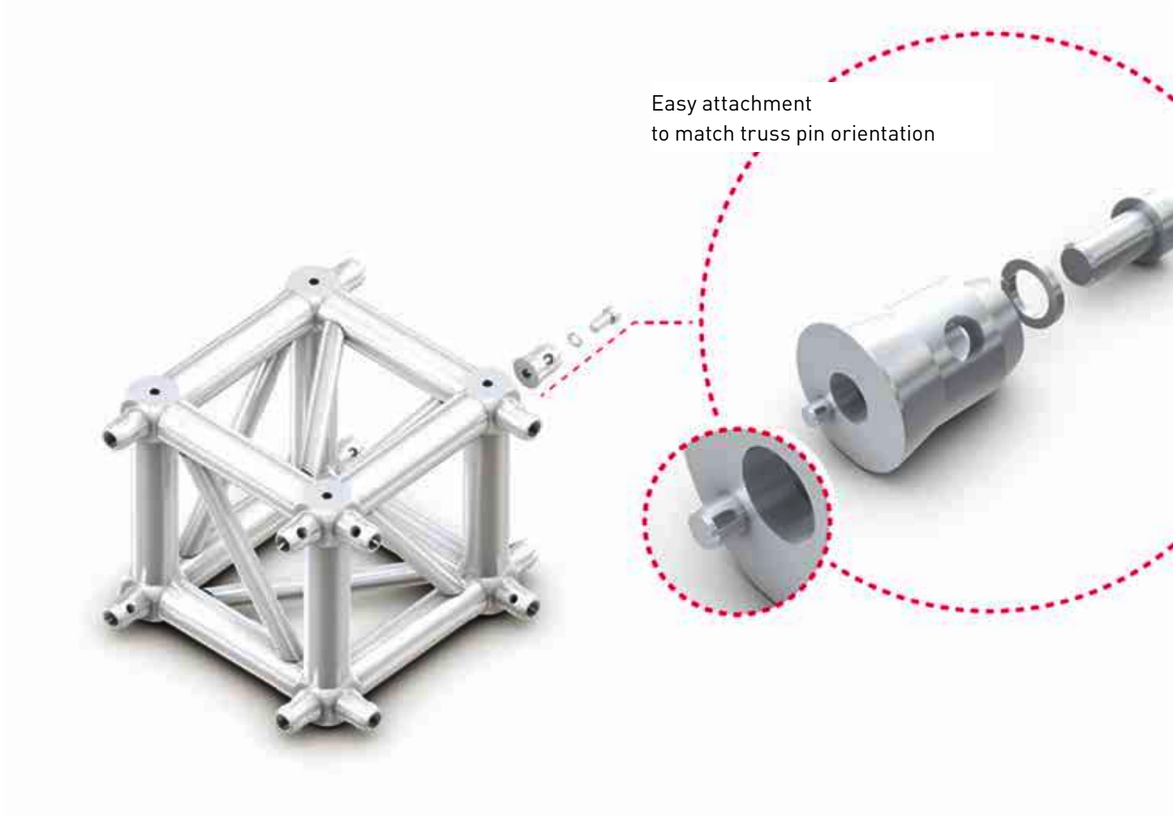
CONICAL CONNECTION TRUSSES

DADO SYSTEM

DADOS are extremely versatile alternative solutions to standard welded junctions. The compact DADO can easily be configured up to 6 ways by adding male and female receivers in the appropriate faces. To calculate number of receivers required, determine how many directions (ways) the DADO is to be configured and multiply this number by 4 (i.e. a 3-way junction requires 12 off male and female receivers).

QCPKFC. DADO

connection set, male receiver



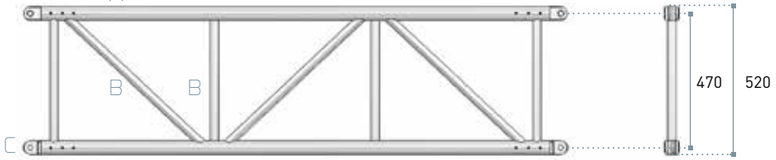
LIBERA SYSTEM "STAR" TRUSSES

INFINITY, IN A FEW CUBIC METRES

LIBERA is the only flat aluminium beam system in the world that can easily be used to create and build load-bearing structures in a virtually infinite number of shapes. LIBERA System consists of "constant" elements, FL52, FL76 and FL105 flat beams, and "variable" elements which make it extremely versatile. LIBERA is compact, modular, strong, reliable, easy to transport and store. LIBERA cuts your running costs to a minimum.
LIBERA can also easily combine with the High Load truss range with forked connections.

LIBERA FL52

This is the most suitable LIBERA system for fairs and medium-sized installations. This modular grid structure can be used to build single spans of up to 16/18 meters in length with standard centre-to-centre distances (50 cm, 1 and 2 meters).



LIBERA SYSTEM FL52

33 to 186 cm flat trusses - FL52

Available in two versions: standard and with built-in roofing sheet guides

Ends with aluminium forks

Made of EN AW-6082 T6 aluminium with 50x4 mm tubes and 30x30 mm diagonals

Universal four-way connection

Chords A: extruded tube Ø 50x4 mm
EN AW 6082 T6

Diagonals B: extruded tube Ø 30x3 mm
EN AW 6082 T6

Ends C: forks connector
EN AW 6082 T6

Connection system
FL52CS04: four-way connection
KHLP: Cylindrical pin + safety R-clip
KHLM+KHLF

TRUSS

code	H cm	L cm	
FL52035V	flat section 52	35	
FL52086V	flat section 52	86	
FL52137V	flat section 52	137	
FL52186V	flat section 52	186	
FL52035R	flat section 52	35	with guide
FL52086R	flat section 52	86	with guide
FL52186R	flat section 52	186	with guide

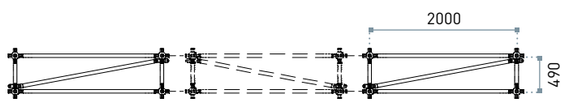
LIBERA FL52

LOAD TABLE

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/mm	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD central deflection mm
5	737	8	1842	6	1381	8	921	8	764	8
6	507	12	1521	9	1141	12	760	12	631	12
7	368	16	1290	13	967	16	645	15	535	16
8	278	21	1115	16	836	21	557	19	462	21
9	217	26	976	21	732	27	488	25	405	27
10	173	32	865	26	648	33	432	30	359	33
11	140	39	772	31	579	40	386	37	320	40
12	115	46	693	37	520	47	346	44	287	47
13	96	54	625	43	469	55	312	51	259	55
14	80	63	566	50	424	64	283	60	235	64
15	68	72	514	58	385	74	257	69	213	74
16	58	82	467	66	350	84	233	78	194	84
17	50	93	425	74	319	95	212	88	176	95
18	43	104	387	83	290	106	193	99	160	106
19	37	116	352	93	264	118	176	110	146	118
20	32	128	320	103	240	131	160	122	132	131

CANTILEVER LOAD TABLE

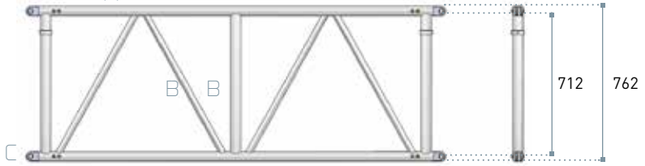
SPAN m	UNIF. DISTRIBUTED LOAD q am.- kg/m	UNIF. DISTRIBUTED LOAD defl.- mm	CENTRE POINT LOAD F am. - kg	CENTRE POINT LOAD defl.- mm
1,0	2485	2	2342	3
1,5	1651	5	1555	7
2,0	1160	11	1160	12
2,5	737	18	921	19
3,0	507	25	760	28
3,5	368	35	645	38
4,0	278	45	557	49



Section Area mm²	Permissible bending moment kg/m	Permissible vertical shear force kg/m	Selfweight approx. kg/m
2312	23,5	25	15

LIBERA FL76

This LIBERA System is ideal for large grids and complex installations, allowing to build structures of up to 22 metres long with standard centre-to-centre distances. Indoors, it is suitable for theatre grid structures, and TV and cinema studios with innumerable advantages.



LIBERA SYSTEM FL76

47 to 300 cm flat trusses - FL76

Available in two versions: standard and with built-in roofing sheet guides

Ends with universal steel forks

Made in EN AW-6082 T6 aluminium with 50x4 mm tubes and 30x30 mm diagonals

Curved parts for grid stucture end fittings

Universal four-way or male/female pass-through connection

Chords A: extruded tube Ø 50x4 mm
EN AW 6082 T6

Diagonals B: extruded tube Ø 30x3 mm
EN AW 6082 T6

Braces C: extruded tube Ø 50x4 mm
EN AW 6082 T6

Ends D: steel forks connector
11SMnPb37

Connection system
KHLP: Cylindrical pin + safety R-clip
KHLM+KHLF

TRUSS code	H cm	L cm	
FL76047V	flat section 76	47	
FL76086V	flat section 76	86	
FL76100V	flat section 76	100	
FL76186V	flat section 76	186	
FL76200V	flat section 76	200	
FL76047R	flat section 76	47	with guide
FL76086R	flat section 76	86	with guide
FL76100R	flat section 76	100	with guide
FL76186R	flat section 76	186	with guide
FL76200R	flat section 76	200	with guide
FL76111RHC	flat section 76	105	curved

Section Area mm²	Permissible bending moment kg/m
2312	23,5
Permissible vertical shear force kg/m	**Selfweight approx. kg/m**
25	15

LIBERA FL76

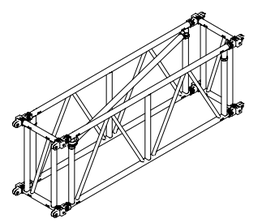
LOAD TABLE / CONNECTIONS **TYPE A** AND **TYPE B**

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/mm		UNIF. DISTRIBUTED LOAD central deflection mm		CENTRE POINT LOAD point load kg		CENTRE POINT LOAD central deflection mm		THIRD POINT LOAD point load kg		THIRD POINT LOAD central deflection mm		QUARTER POINT LOAD point load kg		QUARTER POINT LOAD central deflection mm		FIFTH POINT LOAD point load kg		FIFTH POINT LOAD central deflection mm	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
5	535	975	5	5	2557	2557	4	4	1337	1918	5	5	870	1278	5	5	668	1061	5	5
6	441	702	7	7	2108	2108	6	6	1325	1581	7	7	858	1054	7	7	662	875	7	7
7	375	509	10	10	1784	1784	8	8	1312	1338	10	10	845	892	9	9	656	740	10	10
8	325	384	12	12	1537	1537	10	10	1153	1153	13	13	768	768	12	12	638	638	13	13
9	286	298	16	16	1343	1343	13	13	1007	1007	16	16	671	671	15	15	557	557	16	16
10	237	237	20	20	1185	1185	16	16	888	888	20	20	592	592	19	19	491	491	20	20
11	191	191	24	24	1053	1053	19	19	790	790	24	24	526	526	22	22	437	437	24	24
12	157	157	28	28	941	941	23	23	706	706	29	29	470	470	27	27	390	390	29	29
13	130	130	33	33	845	845	26	26	633	633	34	34	422	422	31	31	350	350	34	34
14	108	108	38	38	760	760	31	31	570	570	39	39	380	380	36	36	315	315	39	39
15	91	91	44	44	685	685	35	35	514	514	45	45	342	342	42	42	284	284	45	45
16	77	77	50	50	618	618	40	40	464	464	51	51	308	309	47	47	256	256	51	51
17	65	65	56	56	558	558	45	45	418	418	58	58	279	279	54	54	231	231	58	58
18	55	55	63	63	502	502	51	51	377	377	65	65	251	251	60	60	208	208	65	65
19	47	47	70	70	452	452	56	56	339	339	72	72	226	226	67	67	187	187	72	72
20	10	40	78	78	405	405	63	63	303	303	80	80	202	202	74	74	168	168	8	80

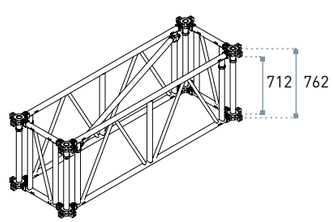
CANTILEVER LOAD TABLE / CONNECTIONS **TYPE A** AND **TYPE B**

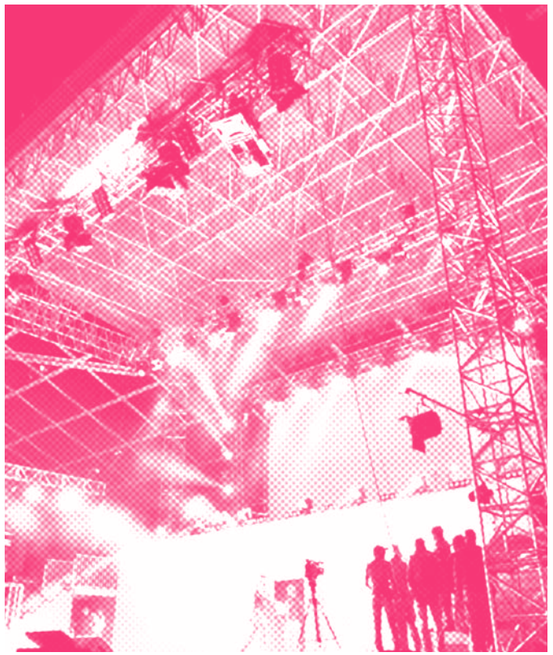
SPAN m	UNIF. DISTRIBUTED LOAD q am.- kg/m		UNIF. DISTRIBUTED LOAD defl.- mm		CENTRE POINT LOAD F am. - kg		CENTRE POINT LOAD defl.- mm	
	A	B	A	B	A	B	A	B
1,0	1375	2475	0	1	1375	2475	1	1
1,5	908	1641	1	5	1362	2164	3	4
2,0	675	125	3	5	1350	1612	6	7
2,5	535	975	6	10	1278	1278	12	12
3,0	441	702	10	15	1054	1054	17	17
3,5	375	509	16	21	892	892	23	23
4,0	325	384	24	27	768	768	3	3

TYPE A
fork connection



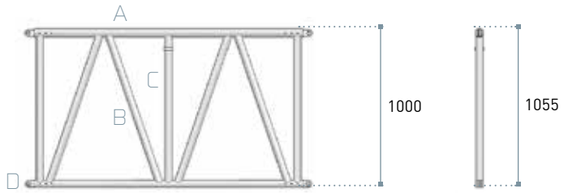
TYPE B
four-way connection





LIBERA FL 105

The top of the LIBERA range.
It is ideal for heavy duty use, with High Load carrying capacity and wide spans. LIBERA 105 is mainly for outdoor use. It is the most suitable system for building roofing and large structures.
It can be used to build a span of up to 30 metres in length with a large carrying capacity.



LIBERA SYSTEM FL105
45 to 186 cm flat trusses - FL105
Available in standard version
Ends with aluminium forks
Made of EN AW-6082 T6 aluminium with 60x5 mm upper tube, 50x4 mm lower tube and 50x4 mm diagonal
Universal four-way or male/female pass-through connection

Upper chords A: extruded tube Ø 60x5 mm EN AW 6082T6
Lower chords A: extruded tube Ø 50x5 mm EN AW 6082T6
Diagonals B: extruded tube Ø 50x4 mm EN AW 6082 T6
Braces C: extruded tube Ø 50x4 mm EN AW 6082 T6
Ends D: forks connector EN AW 6082 T6
Connection system KHLP: Cylindrical pin + safety R-clip KHLM+KHLF

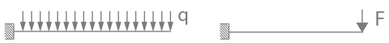
TRUSS code	H cm	L cm
FL105045V	flat section 105	45
FL105086V	flat section 105	86
FL105136V	flat section 105	136
FL105186V	flat section 105	186

LIBERA FL 105

LOAD TABLE

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/mm	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg/mm	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg/mm	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg/mm	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg/mm	FIFTH POINT LOAD central deflection mm
5	965	4	4825	3	2412	4	1579	4	1206	4
6	798	5	4790	4	2395	6	1561	5	1197	6
7	679	7	4106	6	2377	7	1544	7	1188	7
8	590	10	3560	8	2360	10	1526	9	1180	10
9	520	12	3131	10	2342	12	1509	12	1171	12
10	465	15	2785	12	2088	15	1392	14	1155	15
11	419	18	2498	14	1873	19	1249	17	1036	19
12	376	22	2256	17	1692	22	1128	20	963	22
13	315	25	2049	20	1537	26	1024	24	850	26
14	267	29	1869	23	1402	30	934	28	775	30
15	228	34	1710	27	1283	34	855	32	710	34
16	196	38	1570	31	1177	39	785	36	651	39
17	169	43	1443	35	1082	44	721	41	599	44
18	147	49	1329	39	997	50	664	46	551	50
19	129	54	1225	43	919	55	612	51	508	55
20	113	60	1130	48	847	61	565	57	469	61
21	99	66	1042	53	781	67	521	63	432	67
22	87	72	960	58	720	74	480	69	398	74
23	76	79	884	63	663	81	442	75	367	81
24	67	86	813	69	610	88	406	82	337	88
25	59	94	746	75	559	96	373	89	309	96

CANTILEVER LOAD TABLE



SPAN m	UNIF. DISTRIBUTED LOAD q am.- kg/m	UNIF. DISTRIBUTED LOAD defl.- mm	CENTRE POINT LOAD F am. - kg	CENTRE POINT LOAD defl.- mm
1,0	2465	0	2465	0
1,5	1631	1	2447	2
2,0	1215	2	2430	4
2,5	965	3	1956	6
3,0	798	6	1612	9
3,5	679	10	1367	12
4,0	590	14	1180	15

CONNECTIONS

LIBERA system features a 4-way connection
which is commonly know as a “star” connection.
LIBERA FL76 also uses a fork connection with a steel pin.

Diagonal

Four-way connection

Four-way connection
with eyebolt

Four-way connection with
sliding sheet guidance

Four-way connection with
adjustable foot

Four-way connection
with fork

KHLF

KHLM

KHLP

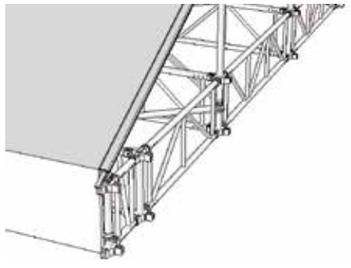
KHLB

KHLD

FORK CONNECTION

KHLF	female fork connector
KHLM	male fork connector
KHLP	cylindrical pin + safety R-clip 3 mm
KHLB	M20 screw nut
KHLD	conical spring washer

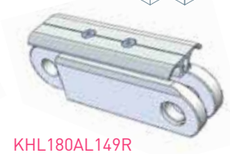
SLIDING SHEET
detail for LIBERA FL52, LIBERA FL76, LIBERA FL105



ACCESSORIES

The range of accessories for LIBERA
system comprises bar hooks (C052D, C040,
C400LCS04), spacers for constructing arc shapes
(KHL180AL149R, KH180AL200R), and transport
trolley systems for flat LIBERA trusses
(FL52ST, FL76ST, FL105ST).

FL52WS



KHL180AL149R

MTC 30F / 40F
Square frame with bolts
for QL40

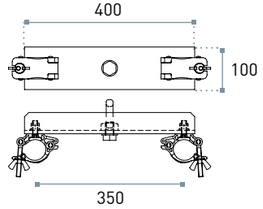
MTC30G / 40G
Left 90° connection
with steel fork

KHL 180S
180° connection
with steel fork

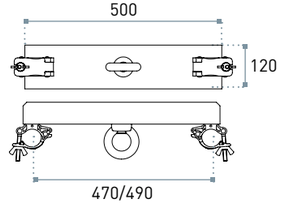
KHL 90S
Left 90° connection
with steel fork

KHL 90RS
Right 90° connection
with steel fork

C040



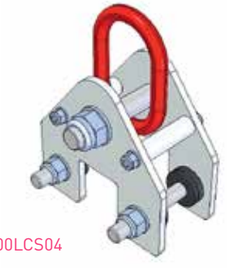
C052D



FL52WS	skate system for FL52 sleeve block
KHL180AL149R	alusfera 76 spacer A
KHL180AL200R	alusfera 76 spacer B
C040	bar hook for 40 cm truss
C052D	bar hook for 52 cm truss
FL52ST	FL52 Transport trolley system for 20 pieces
FL76ST	FL76 transport trolley system for 20 pieces
C400LCS04	ending hook for 4-way connection 1.5 ton

FL52ST

FL76ST



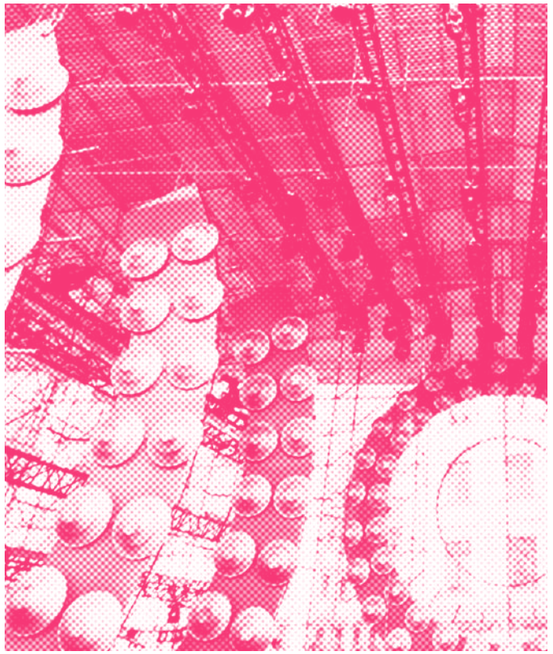
C400LCS04

Subsonica's Tour in Pordenone
Photo courtesy of ELECTRA SERVICE snc
Mantua, Italy

HIGH-LOAD "FORK" TRUSSES

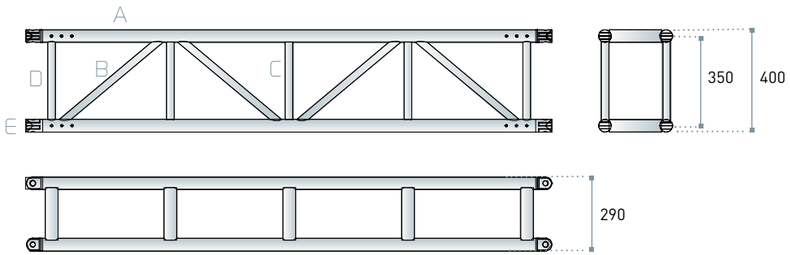
LOAD CARRYING CAPACITY

Load bearing trusses with universal fork connections for high-end solutions and excellent performances. Their design and twist-resistant geometry make High Load trusses usable both with horizontal and vertical forks.
They are strong and sturdy, and may be used as structural components in a grid, large load bearing beams or support towers. Some of the trusses in this line are built of extruded tubes with built in guides for inserting roofing sheets. Perfectly in line with international standard dimensions, they are totally integrated with the LIBERA System.



RF40

High Load 40x29 cm rectangular-section aluminium truss. It is the most compact truss of the High Load series with a fork connection. Suitable for quite long spans, it keeps an optimum ratio between maximum load and truss deflection. The horizontally-aligned fork ends allow the truss to be used with only minimal accessories to build grid structures.



Chords A:	extruded tube Ø 50x3 mm	EN AW 6082 T6
Diagonals B:	extruded tube Ø 30x3 mm	EN AW 6082 T6
Braces C:	extruded tube Ø 30x3 mm	EN AW 6082 T6
Braces D:	extruded tube Ø 50x3 mm	EN AW 6082 T6
Ends E:	aluminium fork connector	EN AW 6082 T6

Connection system KHLP: cylindrical pin + safety R-clip

LINEAR ELEMENTS

code	cm	kg
RF40100	40x29x100	13.2
RF40200	40x29x200	16.8
RF40300	40x29x300	20.0
RF40400	40x29x400	23.2

RF40

LOAD TABLE / FORK CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	UNIF. DISTRIBUTED LOAD full load kg	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD full load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD full load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD full load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD full load kg	FIFTH POINT LOAD central deflection mm
3	1928	5785	5	2524	2524	4	1593	3186	4	1222	3665	4	1009	4038	5
4	1257	5029	11	2084	2084	7	1351	2702	8	1059	3176	9	887	3549	9
5	852	4262	18	1770	1770	12	1171	2343	14	932	2797	15	771	3084	16
6	616	3696	28	1537	1537	18	1032	2065	21	832	2496	24	666	2662	24
7	458	3205	38	1356	1356	26	920	1840	30	750	2250	34	585	2340	34
8	353	2822	50	1211	1211	35	830	1659	41	667	2000	45	519	2077	45
9	279	2515	64	1090	1090	45	754	1508	53	595	1786	58	467	1867	58
10	226	2264	80	990	990	57	690	1380	67	537	1610	73	423	1692	73
11	187	2054	98	905	905	70	634	1269	83	487	1462	88	386	1543	89
12	156	1875	117	832	832	85	586	1172	101	445	1336	106	354	1416	107
13	132	1721	138	768	768	101	544	1088	120	409	1227	125	326	1305	127
14	113	1586	160	711	711	119	505	1010	141	377	1131	146	302	1207	149
15	98	1467	185	660	660	138	471	942	164	349	1047	169	280	1120	172
16	85	1361	211	615	615	158	440	881	188	324	972	193	261	1042	197
17	74	1266	239	574	574	180	413	825	215	301	904	218	243	972	223
18	66	1180	268	536	536	204	387	774	243	281	843	246	227	908	252
19	58	1099	299	502	502	230	364	727	273	263	788	275	212	850	282
20	51	1026	331	471	471	257	342	684	305	245	736	306	199	796	314

CANTILEVER LOAD TABLE / FORK CONNECTION

SPAN m	UNIFORMLY DISTRIBUTED LOAD q am.- kg/m	UNIFORMLY DISTRIBUTED LOAD q am.- kg	UNIFORMLY DISTRIBUTED LOAD defl.- mm	CENTRE POINT LOAD F am. - kg	CENTRE POINT LOAD defl.- mm
1	2165	2165	1	1593	1
2	790	1581	4	1035	7
3	413	1238	11	762	18
4	252	1010	22	598	34
5	169	846	36	488	55
6	120	722	55	408	81
7	89	624	77	348	111

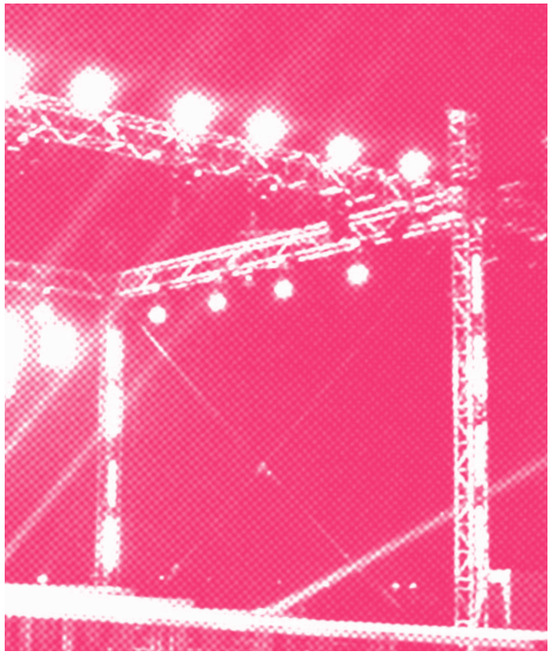
AXIAL LOAD TABLE

H m	AXIAL LOAD N am. Kg
3	17392
6	8148
9	3852
12	2222
15	1407

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

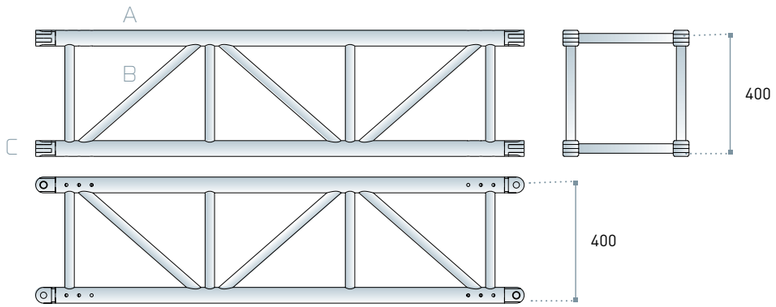
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.



QL40A
ANTI-TORSION

Square section High Load aluminium truss with 40 cm long sides. It is diagonalized on all faces and is provided with an aluminium fork connection. This guarantees excellent rigidity and elevated resistance in both horizontal and vertical applications despite its reduced section.



Chords A:	extruded tube Ø 50x4 mm	EN AW 6082 T6
Diagonals B:	extruded tube Ø 30x3 mm	EN AW 6082 T6
Ends C:	aluminium forks connector	EN AW 6082 T6
Connection system	KHLP: cylindrical pin + safety R-clip	

LINEAR ELEMENTS

code	cm	kg
QL40100A	40X40X100	14.70
QL40130A	40X40X130	17.50
QL40200A	40X40X200	25.30
QL40300A	40X40X300	36.20

GATES AND ACCESSORIES

code	cm	kg
FL40035P	40X35X5	3.5
FL40049MS	40X49 - 5X5	4.1
MTC30F	48x48X1	5
MTC30G / MTC30D	48X48X1	4.2
KHLP	Ø 2	0.15

QL40A ANTI-TORSION

LOAD TABLE / FORK CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	UNIF. DISTRIBUTED LOAD full load kg	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD full load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD full load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD full load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD full load kg	FIFTH POINT LOAD central deflection mm
3	1579	4736	3	2601	2601	3	1521	3043	3	1110	3331	3	884	3535	3
4	1173	4693	8	2264	2264	6	1360	2720	6	1010	3031	6	814	3256	7
5	891	4456	15	2004	2004	11	1229	2458	11	926	2778	12	754	3016	12
6	692	4151	24	1795	1795	17	1119	2239	18	854	2562	19	702	2809	20
7	549	3842	35	1624	1624	24	1027	2055	26	793	2378	28	657	2628	29
8	445	3561	49	1480	1480	33	947	1895	36	738	2213	39	616	2465	41
9	362	3260	64	1358	1358	43	879	1757	48	690	2069	52	580	2320	55
10	301	3007	82	1253	1253	55	818	1636	61	647	1940	67	546	2184	72
11	253	2779	101	1160	1160	69	764	1527	77	608	1824	85	504	2015	89
12	212	2547	121	1079	1079	84	715	1430	95	573	1720	105	467	1867	108
13	179	2327	143	1006	1006	101	671	1342	114	541	1622	127	434	1736	130
14	153	2136	165	941	941	120	631	1262	136	512	1536	152	405	1621	153
15	131	1969	190	881	881	141	595	1190	159	484	1453	178	379	1514	178
16	114	1822	216	827	827	163	561	1121	185	455	1366	206	355	1419	205
17	99	1690	244	779	779	187	530	1061	212	423	1268	233	333	1333	234
18	87	1572	273	733	733	213	501	1003	242	393	1179	261	313	1253	265
19	77	1464	304	691	691	240	475	950	274	366	1098	291	295	1179	298
20	68	1366	337	652	652	270	450	899	308	342	1025	323	278	1111	333

CANTILEVER LOAD TABLE / FORK CONNECTION

SPAN m	UNIFORMLY DISTRIBUTED LOAD q am.- kg/m	UNIFORMLY DISTRIBUTED LOAD q am.- kg	UNIFORMLY DISTRIBUTED LOAD defl.- mm	CENTRE POINT LOAD F am. - kg	CENTRE POINT LOAD defl.- mm
1	1844	1844	0	1519	1
2	752	1504	3	1120	6
3	422	1267	9	881	16
4	272	1087	18	723	32
5	190	948	32	608	53
6	139	831	49	520	79
7	105	736	71	450	111

AXIAL LOAD TABLE

H m	AXIAL LOAD N am. Kg
3	27759
6	10833
9	4951
12	2813
15	1820

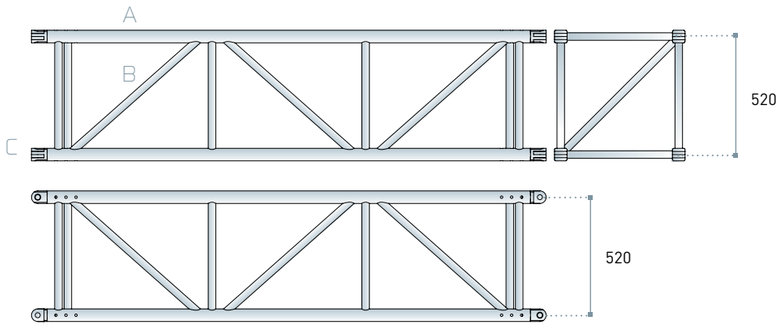
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

QL52A
ANTI-TORSION

Square section High Load aluminium truss with 52 cm long sides. It is diagonalized on all faces and is provided with an aluminium fork connection. It shows great versatility in use both as a tower (Maxitower 52) and as a span.



Chords A:	extruded tube Ø 50x4 mm	EN AW 6082 T6
Diagonals B:	extruded tube Ø 30x3 mm	EN AW 6082 T6
Ends C:	aluminium forks connector	EN AW 6082 T6
Connection system	KHLP: cylindrical pin + safety R-clip	

LINEAR ELEMENTS

code	cm	kg
QL52100A	52X52X100	16.70
QL52130A	52X52X130	19.20
QL52200A	52X52X200	26.70
QL52300A	52X52X300	36.60

GATES AND ACCESSORIES

code	cm	kg
FL52047P	52X47X5	4.4
FL52066MSP	52X66,5X5	5.0
MTC40F	59X59X1	4.3
MTC40G / MTC40D	59X59X1	14.5 / 13.3
KHLP	Ø 2	0.15

QL52A ANTI-TORSION

LOAD TABLE / FORK CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/m	UNIF. DISTRIBUTED LOAD full load kg	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD full load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD full load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD full load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD full load kg	FIFTH POINT LOAD central deflection mm
3	1108	3324	1	2213	2213	1	1239	2479	1	880	2640	1	687	2750	1
4	828	3313	3	1991	1991	3	1141	2281	3	821	2464	3	648	2593	3
5	660	3300	6	1809	1809	5	1056	2111	5	770	2311	5	613	2453	5
6	547	3284	11	1656	1656	9	981	1963	9	724	2173	9	581	2323	9
7	457	3199	16	1526	1526	13	917	1834	13	683	2049	13	552	2207	14
8	387	3093	24	1413	1413	18	860	1720	18	646	1938	19	525	2101	20
9	330	2973	33	1315	1315	24	808	1616	25	612	1836	26	501	2003	27
10	281	2815	43	1227	1227	30	761	1523	32	581	1742	34	478	1911	35
11	243	2673	54	1149	1149	38	719	1437	41	552	1656	43	456	1825	45
12	212	2542	68	1078	1078	47	680	1360	50	525	1576	54	437	1748	57
13	186	2417	83	1014	1014	57	644	1287	61	501	1502	66	418	1671	70
14	163	2281	98	956	956	68	611	1222	74	478	1433	80	401	1603	85
15	144	2156	115	903	903	80	580	1160	87	456	1367	94	384	1535	101
16	127	2027	133	853	853	94	551	1102	102	436	1307	111	368	1473	118
17	113	1927	153	808	808	108	524	1049	118	416	1249	129	350	1399	137
18	101	1827	175	766	766	124	499	999	135	398	1193	148	330	1321	155
19	91	1731	197	727	727	141	476	951	154	381	1142	169	313	1250	176
20	81	1630	220	690	690	159	453	905	174	364	1093	192	296	1182	197
21	74	1556	246	659	659	179	430	859	195	348	1044	215	281	1126	220
22	67	1467	272	622	622	199	415	830	220	333	1000	241	267	1067	245

CANTILEVER LOAD TABLE / FORK CONNECTION

SPAN m	UNIFORMLY DISTRIBUTED LOAD q am.- kg/m	UNIFORMLY DISTRIBUTED LOAD q am.- kg	UNIFORMLY DISTRIBUTED LOAD defl.- mm	CENTRE POINT LOAD F am. - kg	CENTRE POINT LOAD defl.- mm
1	610	1221	1	979	3
2	356	1069	4	807	8
3	237	948	9	682	17
4	169	844	16	587	28
5	127	760	25	511	43
6	98	684	37	449	62
7	77	616	52	396	83

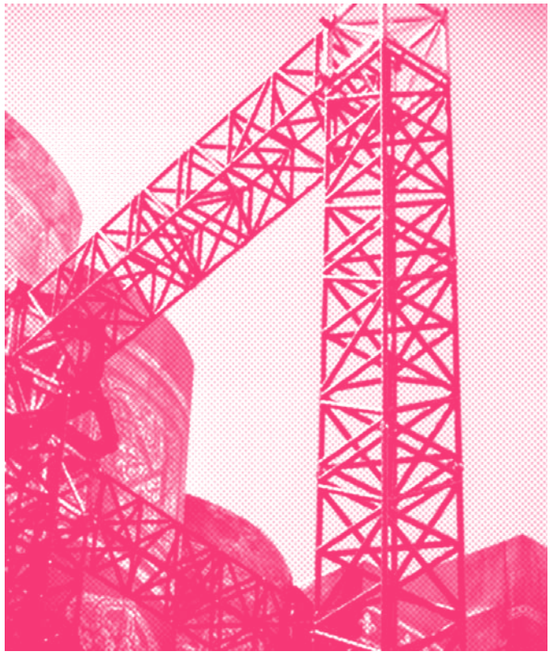
AXIAL LOAD TABLE

H m	AXIAL LOAD N am. Kg
3	24852
6	18007
9	8595
12	4948
15	3200
18	2235
21	1647

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

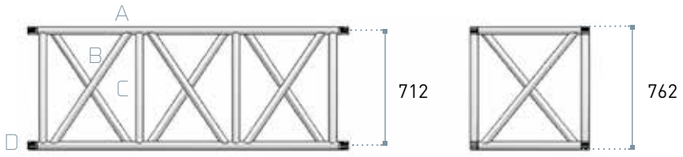
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.



QL76A
ANTI-TORSION

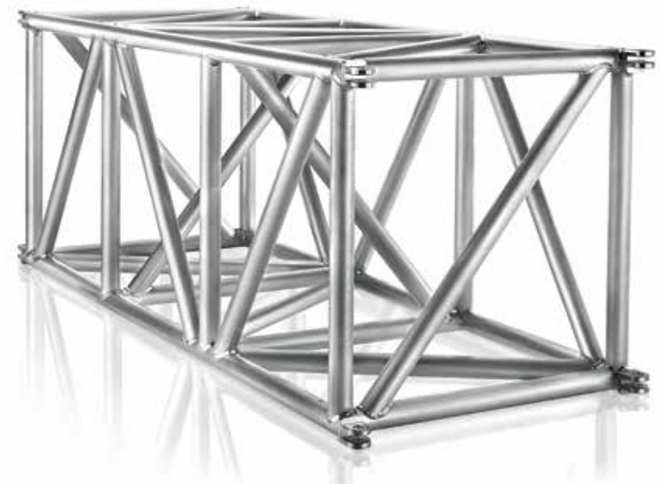
Square section High Load aluminium truss with 76 cm long sides. It is provided with steel fork connections and Ø50x4 mm chords. Thanks to its elevated moment of inertia and resistance of its connections, it is mainly used in the composition of towers (Maxitower 76).



Chords A:	extruded tube Ø 50x4 mm	EN AW 6082 T6
Diagonals B:	extruded tube Ø 50x3 mm	EN AW 6082 T6
Braces C:	extruded tube Ø 50x4 mm	EN AW 6082 T6
Ends D:	steel forks connector	11SMnPb37
Connection system	KHLP: cylindrical pin + safety R-clip	

LINEAR ELEMENTS

code	cm	kg
QL76078A Tipo A	76.2X76.2X78	30.70
QL76078AB Tipo B	76.2X76.2X78	30.70
QL76200A Tipo A	76.2x76.2x200	56.70
QL76200AB Tipo B	76.2x76.2x200	56.70
QL76250A Tipo A	76.2x76.2x250	68.60



QL76A ANTI-TORSION

LOAD TABLE / FORK CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD point load kg/mm	UNIF. DISTRIBUTED LOAD central deflection mm	CENTRE POINT LOAD point load kg	CENTRE POINT LOAD central deflection mm	THIRD POINT LOAD point load kg	THIRD POINT LOAD central deflection mm	QUARTER POINT LOAD point load kg	QUARTER POINT LOAD central deflection mm	FIFTH POINT LOAD point load kg	FIFTH POINT LOAD central deflection mm
5	1126	9	4998	8	2815	10	1856	9	1407	10
6	934	14	4142	11	2802	14	1843	13	1401	14
7	797	18	3527	15	2645	19	1763	18	1395	19
8	694	24	3063	19	2297	25	1531	23	1271	25
9	600	31	2699	24	2024	31	1349	29	1120	31
10	481	38	2405	30	1804	39	1202	36	998	39
11	393	46	2163	37	1622	47	1081	43	897	47
12	326	54	1958	43	1469	56	979	52	813	56
13	274	64	1784	51	1338	65	892	61	740	65
14	233	74	1632	59	1224	76	816	70	677	76
15	199	85	1499	68	1124	87	750	81	622	87
16	173	97	1381	77	1036	99	691	92	573	99
17	150	109	1275	87	957	111	638	103	529	111
18	131	122	1180	98	885	125	590	116	490	125
19	115	136	1094	109	820	139	547	129	454	139
20	101	151	1015	121	761	154	507	143	421	154
21	90	166	942	133	707	170	471	158	391	170
22	80	182	875	146	656	187	437	173	363	187

CANTILEVER LOAD TABLE / FORK CONNECTION

SPAN m	UNIFORMLY DISTRIBUTED LOAD q am.- kg/m	UNIFORMLY DISTRIBUTED LOAD defl.- mm	CENTRE POINT LOAD F am. - kg	CENTRE POINT LOAD defl.- mm
1	2853	1	2853	2
2	1414	6	2144	10
3	852	19	1571	25
4	523	37	1217	46
5	351	62	972	74
6	249	93	791	106
7	184	132	648	143

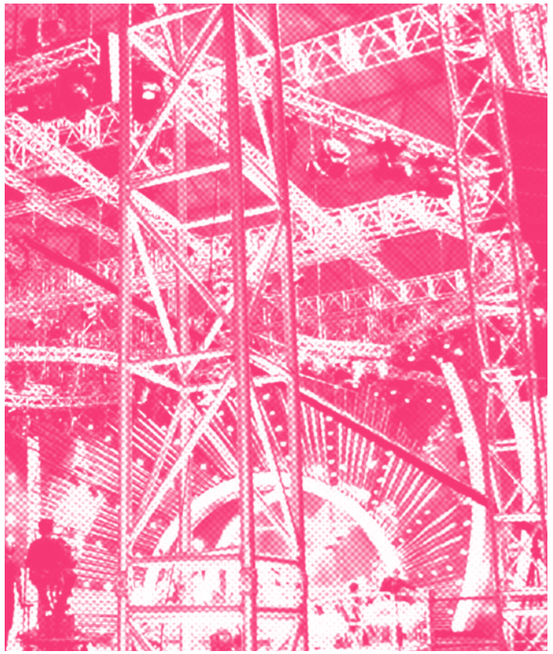
AXIAL LOAD TABLE

H m	AXIAL LOAD N am. Kg
6	14060
9	8480
12	4570
15	2730
18	1700

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

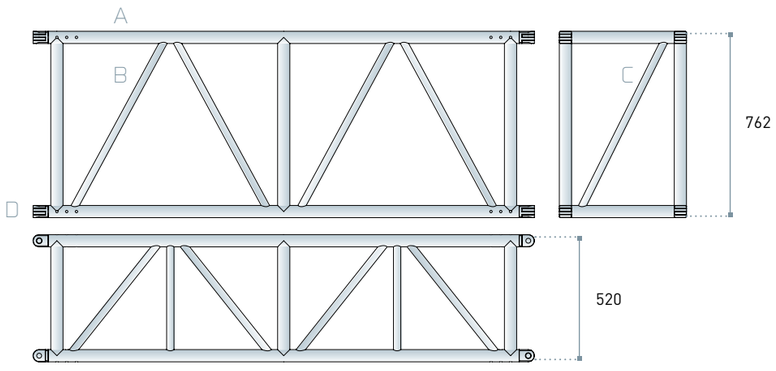
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.



RL76A
ANTI-TORSION

Rectangular section High Load aluminium truss with 76x52 cm long sides. It is diagonalized on all faces and is provided with steel fork connections. It ensures high load capacity on medium-long spans thanks to the design of its main components.



Chords A:	extruded tube Ø 50x4 mm	EN AW 6082 T6
Diagonals B:	extruded tube Ø 30x3 mm	EN AW 6082 T6
Braces C:	extruded tube Ø 50x4 mm	EN AW 6082 T6
Ends D:	steel forks connector	11SMnPb37

Connection system KHLP: cylindrical pin + safety R-clip

LINEAR ELEMENTS

code	cm	kg
RL76100A	76.2X52X100	19.40
RL76200A	76.2X52X200	45.00
RL76300A	76.2X52X300	52.00

CORNERS AND SLEEVE BLOCK

code	cm	kg
FL76047P	76.2X47X5	8.9
FL76066M5	76.2X66.5X5	9.7
MTC40F	59X59X1	4.3
MTC40G / MTC40D	59X59X1	13.3 / 14.5
KHLP	Ø 2	0.15

RL76A ANTI-TORSION

LOAD TABLE / FORK CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD q			CENTRE POINT LOAD F			THIRD POINT LOAD F F			QUARTER POINT LOAD F F F			FIFTH POINT LOAD F F F F		
	point load kg/m	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm
3	1314	3941	1	3287	3287	1	1749	3498	1	1203	3609	1	919	3676	1
4	980	3918	2	3073	3073	2	1667	3333	2	1159	3476	2	891	3564	2
5	780	3898	3	2877	2877	4	1588	3176	4	1115	3346	3	863	3454	3
6	646	3873	5	2698	2698	6	1514	3028	6	1074	3221	6	836	3345	6
7	550	3852	9	2536	2536	9	1444	2887	9	1033	3100	9	810	3239	9
8	479	3828	13	2389	2389	13	1378	2755	13	994	2983	13	784	3136	13
9	423	3807	19	2254	2254	18	1315	2631	17	957	2872	18	759	3036	18
10	378	3783	25	2131	2131	23	1257	2514	23	922	2765	24	735	2939	24
11	342	3761	34	2017	2017	29	1202	2403	30	888	2663	31	711	2845	31
12	312	3738	44	1913	1913	36	1149	2299	37	855	2564	39	689	2754	39
13	286	3716	56	1816	1816	45	1100	2200	46	823	2470	48	667	2666	49
14	264	3694	70	1726	1726	53	1053	2107	55	793	2380	58	645	2581	60
15	245	3671	86	1642	1642	63	1009	2018	66	764	2293	69	624	2498	72
16	223	3572	102	1564	1564	74	967	1934	78	737	2210	82	604	2418	85
17	202	3441	119	1490	1490	86	927	1854	91	710	2129	96	585	2340	100
18	184	3315	137	1421	1421	99	889	1778	104	684	2052	111	566	2265	116
19	168	3196	157	1357	1357	113	852	1705	120	659	1978	127	548	2192	134
20	152	3046	177	1295	1295	128	818	1635	136	635	1906	145	530	2121	153
21	137	2872	196	1236	1236	144	785	1569	153	612	1837	164	513	2050	173
22	123	2710	216	1171	1171	160	752	1505	172	590	1770	185	496	1983	195
23	111	2560	237	1111	1111	177	722	1443	191	568	1705	206	473	1891	216
24	101	2419	259	1055	1055	195	692	1384	212	548	1643	230	448	1793	237
25	91	2287	282	1001	1001	214	663	1327	235	527	1582	254	425	1700	259

CANTILEVER LOAD TABLE / FORK CONNECTION

SPAN m	UNIFORMLY DISTRIBUTED LOAD q			CENTRE POINT LOAD F	
	q am.- kg/m	q am.- kg	defl.- mm	F am. - kg	defl.- mm
1	859	1717	1	1502	2
2	527	1580	3	1306	6
3	363	1452	6	1144	12
4	267	1333	11	1009	21
5	204	1227	18	896	33
6	161	1125	27	799	48
7	130	1037	38	715	65

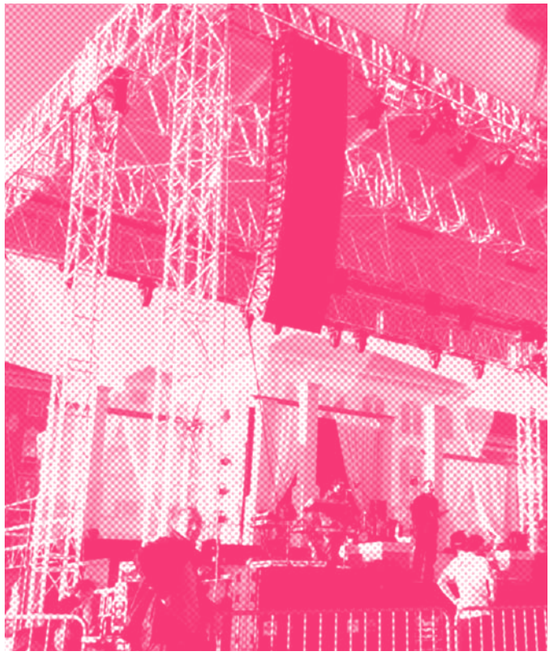
AXIAL LOAD TABLE

H m	AXIAL LOAD N am. Kg
3	21848
6	18339
9	8625
12	4945
15	3191
18	2227
21	1781

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.



RL 105A
ANTI-TORSION

Rectangular section High Load aluminium truss with 105x67 cm long sides.
It is intended for uses that require elevated loads on large spans.
The steel fork connection bestows sturdiness and wear resistance to the system. It is designed and tested according to the most widespread international standards.

Chords A:	extruded tube Ø 60x5 mm	EN AW 6082 T6
Diagonals B:	extruded tube Ø 50x3 mm	EN AW 6082 T6
Braces C:	extruded tube Ø 50x4 mm	EN AW 6082 T6
Ends D:	steel forks connector	11SMnPb37
Connection system KHLP:	cylindrical pin + safety R-clip	

LINEAR ELEMENTS

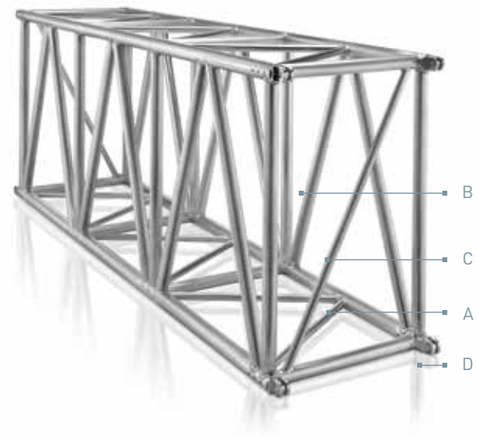
code	cm	kg
RL105100A	106x67x100	41.5
RL105200A	106x67x200	62.5
RL105300A	106x67x300	83.5

GATES AND ACCESSORIES

code		kg
KHLPZ1	Cylindrical pin + safety R-clip	0.2
C067RL	Pick up bar RL 105	9.9
RL105TT	RL 105 skate set - 2 pcs	7.5 On demand

GATES AND ACCESSORIES

code		kg
RL 105X4	HL 105 rectangular 4 ways corner	75.2
MTS 52K02	Wheel set for sleeve block Set of 8 pcs	19.6
MTS 52R105	RL105 4 ways sleeve block Maxitower 52	94.8
MTS 52R105H	RL105 3 ways w/hoist support sleeve block - Maxitower 52	103.1
MTS 52K01	Guy-wires fastening to sleeve block - Set of 4 pcs	6.3



CANTILEVER LOAD TABLE / FORK CONNECTION

SPAN m	UNIFORMLY DISTRIBUTED LOAD q			CENTRE POINT LOAD F	
	q am.- kg/m	q am.- kg	defl.- mm	F am. - kg	defl.- mm
1	4750	4750	0	3994	0
2	1976	3952	1	3018	1
3	1126	3377	2	2418	4
4	734	2936	4	2005	7
5	517	2583	7	1702	12
6	382	2290	11	1467	18
7	292	2043	16	1279	26
8	229	1831	22	1124	34
9	183	1644	29	994	44
10	148	1479	36	882	54

RL 105A ANTI-TORSION
LOAD TABLE / FORK CONNECTION

SPAN m	UNIF. DISTRIBUTED LOAD			CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD		
	point load kg/m	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm
3	3471	10414	1	9669	9669	1	5207	10414	1	3471	10414	1	2603	10414	1
4	2596	10386	1	8615	8615	2	5009	10018	2	3462	10386	2	2596	10386	2
5	2072	10358	3	7394	7394	3	4619	9238	3	3398	10193	4	2590	10358	3
6	1722	10330	5	6461	6461	5	4273	8546	5	3190	9569	6	2574	10294	6
7	1472	10303	8	5735	5735	7	3841	7683	8	3002	9005	9	2441	9764	9
8	1284	10275	12	5149	5149	9	3484	6969	11	2827	8482	12	2222	8887	12
9	1139	10247	16	4663	4663	12	3184	6368	14	2587	7761	16	2006	8024	16
10	990	9896	22	4255	4255	15	2927	5854	18	2340	7019	20	1826	7303	20
11	819	9005	27	3905	3905	19	2704	5409	22	2132	6395	24	1672	6689	24
12	687	8246	32	3603	3603	23	2509	5019	27	1954	5863	29	1540	6160	29
13	584	7591	38	3342	3342	27	2337	4674	32	1801	5403	34	1425	5698	34
14	501	7020	44	3108	3108	32	2183	4366	37	1667	5000	40	1323	5292	40
15	434	6516	50	2899	2899	37	2045	4090	43	1548	4645	46	1232	4926	46
16	379	6068	57	2711	2711	42	1920	3839	50	1442	4326	52	1151	4603	53
17	333	5666	65	2540	2540	48	1805	3611	57	1346	4039	59	1078	4311	60
18	295	5302	73	2387	2387	54	1704	3408	65	1262	3786	66	1011	4046	68
19	261	4968	81	2244	2244	61	1608	3216	72	1183	3548	74	951	3803	76
20	234	4671	90	2113	2113	68	1519	3038	81	1111	3332	82	895	3580	84
21	209	4392	99	1995	1995	75	1439	2877	90	1047	3140	91	844	3376	93
22	188	4135	109	1884	1884	83	1362	2723	99	986	2957	100	797	3190	102
23	169	3891	119	1779	1779	91	1290	2580	109	930	2791	109	752	3010	112
24	152	3660	129	1681	1681	100	1222	2443	119	877	2631	119	711	2843	122
25	138	3452	139	1589	1589	109	1160	2320	130	828	2483	129	672	2687	133
26	125	3254	150	1503	1503	118	1100	2201	141	781	2344	139	634	2538	143
27	114	3069	162	1421	1421	128	1044	2088	152	737	2210	150	601	2403	155
28	103	2897	173	1343	1343	138	991	1981	164	697	2090	162	568	2272	166
29	94	2730	185	1270	1270	149	940	1880	177	658	1974	173	537	2149	179
30	86	2573	198	1200	1200	160	891	1783	189	621	1863	185	508	2031	191
31	78	2424	210	1133	1133	171	845	1690	203	586	1757	198	480	1919	204
32	71	2283	223	1069	1069	183	801	1602	216	552	1657	210	453	1812	217
33	65	2148	237	1008	1008	196	759	1517	231	520	1561	224	427	1710	231

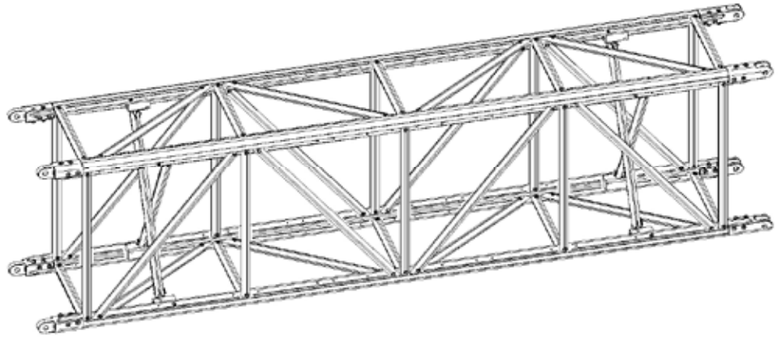
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

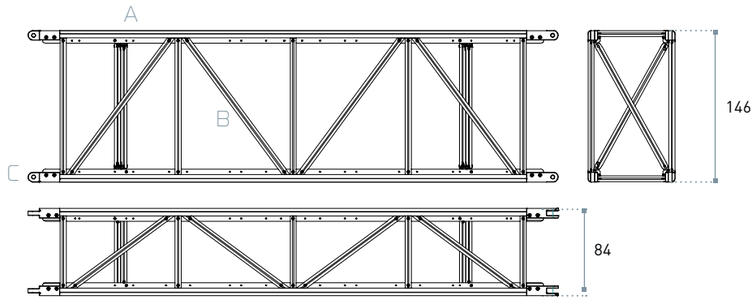
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

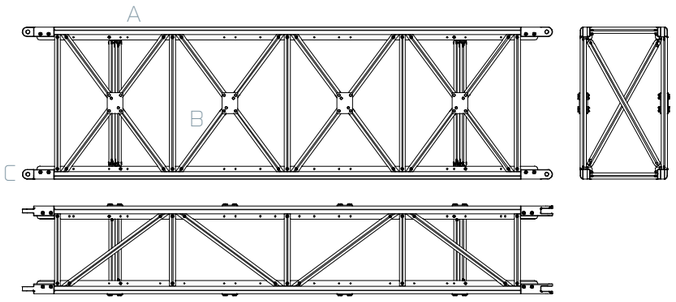
It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

MyT

Rectangular section High Load aluminium truss with extraordinary dimensions; it is 84 cm wide, 146 cm high and 500 cm long, and weighs 430 kg. It is made in high-performance aluminium alloy EN AW-7003 T6, among the aluminium series with the best mechanical characteristics. The truss can be used in large installations intended for entertainment, for temporary and semi-permanent structures. At maximum load spans it undergoes virtually no bending.







It has even better performances in the STEROID version thanks to the double number of diagonals on the vertical faces.

MyT classic

Chords A: extruded aluminium	EN AW 7003 T6
Diagonals B: extruded aluminium	EN AW 7003 T6
Ends C: aluminium forks connector	EN AW 7003 T6
Connection system:	TR150M-A002

LOAD TABLE / FORK CONNECTION

UNIF. DISTRIBUTED LOAD q

SPAN m	point load kg	full load kg
10	1290	12900
20	610	12200
35	310	10850

LINEAR ELEMENTS

code	cm	kg
TR150M-50M-A	84x146x500	430
TR150M-50M-G	84x146x500	495

MyT steroid

Chords A: extruded aluminium	EN AW 7003 T6
Diagonals B: extruded aluminium	EN AW 7003 T6
Ends C: aluminium forks connector	EN AW 7003 T6
Connection system:	TR150M-A002

LOAD TABLE / FORK CONNECTION

UNIF. DISTRIBUTED LOAD q

SPAN m	point load kg	full load kg
10	2100	21000
20	1020	20400
35	300	10500

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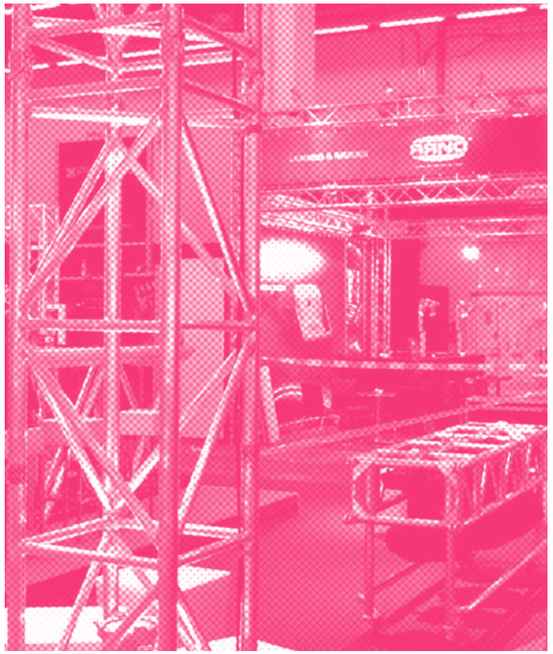
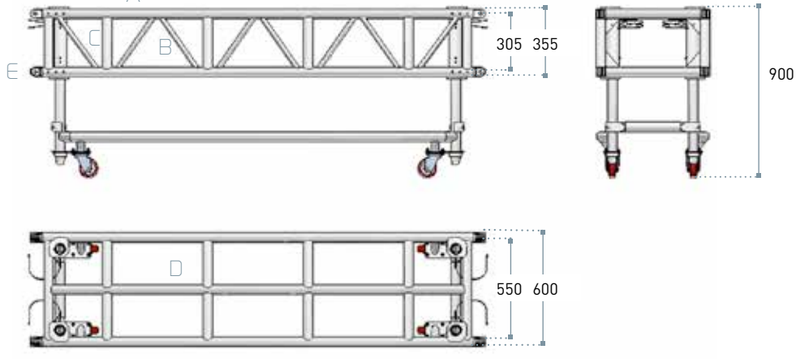
It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.



Pre-rig

A pre-rig truss for supporting and transporting moving heads. It is equipped with 4 castor wheels for easy maneuverability and pins for the connection of truss pieces. Each truss is designed to carry a lighting bar complete with moving heads. The lighting bar is hooked onto the main chord and allows lights to move. This design reduces the amount of space required for rigging in the truck.



Chords A:	extruded tube Ø 50x4 mm	EN AW 6082 T6
Diagonals B:	extruded tube Ø 25,4x3,17 mm	EN AW 6082 T6
Vertical braces C:	extruded tube Ø 50x4 mm	EN AW 6082 T6
Horizontal braces D:	extruded tube Ø 50x3 mm	EN AW 6082 T6
Ends E:	aluminium forks connector	EN AW 6082 T6
Connection system KHLP:	cylindrical pin + safety R-clip	

Pre-rig

LOAD TABLE / FORK CONNECTION

PRELIMINARY INFORMATION

	UNIF. DISTRIBUTED LOAD			CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD		
SPAN m	point load kg/m	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm	point load kg	full load kg	central deflection mm
3	956	2868	8	731	731	3	960	1920	6	780	2340	7
6	496	2976	31	1624	1624	25	1002	2004	23	651	1953	22
9	195	1755	52	640	640	30	750	1500	51	528	1584	54
12	85	1020	70	677	677	65	408	816	70	290	870	69
15	38	570	86	381	381	85	229	458	84	159	477	85
18	15	270	105	208	208	100	125	250	105	115	345	100

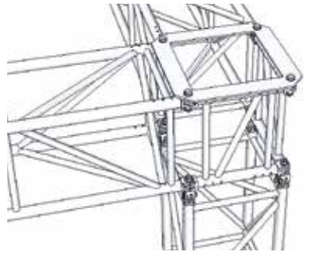
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table.

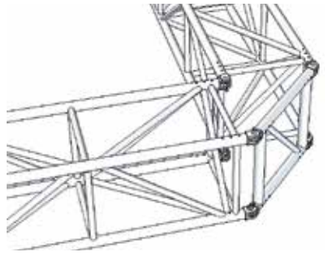
It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

CONNECTIONS

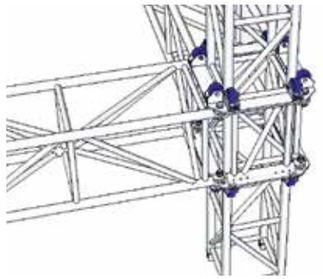
Only forked connectors with steel junction pins are used in the High Load series. Designed to withstand the highest stress and load levels, they offer guaranteed compatibility with the whole series.



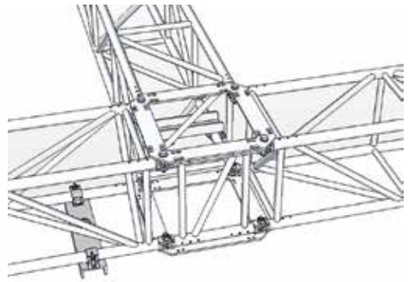
90° solution with pillar



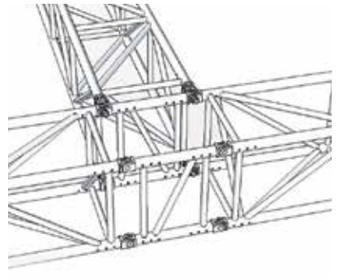
90° solution with gate



90° solution with wheeled frame



3-way solution with frame



3-way solution with vertical forks

KHLF
Female fork connector

KHLM
Male fork connector

KHL 180S
180° double fork steel connector

KHL 90LS
90° double fork steel connector, left

KHL 90RS
90° double fork steel connector, right

KHLP
Cylindrical pin + safety R-clip 3mm

KHLD
M20 screw nut + conical spring washer

KHLB
M20 screw bolt + conical spring washer

ACCESSORIES

High Load structures can be extended using specially designed accessories for suspension, transportation and reinforcement, including hooks, corner frames and skates for the RL76 A truss.

C040
Bar hook
for 40 cm trusses

C052D
Bar hook
for 52 cm trusses

RL76TT
Skate for
QL52A/RL76A trusses

MTC30F/MTC40F
Square frame with bolts
for QL40A

MTC76F
MT76 frame with bolts

MTC76D
MT76 frame with wheels

MTC30G / 40G
Square frame with wheels
and eye-bolts

GATES

Gates are short, flat-section High Load elements generally used when putting together corners or tower sleeve blocks.

FL40035P
HL 40 cm flat truss
with horizontal forks
35 cm length

FL52066M5P
HL 52 cm flat truss
with horizontal forks
66,5 cm length

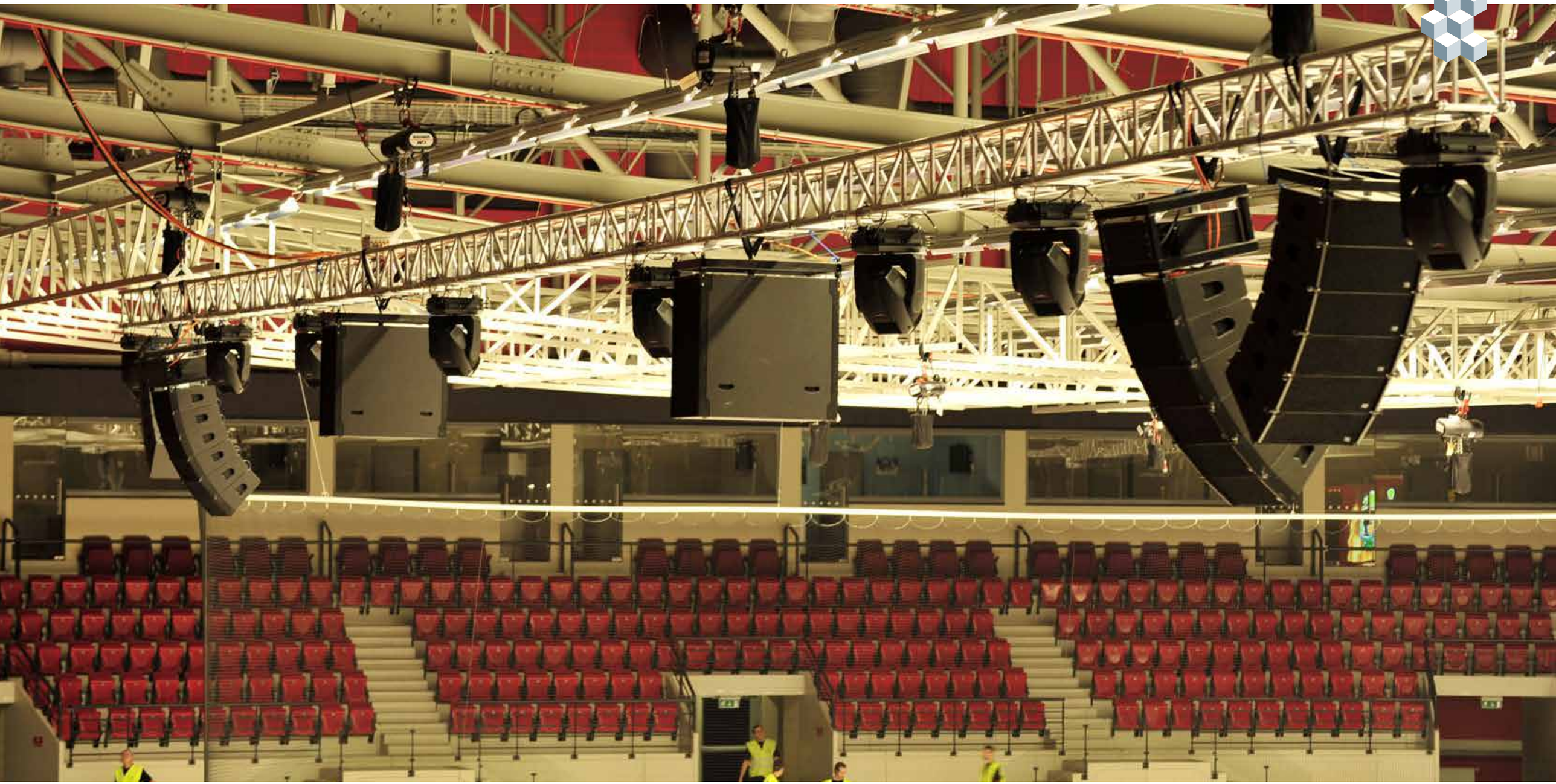
FL40049M5P
HL 40 cm flat truss
with horizontal forks
49,5 cm length

FL52047P
HL 52 cm flat truss
with horizontal forks
47 cm length

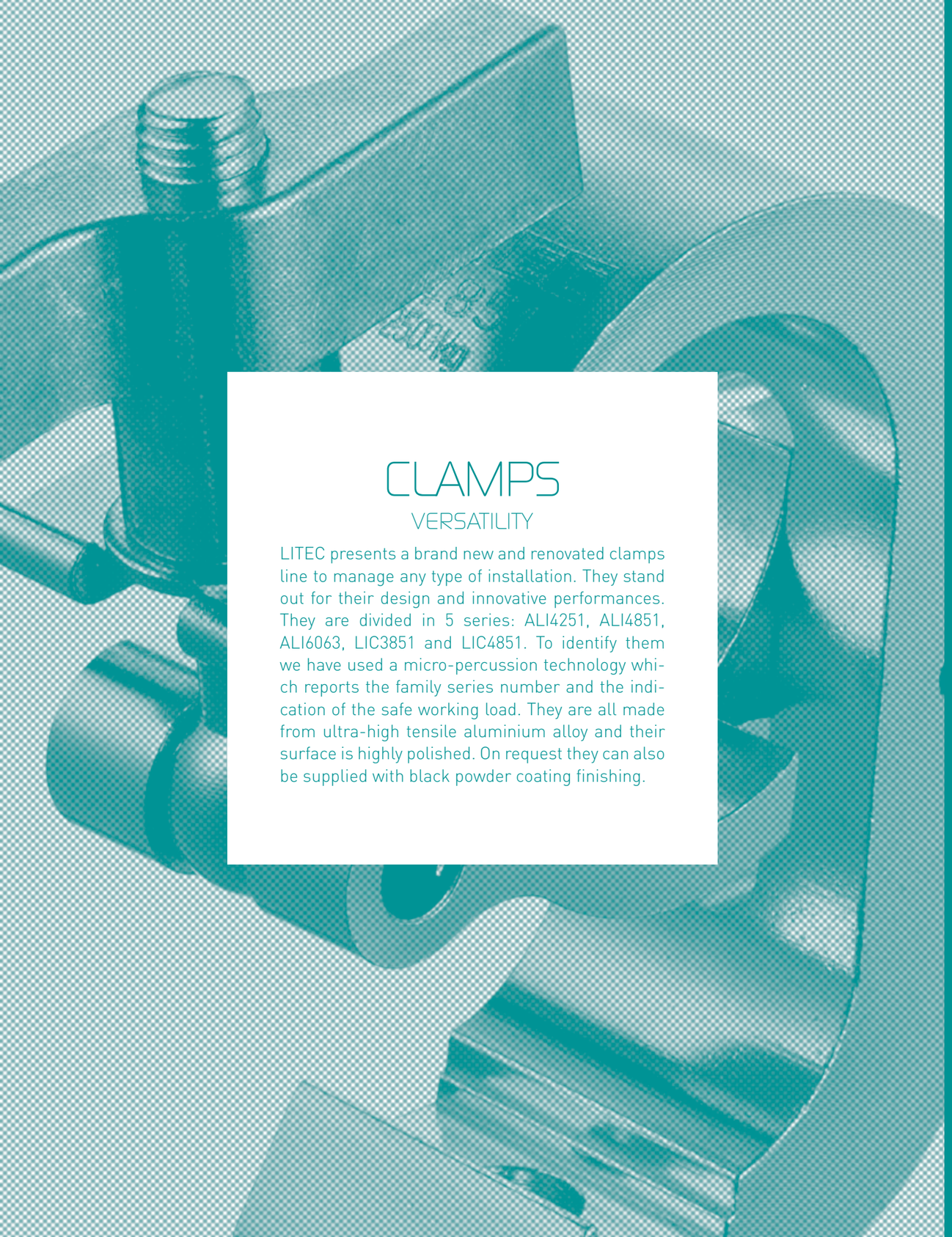
FL76066M5P
HL 76 cm flat truss
with horizontal forks
66,5 cm length

FL76047P
HL 76 cm flat truss
with horizontal forks
47 cm length

HIGH LOAD FORK TRUSSES



Multi-purpose Hall KV Arena Karlsbad (Karlovy Vary), Czech Republic
Photo courtesy of MusicData s.r.o.,
Velke Mezirici, Czech Republic



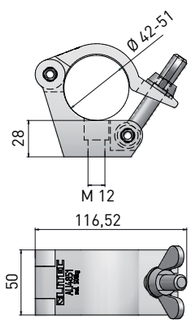
CLAMPS

VERSATILITY

LITEC presents a brand new and renovated clamps line to manage any type of installation. They stand out for their design and innovative performances. They are divided in 5 series: ALI4251, ALI4851, ALI6063, LIC3851 and LIC4851. To identify them we have used a micro-percussion technology which reports the family series number and the indication of the safe working load. They are all made from ultra-high tensile aluminium alloy and their surface is highly polished. On request they can also be supplied with black powder coating finishing.

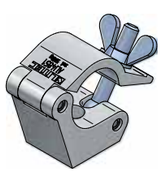
ALI4251

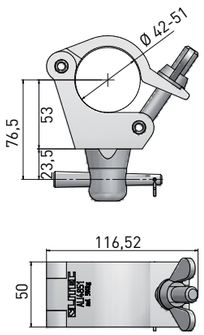
This line includes all “the truss clamps” designed for tubes from 42 to 51mm. Truss clamps are all supplied with M12 wing nuts.



LT HCL5111F

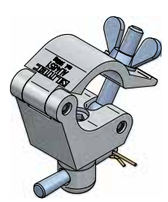
Truss clamp ALI4251
FLAT swl 500kg

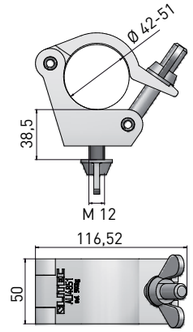




LT HCL51L01F

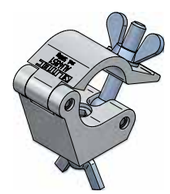
Truss clamp ALI4251
FL. 1/2 SP. swl 500kg

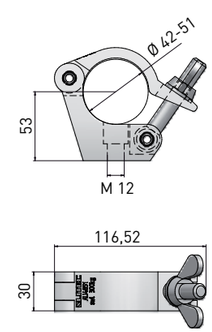




LT HCL5102F

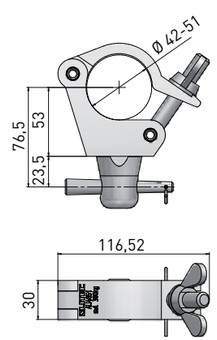
Truss clamp ALI4251 FL
M12/35 swl 500kg





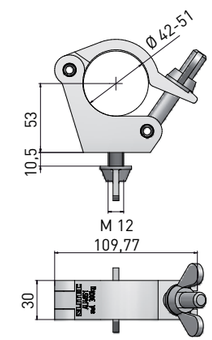
LT HCL5112FN

Truss clamp ALI4251
FLAT N swl 300kg



LT HCL51L01FN

Truss clamp ALI4251
FL. N. 1/2 SP. swl 300kg

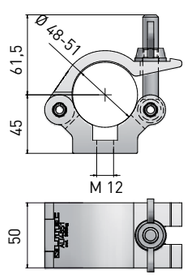


LT HCL5102FN

Truss clamp ALI4251 FL.
N. M12/35 swl 300kg

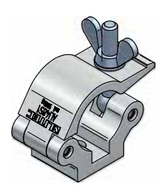
ALI4851

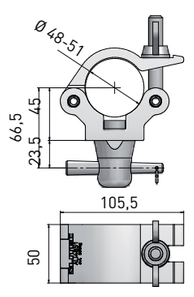
This line includes all “the truss clamps” designed for tubes from 48 to 51mm. Truss clamps are all supplied with M12 wing nuts with the exception of the clamps LT HCL5101S, LT HCL51L01S, LT HCL5102S, LT HCL5104S and LT HCL5111S that mount M10 wing nuts.



LT HCL5101

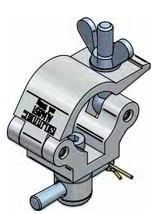
Truss clamp ALI4851
swl 500kg

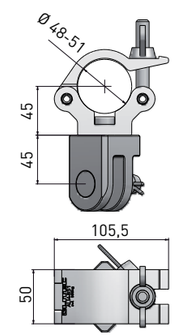




LT HCL51L01

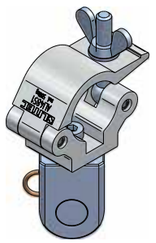
Truss clamp ALI4851
1/2 SPIGOT swl 500kg

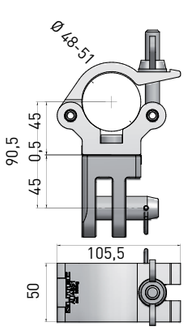




LT HCL51L02

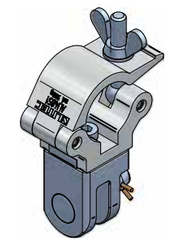
Truss clamp ALI4851
FORK ADJ. swl 500kg

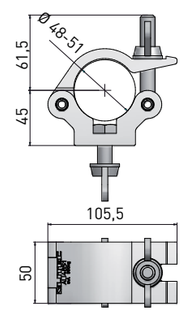




LT HCL51L03

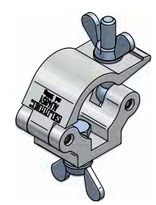
Truss clamp ALI4851
FORK FIXED swl 500kg

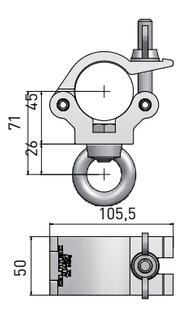




LT HCL5102

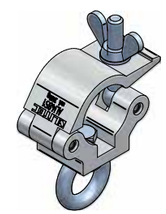
Truss clamp ALI4851
M12/35 swl 500kg

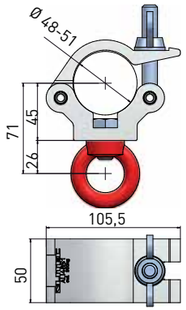




LT HCL5103W034

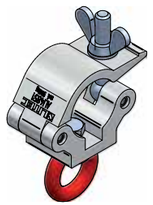
Truss clamp ALI4851
LIFT.EYE swl 340kg

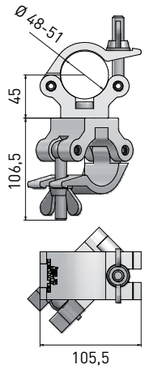




LT HCL5103W050

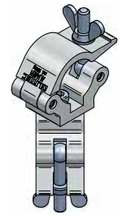
Truss clamp ALI4851
LIFT.EYE swl 500kg

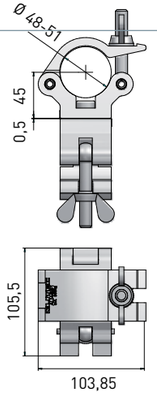




LT HCL5104

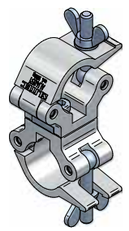
Truss clamp ALI4851
SWIVEL swl 500kg

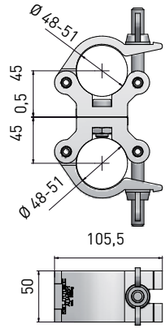




LT HCL5105

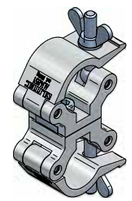
Truss clamp ALI4851
90° FIXED swl 500kg

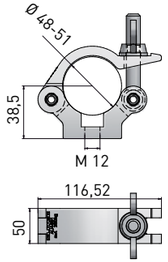




LT HCL5106

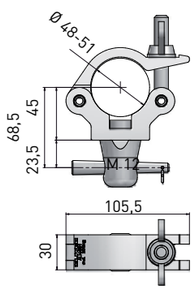
Truss clamp ALI4851
PARALLEL swl 500kg





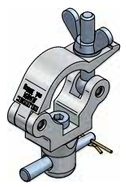
LT HCL5107N

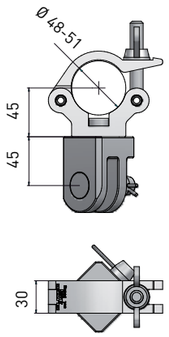
Truss clamp ALI4851
NARROW swl 300kg



LT HCL51L01N

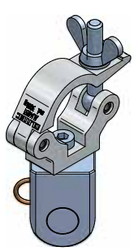
Truss clamp ALI4851
N. 1/2 SP. swl 300kg

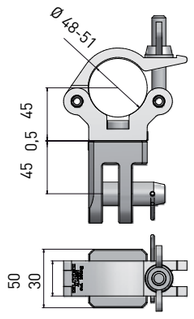




LT HCL51L02N

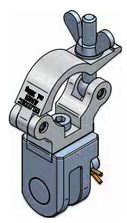
Truss clamp ALI4851 N.
FORK ADJ. swl 300kg

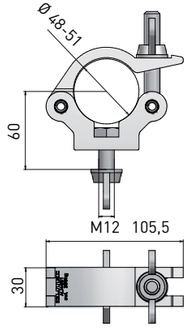




LT HCL51L03N

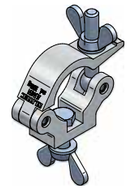
Truss clamp ALI4851 N.
FORK FIXED swl 300kg

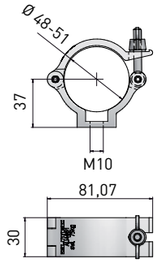




LT HCL5108N

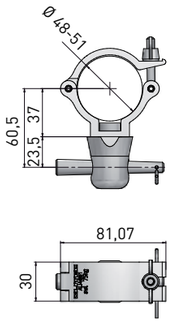
Truss clamp ALI4851
N. M12/50 swl 300kg





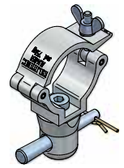
LT HCL5101S

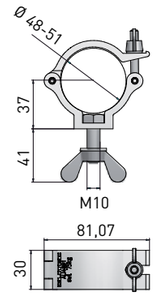
Truss clamp ALI4851
SL. swl 75kg



LT HCL51L01S

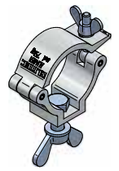
Truss clamp ALI4851
SL. 1/2 SP. swl 75kg

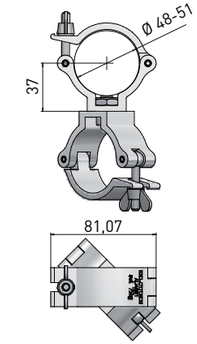




LT HCL5102S

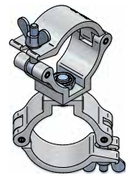
Truss clamp ALI4851
SL. M10/30 swl 75kg

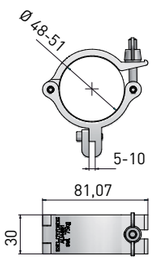




LT HCL5104S

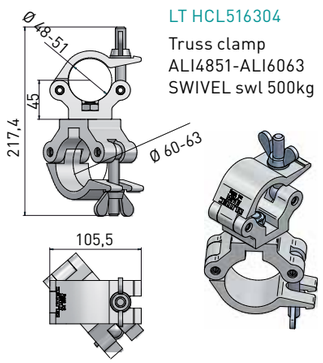
Truss clamp ALI4851
SL. SW. swl 75kg





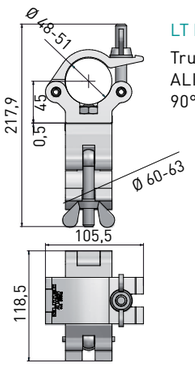
LT HCL5111S

Truss clamp ALI4851
SL. P.H. swl 75kg



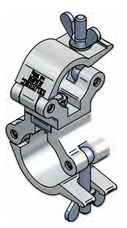
LT HCL516304

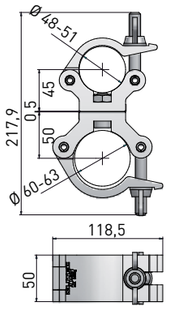
Truss clamp
ALI4851-ALI6063
SWIVEL swl 500kg



LT HCL516305

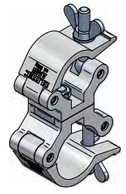
Truss clamp
ALI4851-ALI6063
90° FIXED swl 500kg





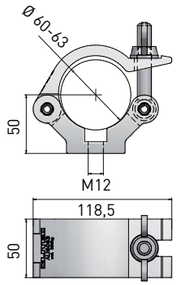
LT HCL516306

Truss clamp
ALI4851-ALI6063
PARALLEL swl 500kg



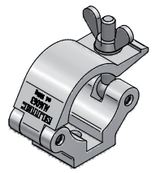
ALI6063

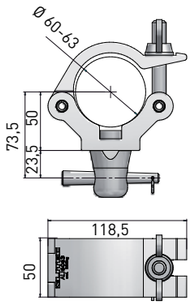
This line includes all “the truss clamps” designed for tubes from 60 to 63.5mm. Truss clamps are all supplied with M12 wing nuts.



LT HCL6301

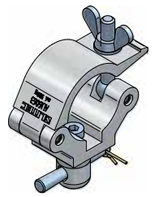
Truss clamp ALI6063
swl 500kg

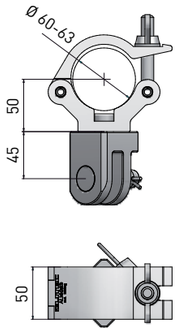




LT HCL63L01

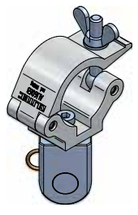
Truss clamp ALI6063
1/2 SPIGOT swl 500kg

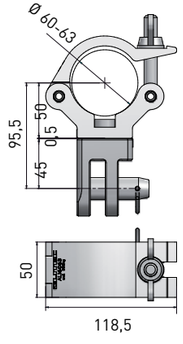




LT HCL63L02

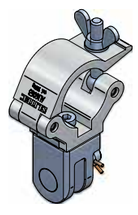
Truss clamp ALI6063
FORK ADJ. swl 500kg

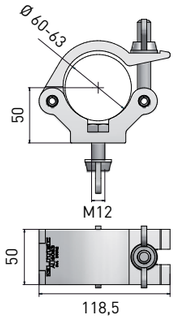




LT HCL63L03

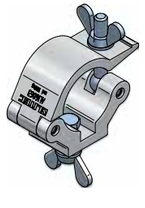
Truss clamp ALI6063
FORK FIXED swl 500kg

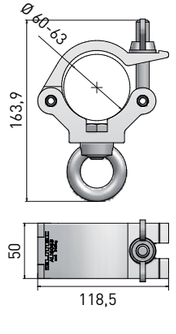




LT HCL6302

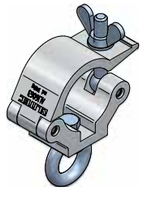
Truss clamp ALI6063
M12/35 swl 500kg

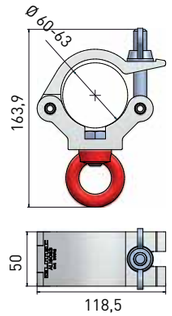




LT HCL6303W034

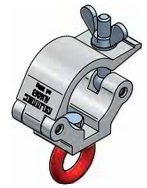
Truss clamp ALI6063
LIFT. EYE swl 340kg

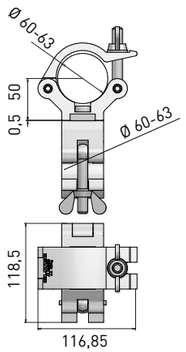




LT HCL6303W050

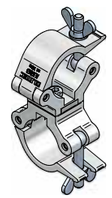
Truss clamp ALI6063
LIFT. EYE swl 500kg

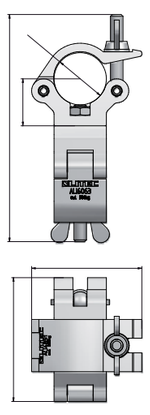




LT HCL6301

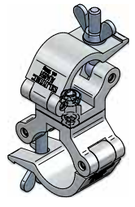
Truss clamp ALI6063
90° FIXED swl 500kg

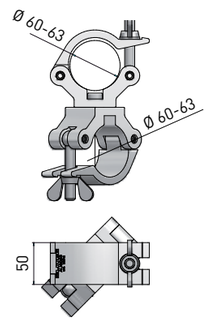




LT HCL516304

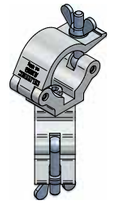
Truss clamp ALI6063

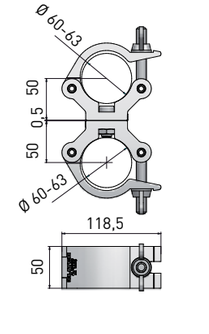




LT HCL6304

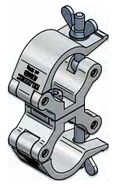
Truss clamp ALI6063
SWIVEL swl 500kg





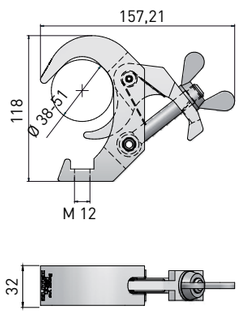
LT HCL6306

Truss clamp ALI6063
PARALLEL swl 500kg



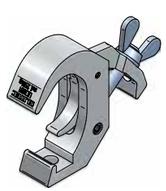
LIC3851

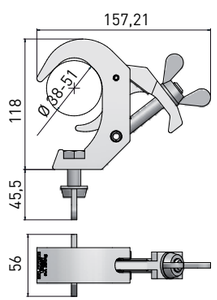
LIC3851 identifies a clamping range of products. This line includes all “the lighting clamps” to hang luminaires onto trusses with tubes with a diameter from 38 to 51mm. Lighting clamps are all supplied with M12 wing nuts.



LT ACL51010

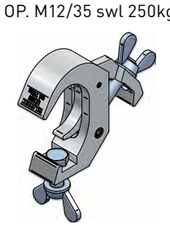
Truss clamp LIC3851
OP. swl 250kg

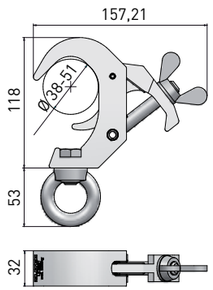




LT ACL51020

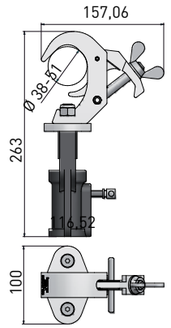
Truss clamp LIC3851
OP. M12/35 swl 250kg





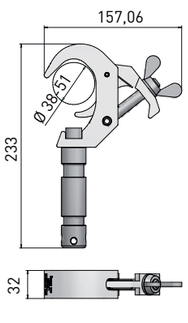
LT ACL51L030

Truss clamp LIC3851
OP. LIFT. EYE swl 250kg



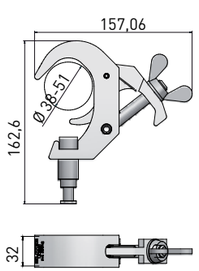
LT ACL51L040

Truss clamp LIC3851 OP.
28 BUSHING swl 250kg



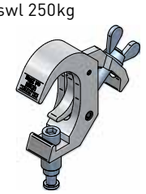
LT ACL51L050

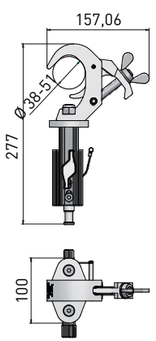
Truss clamp LIC3851
OP. 28 SPIGOT
swl 250kg



LT ACL51L060

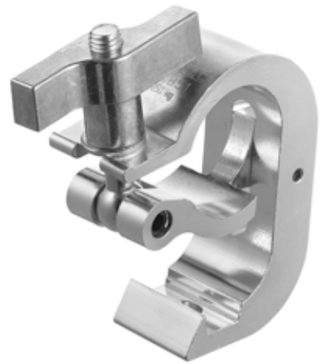
Truss clamp LIC3851
OP. 16 SPIGOT
swl 250kg





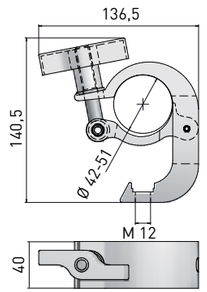
LT ACL51L100

Truss clamp LIC3851
OP. 16 - 28 BUS.
swl 250kg



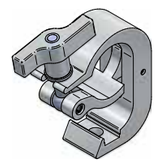
LIC4851

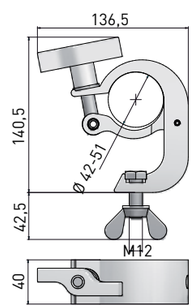
This line includes all “the lighting clamps” to hang luminaires onto trusses with tubes with a diameter from 48 to 51mm. These lighting clamps are all supplied with knobs.



LT ACL5101C

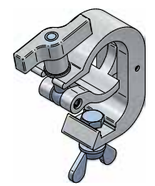
Truss clamp LIC4851
CL. swl 250kg

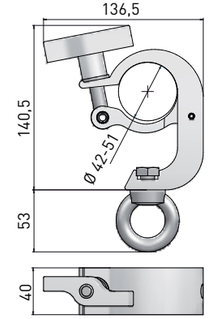




LT ACL5102C

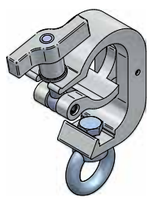
Truss clamp LIC4851
CL. M12/35 swl 250kg

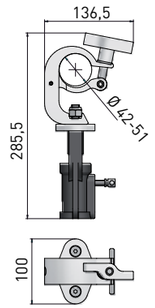




LT ACL5103C

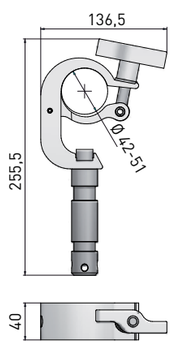
Truss clamp LIC4851 CL.
LIFT. EYE swl 250kg





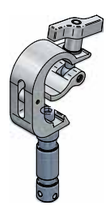
LT ACL5104C

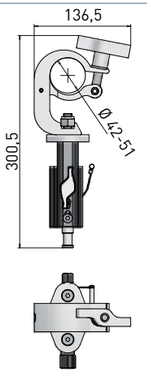
Truss clamp LIC4851
CL. 28 BUSHING swl 250kg



LT ALI51L05C

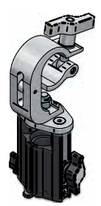
Truss clamp LIC4851
CL. 28 SPIGOT swl 250kg



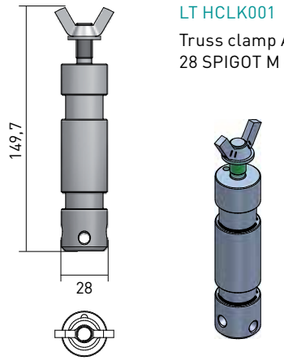


LT ACL51L10C

Truss clamp LIC4851
CL. 16 - 28 BUS. swl 250kg250kg

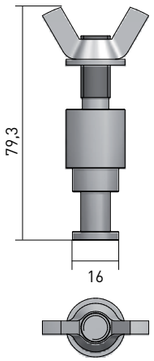


TRUSS CLAMPS
ACCESSORIES



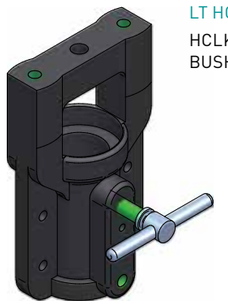
LT HCLK001

Truss clamp ADAPTER
28 SPIGOT M - M10



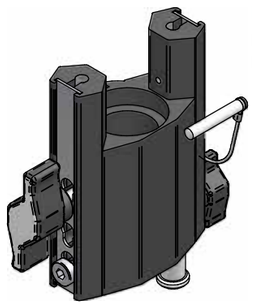
LT HCLK002

Truss clamp ADAPTER
16 SPIGOT M - M10



LT HCLK001

HCLK003 CL. 28
BUSHING



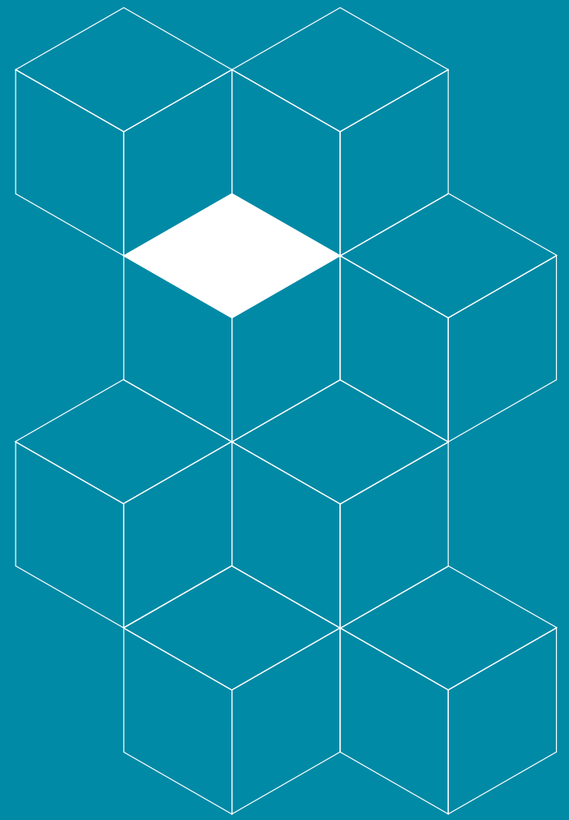
LT HCLK001

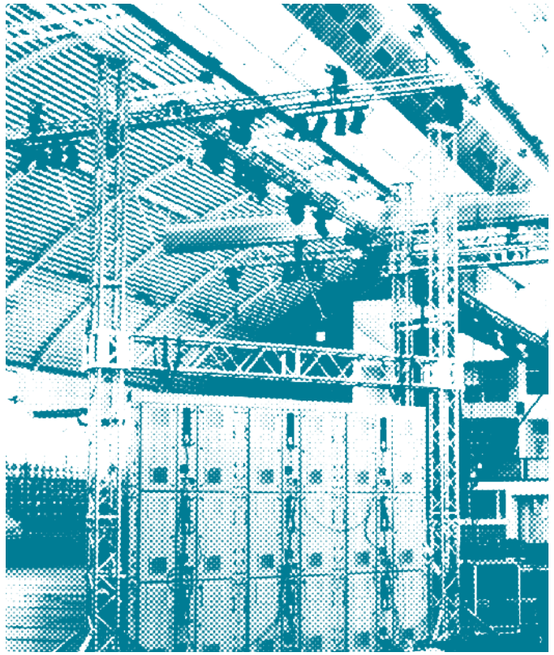
HCLK004 CL. 16 – 28
BUSHING

TOWERS

SOLIDITY

LITEC offers one the most complete lines of towers; from the most compact telescopic to the most complex lifters used for High Load structures.
They are entirely pre-assembled modular ground supports, which combine structural soundness with a simple elegant design. Many tested and certified products are available to meet every need.

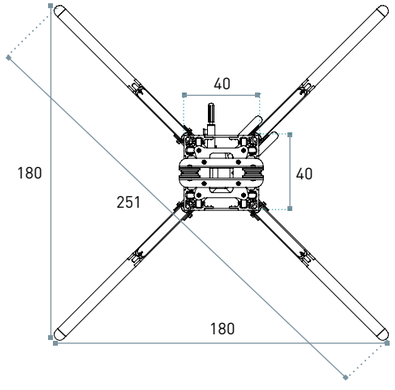


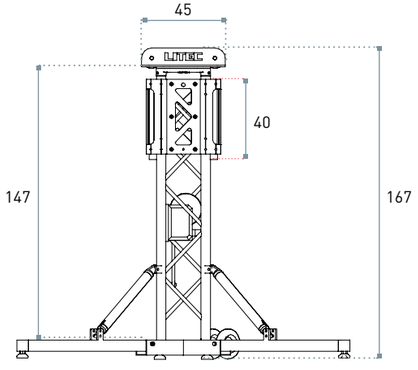


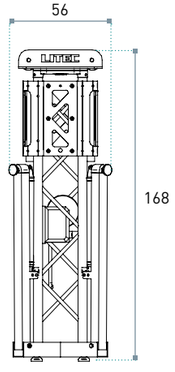
TOWERLIFT 3

The Towerlift 3 hoist system occurs by manual winch with steel cables. The sleeve block functions as default component also for the Unitower and Varitower models. Each side can accommodate either square truss of 29cm or 40cm sides, or triangular truss of 29cm sides. A triangular truss of 40cm may also be connected by substituting the appropriate central support plate.

Maximum tower height	6.5 m
Lifting system	steel cable manual winch
Base module weight (included legs, top and sleeve block)	75 kg
Vertical main truss	QX30SA
Compatible trusses	QX30SA / QH30SA / QX40SA / QH40SA / TX30S
Base module height (excluding top)	154 cm
Base module dimensions (folded versions)	60 x 60 cm
Base module dimensions (operating version)	180 x 180 cm
Volume	0.6 m^3
Adjustable legs	4
Maximum lifting load capacity	500 kg







Towerlift 3 is supplied as standard with a steel cable manual winch. By using two accessories – the motor support and the extended top section – the tower can be used with a chain hoist lifter. Thus configured, the tower's load capacity is 1000 kg.

TOWERLIFT 3

The top and leg adjustment mechanisms have been modified to give superb results.

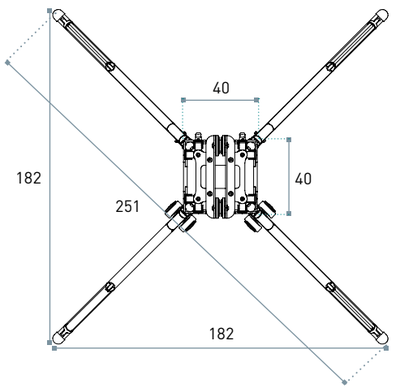
Each foot may be adjusted independently and extensively for easy positioning even on sloping and irregular surfaces.

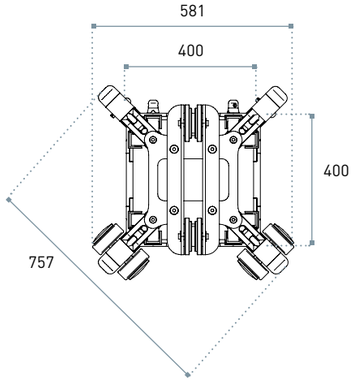
The 900 kg lifting power-clutch winch is protected inside the structure. During assembly, the wheels are never less than 100 cm from the ground. The central structure is formed by the QX30SA truss. The sleeve block will accommodate connection to truss in series QX30SA, QX40SA, QH30SA, QH40SA, TX30S. To connect with truss TX40S the central support plate must be substituted on the corresponding side/s.

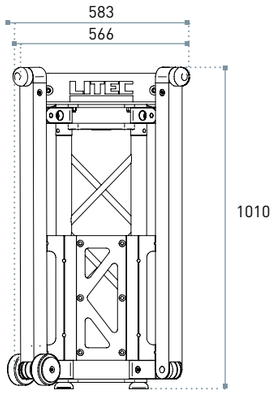
UNITOWER

Base module for towers with frame of 29 cm sided square truss.
The system comes furnished with detachable foldaway stabilizers.
The multistandard sleeve block has 16 gliding wheels of high density rubber. Each foot moves both in pan and tilt so adapting to all terrain.
The entire system, excluding the central truss, is formed of assembled parts, without any weldings.

Maximum tower height	7 m
Lifting system	chain hoist
Base module weight (included legs, top and sleeve block)	75 kg
Vertical main truss	QX30SA
Compatible trusses	QX30SA / QH30SA / QX40SA / QH40SA / TX30S
Base module height (excluding top)	90 cm
Base module dimensions (folded versions)	60 x 60 cm
Base module dimensions (operating version)	182 x 182 cm
Legs maximum extension	97 cm
Maximum lifting load capacity	1000 kg

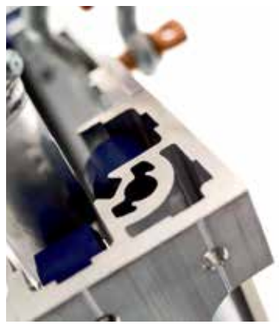






UNITOWER

The sleeve block allows for the securing either of manual or electric motor hoists. Unitower is the only tower where the legs can be completely detached, leaving the vertical truss free without any jutting parts.



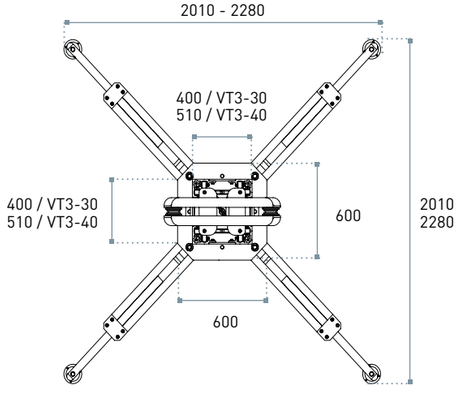
The tower is designed to be composed of square truss QX30SA or QH30SA.

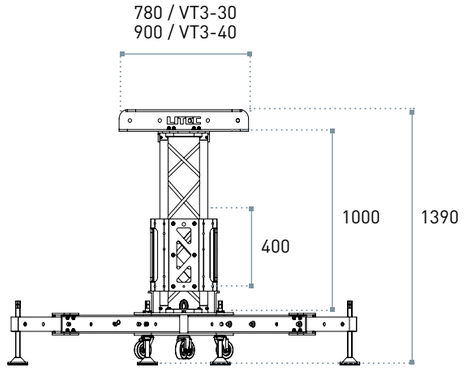
The sleeve block however will take square truss of 29 or 40cm sides, or triangular truss of 29cm sides.
In order to connect a triangular 40cm sided truss a substitute central support plate is needed.
Every face is furnished with a series of holes for attachment of special steel spigots which allow a variety of diverse truss to be incorporated.

VARITOWER 3

It substitutes the previous model Varitower 2. It can take a 29 or 40m vertical truss, with the best performance seen from the QH40SA twist-resistant truss. The sleeve block is of the original design developed and tested for Unitower, with the same extruded profiles and the same applications.

	VT3-30	VT3-40
Maximum tower height	8 m	9 m
Lifting system	chain hoist	chain hoist
Base module weight (included legs, top, and sleeve block)	140 kg	145 kg
Vertical main truss	QH30SA	QH40SA
Compatible trusses	QX30SA / QH30SA / QX40SA / QH40SA / TX30S (TX40S only for VT3-40)	
Base module height (excluding top)	130 cm	130 cm
Base module dimensions (folded versions)	60 x 60 cm	60 x 60 cm
Base module dimensions (operating versions)	240 x 240 cm	240 x 240 cm
Legs maximum extension	97 cm	97 cm
Maximum lifting load capacity	1800 kg	2000 kg





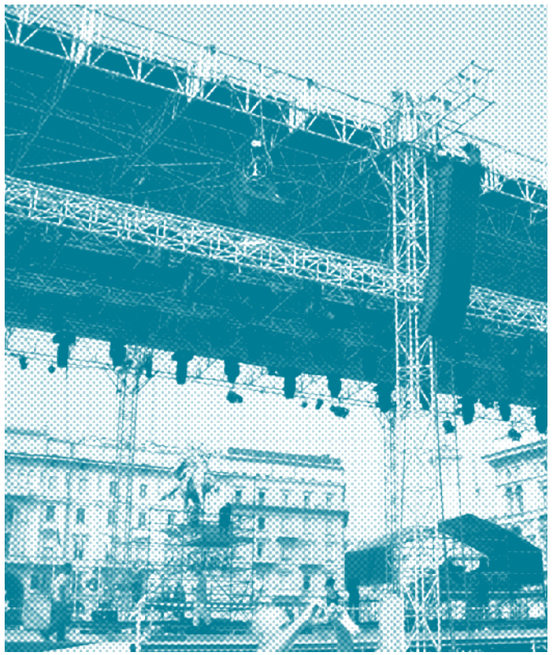
Base module for towers, with frame in square truss of 29 or 40 cm sides. The system is furnished with telescopic stabilizers, multistandard sleeve block with 16 gliding wheels in high density rubber, and top designed for chain feed.

VARITOWER 3

The complete system, except the central truss, is composed of assembled parts, without any weldings.

Varitower 3 can use only chain hoist systems, be they manual or electric. For either system the corresponding support is available. The base is made entirely of aluminium, and has telescopic legs with new adjustable feet.

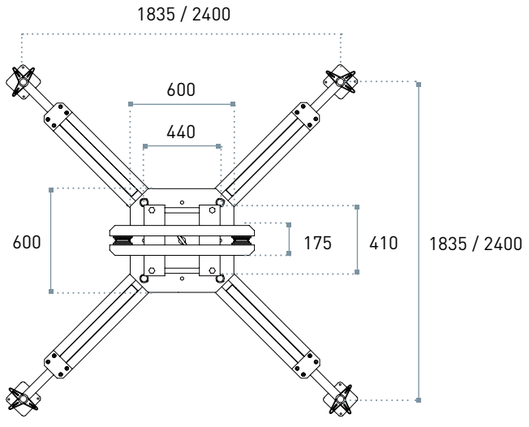
Each leg can be moved horizontally in two directions for precise positioning.
Once assembly is completed the legs may be removed entirely from the base.

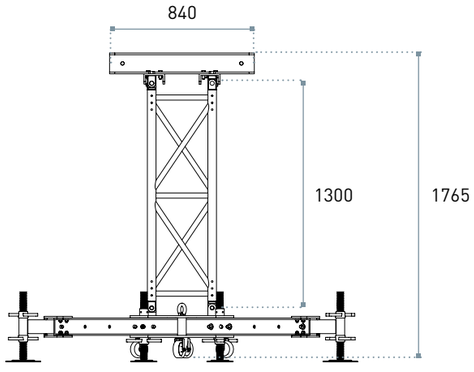


MAXITOWER 40

Lifter able to carry loads up to 2,000 kg. If configured appropriately, the Maxitower 40 system interfaces with all types of LITEC truss sized from 29 to 76 cm.

	MT40	MT40E
Maximum tower height	12 m	9 m
Lifting system	chain hoist	chain hoist
Base module weight with top (excluding sleeve block and legs)	86 kg	56 kg
Vertical main truss	QL40A / QH40SA	QL40A
Compatible trusses (with suitable sleeve block)	FL52/FL76/QL40A/QL52A/RL76A	
Base dimensions	60 x 60 cm	40 x 40 cm
Volume	0.58 m^3	0.24 m^3
Maximum lifting load capacity	max 2000 kg	max 2000 kg





MAXITOWER 40

Stabilizers, motor supports and other special accessories complete the range.

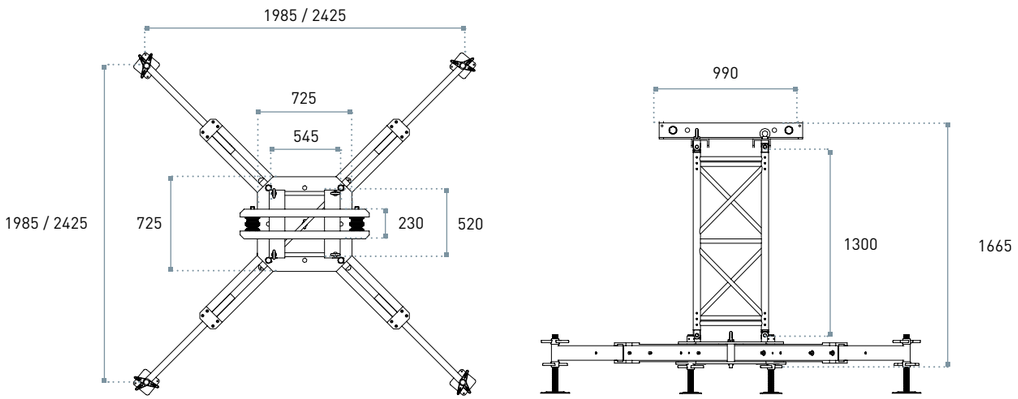
The MT40 lifter can take all the trusses in the QL40A and QH40SA lines.
Also available in the compact-base MT40E version, particularly useful for putting together fair stands and indoor use.

The MT40 tower is composed of a base, extending stabilizers (that cover a maximum floor area of 2.4m x 2.4m), a main tower body that reached up to 12m in height, a top section with pulleys for electric chain hoists, and a modular sleeve block that can be assembled in different ways depending on application.

MAXITOWER 52

For lifting where high performance is needed. This model also comes in a compact-base Maxitower 52E version suitable for indoor use.

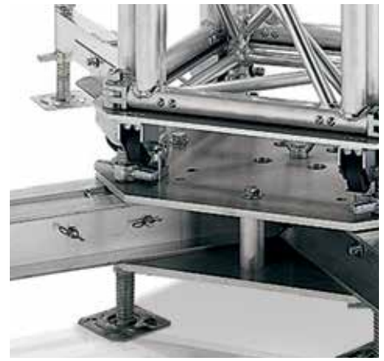
	MT52	MT52E
Maximum tower height	15 m	12 m
Lifting system	chain hoist	chain hoist
Base module weight with top (excluding sleeve block and legs)	110 kg	52 kg
Vertical main truss	QL52A	QL52A
Compatible trusses (with suitable sleeve block)	FL52 / FL76 / QL40A / QL52A / RL76A	
Base dimensions	73 x 73 cm	52 x 52 cm
Volume	0.84 m^3	0.29 m^3
Maximum lifting load capacity	max 3000 kg	max 3000 kg



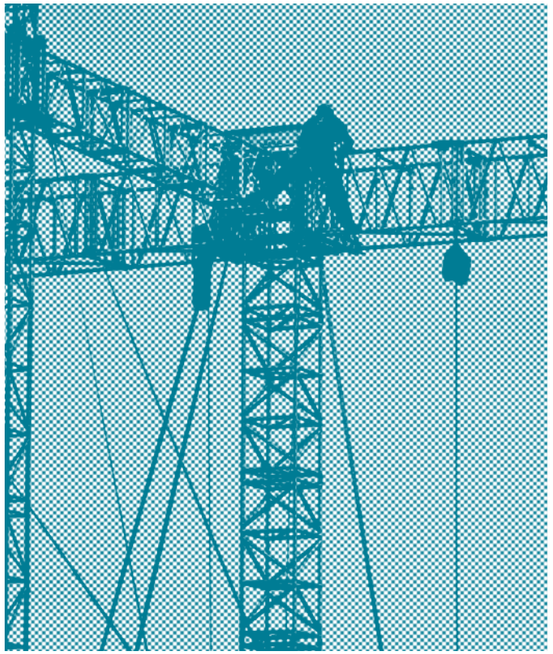
The base can take QL40A and QL52A series trusses. The four foot bars are telescopic, positionable, individually adjustable and extractable.

Maxitower 52

The system uses twist-resistant vertical 40 or 52 components, and comes complete with stabilization, motor coupling, hanging and safety accessories.



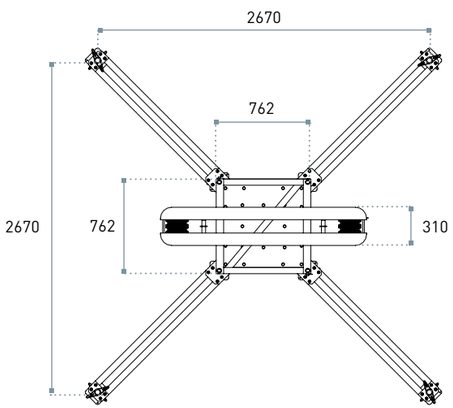
The MT52 tower is composed of a base, extending stabilizers (that cover a maximum floor area of 2.4m x 2.4m), a main tower body that reaches up to 15m in height, a top section with pulleys for electric chain hoists, and a modular sleeve block that can be assembled in different ways depending on application.

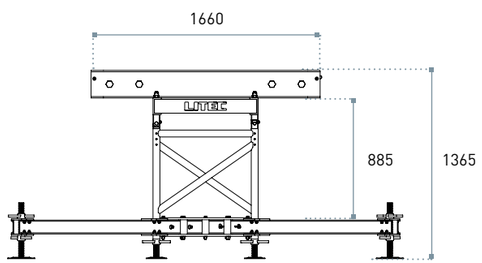


MAXITOWER 76

The lifter uses QL76A trusses.
It was designed to withstand the stresses that large structures transfer to the ground in their heaviest duty use.
It is intended for use together with the LIBERA FL105 system.

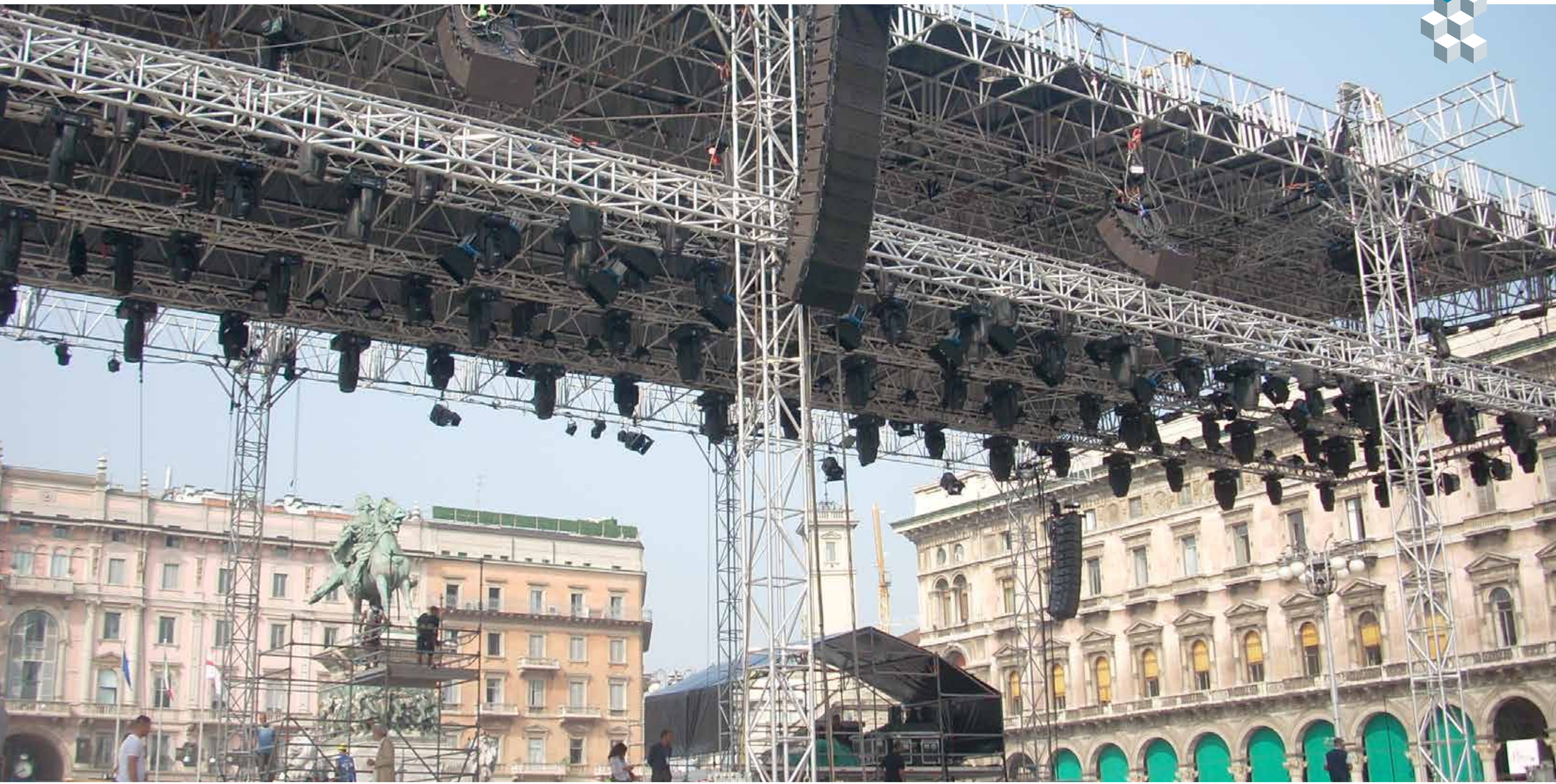
Maximum tower height	20 m
Lifting system	chain hoist
Base module weight with top (excluding sleeve block and legs)	165 kg
Vertical main truss	QL76A
Compatible trusses (with suitable sleeve block)	FL105
Base dimensions	76 x 76 cm
Volume	0.58 m^3
Maximum lifting load capacity	max 4000 kg





Maxitower 76

It is connected to LIBERA FL105 and RL105A through special trucks, which are available with or without motor supports.
The MT76 tower is composed of a base, extending stabilizers (that cover a maximum floor area of 2.7m x 2.7m), a main tower body that reaches up to 20m in height, a top section with pulleys for electric chain hoists, and a modular sleeve block that can be assembled in different ways depending on application.

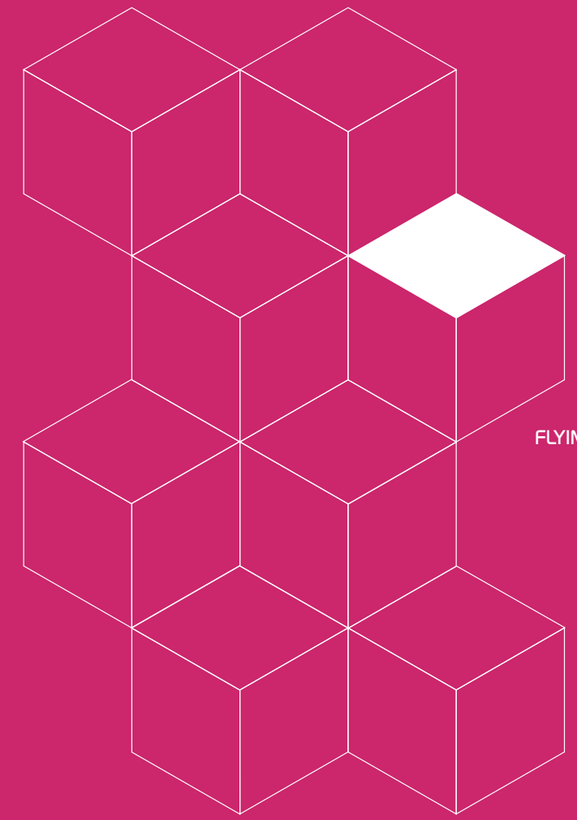


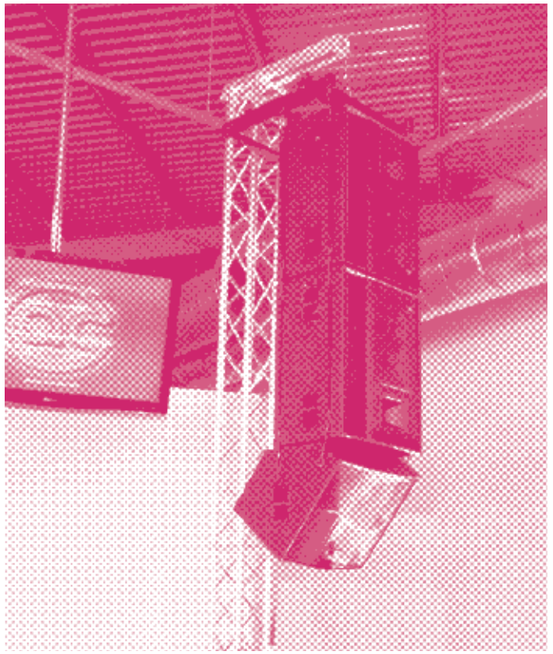
Milano Loves Fashion, Piazza Duomo, Milan, Italy
Photo courtesy of Limelite s.r.l., Rome, Italy

FLYINTOWERS

UP!

Complementing the Trussing products, PA Towers reflect LITEC's constructive concepts: linear forms and modular systems. Flyintowers, like the rest of LITEC's product line, are the result of years of experience in design and technology.

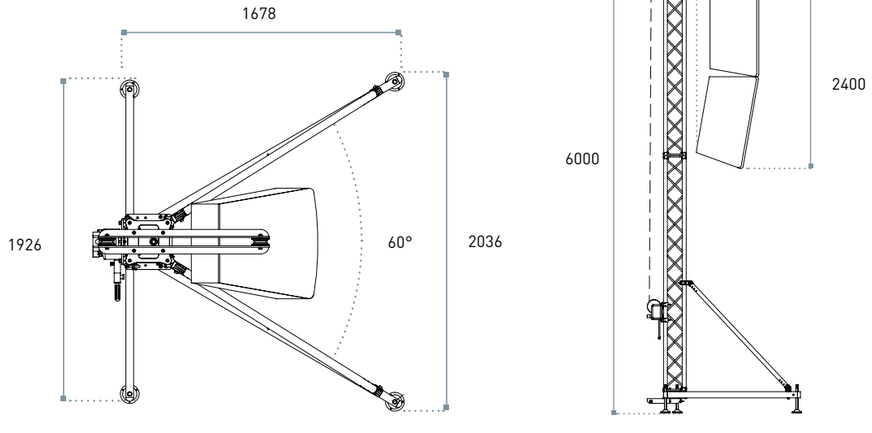


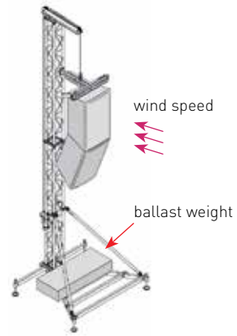


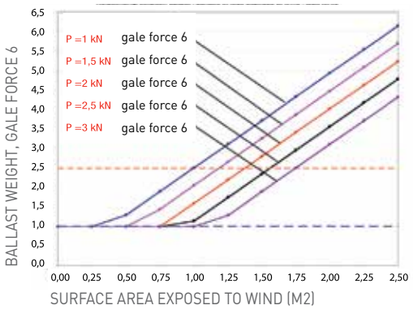
FLYINTOWER COMPACT

Support tower for audio systems.
It is an entry-level lifter for audio support based on QX30SA trusses, suitable for loads of up to 300kg.
One of the main features is its compactness, which is particularly significant when dismantled.
Only 0.4m³ in volume, small enough to fit entirely into a flight case.
The system is provided with manual hoist. On request, the Flyintower Compact can be supplied with a flight case that holds all components (except the vertical trusses).

Maximum tower height	6 m
Weight	70 kg
Vertical main truss	QX30SA 300
Base and top module dimensions	40 x 40 x 240 cm
Base and top volume	0.4 m³
Adjustable legs	4
Maximum surface exposed to wind	2.5 m²
Maximum lifting load capacity	300 kg







SURFACE OF SUSPENDED MASS EXPOSED TO THE WIND m²	P = 1 kN wind f. 6	P = 1,5 kN wind f. 6	P = 2 kN wind f. 6	P = 2,5 kN wind f. 6	P = 3 kN wind f. 6
0	1,00	1,00	1,00	1,14	1,29
0,25	1,29	1,44	1,60	1,75	1,90
0,5	1,90	2,05	2,20	2,35	2,51
0,75	2,51	2,66	2,81	2,96	3,11
1	3,12	3,27	3,42	3,57	3,72
1,25	3,72	3,87	4,03	4,18	4,33
1,5	4,33	4,48	4,63	4,78	
1,75	4,94	5,09	5,24	1,00	
2	5,55	5,70	1,00	1,00	
2,25	6,15	1,00	1,00	1,00	
2,5	1,00	1,00	1,00	1,00	

FLYINTOWER COMPACT

HIGH WINDS

INSTRUCTIONS FOR OUTDOOR USE
Wind speed up o 13.8 m/s (force 6)
This product may only be within the following limits:

- Maximum hanging load: 300 kg
- Surface exposed to wind: < 2.5 m²
- A ballast weight > 433 Kg must be applied to the tower

INSTRUCTIONS FOR OUTDOOR USE
Wind speed between 13.8 m/s (force 6) and 20.7m/s (force 8)
The tower may remain installed only if the following conditions are met:

- Hanging load must be removed
- A ballast weight > 250 kg must be applied to the tower

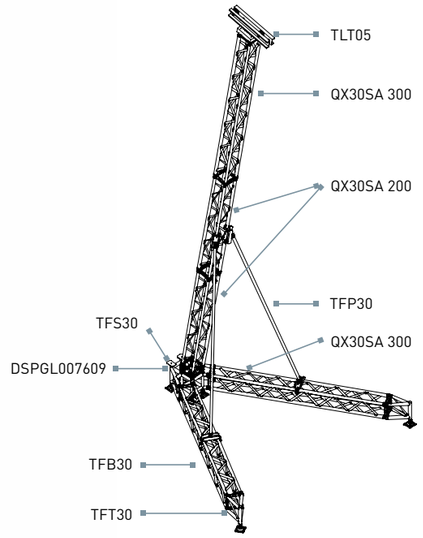
INSTRUCTIONS FOR INDOOR USE

- The tower may be used with hanging loads up to 400 kg and with a ballast weight > 100 kg.

FLYINTOWER X30SA H30SA

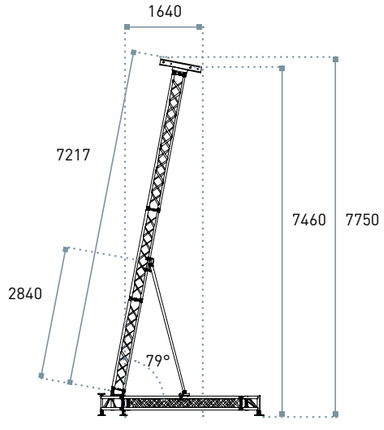
Support Tower for audio systems consisting of a QX30SA structure, suitable for lifting loads of up to 600 kg to a height of 9.5 metres.
To lift the loads, anchoring is provided for an electric chain hoist. Alternatively they may be lifted manually by adding a cable winch device.

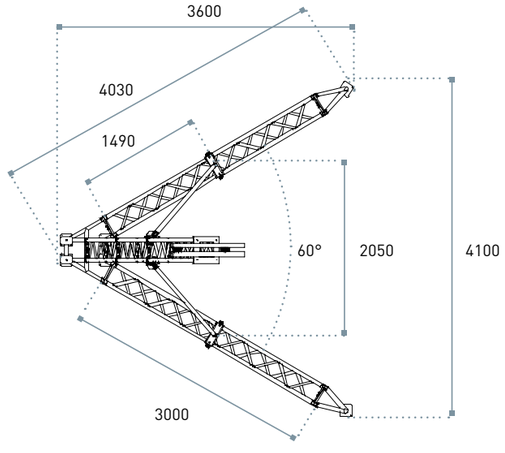
	X30SA	H30SA
Maximum tower height	7.5 m	9.5 m
Weight	160 kg	225 kg
Maximum surface area of loudspeakers	2.5 m^2 front 2.0 m^2 back	2.5 m^2 front 2.0 m^2 back
Maximum wind speed	70 km/h	70 km/h
Required ballast weight	170 kg	130 kg
Maximum lifting load capacity	500 kg	600 kg



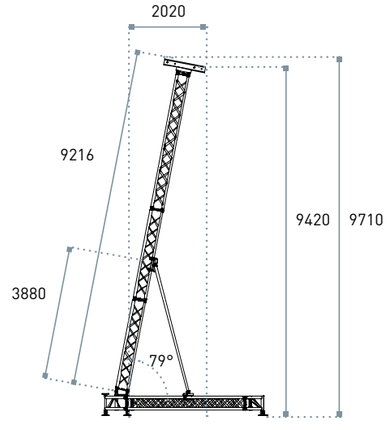
	X30SA	H30SA
Base	TFB / 1	TFB / 1
Tower truss	QX30SA 300 /1 QX30SA 200 /2	QH30SA 300 /3
Base truss	QX30SA 300 / 2	QH30SA 300 / 2
Diagonals	TFP30 / 2	TFP40 / 2
Base ends / terminals	TFT30 / 2	TFT30 / 2
Top	TLT05 / 1	TLT05 / 1
Connection system	QXFC	QXFC

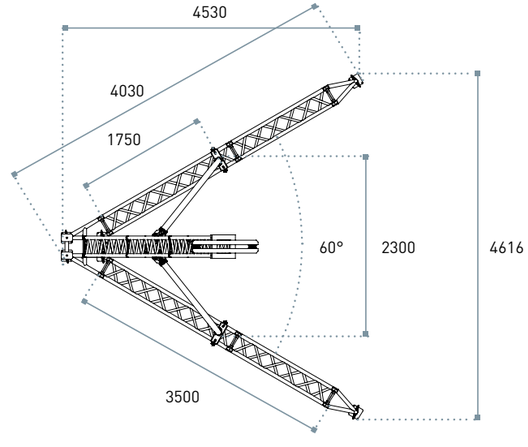
FLYINTOWER X30SA

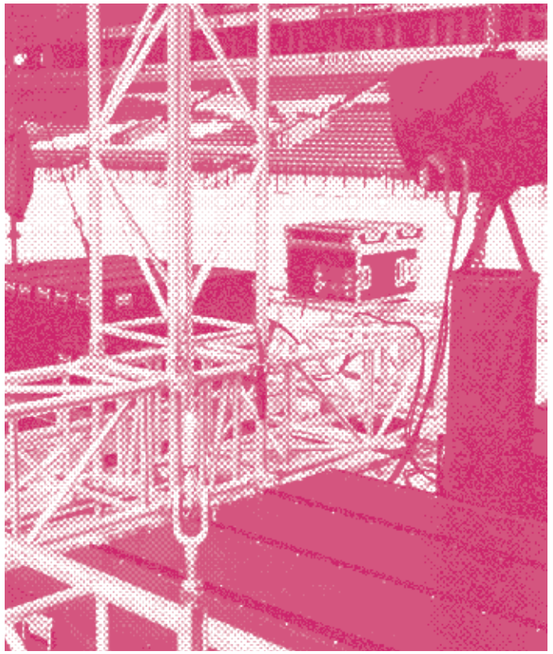




FLYINTOWER H30SA



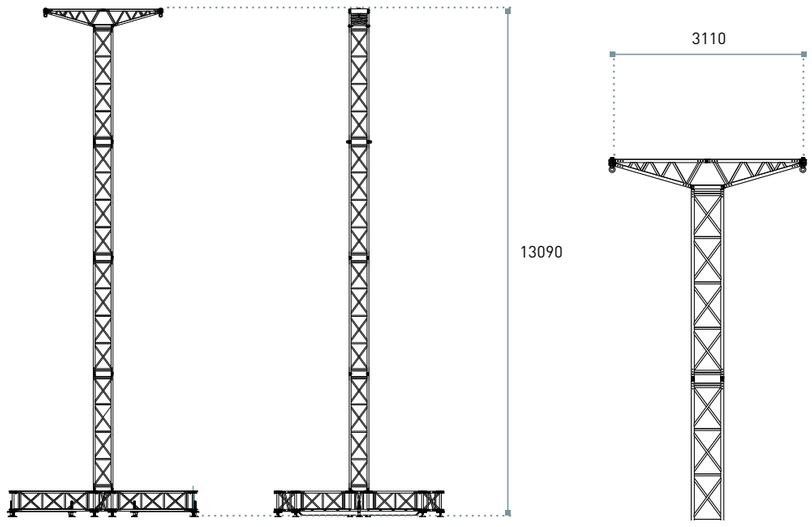


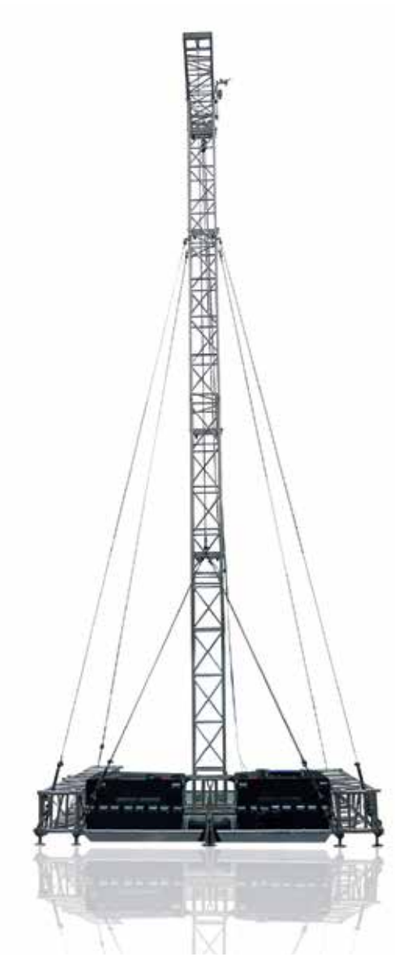


FLYINTOWER L52V

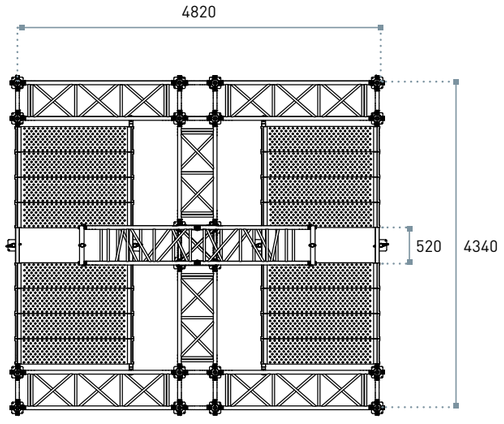
Vertical audio system support tower. It consists of QL52A structures and is suitable for lifting loads of up to 2500 kg to a height of 13 metres. The electric chain hoist is fitted directly to the top truss structure. A lifting system is available for raising the tower.

Maximum tower height	13 m
Vertical main truss	QL52A
Base dimensions	475 x 429 cm
Maximum lifting load capacity	2,000 kg





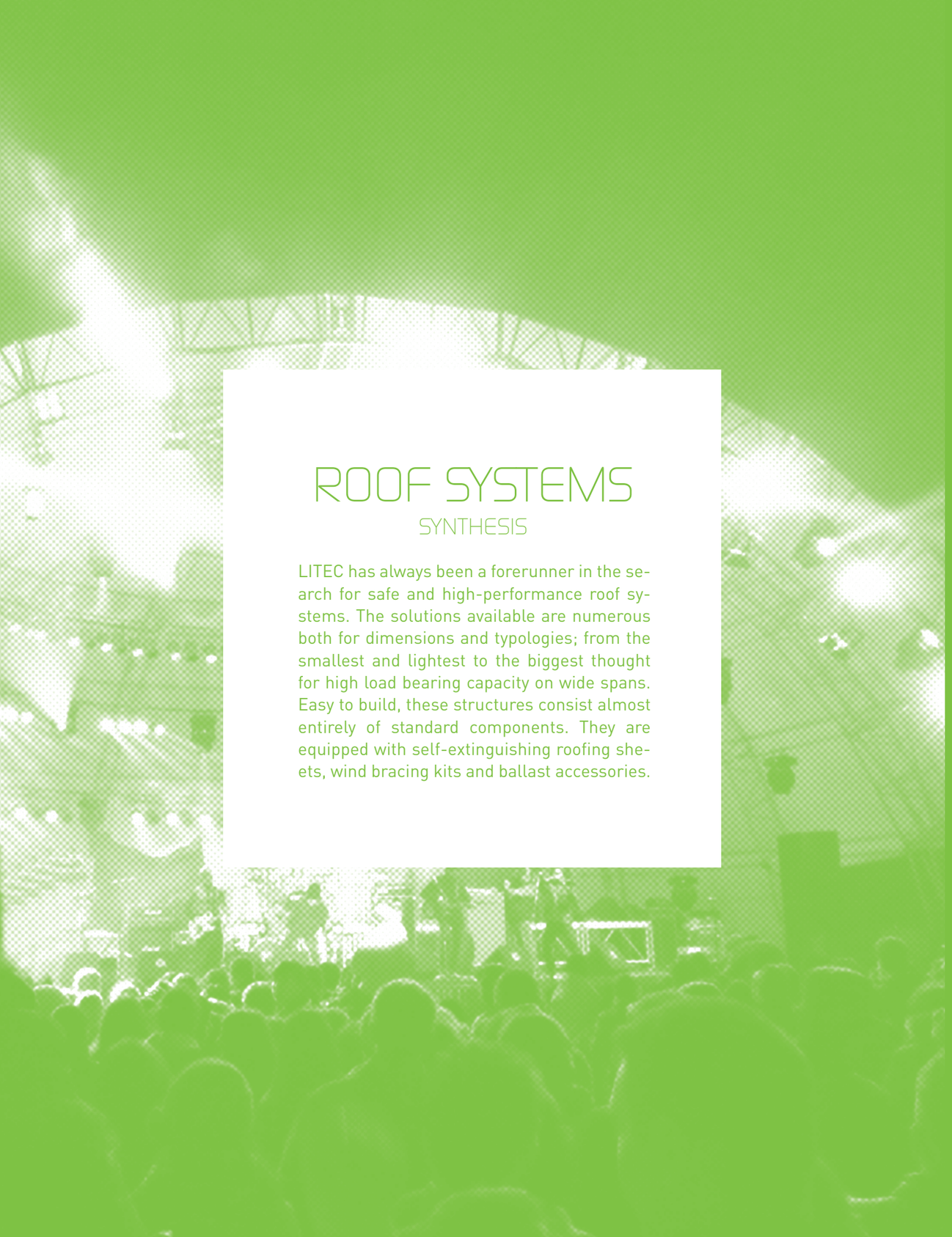
FLYINTOWER L52V



Made mostly of elements of QL52A and FL52 series, Flyintower L52V can lift loads up to 12m in height, quickly and easily. These features characterize the fork connection system of the whole High Load series.

The Flyintower L52V has been studied so that it can be built using materials standard to the High Load series with only a few special elements added. It can be assembled quickly, and occupies little floor space. Maximum load 200 kg.

Flyintowers at the Baths of Caracalla, Rome
Photo courtesy of Studio Due Group s.r.l., Treviso, Italy



ROOF SYSTEMS

SYNTHESIS

LITEC has always been a forerunner in the search for safe and high-performance roof systems. The solutions available are numerous both for dimensions and typologies; from the smallest and lightest to the biggest thought for high load bearing capacity on wide spans. Easy to build, these structures consist almost entirely of standard components. They are equipped with self-extinguishing roofing sheets, wind bracing kits and ballast accessories.

ARC
6x4m

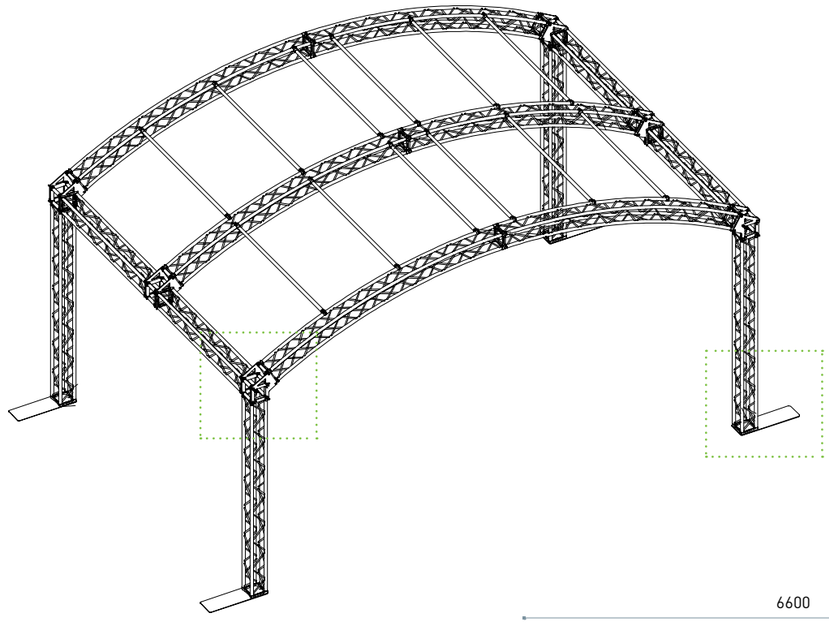
Arc Roof Systems highlight the specifics of their components: the reliability and strength of end-plated trusses and the intuitive technical and constructive know-how of the custom-made parts. Easy to assemble, they use as many standard production parts as possible. Thanks to their modularity, they may be expanded depthwise to build long tunnels. They are recommended both for temporary and permanent installations. They are particularly suitable for tourist centres, public parks, squares and exhibition areas, even in town centres, given their visual impact.

Dimensions	6x4 m
Distributed Load considering wind pressure	3090 kg
Uniformly distributed load UDL*	3900 kg
Weight	410 kg
Transport volume	5,4 m^3
Covered area/storage volume ratio**	4,5
Towers	4 fixed legs
Trusses for lifter	QX30SA
Trusses for roof	QX30SA
Roofing sheet	Self-extinguishing Class 2 - 590 g/sqm

* Indicative loading data for use in environments without wind. For details and further information, please consult the technical specifications or contact our engineering department or distributors.

** This figure shows the ratio between the area covered by the assembled structure and the volume of the individual trusses used to build it. It is an efficiency figure useful in comparative analyses: transportability efficiency improves as the figure increases.

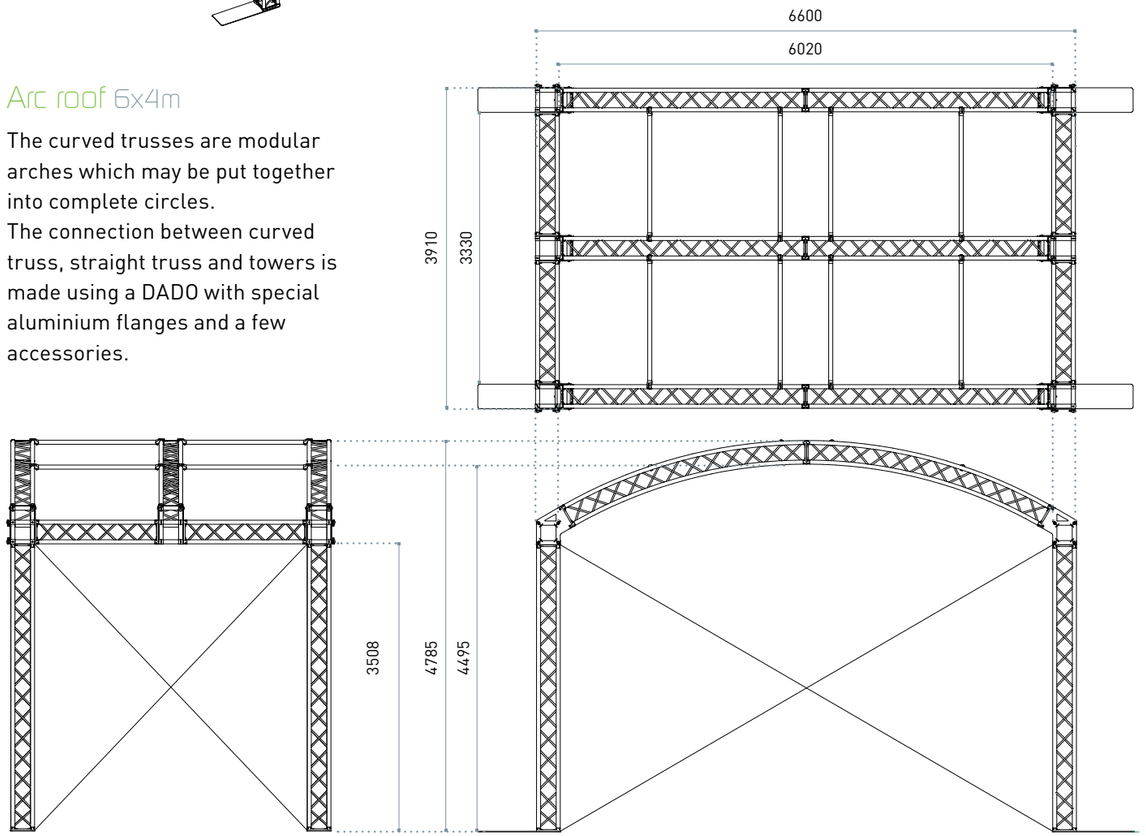
The examples and data shown on these pages are necessarily indicative owing to the extreme variability of the conditions in which the structures may be assembled. Each installation must be provided with a suitable quantity of ballast, as shown on the product certificates.
This line of structures was created in compliance with standards EN 1991 - Eurocode 1, EN 1999 Eurocode 9, EN 13814, EN 13782, DIN 4112, DIN 4113-1, DIN 4113-1/A1, DIN 4113-2.
Use of these systems is governed by laws which vary according to the country they are assembled in. They must be put together in compliance with the local regulations in force.



The bases of arc roof systems can be fitted to ground plates.
This accessory makes ballast weight positioning and staying operations easier.

Arc roof 6x4m

The curved trusses are modular arches which may be put together into complete circles.
The connection between curved truss, straight truss and towers is made using a DADO with special aluminium flanges and a few accessories.



ARC
8x6m

Arc Roof Systems highlight the specifics of their components: the reliability and strength of end-plated trusses and the intuitive technical and constructive know-how of the custom-made parts. Easy to assemble, they use as many standard production parts as possible. Thanks to their modularity, they may be expanded depthwise to build long tunnels. They are recommended both for temporary and permanent installations.
They are particularly suitable for tourist centres, public parks, squares and exhibition areas, even in town centres, given their visual impact.

Dimensions	8x6 m
Distributed Load considering wind pressure	2076 kg
Uniformly distributed load UDL*	2735 kg
Weight	455 kg
Transport volume	7,2 m^3
Covered area/storage volume ratio**	6,7
Towers	4 fixed legs
Trusses for lifter	QX30SA
Trusses for roof	QX30SA
Roofing sheet	Self-extinguishing Class 2 - 590 g/sqm

* Indicative loading data for use in environments without wind. For details and further information, please consult the technical specifications or contact our engineering department or distributors.

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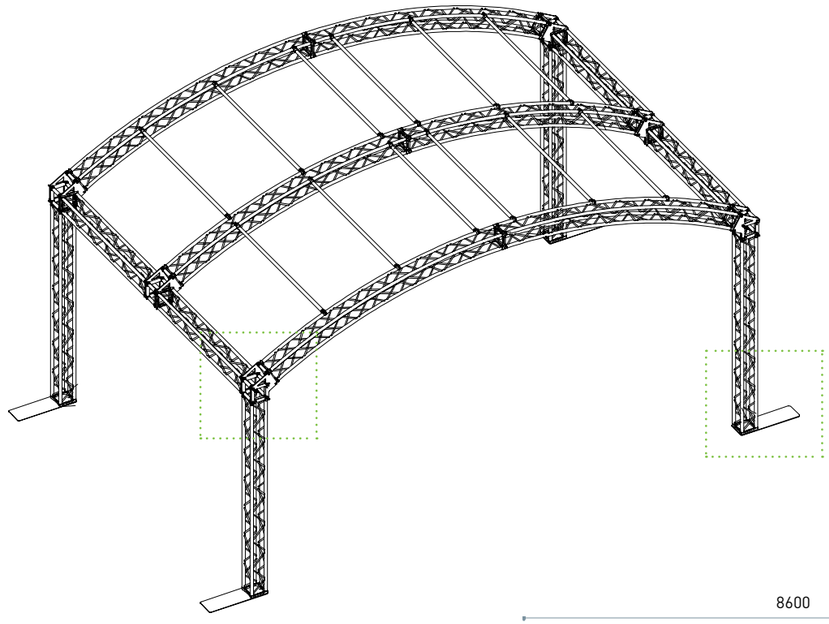
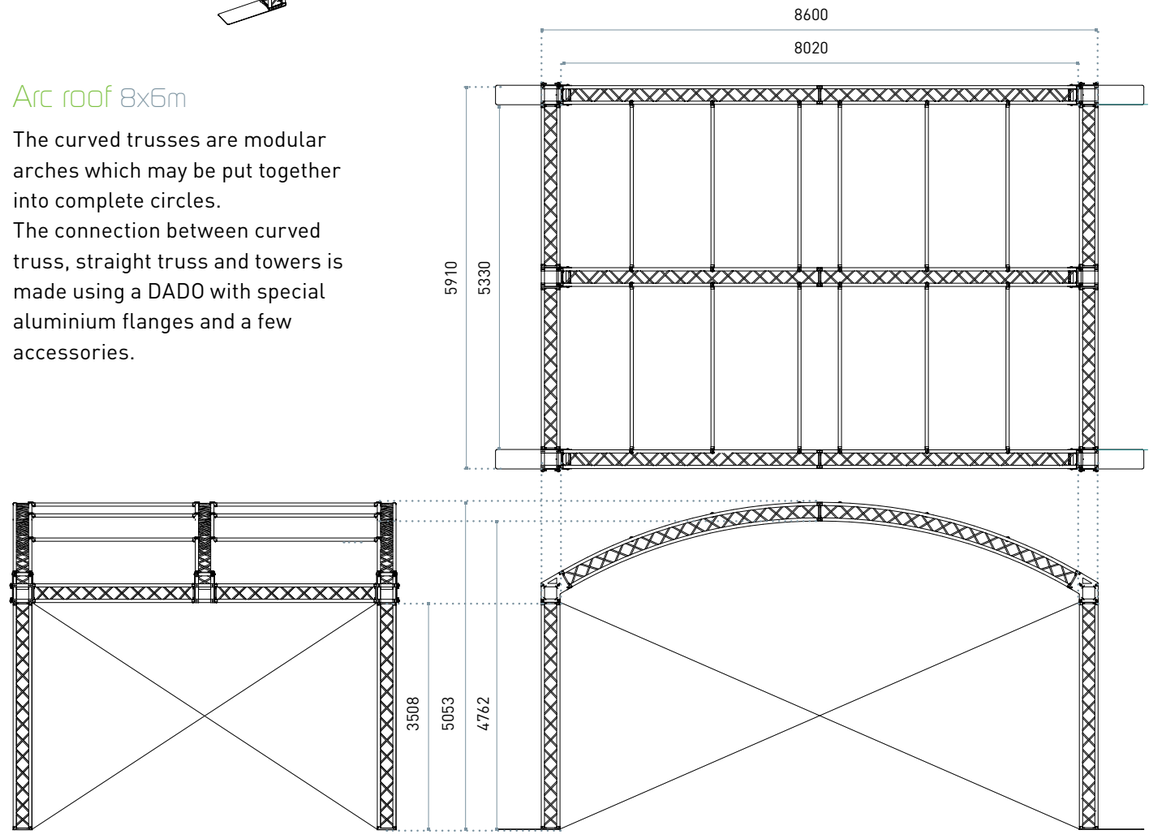


The bases of arc roof systems can be fitted to ground plates.
This accessory makes ballast weight positioning and staying operations easier.

Arc roof 8x6m

The curved trusses are modular arches which may be put together into complete circles.
The connection between curved truss, straight truss and towers is made using a DADO with special aluminium flanges and a few accessories.



DOUBLE PITCH
8x6m

Double-pitch roof systems are the result of the research of high performance and safe solutions. Roofing mounted on manual lifters, these structures may be assembled without electrical-driven parts. The lifter is the well-known Towerlift 3 and the whole system can be raised up to 6 metres above the ground. They can be fitted with lateral PA wings for hanging audio and video systems.

Dimensions	8X6 m
Distributed Load considering wind pressure	4848 kg
Uniformly distributed load UDL*	6240 kg
Weight	1210 kg
Transport volume	15 m^3
Covered area/storage volume ratio**	3,2
Towers	4 x Towerlift 3
Trusses for lifter	QX30SA
Trusses for roof	QX40SA+FX30S
Roofing sheet	Self-extinguishing Class 2 - 650 g/sqm

* Indicative loading data for use in environments without wind. For details and further information, please consult the technical specifications or contact our engineering department or distributors.

** This figure shows the ratio between the area covered by the assembled structure and the volume of the individual trusses used to build it. It is an efficiency figure useful in comparative analyses: transportability efficiency improves as the figure increases.

The examples and data shown on these pages are necessarily indicative owing to the extreme variability of the conditions in which the structures may be assembled. Each installation must be provided with a suitable quantity of ballast, as shown on the product certificates.
This line of structures was created in compliance with standards EN 1991 - Eurocode 1, EN 1999 Eurocode 9, EN 13814, EN 13782, DIN 4112, DIN 4113-1, DIN 4113-1/A1, DIN 4113-2.
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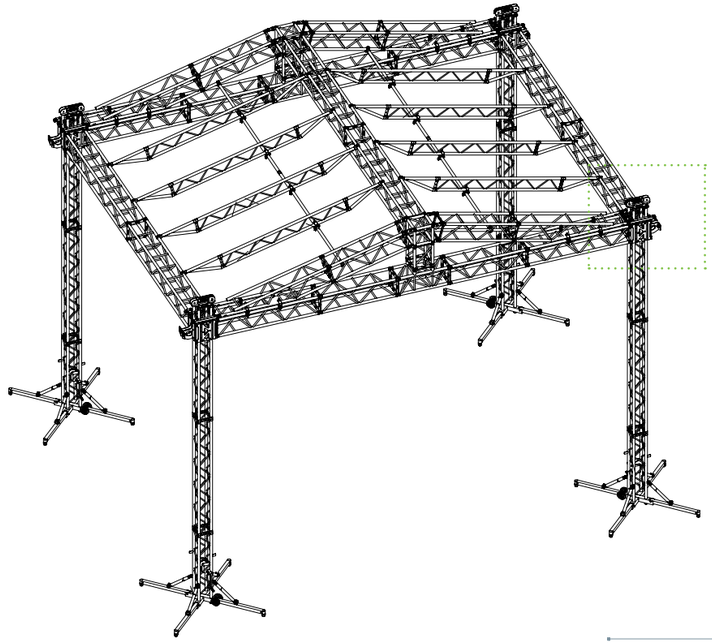
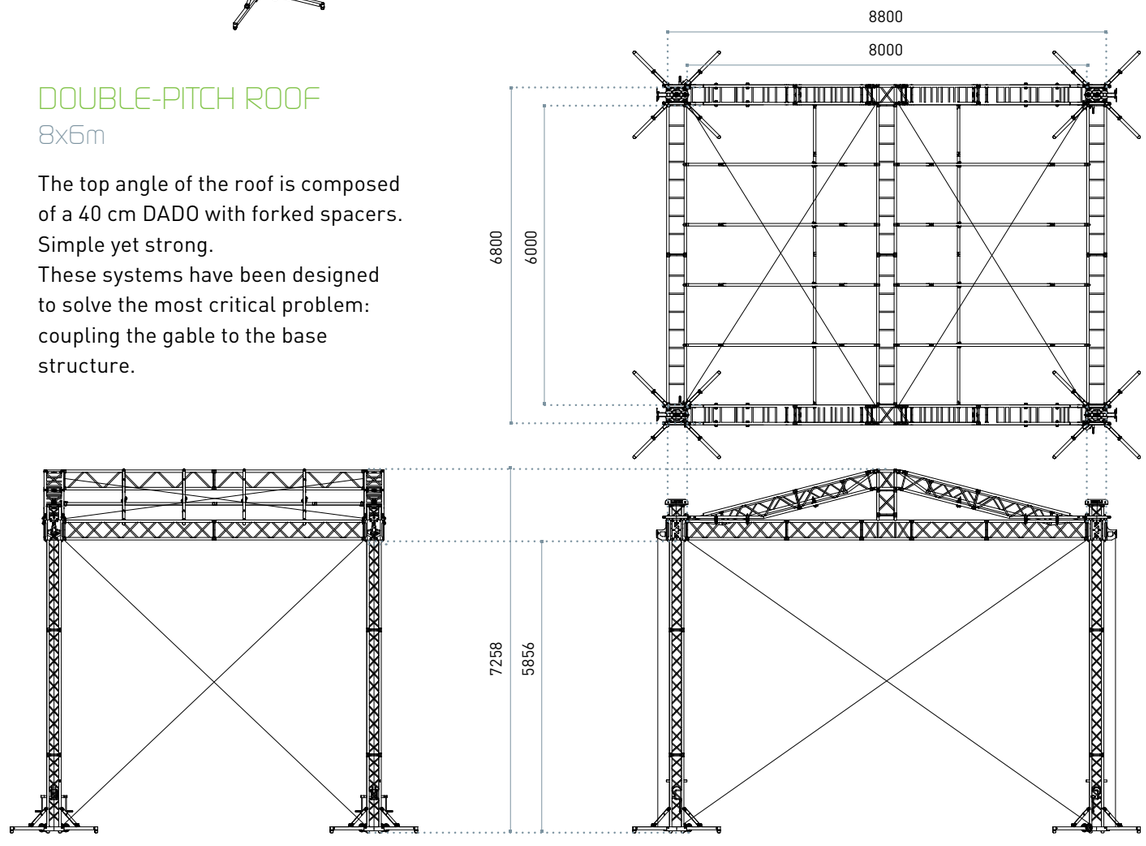


The standard roofing systems use two towers, the Towerlift 3 and the Varitower 3-30.
The carriage is the same on both towers and has upper posts for coupling to the roof lintel.

DOUBLE-PITCH ROOF
8x6m

The top angle of the roof is composed of a 40 cm DADO with forked spacers. Simple yet strong.
These systems have been designed to solve the most critical problem: coupling the gable to the base structure.



DOUBLE PITCH
10X8m

Double-pitch roof systems are the result of the research of high performance and safe solutions. Roofing mounted on manual lifters, these structures may be assembled without electrical-driven parts.
The lifter is the well-known Towerlift 3 and the whole system can be raised up to 6 metres above the ground. They can be fitted with lateral PA wings for hanging audio and video systems.

Dimensions	10X8 m
Distributed Load considering wind pressure	3552 kg
Uniformly distributed load UDL*	4800 kg
Weight	1424 kg
Transport volume	18 m^3
Covered area/storage volume ratio**	4,5
Towers	4 x Towerlift 3
Trusses for lifter	QX30SA
Trusses for roof	QX40SA+FX30S
Roofing sheet	Self-extinguishing Class 2 - 650 g/sqm

* Indicative loading data for use in environments without wind. For details and further information, please consult the technical specifications or contact our engineering department or distributors.

** This figure shows the ratio between the area covered by the assembled structure and the volume of the individual trusses used to build it. It is an efficiency figure useful in comparative analyses: transportability efficiency improves as the figure increases.

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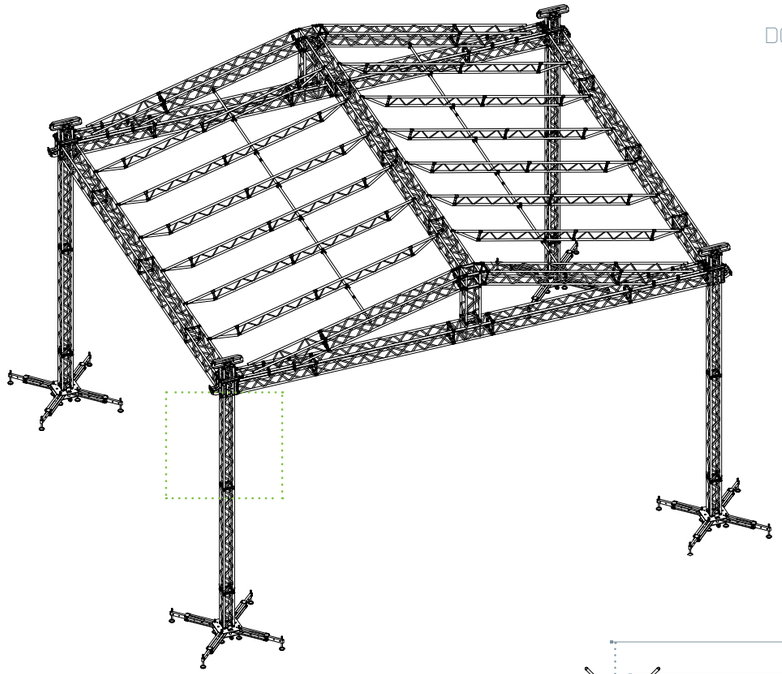
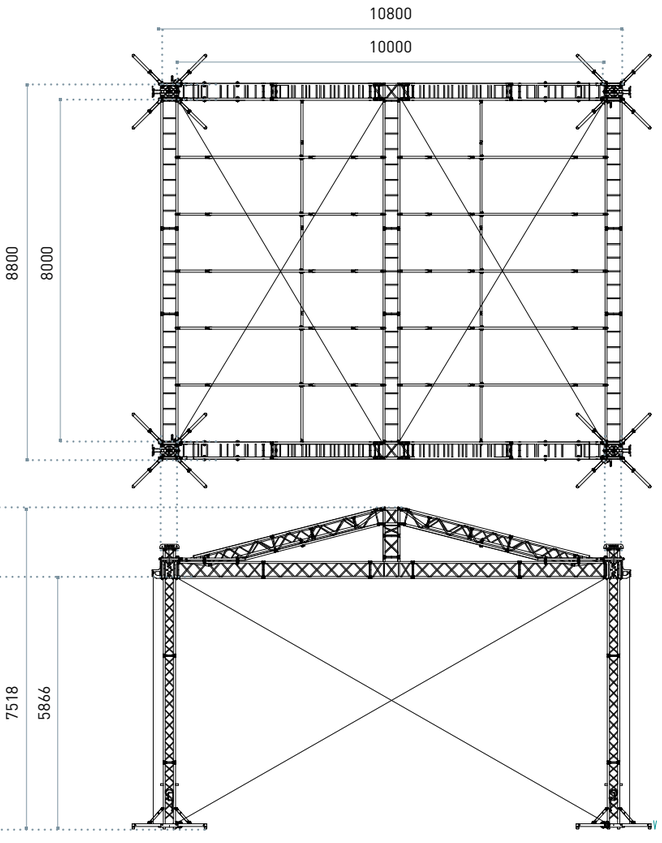


The standard roofing systems use two towers, the Towerlift 3 and the Varitower 3-30.
The carriage is the same on both towers and has upper posts for coupling to the roof lintel.

DOUBLE PITCH-ROOF
10X8m

The top angle of the roof is composed of a 40cm DADO with forked spacers. Simple yet strong.
These systems have been designed to solve the most critical problem: coupling the gable to the base structure.



DOUBLE PITCH

12X 10m

This structure for professional use has considerable dimensions and performance. Every detail has been determined following the highest safety standards required for applications at this level.
Thanks to the restraining devices adopted and materials used, this system performs excellently even in high winds. It is mounted on Varitower 3 lifters assembled for lifting with chain hoists.
Double-pitch roof systems can be fitted with lateral PA wings for hanging audio or video systems.

Dimensions	12x10 m
Distributed Load considering wind pressure	3252 kg
Uniformly distributed load UDL*	6944 kg
Weight	2600 kg
Transport volume	24,7 m^3
Covered area/storage volume ratio**	4,8
Towers	4 x Varitower 3
Trusses for lifter	QH30SA
Trusses for roof	QH30SA+FX30S
Roofing sheet	Self-extinguishing Class 2 - 650 g/sqm

* Indicative loading data for use in environments without wind. For details and further information, please consult the technical specifications or contact our engineering department or distributors.

** This figure shows the ratio between the area covered by the assembled structure and the volume of the individual trusses used to build it. It is an efficiency figure useful in comparative analyses: transportability efficiency improves as the figure increases.

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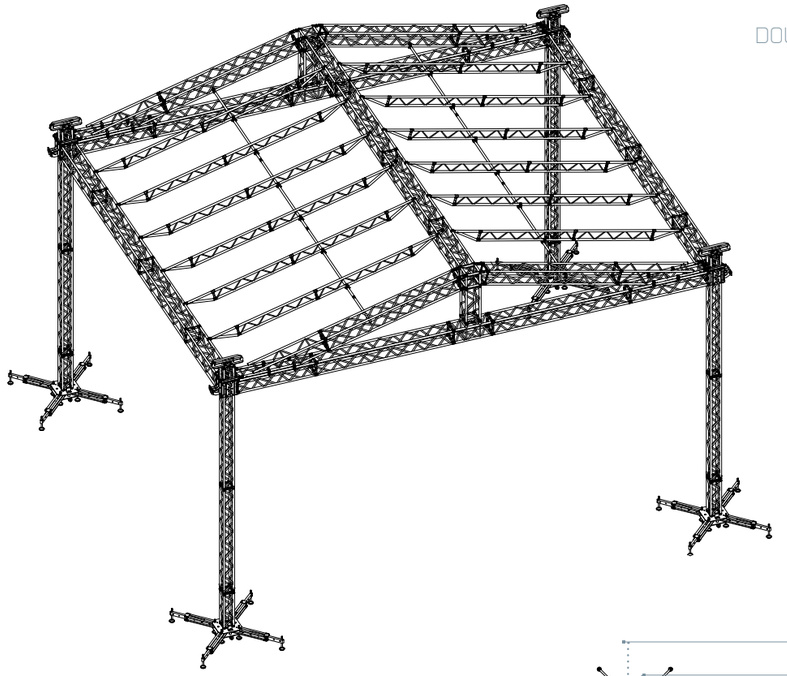
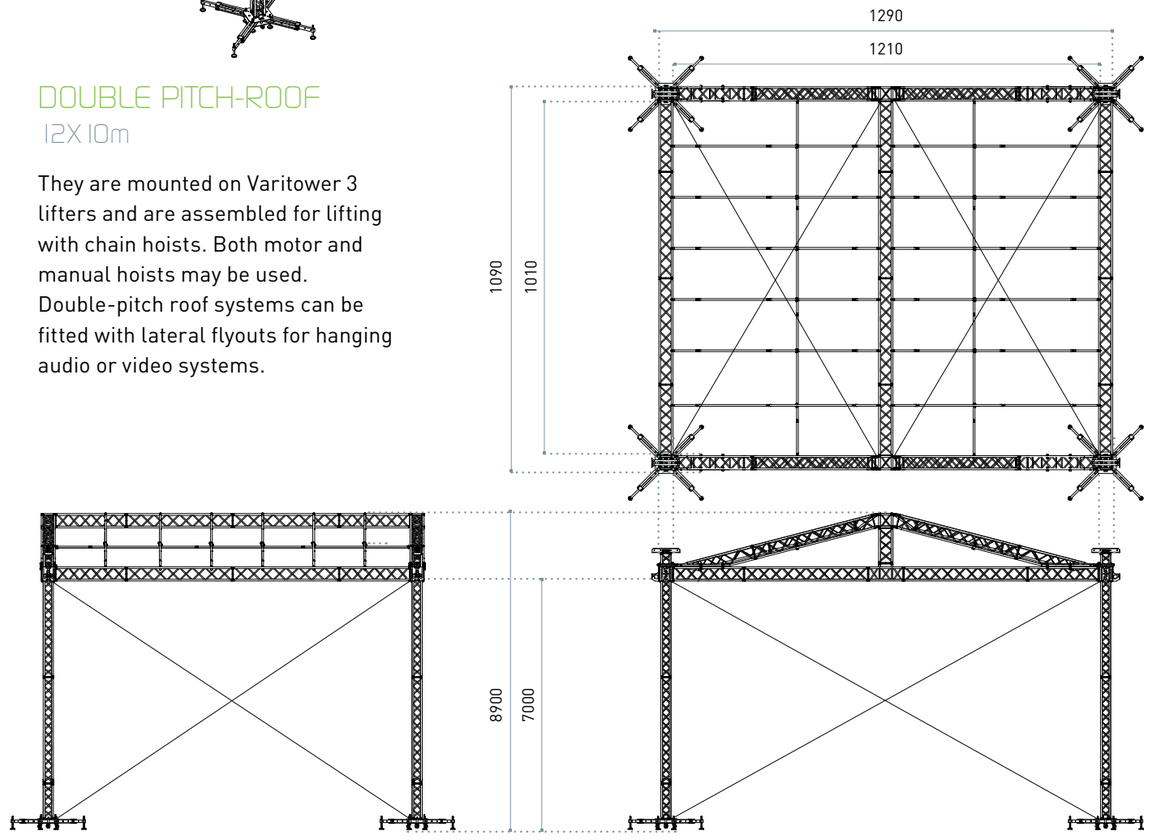


Thanks to the restraining devices adopted and materials used, these systems perform excellently even in high winds.

DOUBLE PITCH-ROOF

12X 10m

They are mounted on Varitower 3 lifters and are assembled for lifting with chain hoists. Both motor and manual hoists may be used.
Double-pitch roof systems can be fitted with lateral flyouts for hanging audio or video systems.



LIBERA FL52
14x12m SINGLE-PITCH

LIBERA is an open structural system. Roof systems in LIBERA 52 consist of Maxitowers and a LIBERA FL52 grid structure. The actual span can reach 16 metres, to which side wings may be added.

Dimensions	14 x 12 m
Heights range*	from 6 to 9 m
Main truss	LIBERA FL52
Towers	4 x Varitower 3-40
Uniformly distributed load UDL **	5000 kg ≈
Chain hoists	1000 kg
Total weight	3670 kg
Volume	22 m^3
Set-up time & number of workers	4 hrs / 4 w

* Range suggested according to the dimensions of the roof system.

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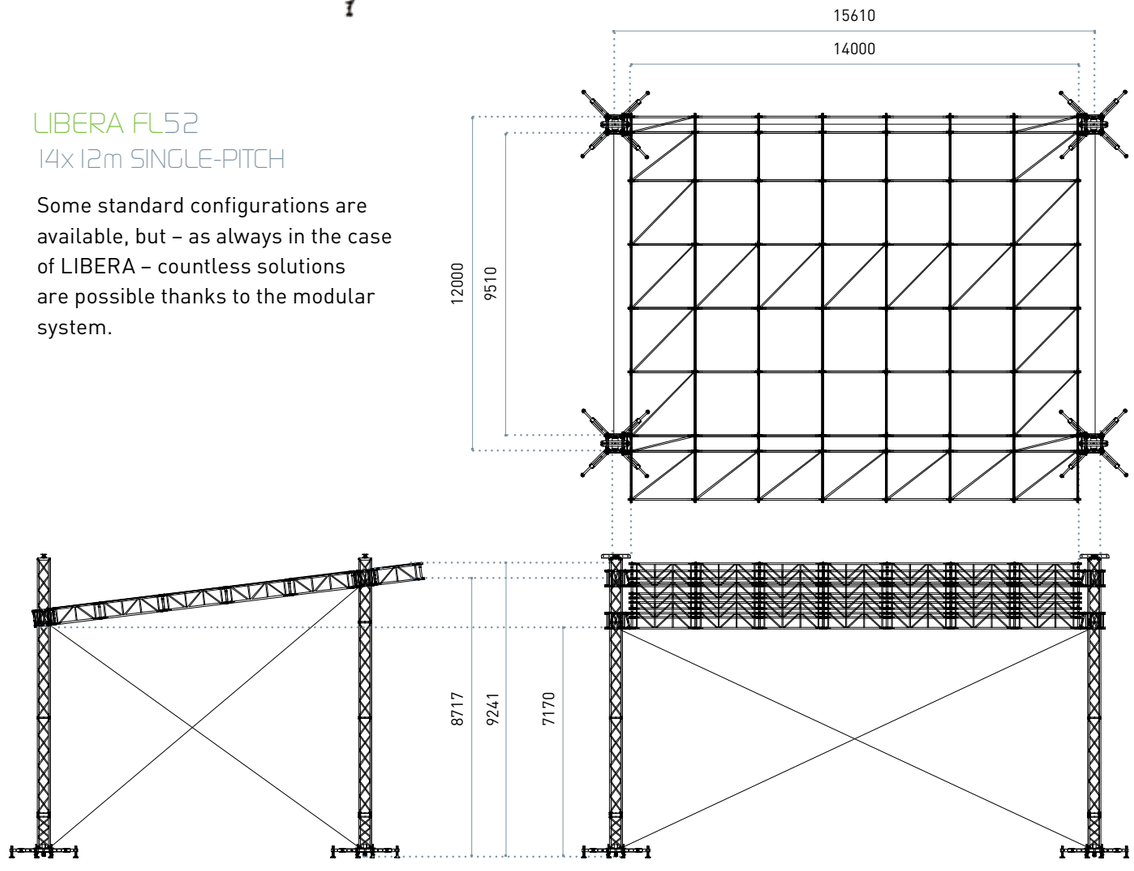
LIBERA FL52
14x12m SINGLE-PITCH

Some standard configurations are available, but – as always in the case of LIBERA – countless solutions are possible thanks to the modular system.



LIBERA FL52
14x12m DOUBLE-PITCH

LIBERA is an open structural system. Roof systems in LIBERA 52 consist of Maxitowers and a LIBERA FL52 grid structure. The actual span can reach 16 metres, to which side wings may be added.

Dimensions	14 x 12 m
Heights range*	from 7 to 11 m
Main truss	LIBERA FL52
Towers	4 x Maxitower 40
Uniformly distributed load UDL **	5000 kg ≈
Chain hoists	1000 kg
Total weight	4765 kg
Volume	30 m^3
Set-up time & number of workers	4 hrs / 4 w

* Range suggested according to the dimensions of the roof system.

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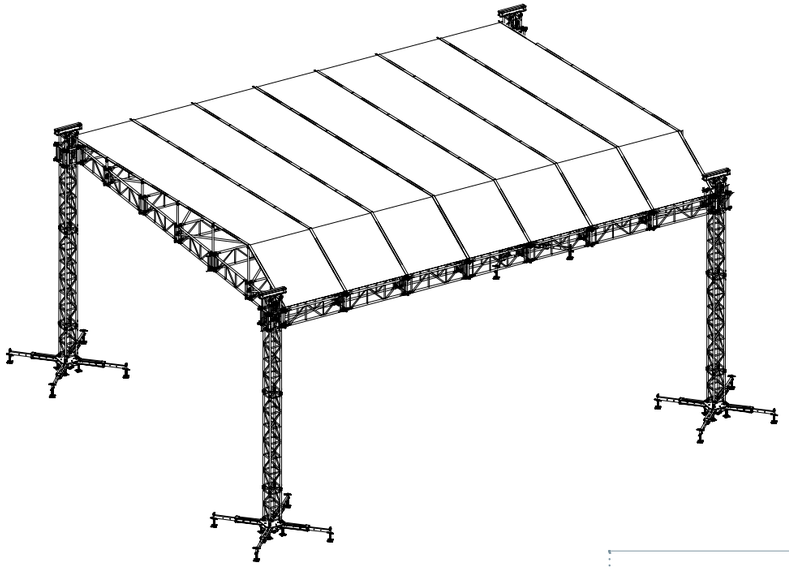
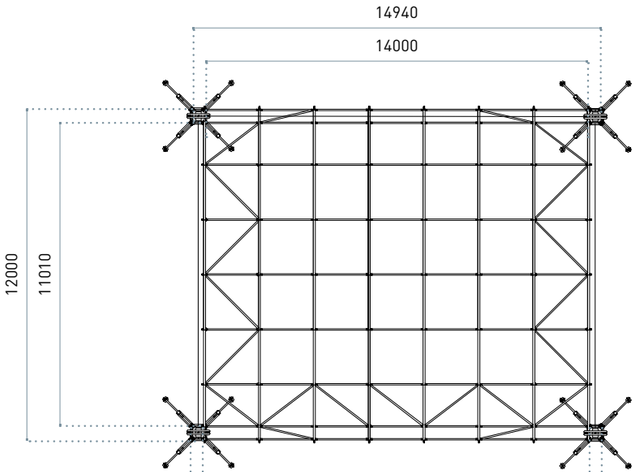
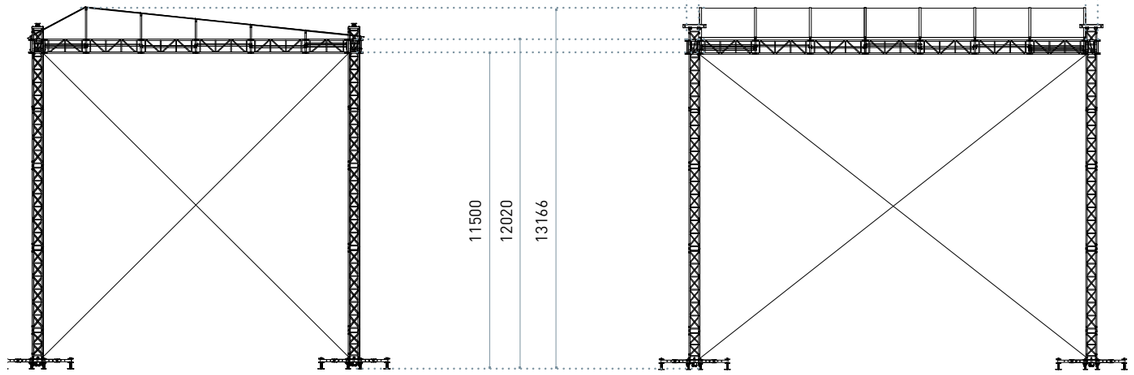


LIBERA FL52
14x12m DOUBLE-PITCH

Some standard configurations are available, but – as always in the case of LIBERA – countless solutions are possible thanks to the modular system.





LIBERA FL76
15x13m SINGLE-PITCH

LIBERA is an open structural system. Roof systems in LIBERA 76 consist of Maxitowers and a LIBERA FL76 grid structure. With the single-pitch roof, the upper grid structure consists of trusses with built-in LIBERA FL76R roofing sheet guides.

Dimensions	15 x 13 m
Heights range*	from 8 to 14 m
Main truss	LIBERA FL76
Towers	4 x Maxitower 52
Uniformly distributed load UDL **	5000 kg ≈
Chain hoists	1000-2000 kg
Total weight	4280 kg
Volume	33 m³
Set-up time & number of workers	5 hrs / 4 w

* Range suggested according to the dimensions of the roof system.

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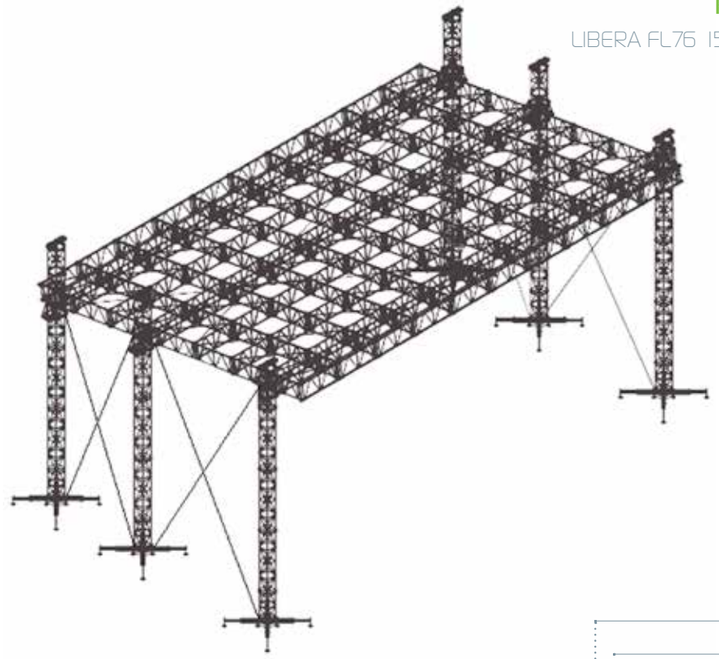
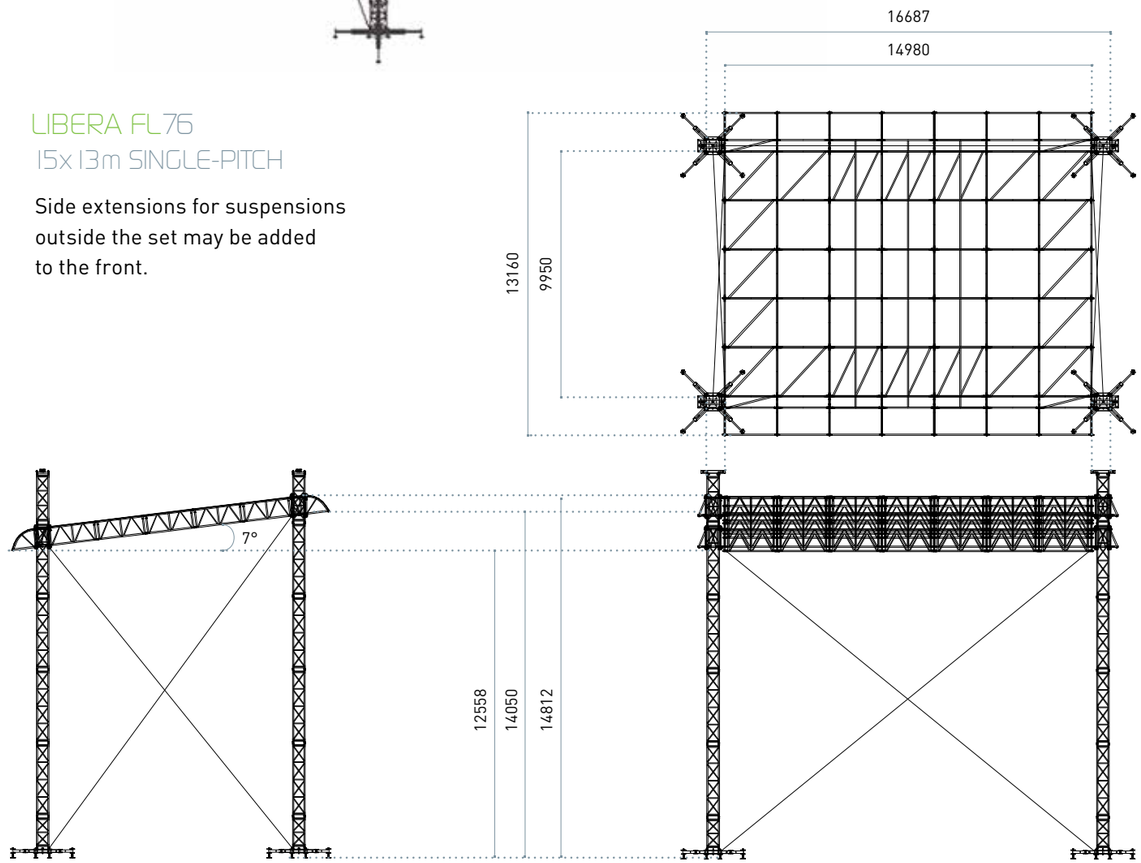
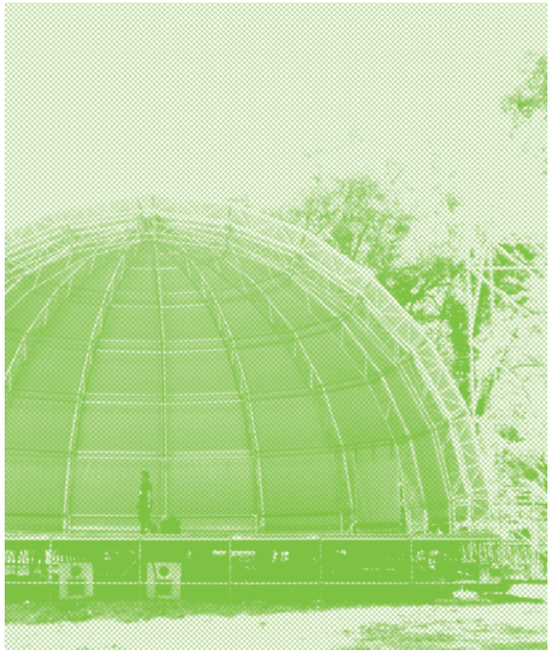


LIBERA FL76
15x13m SINGLE-PITCH

Side extensions for suspensions outside the set may be added to the front.





ALUSFERA FL52
16x8m

Alusfera is another way of using LIBERA, again starting from standard components with the addition of a few special accessories. The horizontal roof of one configuration may become a quarter sphere in another to accommodate a whole stage, with the performance of a "real" stage, including large applied loads, large roofed areas, and very small transport volumes.

Dimensions	16 x 8 m
Height*	8 m
Main truss	LIBERA FL52
Towers	//
Uniformly distributed load UDL **	4500 kg ≈
Chain hoists	//
Total weight	2000 kg
Volume	11 m^3
Set-up time & number of workers	5 hrs / 4 w

* Height suggested according to the dimensions of the roof system.

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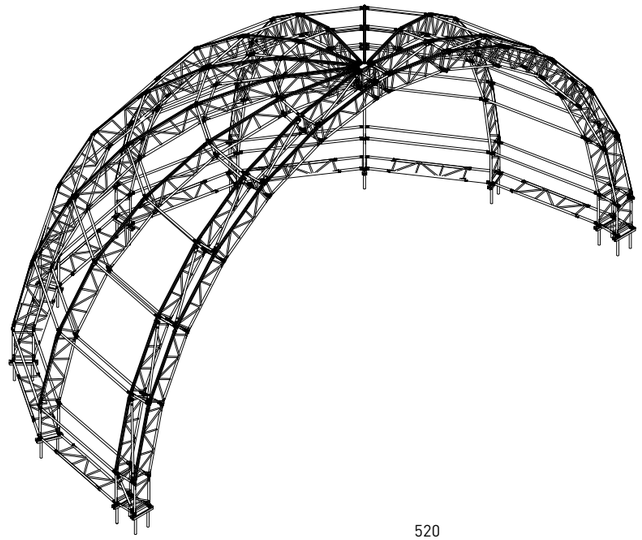
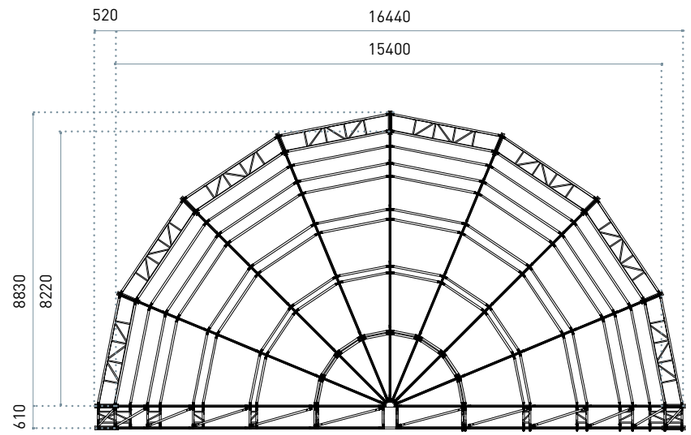
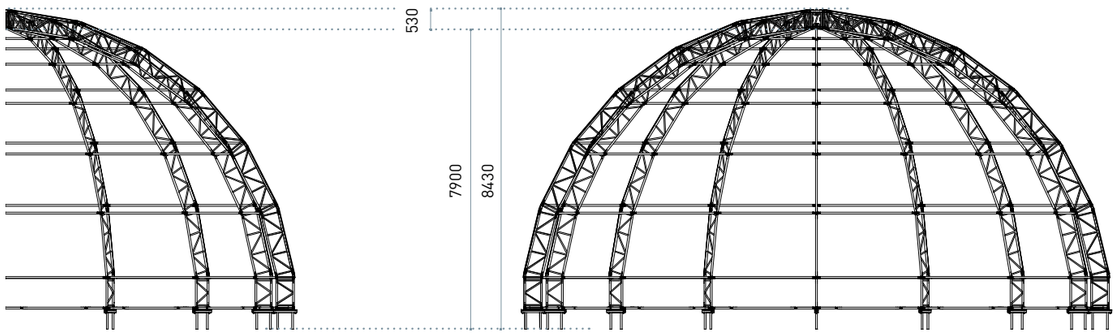


ALUSFERA FL52
16x8m

It is a very impressive structure that may be used purely as part of the scenery, even without roofing sheets.





LIBERA FL52

16x12m DOUBLE-PITCH

LIBERA is an open structural system. Roof systems in LIBERA 52 consist of Maxitowers and a LIBERA FL52 grid structure. The actual span can reach 16 metres, to which side wings may be added.

Dimensions	16 x 12 m
Heights range*	from 7 to 11 m
Main truss	LIBERA FL52
Towers	4 x Maxitower 40
Uniformly distributed load UDL **	4500 kg ≈
Chain hoists	1000 kg
Total weight	5075 kg
Volume	31 m^3
Set-up time & number of workers	4 hrs / 4 w

* Height suggested according to the dimensions of the roof system.

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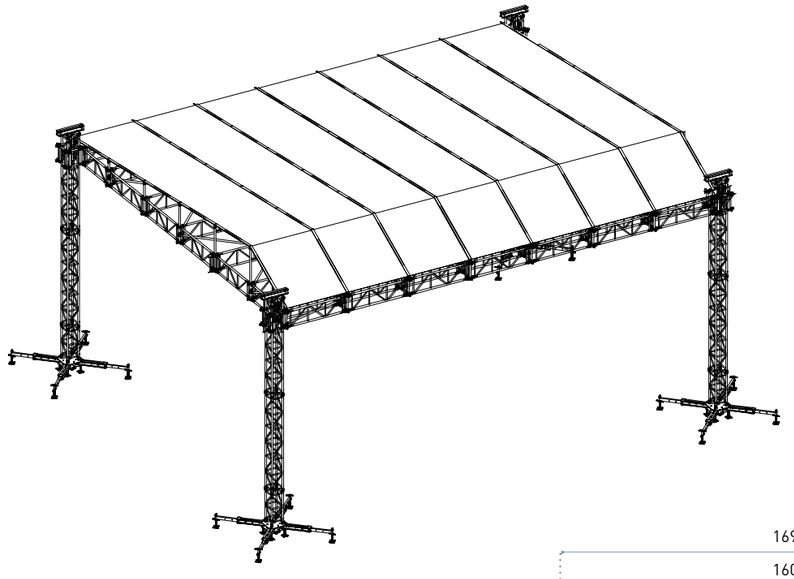
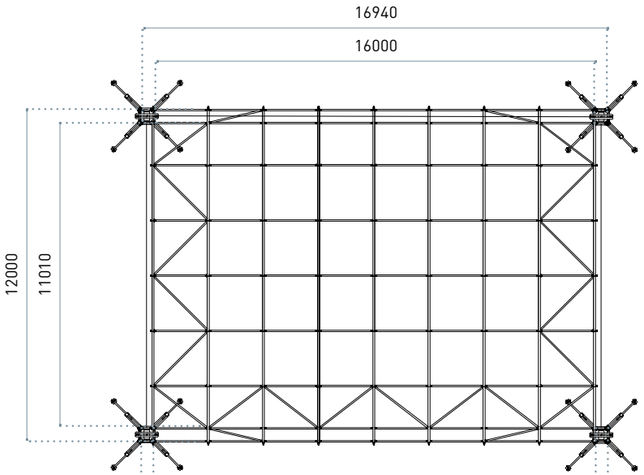
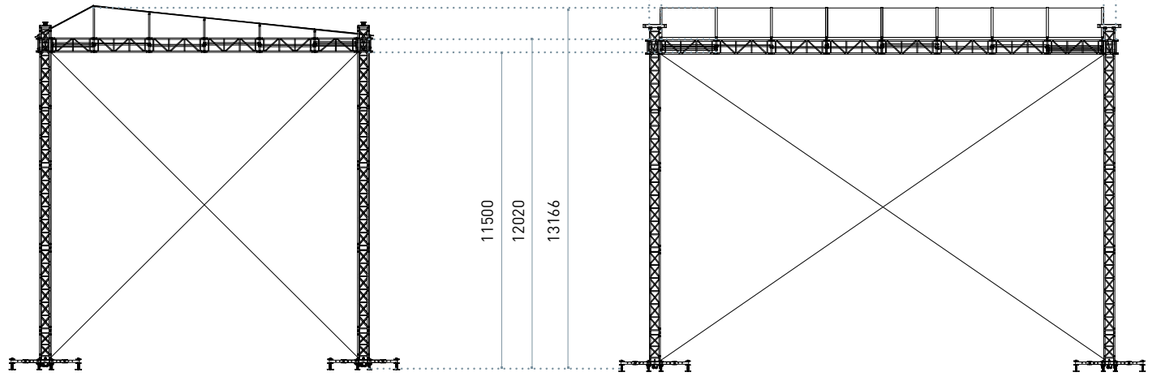
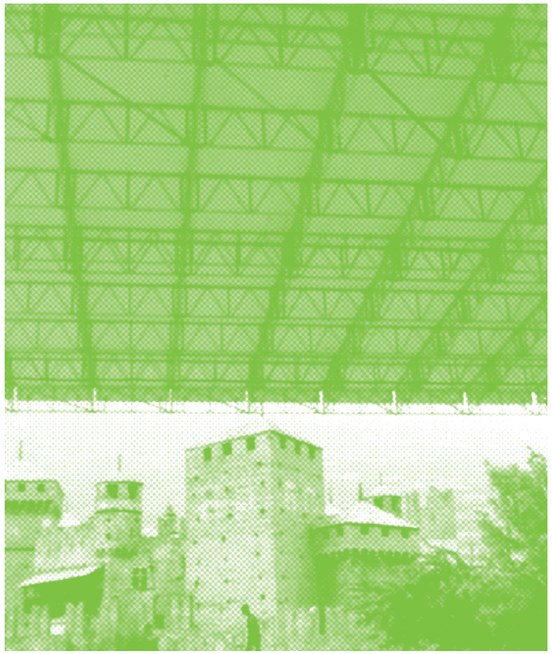




LIBERA FL52
16x12m DOUBLE-PITCH

Some standard configurations are available, but – as always in the case of LIBERA – countless solutions are possible thanks to the modular system.





LIBERA FL76

17x13m SINGLE-PITCH

LIBERA is an open structural system. Roof systems in LIBERA 76 consist of Maxitowers and a LIBERA FL76 grid structure. With the single-pitch roof, the upper grid structure consists of trusses with built-in LIBERA FL76R roofing sheet guides.

Dimensions	17 x 13 m
Heights range*	from 8 to 14 m
Main truss	LIBERA FL76
Towers	4 x Maxitower 52
Uniformly distributed load UDL **	7500 kg ≈
Chain hoists	1000-2000 kg
Total weight	4520 kg
Volume	34 m^3
Set-up time & number of workers	5 hrs / 4 w

* Range suggested according to the dimensions of the roof system.

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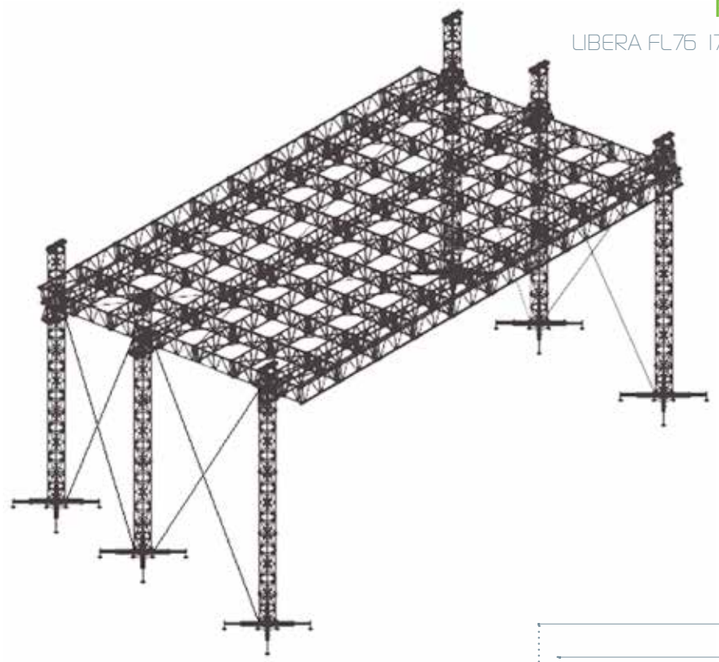
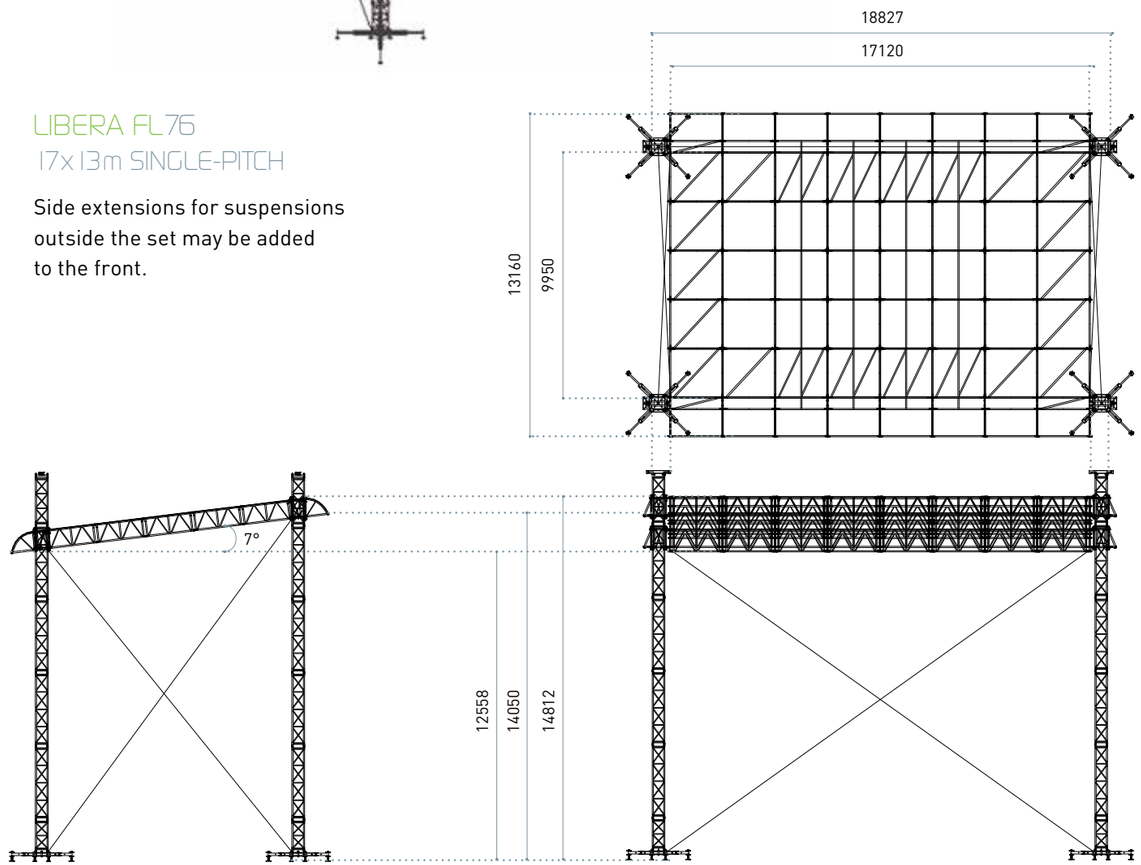
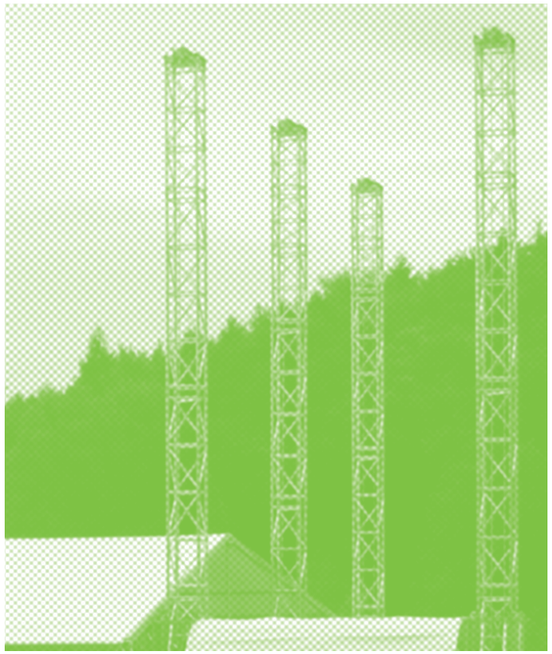


LIBERA FL76
17x13m SINGLE-PITCH

Side extensions for suspensions outside the set may be added to the front.





LIBERA FL76

17x13m DOUBLE-PITCH

LIBERA is an open structural system. Roof systems in LIBERA 76 consist of Maxitowers and a LIBERA FL76 grid structure. For the double-pitch version normal LIBERA FL76 trusses are used with the addition of support systems and sliding guides for the roofing sheet, which are fixed to the grid. This arrangement has the advantage of having a horizontal hanging plane.

Dimensions	17 x 13 m
Heights range*	from 8 to 14 m
Main truss	LIBERA FL76
Towers	6 x Maxitower 52
Uniformly distributed load UDL **	12000 kg ≈
Chain hoists	1000 - 2000 kg
Total weight	7000 kg
Volume	60 m^3
Set-up time & number of workers	5 hrs / 5 w

* Range suggested according to the dimensions of the roof system.

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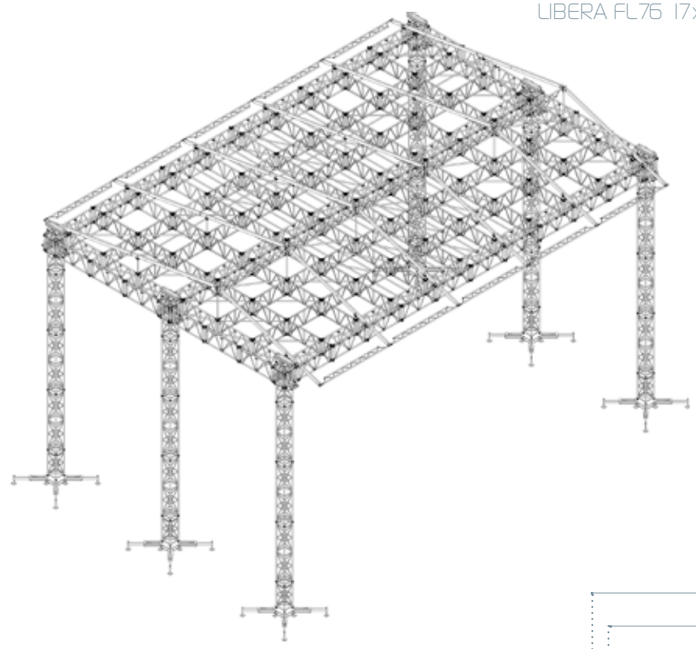
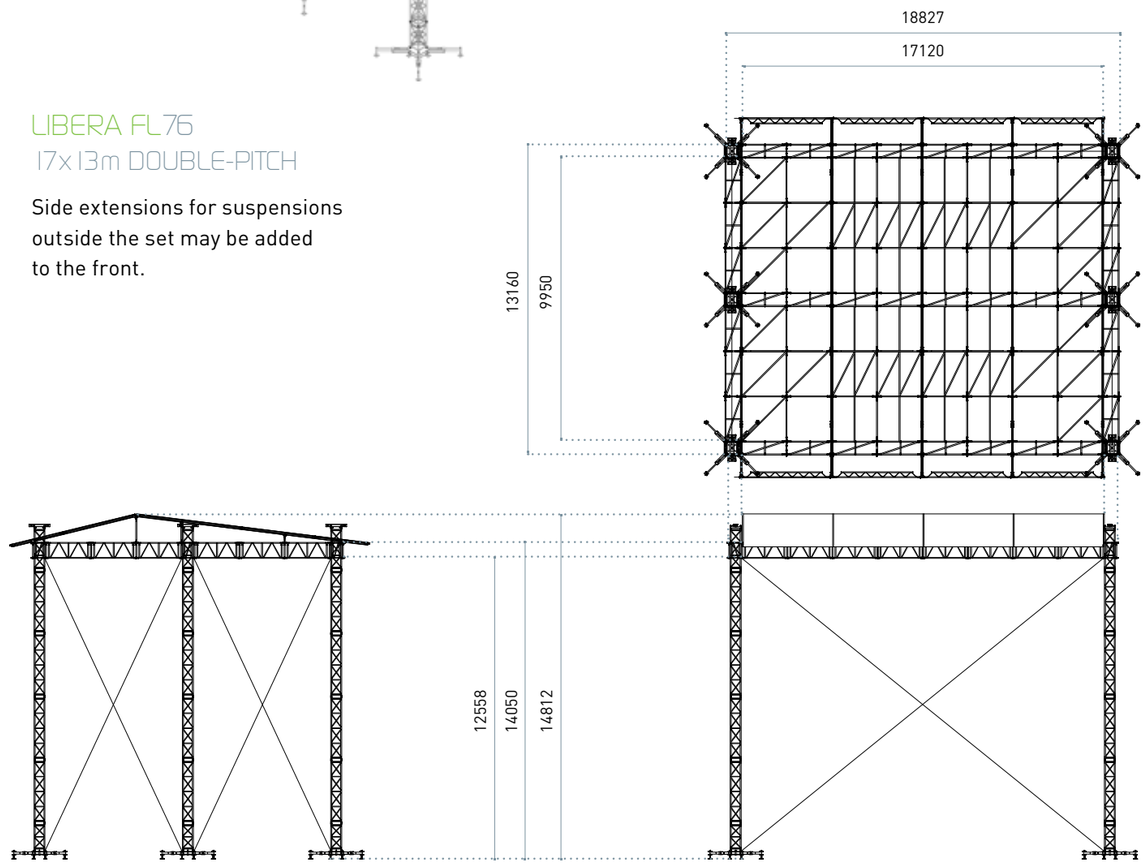
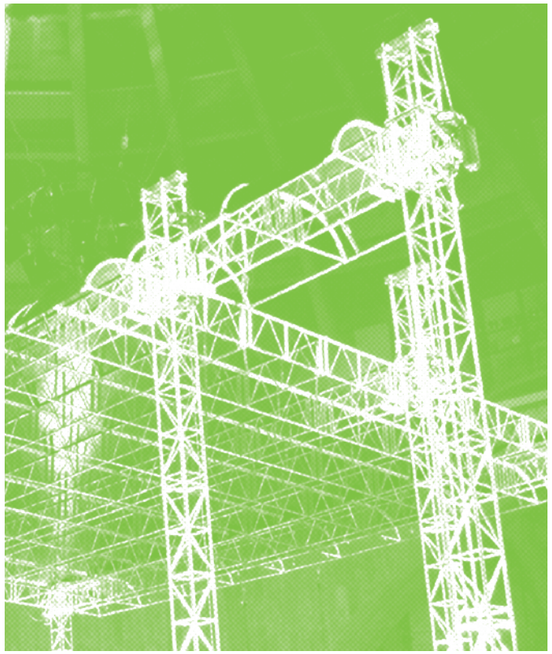


LIBERA FL76
17x13m DOUBLE-PITCH

Side extensions for suspensions outside the set may be added to the front.





LIBERA FL76
19x 16m SINGLE- PITCH

LIBERA is an open structural system. Roof systems in LIBERA 76 consist of Maxitowers and a LIBERA FL76 grid structure. With the single-pitch roof, the upper grid structure consists of trusses with built-in LIBERA FL76R roofing sheet guides.

Dimensions	19 x 16 m
Heights range*	from 8 to 14 m
Main truss	LIBERA FL76
Towers	6 x Maxitower 52
Uniformly distributed load UDL **	10000 kg ≈
Chain hoists	2000 kg
Total weight	7880 kg
Volume	65 m^3
Set-up time & number of workers	6 hrs / 5 w

* Range suggested according to the dimensions of the roof system.

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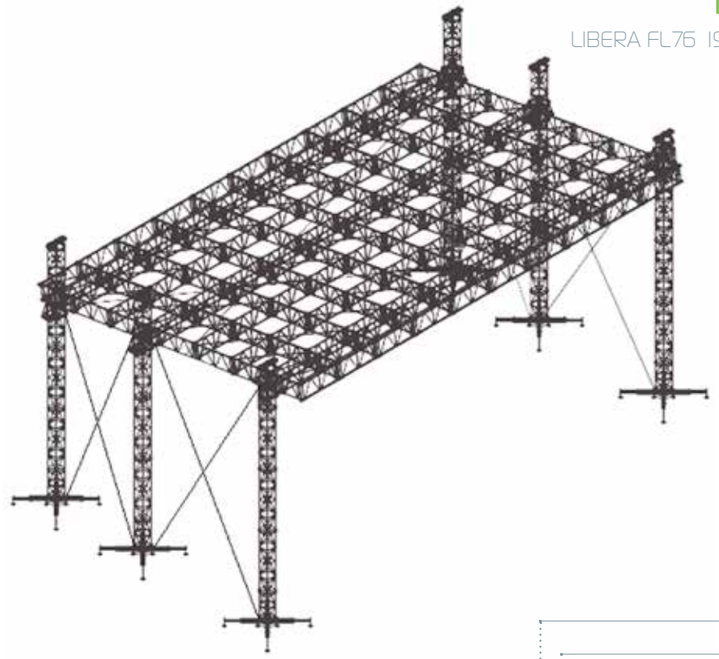
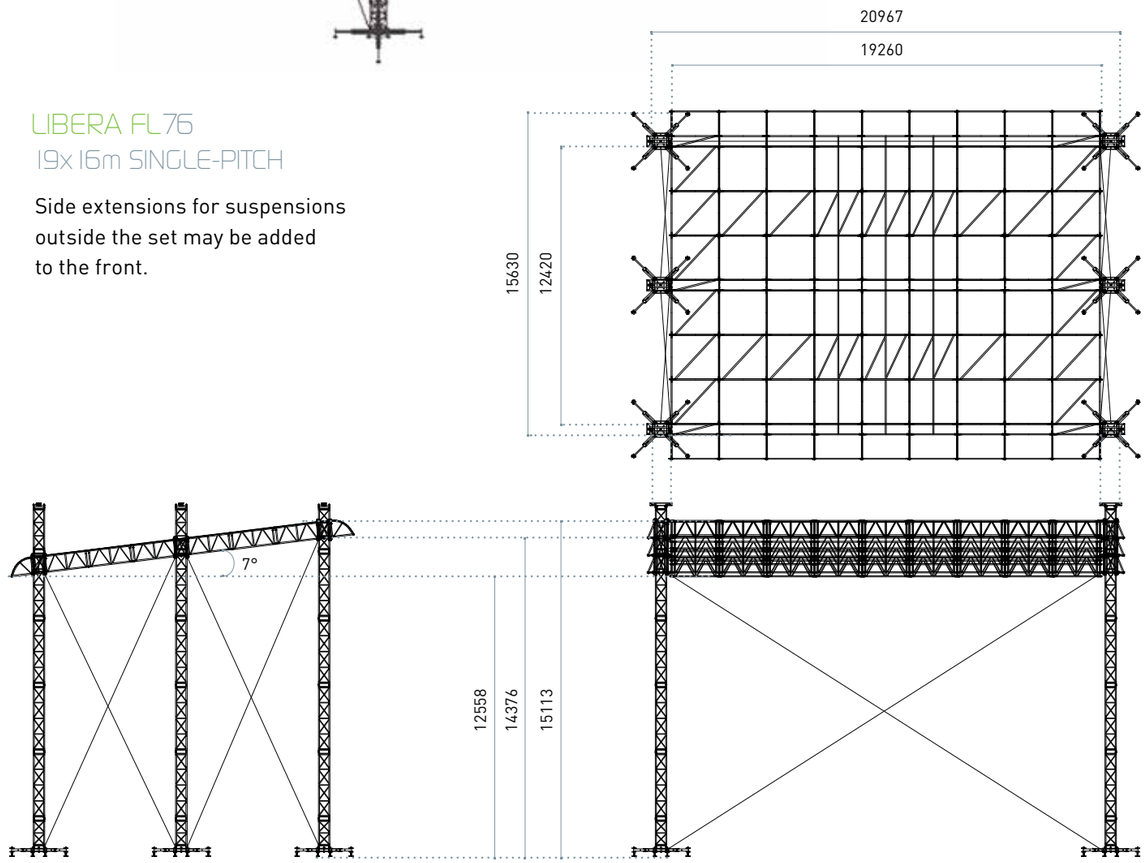
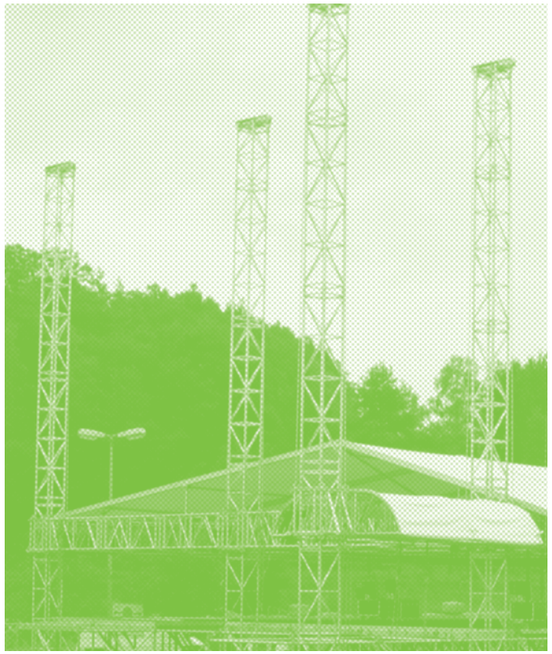


LIBERA FL76
19x 16m SINGLE-PITCH

Side extensions for suspensions outside the set may be added to the front.





LIBERA FL76

19x13m DOUBLE-PITCH

LIBERA is an open structural system. Roof systems in LIBERA 76 consist of Maxitowers and a LIBERA FL76 grid structure. For the double-pitch version normal LIBERA FL76 trusses are used with the addition of support systems and sliding guides for the roofing sheet, which are fixed to the grid. This arrangement has the advantage of having a horizontal hanging plane.

Dimensions	19 x 13 m
Heights range*	from 8 to 14 m
Main truss	LIBERA FL76
Towers	6 x Maxitower 52
Uniformly distributed load UDL **	11000 kg ≈
Chain hoists	2000 kg
Total weight	7700 kg
Volume	65 m³
Set-up time & number of workers	6 hrs / 5 w

* Range suggested according to the dimensions of the roof system.

** Indicative loading data for use in environments without wind. For details and further information, please consult the technical specifications or contact our engineering department or distributors.

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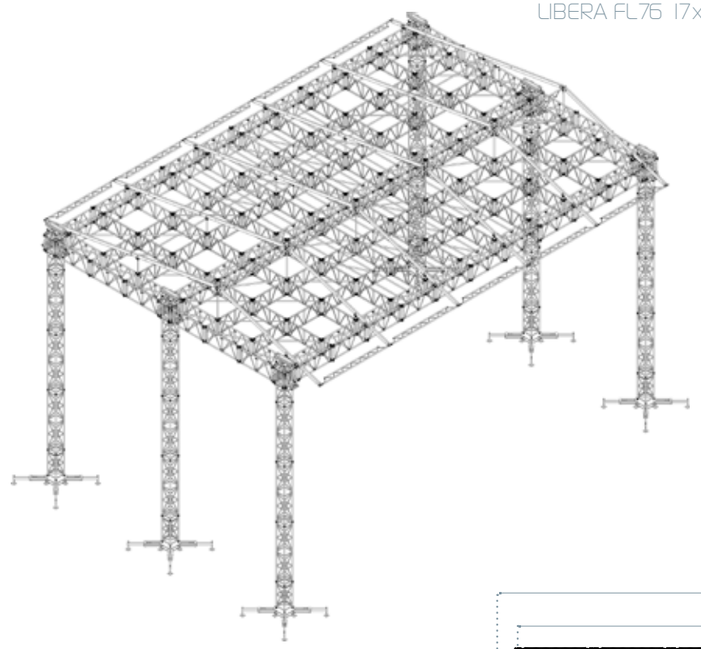
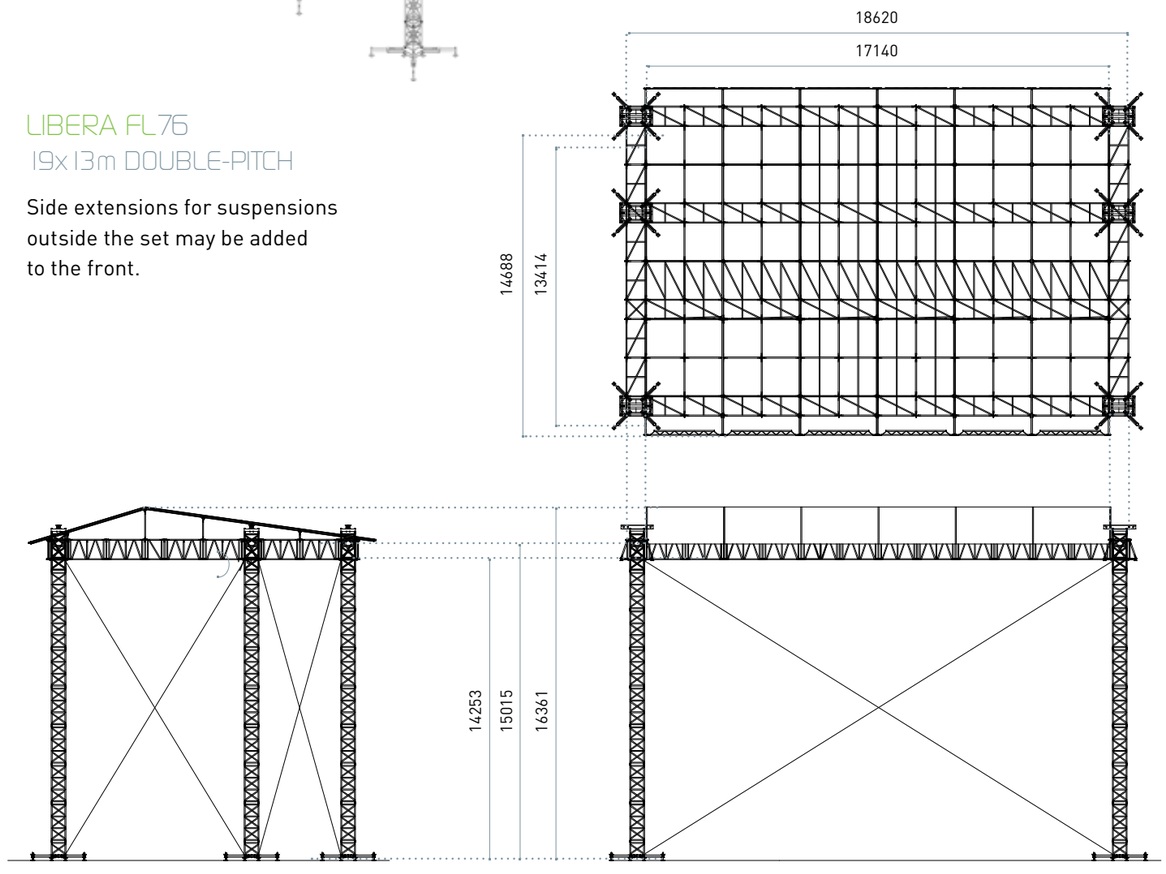


LIBERA FL76
19x13m DOUBLE-PITCH

Side extensions for suspensions outside the set may be added to the front.



LIBERA FL105

20x 16m DOUBLE-PITCH

This is the largest roof system in the LIBERA range, and one of the biggest and best performing on the market.
It is based on the LIBERA concept and consists of Maxitower 76 and LIBERA FL105 trusses. It is imposing and sturdy, and is – in itself – the most spectacular element of the show.
The structure has excellent technical specifications and is highly modular.

Dimensions	20 x 16 m
Heights range*	from 10 to 16 m
Main truss	LIBERA FL105
Towers	6 x Maxitower76
Uniformly distributed load UDL **	15000 kg ≈
Chain hoists	2000 kg
Total weight	11700 kg
Volume	112 m^3
Set-up time & number of workers	6 hrs / 6 w

* Range suggested according to the dimensions of the roof system.

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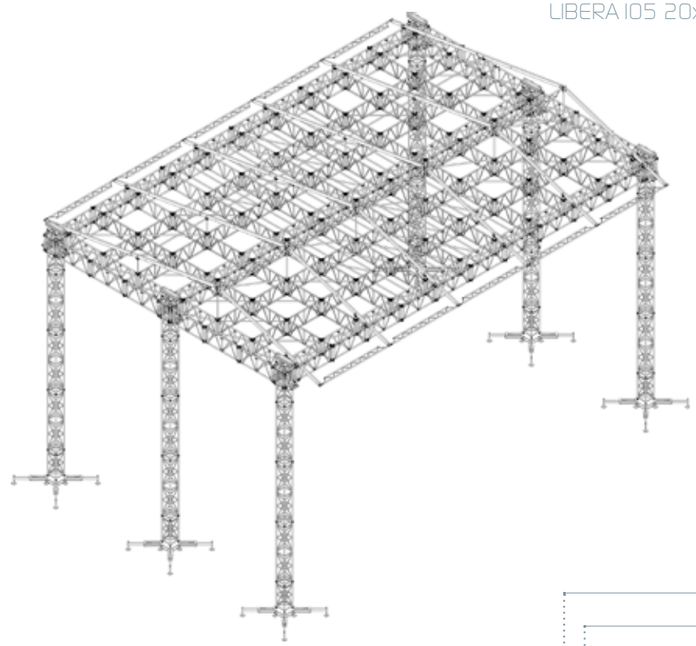
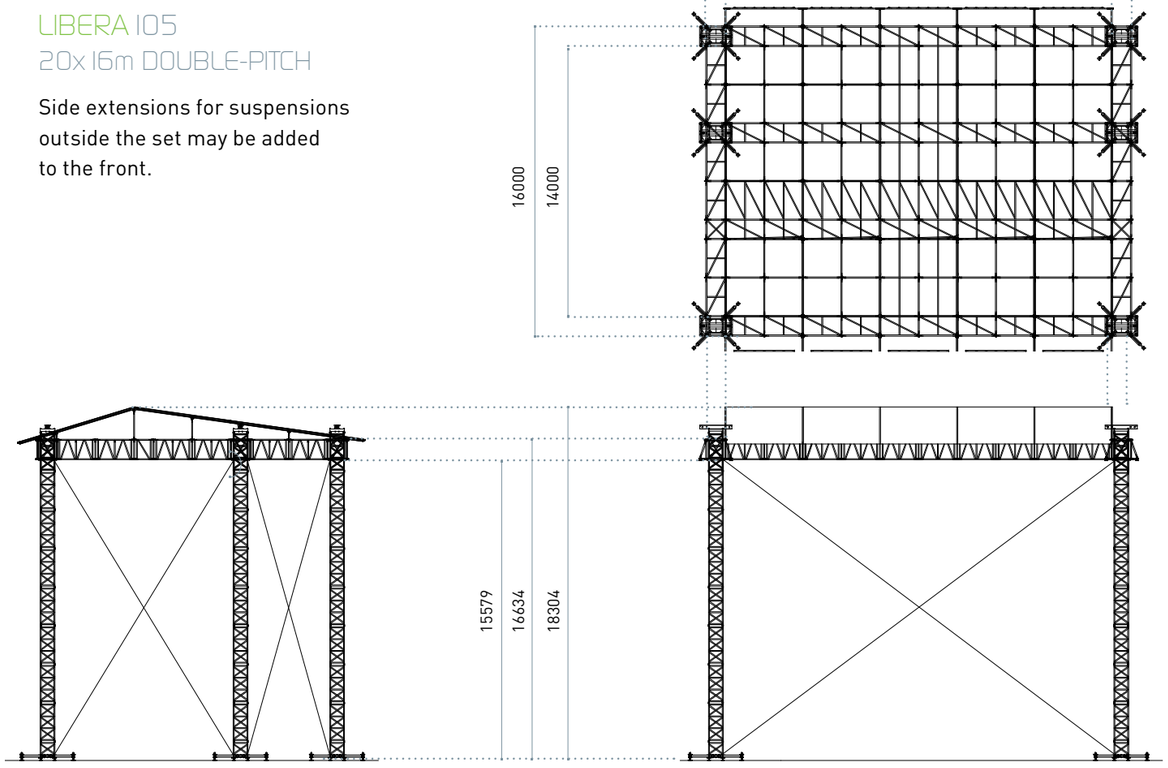
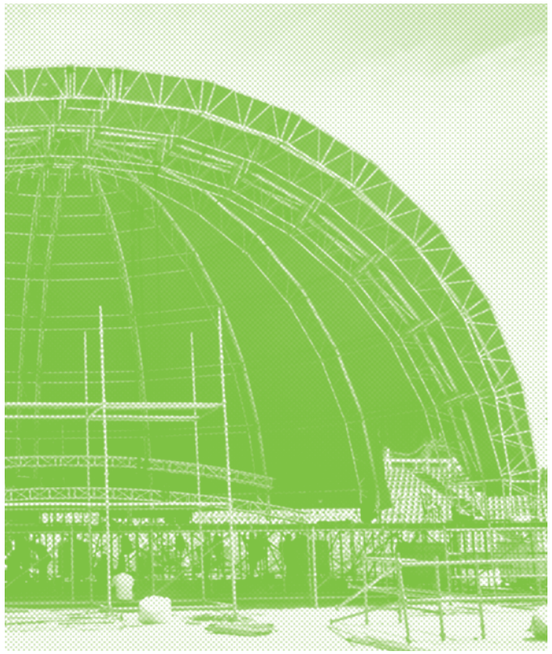


LIBERA 105
20x 16m DOUBLE-PITCH

Side extensions for suspensions outside the set may be added to the front.





LIBERA ALUSFERA 2

Alusfera is another way of using LIBERA, again starting from standard components with the addition of a few special accessories. It is a very impressive structure that may be used purely as part of the scenery, even without roofing sheets. Compared to the first version, Alusfera 2 has been designed with the addition of frontal and rear arches, a new ridge, a new solution to fix the main arches to the ground and an alternative for setting up.

Dimensions	21,5X11,5 m
Height*	11,5 m
Main truss	LIBERA FL76
Towers	//
Uniformly distributed load UDL **	6500 kg ≈
Chain hoists	//
Total weight	3700 kg
Volume	18 m^3
Set-up time & number of workers	6 hrs / 5 w

* Height suggested according to the dimensions of the roof system.

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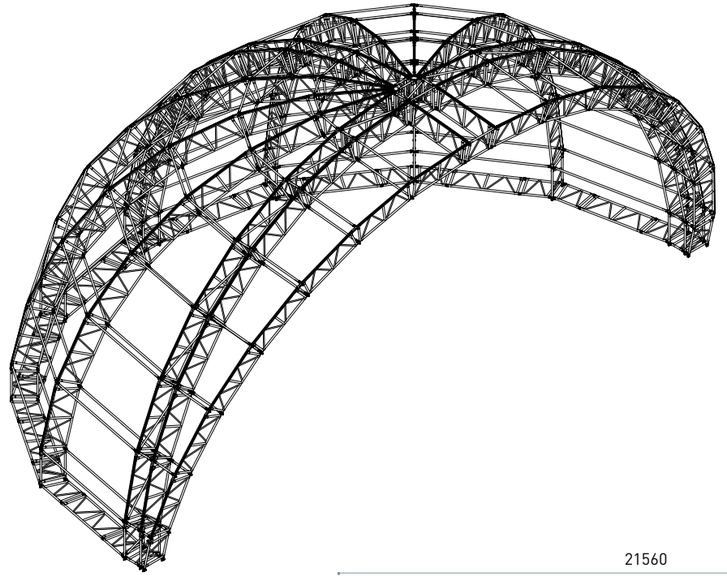
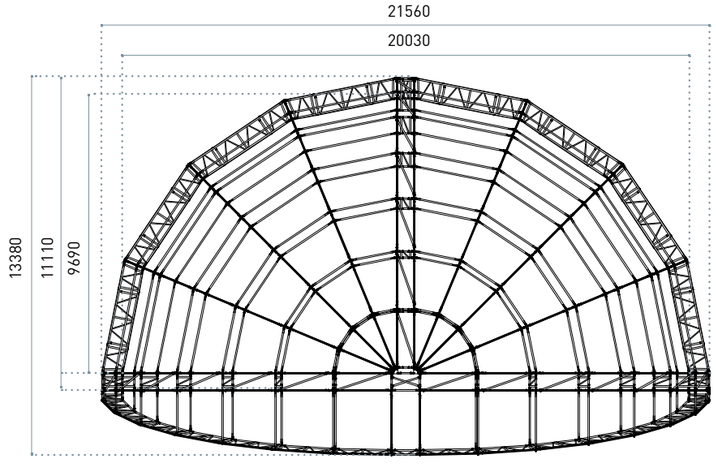
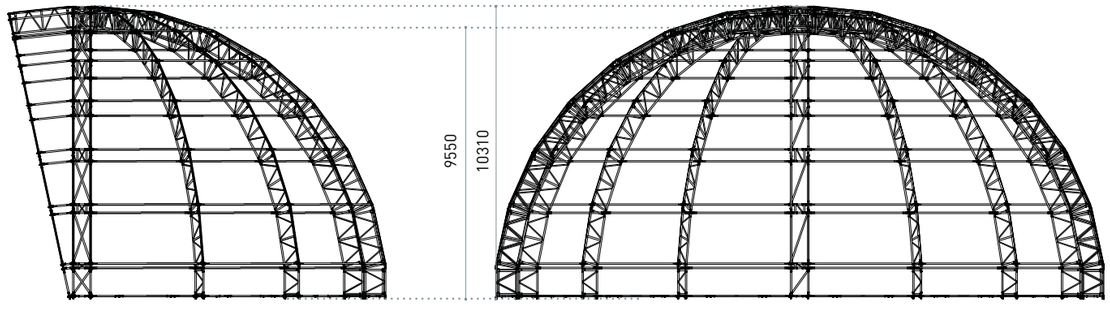


LIBERA ALUSFERA 2

These innovations limit rain exposure, make assembly operations easier and increase load capacity.





LIBERA TUNNEL
22x19m

Not just straight: LIBERA can be "bent" and used to create rounded components simply by adding small accessories to normal trusses. With simple stratagems you can go from flat systems to arched systems and vice versa. Tunnels may be created with front or side roof ridges.

Dimensions	22x19 m
Heights range*	from 8 to 14 m
Main truss	LIBERA FL76
Towers	6 x Maxitower 52
Uniformly distributed load UDL **	13000 kg ≈
Chain hoists	2000 kg
Total weight	9700 kg
Volume	62 m^3
Set-up time & number of workers	8 hrs / 8 w

* Range suggested according to the dimensions of the roof system.

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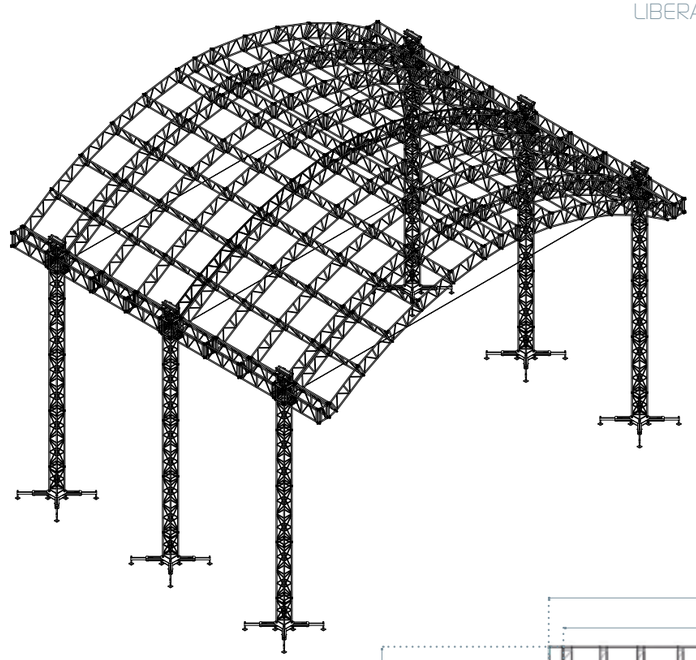
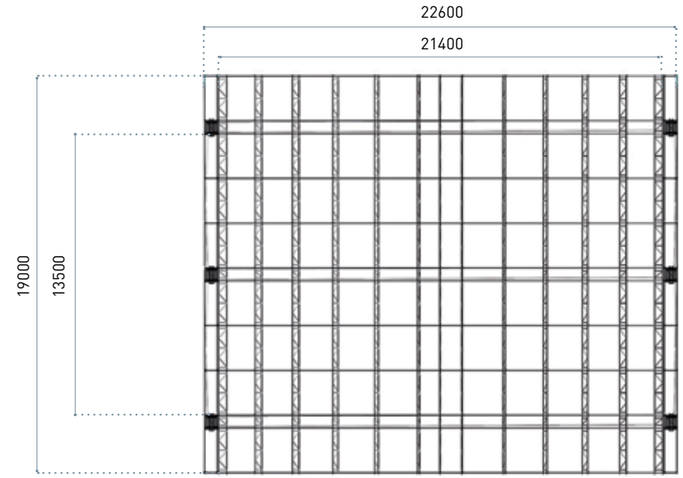
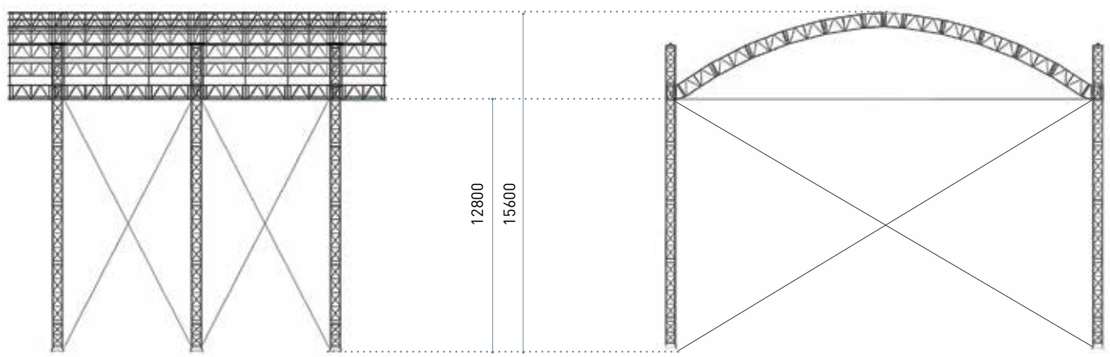
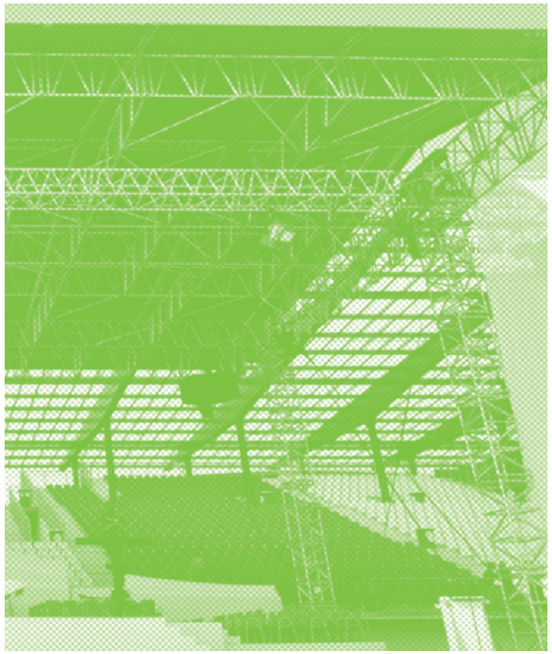


LIBERA TUNNEL
22x19m

No other product in this sector is so versatile, and riggers who fully understand the concept are able to assemble different structures each time. Rounded systems may be built with all LIBERA FL52, FL76 and FL105 models.







LIBERA FL 105

24x 16m DOUBLE-PITCH

This is the largest roof system in the LIBERA range, and one of the biggest and best performing on the market.
It is based on the LIBERA concept and consists of Maxitower 76 towers and LIBERA FL105 trusses. It is imposing and sturdy, and is – in itself – the most spectacular element of the show.
The structure has excellent technical specifications and is highly modular.

Dimensions	24 x 16 m
Heights range*	from 10 to 16 m
Main truss	LIBERA FL105
Towers	6 x Maxitower76
Uniformly distributed load UDL **	14000 kg ≈
Chain hoists	2000 kg
Total weight	12800 kg
Volume	116 m^3
Set-up time & number of workers	6 hrs / 6 w

* Range suggested according to the dimensions of the roof system.

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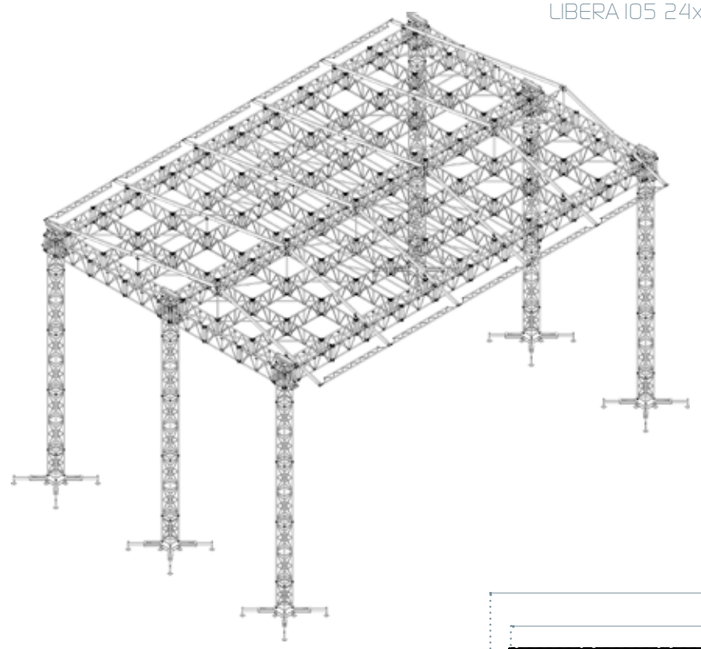
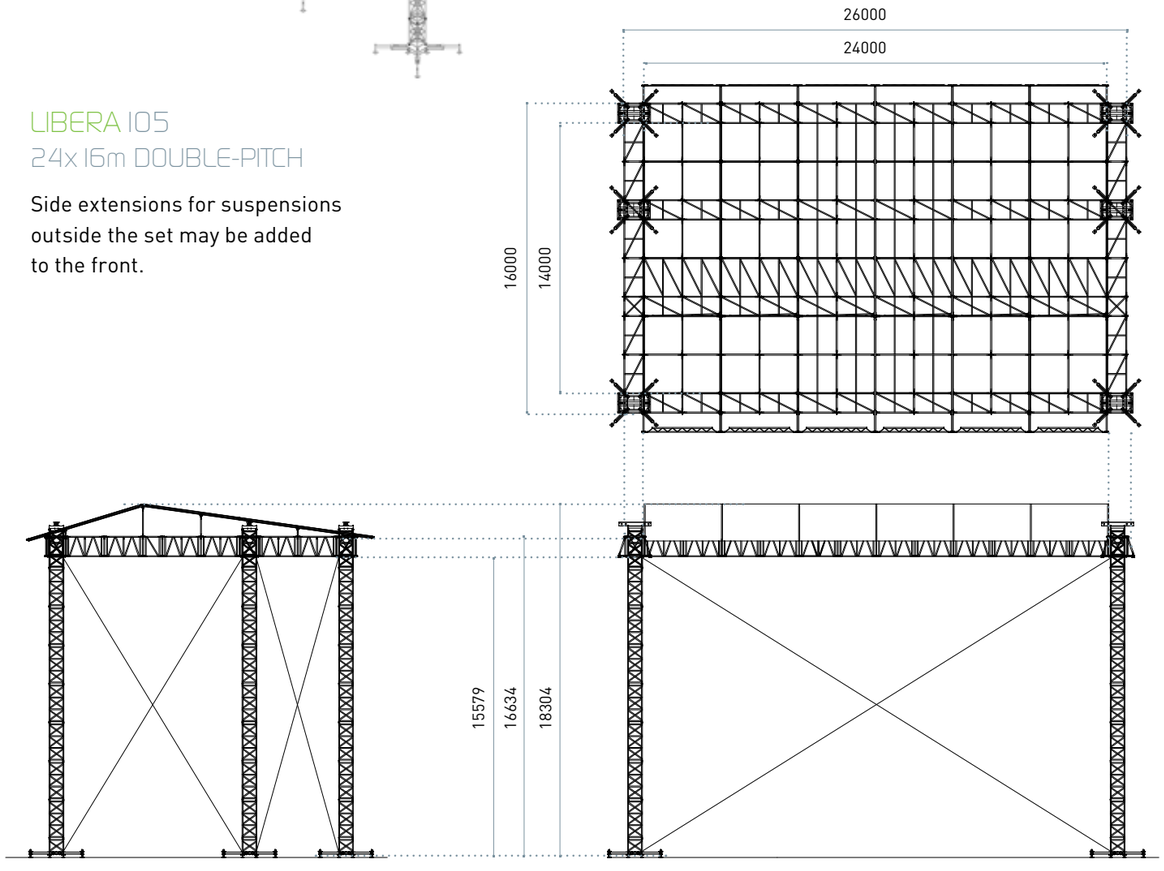
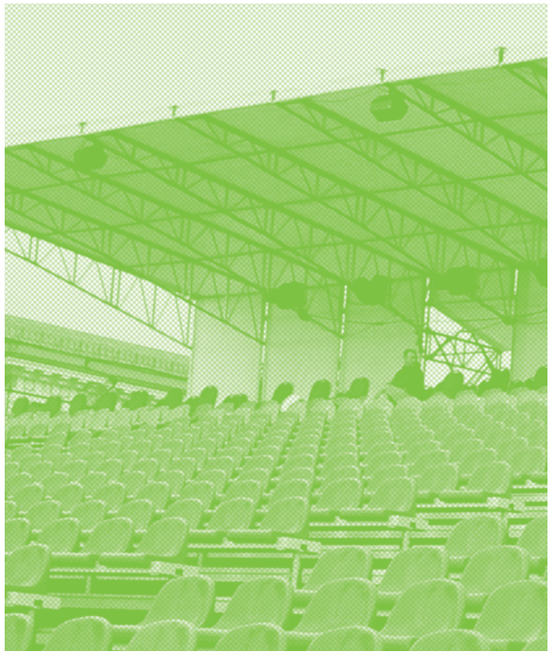


LIBERA 105
24x 16m DOUBLE-PITCH

Side extensions for suspensions outside the set may be added to the front.





TERRACE STAND ROOFING

This roof system for sports derives from the LIBERA modular concept. It uses trapezoidal flat section trusses which give the structure a streamlined look and the necessary slope for water to run off. Being completely overhanging, it does not need support pillars. The maximum overhang possible is 8 metres from the back wall, provided the stand structure is sufficiently ballasted.

Dimensions

FL10075200R HL trapez. flat truss	100/75 cm section	2 metres long
FL7550200R HL trapez. flat truss	75/50 cm section	2 metres long
FL5035200R HL trapez. flat truss	50/35 cm section	2 metres long
FL3520200R HL trapez. flat truss	35/20 cm section	2 metres long

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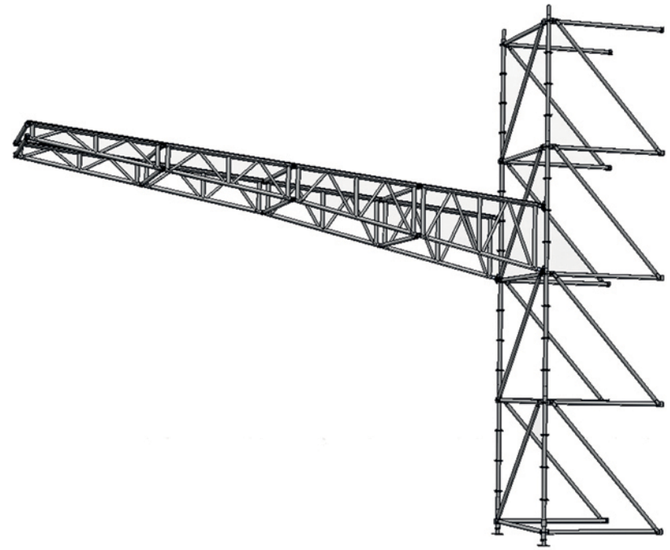
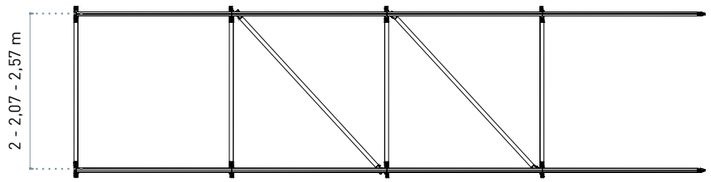
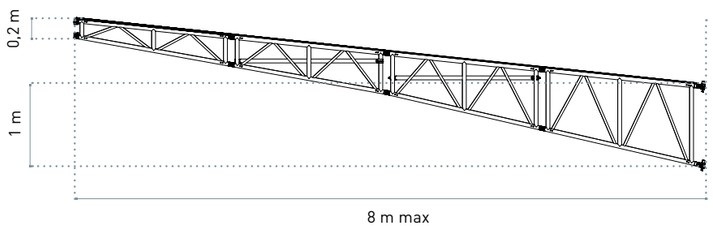


TERRACE STAND ROOFING

LITEC only provides the roof system and connection components compatible with the most important makes of multidirectional scaffolding.





QL52A
15x10m

High Load roof systems
are particularly suitable for
medium-sized covered structures.
They consist in load bearing trusses
with universal fork connections
for high-end solutions.

Dimensions	15x10 m
Heights range*	from 7 ato11 m
Main truss	QL52A
Towers	4 x Maxitower 40
Uniformly distributed load UDL **	7000 kg ≈
Chain hoists	1000 kg
Total weight	6700 kg
Volume	45 m^3
Set-up time & number of workers	4 hrs / 5 w

* Range suggested according to the dimensions of the roof system.

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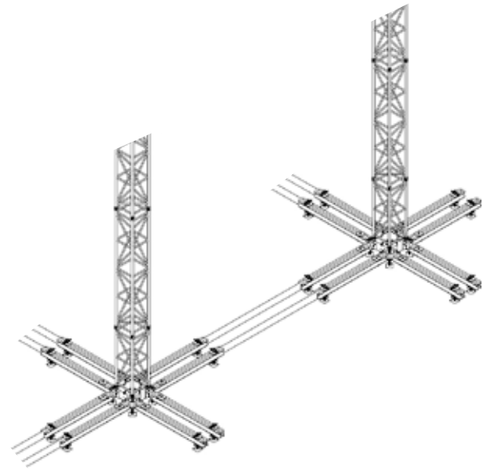
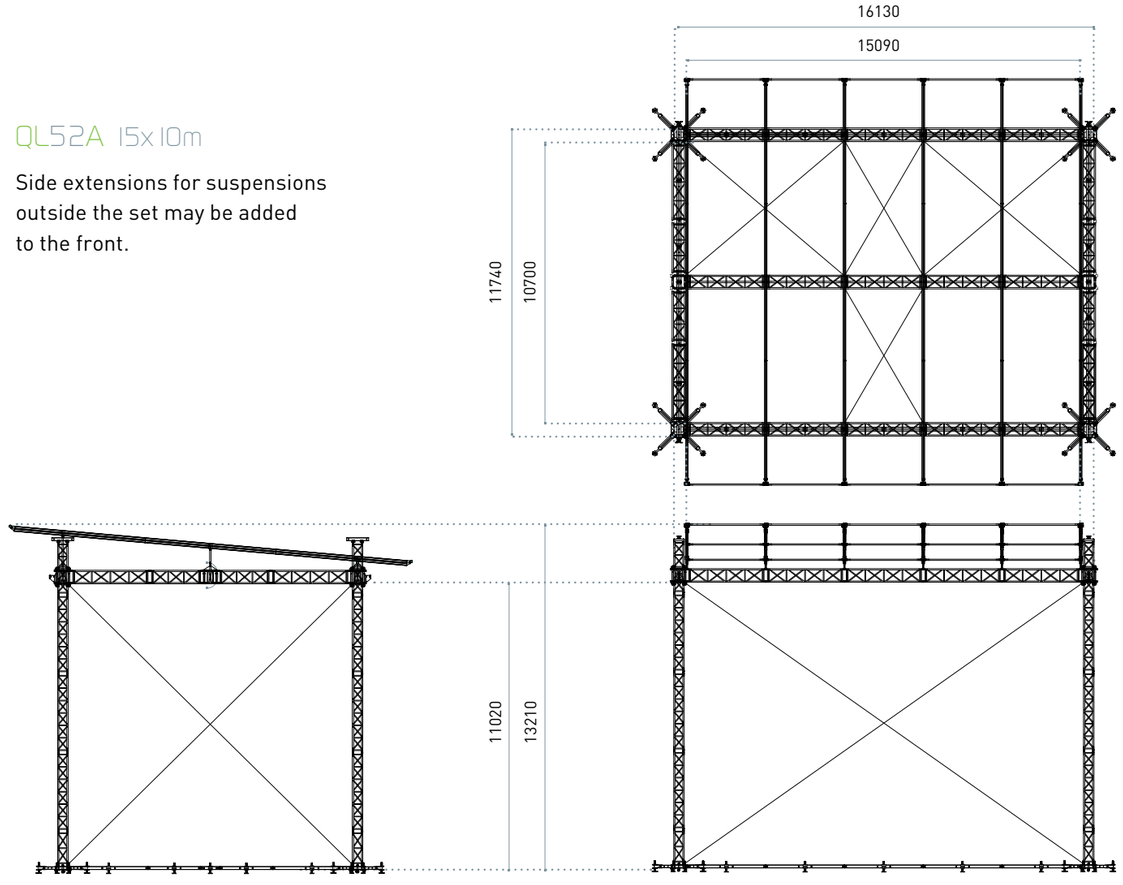


QL52A 15x10m

Side extensions for suspensions
outside the set may be added
to the front.



QL52A
18x13m

High Load roof systems
are particularly suitable for
medium-sized covered structures.
They consist in load bearing trusses
with universal fork connections
for high-end solutions.

Dimensions	18x13 m
Heights range*	from 7 to 11 m
Main truss	QL52A
Towers	6 x Maxitower 40
Uniformly distributed load UDL **	13400 kg ≈
Chain hoists	1000 kg
Total weight	8700 kg
Volume	65 m³
Set-up time & number of workers	5 hrs / 6 w

* Range suggested according to the dimensions of the roof system.

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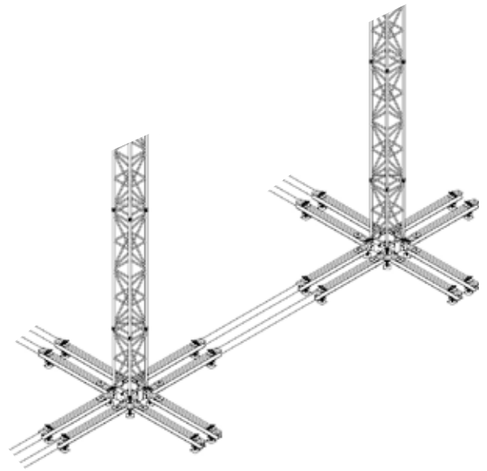
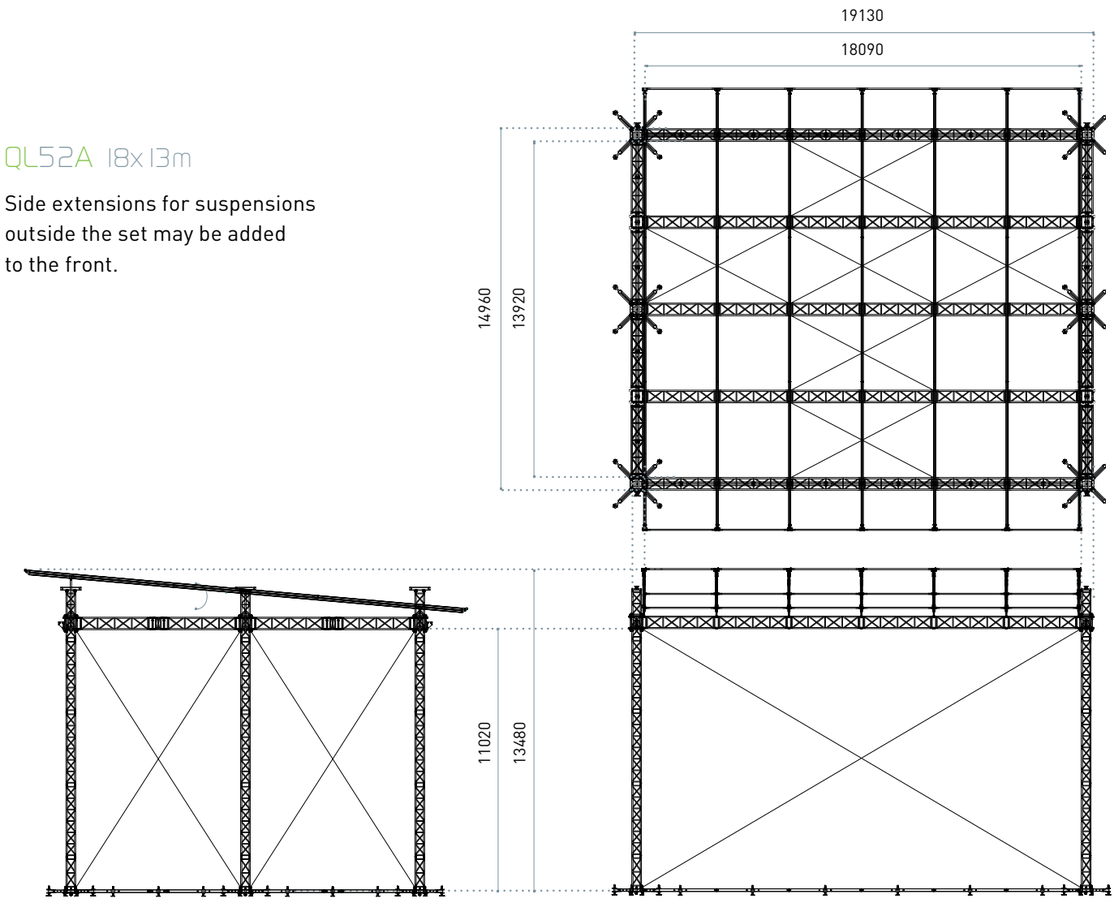


QL52A 18x13m

Side extensions for suspensions
outside the set may be added
to the front.



RL76A

18x13m

These roof systems are high-performance structures that feature a connection made through steel forks. This line was designed when a high loading capacity is required together with wide spans.

Dimensions	18x13 m
Heights range*	from 7 to 11 m
Main truss	RL76A
Towers	6 x Maxitower 40
Uniformly distributed load UDL **	17500 kg ≈
Chain hoists	1000 kg
Total weight	8200 kg
Volume	76 m³
Set-up time & number of workers	5 hrs / 6 w

* Range suggested according to the dimensions of the roof system.

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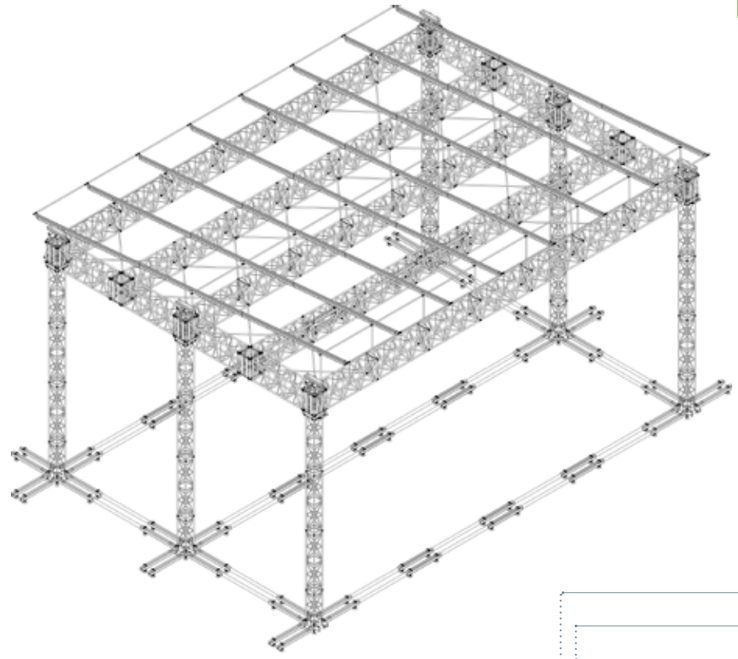
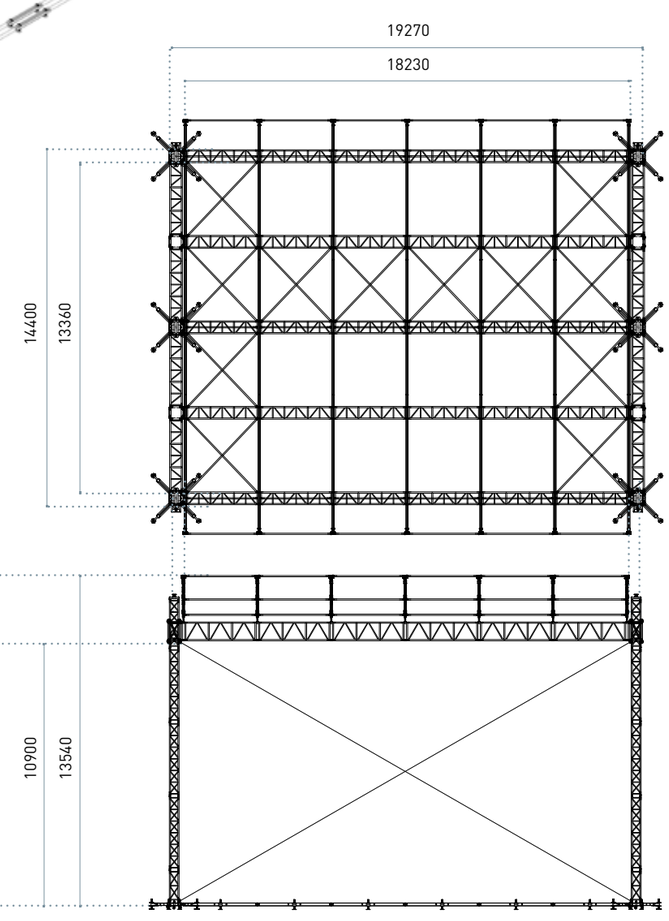


RL76A 18x13m

Side extensions for suspensions outside the set may be added to the front.



RL76A
21 x 13m

These roof systems are high-performance structures that feature a connection made through steel forks. This line was designed when a high loading capacity is required together with wide spans.

Dimensions	21x13 m
Heights range*	from 7 to 11 m
Main truss	RL76A
Towers	6 x Maxitower 40
Uniformly distributed load UDL **	15500 kg ≈
Chain hoists	1000 kg
Total weight	9000 kg
Volume	88 m³
Set-up time & number of workers	6 hrs / 6 w

* Range suggested according to the dimensions of the roof system.

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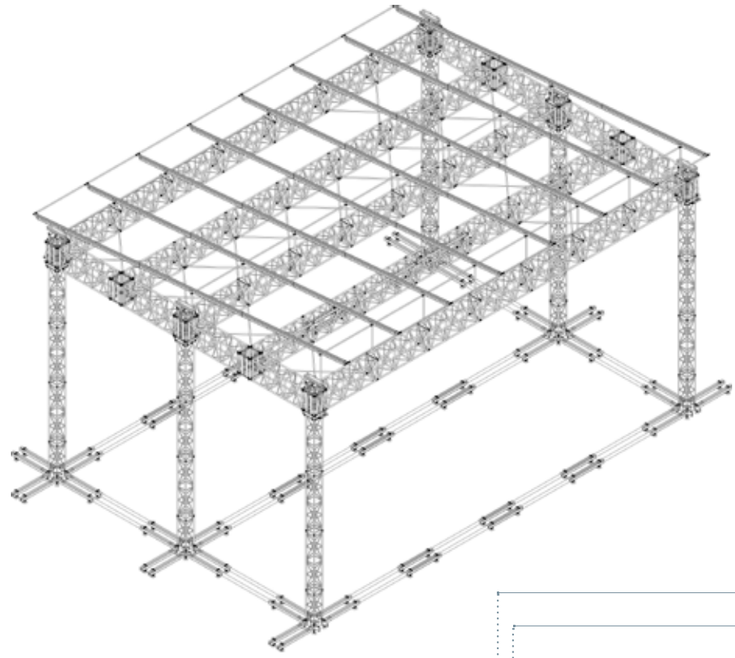

RL76A 21 x 13m

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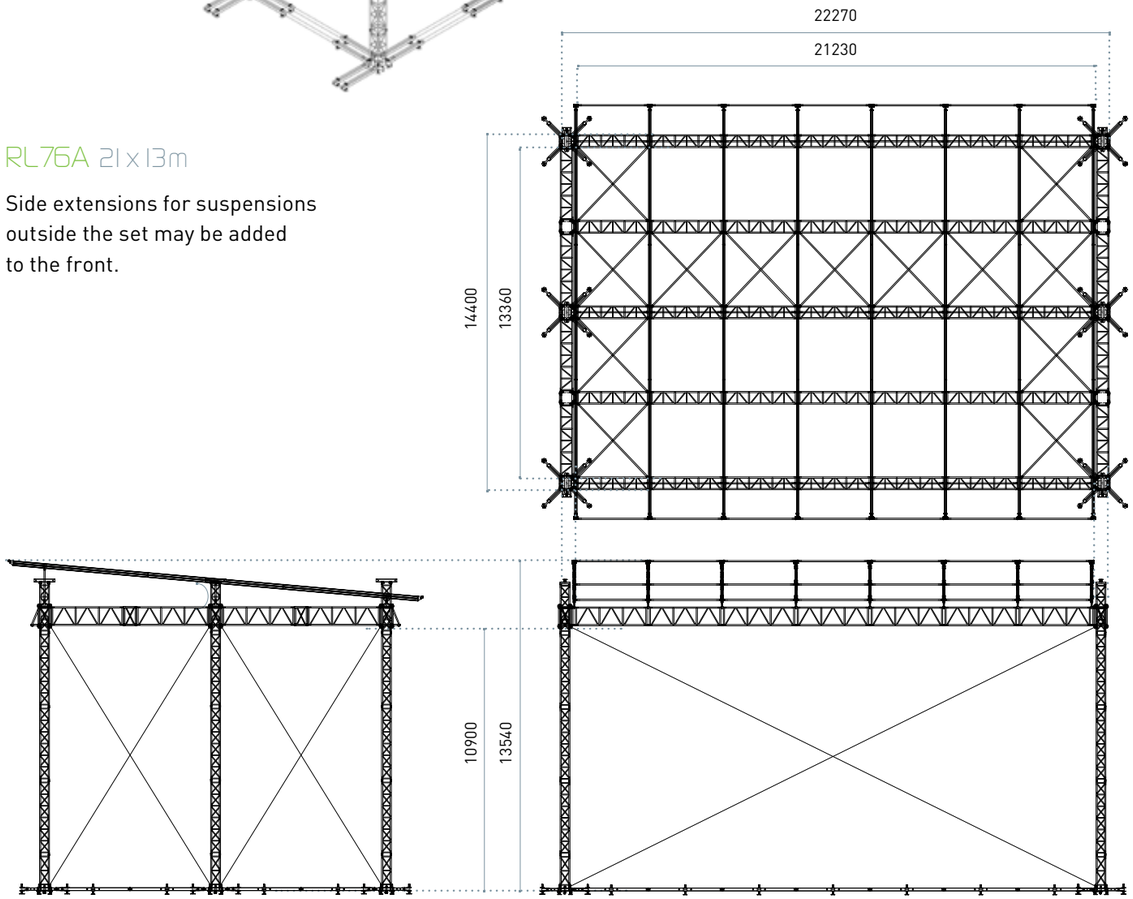

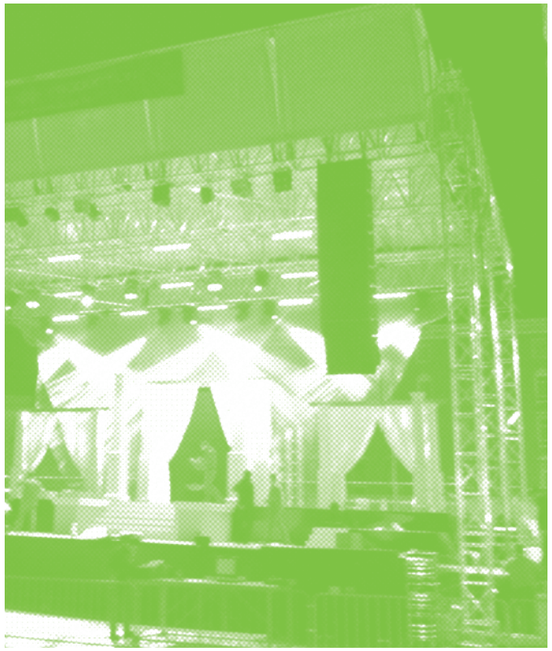

RL 105A

21 x 14m

They are strong and sturdy roof systems totally built in RL105A trusses and Maxitowers 52.
They are thought for big installations on wide spans.
They feature new built-in guides for inserting roof sheets and a four-way sleeve block which is compatible with LIBERA FL105.

Dimensions	21x14 m
Heights range*	from 10 to 16 m
Main truss	RL105A
Towers	6 x Maxitower 52
Uniformly distributed load UDL **	24000 kg ≈
Chain hoists	2000 kg
Total weight	13500 kg
Volume	160 m^3
Set-up time & number of workers	8 hrs / 6 w

* Range suggested according to the dimensions of the roof system.

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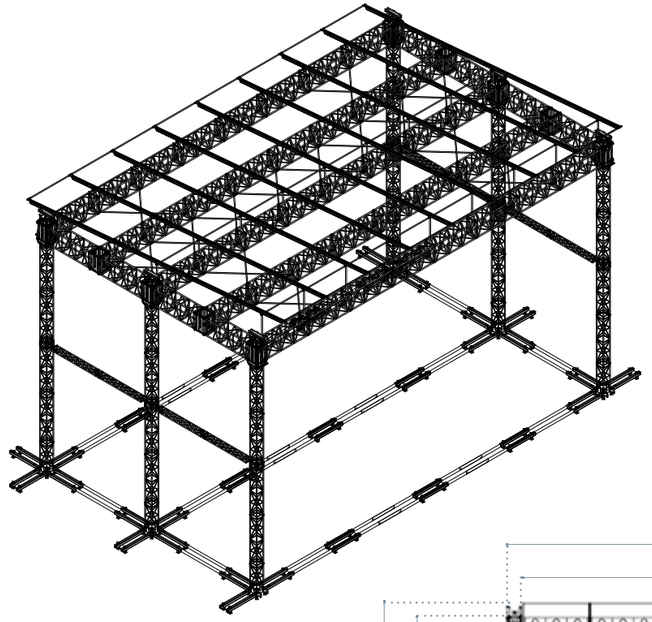
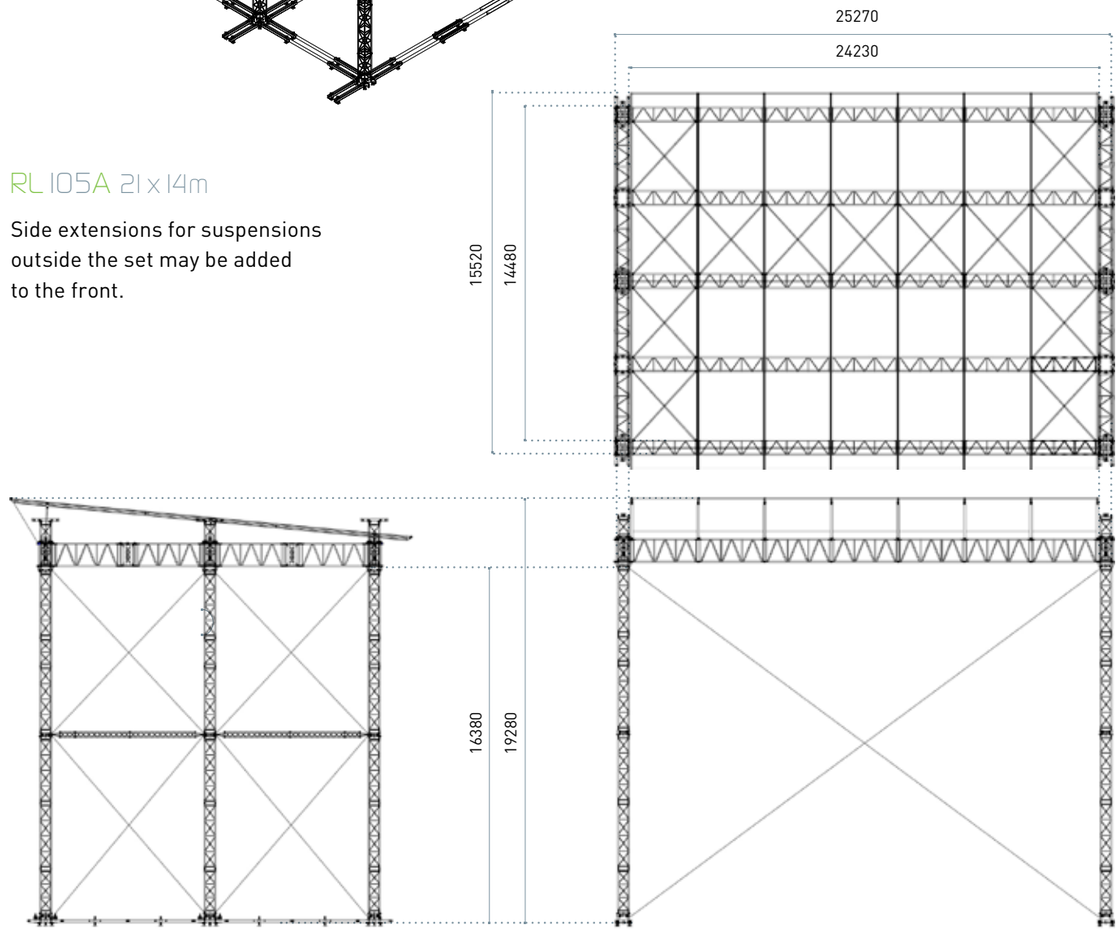
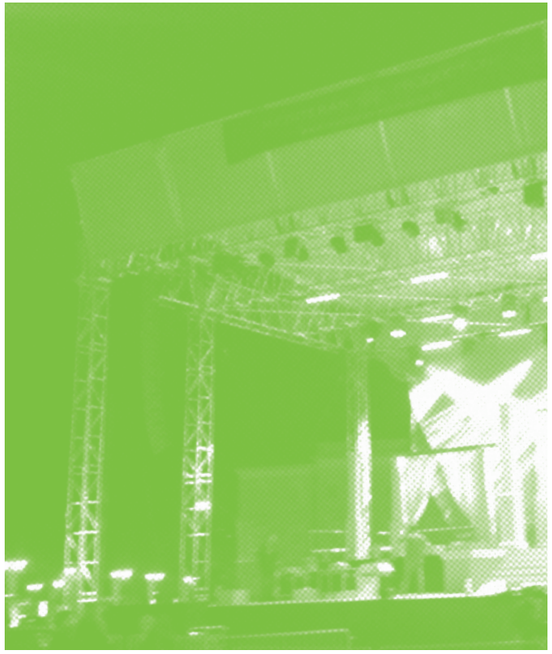


RL 105A 21 x 14m

Side extensions for suspensions outside the set may be added to the front.





RL 105A

24x 14m

They are strong and sturdy roof systems totally built in RL105A trusses and Maxitowers 52, They are thought for big installations on wide spans. They feature new built-in guides for inserting roof sheets and a four-way sleeve block which is compatible with LIBERA FL105.

Dimensions	24x14 m
Heights range*	from 10 to 16 m
Main truss	RL105A
Towers	6 x Maxitower 52
Uniformly distributed load UDL **	21000 kg ≈
Chain hoists	2000 kg
Total weight	14000 kg
Volume	172 m^3
Set-up time & number of workers	8 hrs / 6 w

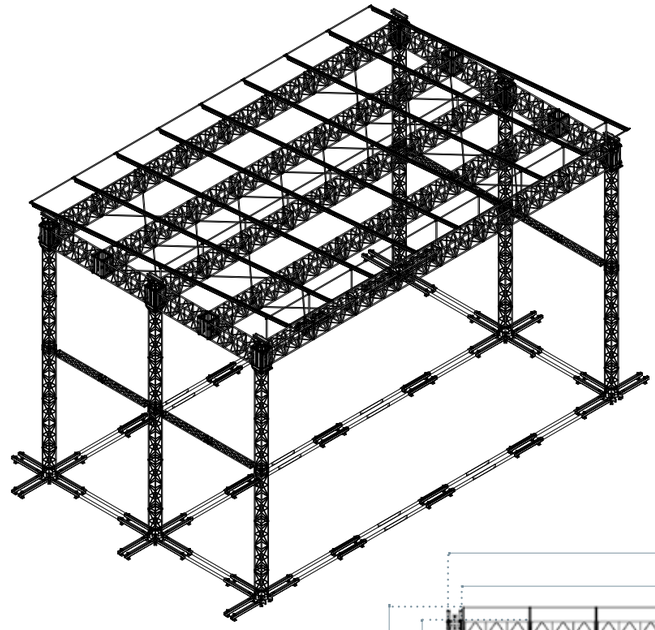
* Range suggested according to the dimensions of the roof system.

** Indicative loading data for use in environments without wind. For details and further information, please consult the technical specifications or contact our engineering department or distributors.

For details and further information, please consult the technical specifications or contact our engineering department or distributors.

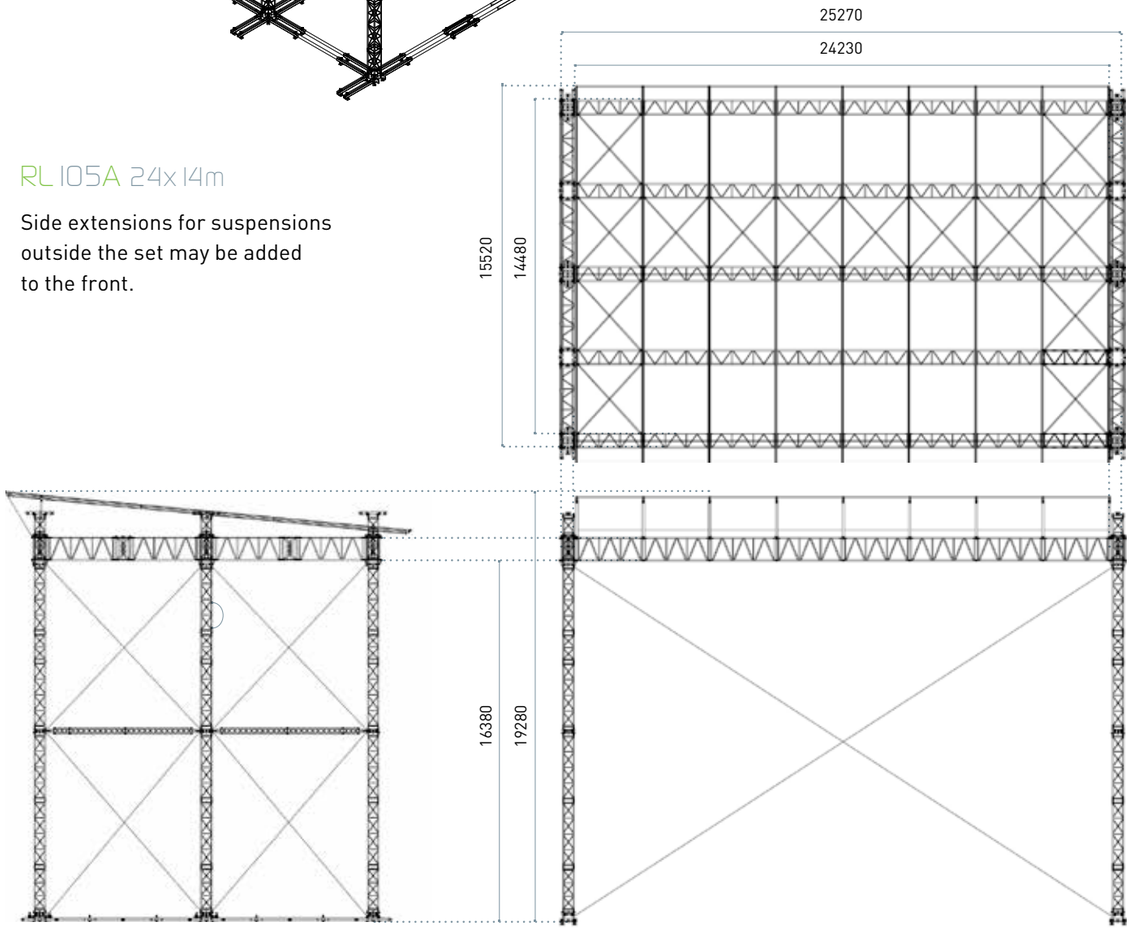
The examples and data shown on these pages are necessarily indicative owing to the extreme variability of the conditions in which the structures may be assembled. Each installation must be provided with a suitable quantity of ballast, as shown on the product certificates.

This line of structures was created in compliance with European standards.
Use of these systems is governed by laws which vary according to the country they are assembled in. They must be put together in compliance with the local regulations in force.



RL 105A 24x 14m

Side extensions for suspensions outside the set may be added to the front.

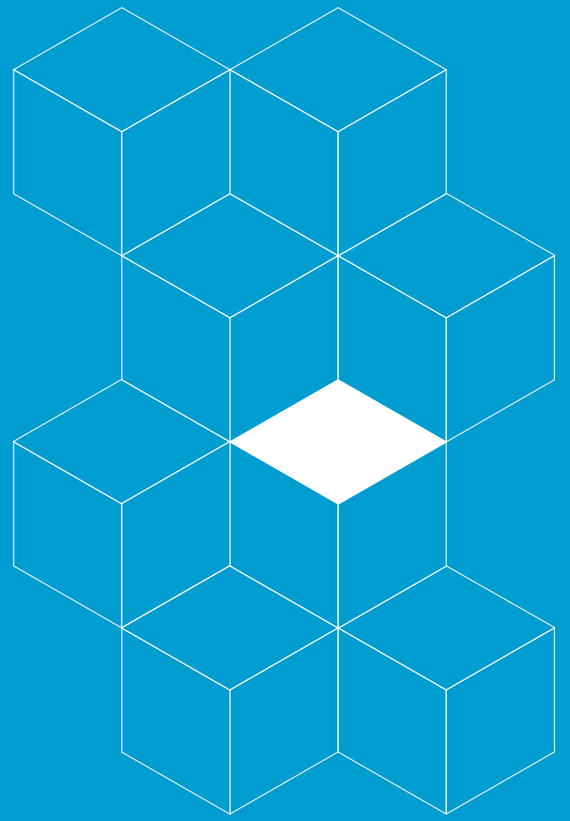


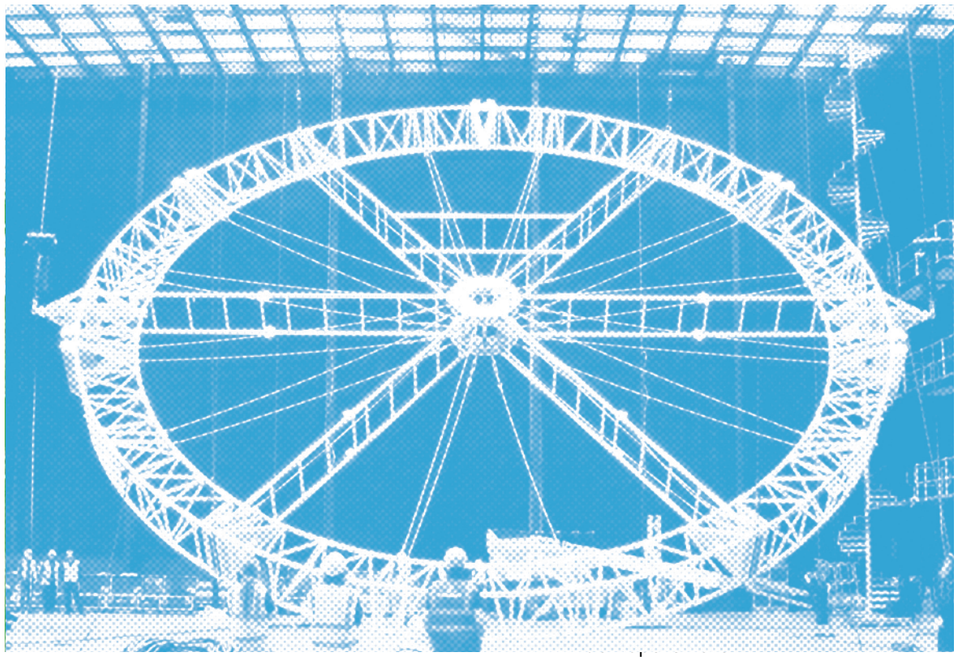
Charity Concert with Philharmonic Orchestra, Arboretum, Slovenia
Photo courtesy of Martin Cvetko / Prozvok d.o.o.
Installation managed by Prozvok d.o.o., Notranje Gorice, Slovenia

BESPOKE SOLUTIONS

INNOVATION

For LITEC, clients and their needs are always top priority: clients are LITEC's most valuable resource. LITEC assists customers at every stage, from initial concept to completion of the structure offering our knowledge, expertise and experience to embrace the most demanding challenges. In the next pages you will find some special projects we have been involved with in the last months.
LITEC invents new ways of accomplishing tasks, making them not just possible, but simple and secure too. LITEC is about style, about being ahead of the curve, about solutions.



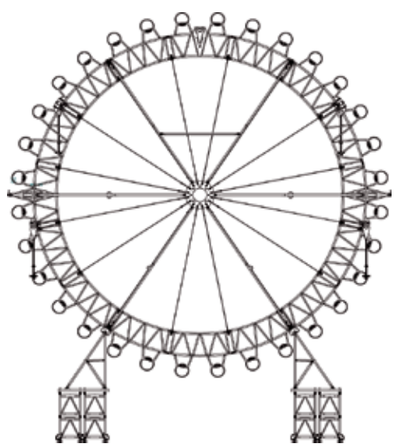


panoramic wheel

Reproduction of the panoramic wheel of London, which was shown during a world sports event.
The structure is formed of a main body in trusses, many radii, the central hub of the wheel and several decorative elements which reflect the shape of the original cabins.

Technical characteristics

- arches made with special curved triangular-section trusses
- material in aluminium alloy EN AW-6082 T6
- 15-metre diameter

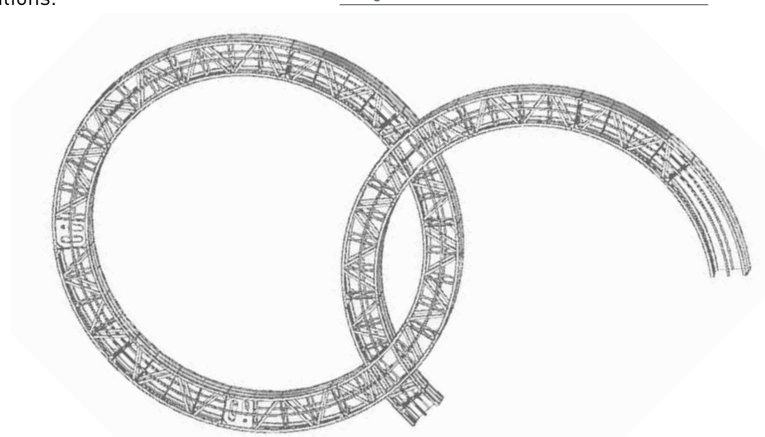


rings

Construction of some rings made in different types and dimensions, designed for a world sports event.
These structures are quite different from standard circles and their applications.

Technical characteristics

- modules made with various aluminium profiles welded together
- nut and bolt connection
- all the components assembled together while being installed



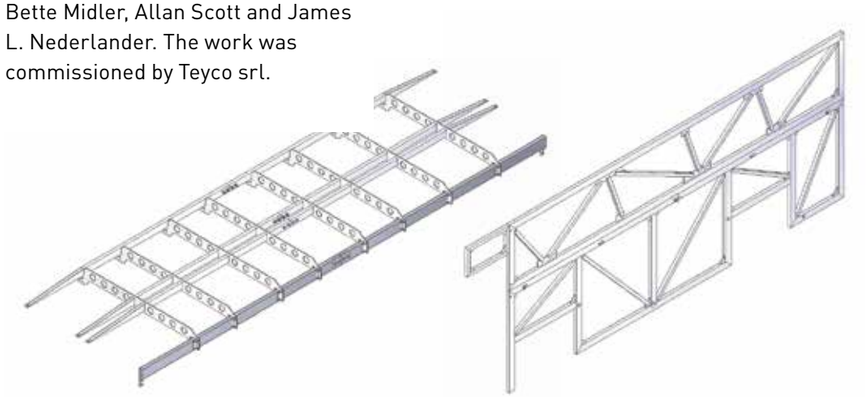
bus and support structure

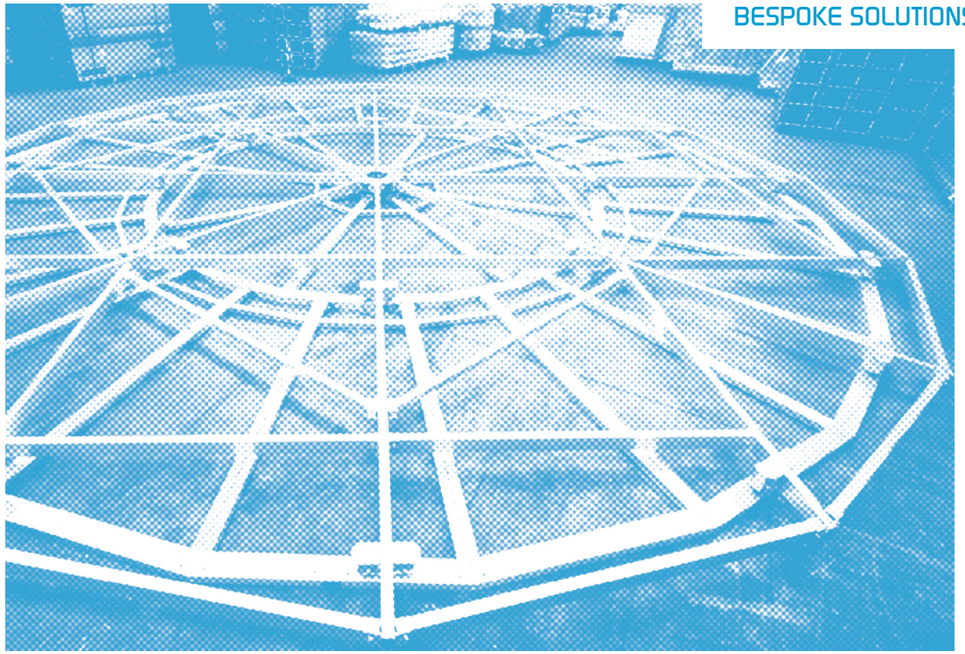
Realization of the frame and support structure of an aluminium bus for "Priscilla, Queen of the Desert". The Musical is produced by MAS, Music, Art & Show, and other producers such as the actress Bette Midler, Allan Scott and James L. Nederlander. The work was commissioned by Teyco srl.

Technical characteristics

the whole bus made in aluminium alloy EN AW-6082 T6

frames of various types and sizes





swivelling platform

This is an example of swiveling platforms made with the collaboration of Teyco srl.
The aluminium platform is meant for circular and rotating stages with modular diameters. It allows the rotation through a motorizing system which was conveniently designed.
It consists of two parts; the lower part is static and the upper one is swivelling. The modular structure is completely dismountable for a total transport volume of 27m^3.

Technical characteristics

external diameter: 10m

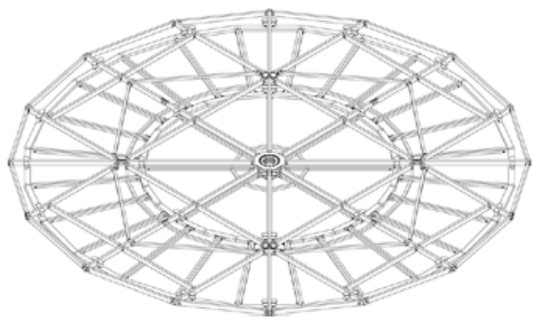
height without stage deck: 25cm

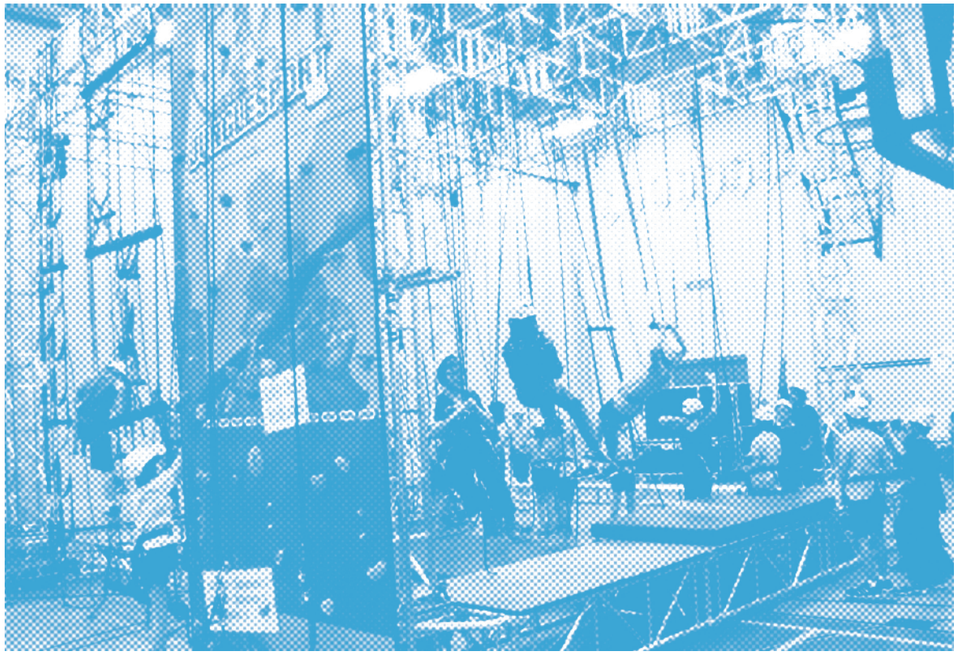
compatible with Stage-deck: 1.04 m x 2.07m

extruded tubes: EN AW-6082 T6

structure self-weight: 1200 kg

load capacity: 4000 kg



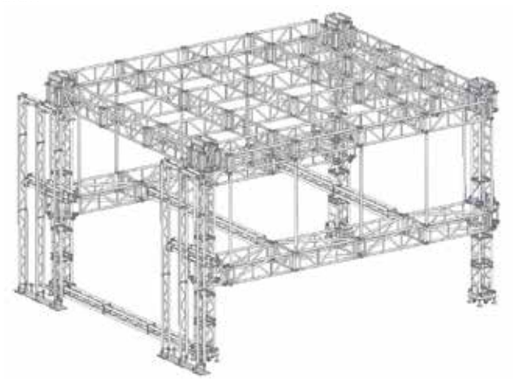


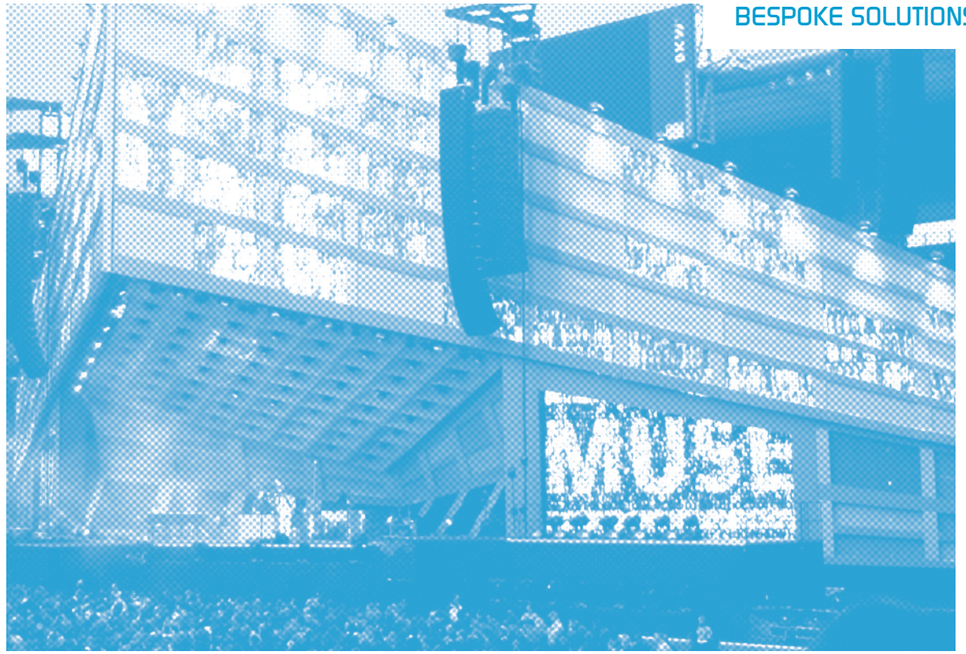
equipped gym centre

An equipped gym centre to all intents and purposes meant for multiple motoric activities in Northern America. It is a mixed configuration of standard LIBERA FL52 trusses and Varitowers 2-40, with the overall dimensions 8.5m x 9.5m x 6m(h), mostly redesigned to meet the very stringent requests of the Canadian customer JungleSport.

It stands out for the most optimal compromise of

- storage of all the components in a minimum transport volume inside a van
- quick assembly and disassembly done by two persons in just two hours
- the finished structure responding to the functional characteristics required
- the highest safety standards met seen the didactic use of the structure



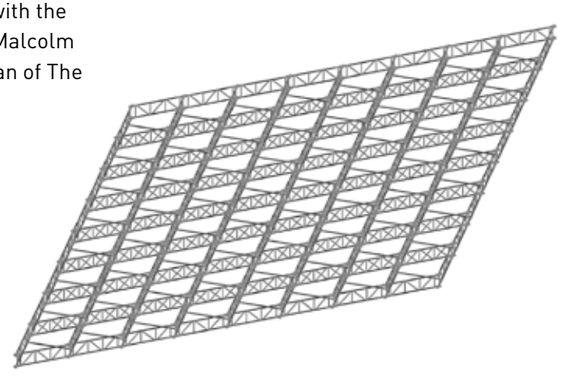


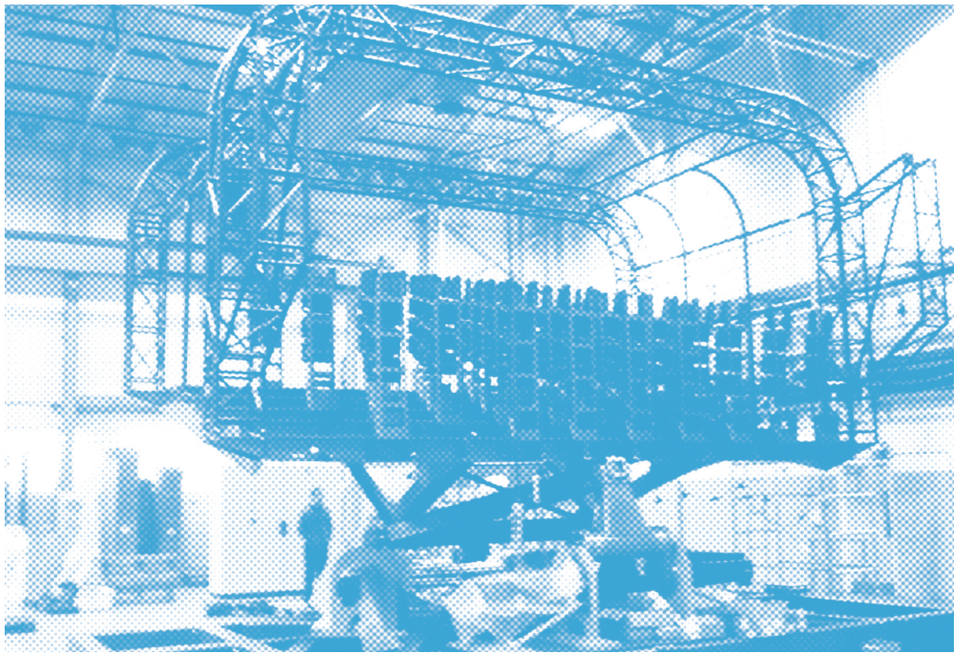
rhombus ceiling

The system was manufactured for the Resistance Tour of the Muse. It consists of a grid with a rhombus-shaped ceiling, instead of a square type, made of customized LIBERA FL52 trusses with flat forks.
The stage was designed by Oli Metcalfe and Es Devlin with the technical production of Malcolm Birkett and Chris Vaughan of The Production Office.

Technical characteristics

- 15m x 15m grid
- rhombus shape
- connections conveniently designed





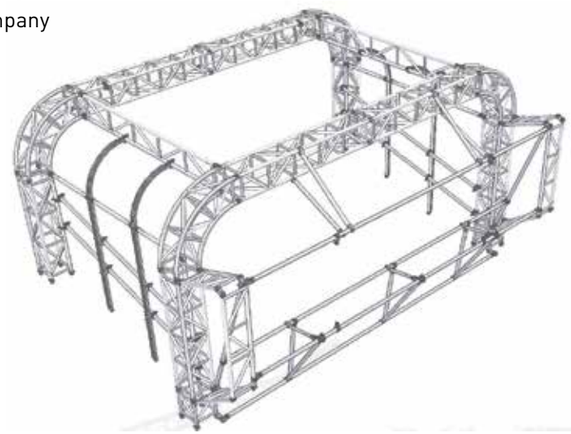
flying board

Construction of a cage, an essential part of a flying board meant for an amusement park. This structure can be considered bespoke for its high quality levels; it was made to withstand dynamic stress.
This project was possible thanks to the collaboration of the company Dynamic Motion Systems.

Technical characteristics

realization of customized trusses of the QL40A series and special connection profiles

high rigidity of the whole system



springboards

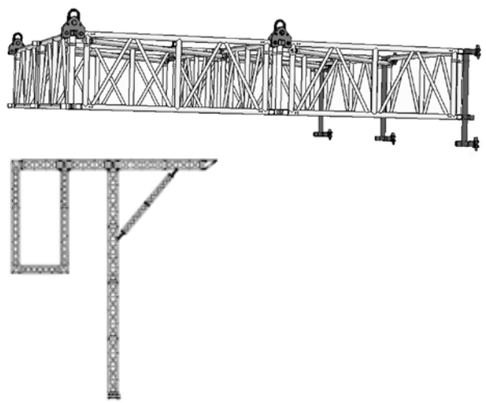
Supply of two special springboards for the events "Flugtag" and "Cliff Diving" of Red Bull. In the first sports event a cantilever structure was made in LIBERA FL76 trusses hooked with steel cables and laid on scaffolding walls.
In the second the trusses QL52A and QX40S were used to build up a 26-metre high trampoline.
The incredible platform, which was mounted on a house balcony, is made of a 5-metre long cantilever structure for diving. The modular structure was easily hand carried for 200 metres.

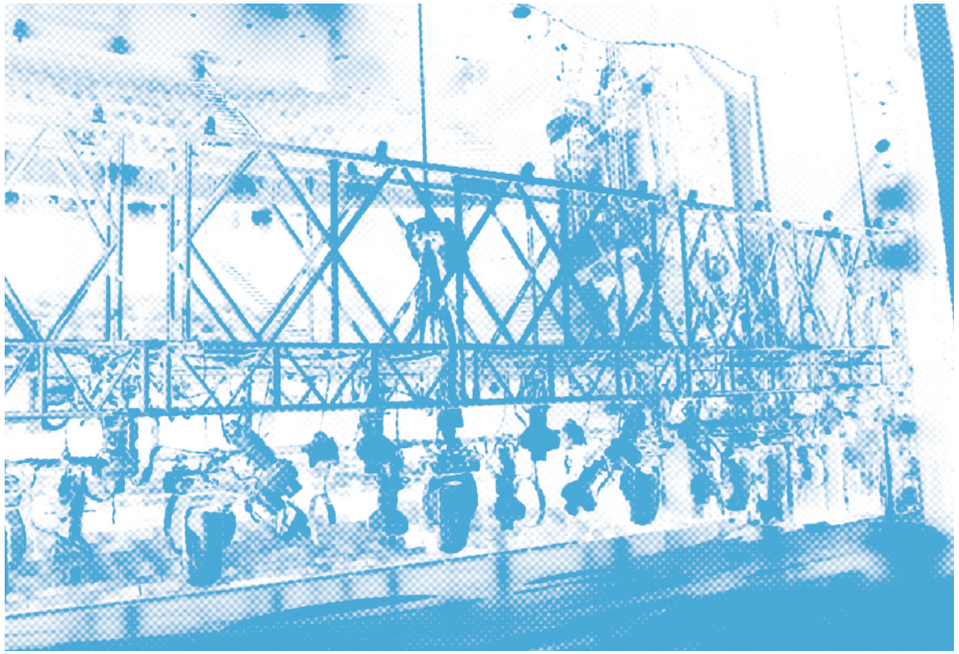
Technical characteristics

cantilever structures

rigidity of the two systems

versatility of all the components





zebra trusses

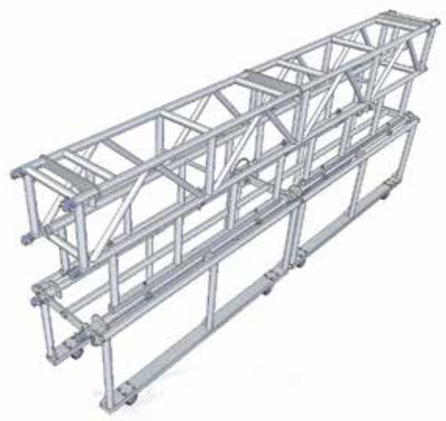
Realization of special trusses for the Lion King Musical, with the collaboration of Peter Lambert Production Services Ltd.
The project required the reinterpretation and readaptation of the original American drawings specifically thought for the British production.
We supplied 6 different truss lines with very strict specifications and shapes for hanging Led walls and lights.

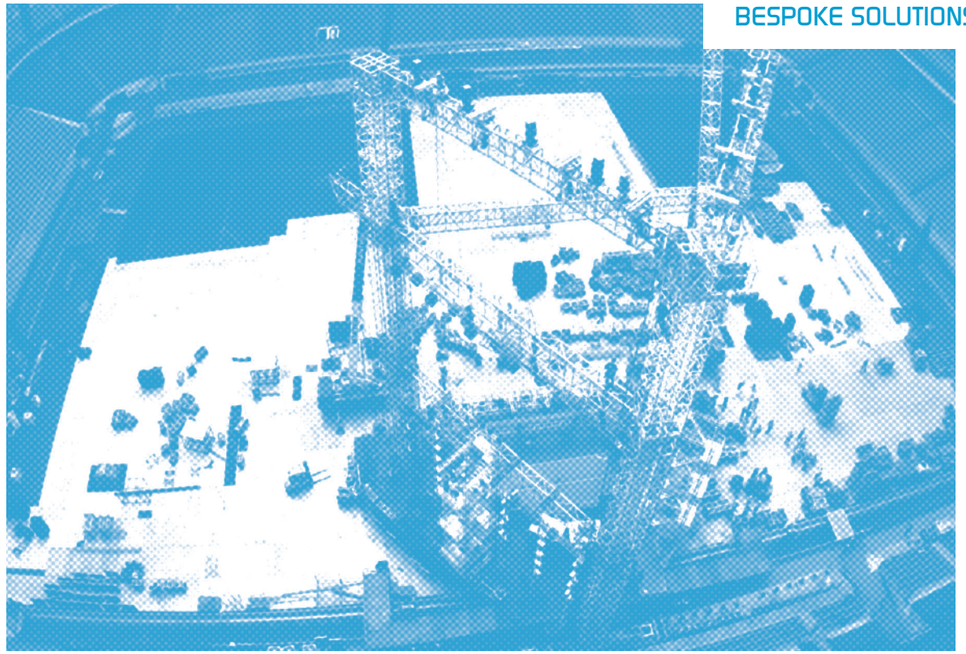
Technical characteristics

6 different lines of trusses, similar to the classic pre-rig trusses, with a 4.5-metre module each

composition of six 14-metre long spans, different from one another

bespoke trusses made with tubular aluminium profiles





"the highest stage in the world"

Design of a prism-shaped stage with a triangular base made in MyT, QL85A, QD30SA and QX30S trusses for Vasco Rossi's Live Kom Tour.
It was not a conventional roof system, but a "naked" structure in order to amaze people for its shape and volume. Audacious technical solutions in height were adopted to create great visual impact.

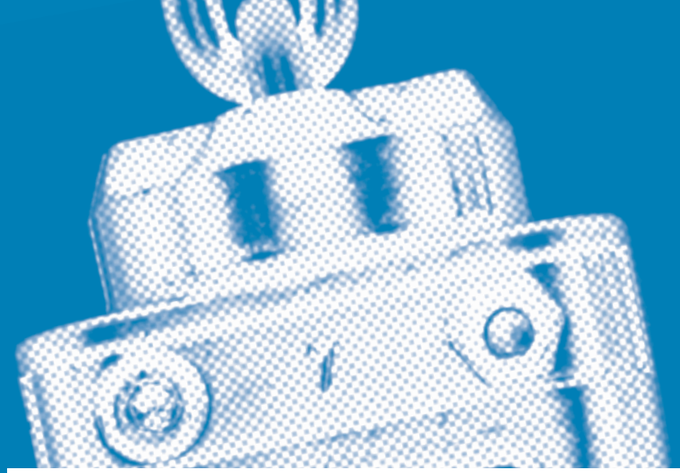
Technical characteristics

3 Towers, each of which consists of 4 square-section columns linked to one another, which rise up to 42m

the trusses that join the towers are set up on 3 levels and are linked with steel sleeve blocks

at the top of the towers several elements are fixed merely for scenic purposes like cranes of a building site, bringing the global height to 54 metres from the ground, the highest height ever reached

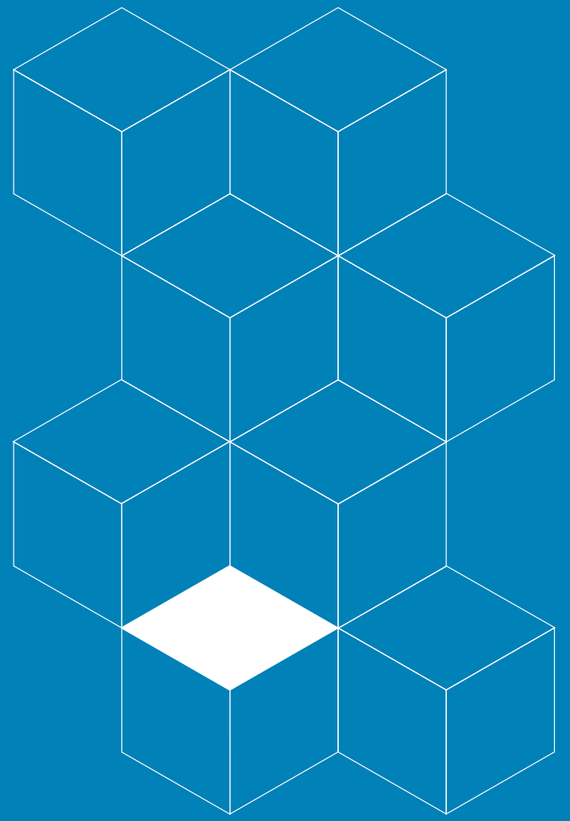
Live event
Photo courtesy of Mister X Service | Event services
Cremona, Italy



CHAIN HOISTS & CONTROLLERS

SAFETY

LITEC proposes a broad range of Rigging products, which follows the highest standards of quality and safety to complement the company's range of aluminium trusses. LITEC offers two lines of Electric Chain Hoists, i.e. EXE Rise and LITEC Hoists, as well as LITEC Drivers as controllers for chain hoists, and a series of fixings and harnesses designed to their exacting standards.
To support such a varied range of key products, LITEC also guarantees a qualified assistance and maintenance service, aimed especially at the management of chain hoists and including a system of scheduled maintenance and repair, carried out exclusively by trained, authorized technicians using original parts.



EXE RISE CHAIN HOISTS

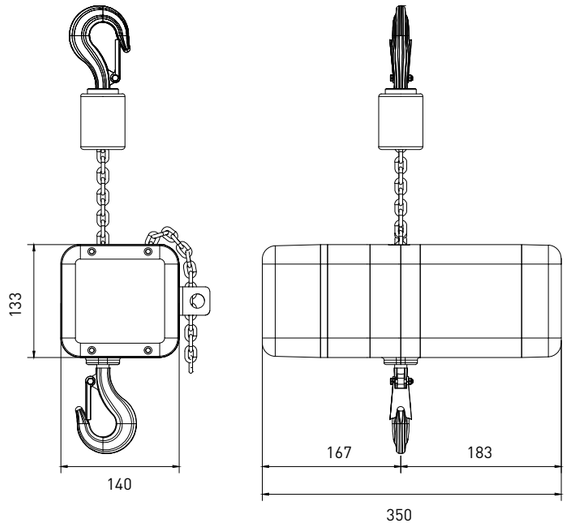
SAFE, PRECISE, MADE IN ITALY

EXE RISE is a 100% Made in Italy Electric chain hoist. Each single component of the main body is manufactured in Italy. Steel chain comes from Germany and complies with the strictest DIN regulations in force about hoisting and lifting in the entertainment industry. EXE RISE is the only hoist in the market 100% compliant with BGV German standards, as written in the VPLT directive SQP2. The two braking systems (which are really independent as they are powered by 2 additional independent cables) are positioned on the motor shaft. This gives the chance to place the clutch system outside the load path. The DC brakes give a real instant response to electrical impulses thanks to an ad-hoc revolutionary component. That's why the EXE RISE hoist is really safe. The 5-pocket load wheel, helical gears with permanent grease lubrication and the round chain guide make the EXE RISE series the most silent of the market.

EXE RISE is available in the BGV D8 320 kg, 620 kg, 1120 kg and 2000 kg versions; and in the BGV D8+ 310 kg, 560 kg and 1000 kg models.

D8 320 kg

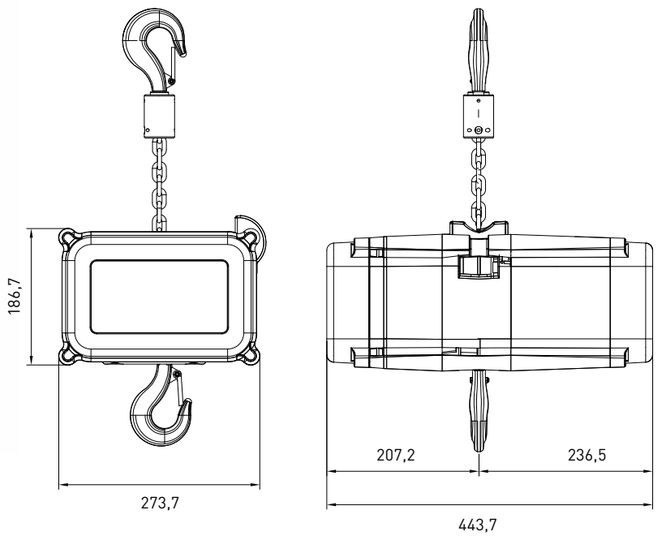
The 320 kg model is compact and strong and represents the perfect lifting solution for fixed installations and the exhibition industry.
It is the ideal product for those who have Line Array compact systems which overcome a self-weight of 250 kg (which is the usual loading capacity compact hoist in the entertainment industry) and are not suitable for the usual compact hoists on the market.



TECHNICAL CHARACTERISTICS D8 320 kg	
Model: D8	Type of control: Direct
Operating voltage: 230/400 V @ 50Hz	Load capacity: 320
Motor power @ 50Hz: 0,5 kW	Lifting speed @ 50Hz: 4m/min
Revolution per minute: 1400	Noise level: 67,5 db (@ full load)
AC brake system: 1	Force limiting friction device
Protection class: IP55 DIN 40050	Load wheel: 5 pocket
FEM class: 1Am	Falls of chain: 1
Connection cable: L = 1 m	Weight of body: 15 kg
Type of connector: CEE 16A - 3PH + G	Upper and lower swivel hook

D8 620 kg

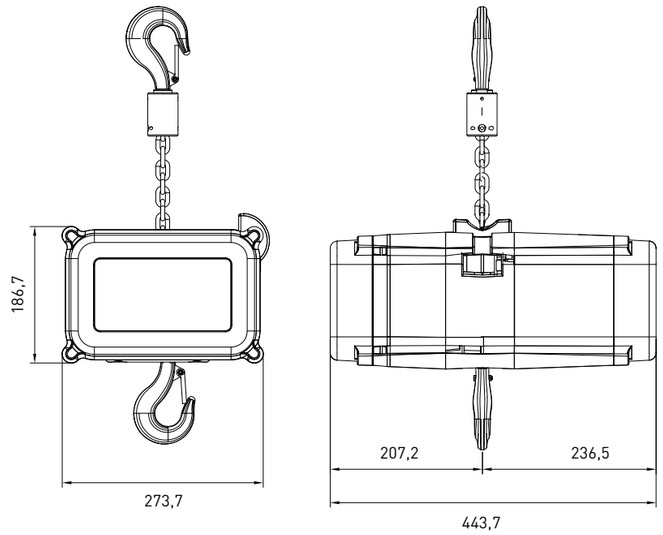
EXE RISE 620 kg represents a worldwide innovation. It deals with a functional step between the compact version and the 1-ton series. The best solution for exhibition and theatre installations.
It may be equipped with limit switches.



TECHNICAL CHARACTERISTICS D8 620 kg	
Model: D8	Type of control: Direct
Operating voltage: 230/400 V @ 50Hz	Load capacity: 620
Motor power @ 50Hz: 0,8 kW	Lifting speed @ 50Hz: 4m/min
Revolution per minute: 1400	Noise level: 67,5 db (@ full load)
DC brake system: 1	Force limiting friction device
Classe di Protezione: IP55 DIN 40050	Load wheel: 7 pocket
FEM class: 1Am	Falls of chain: 1
Connection cable: L = 1 m	Weight of body: 31 kg
Type of connector: CEE 16A - 3PH + G	Upper and lower swivel hook

D8 1120 kg

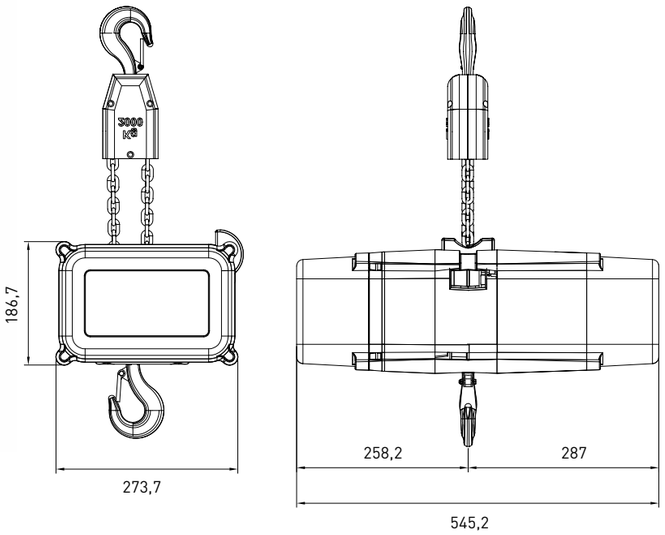
EXE RISE 1120 is the natural further step of the series. The main body is ready to be adapted to limit switch devices and digital components. EXE RISE 1120 can be supplied on request with a simple solution to get a double-reeve hoist (and double loading capacity device).



TECHNICAL CHARACTERISTICS D8 1120 kg	
Model: D8	Type of control: Direct
Operating voltage: 230/400 V @ 50Hz	Load capacity: 1120 kg
Motor power @ 50Hz: 1,0 kW	Lifting speed @ 50Hz: 4m/min
Revolution per minute: 1400	Noise level: 67,5 db (@ full load)
DC brake system: 1	Force limiting friction device
Protection class: IP55 DIN 40050	Load wheel: 5 pocket
FEM class: 1Am	Falls of chain: 1
Connection cable: L = 1 m	Weight of body: 40 kg
Type of connector: CEE 16A - 3PH + G	Upper and lower swivel hook

D8 2000 kg

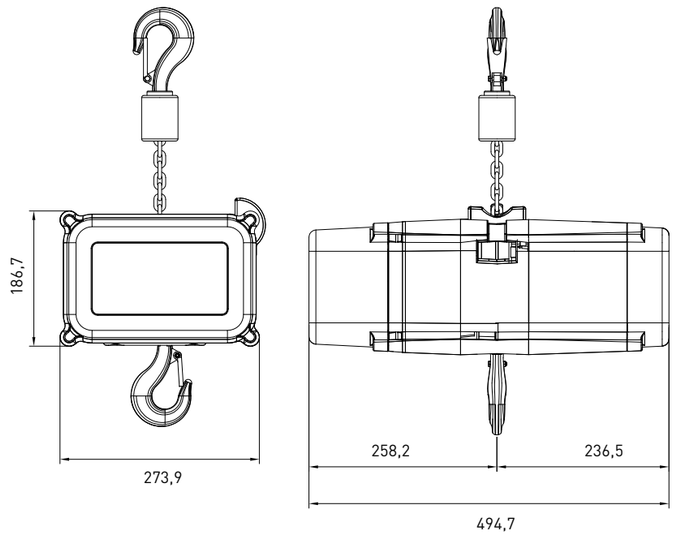
EXE RISE 2000 kg is the only version of the BGV D8 line to be supplied with a standard secondary safety system. It represents the perfect solution for High Load structures and Outdoor events systems.
The main body is ready to be adapted to limit switch devices and digital components.



TECHNICAL CHARACTERISTICS D8 2000 kg	
Model: D8	Type of control: Direct
Operating voltage: 230/400 V @ 50Hz	Load capacity: 2000 kg
Motor power @ 50Hz: 1,6 kW	Lifting speed @ 50Hz: 4m/min
Revolution per minute: 1400	Noise level: 67,5 db (@ full load)
DC brake system: 2	Force limiting friction device
Protection class: IP55 DIN 40050	Load wheel: 5 pocket
FEM class: 1Am	Falls of chain: 2
Connection cable: L = 1 m	Weight of body: 46 kg
Type of connector: CEE 16A - 3PH + G	Upper and lower swivel hook

D8+ 310 kg

EXE RISE is also available in the BGV D8+ 310kg version. The peculiar D8 body with 2 independent braking systems and the clutch outside the load path, allow the basic hoist to upgrade to a D8+ version simply adding the second brake disc and changing the safety factor from 1:5 to 1:10 (dividing the rated load by 2). As a result, the hoist is safe, effective and competitive, price wise.

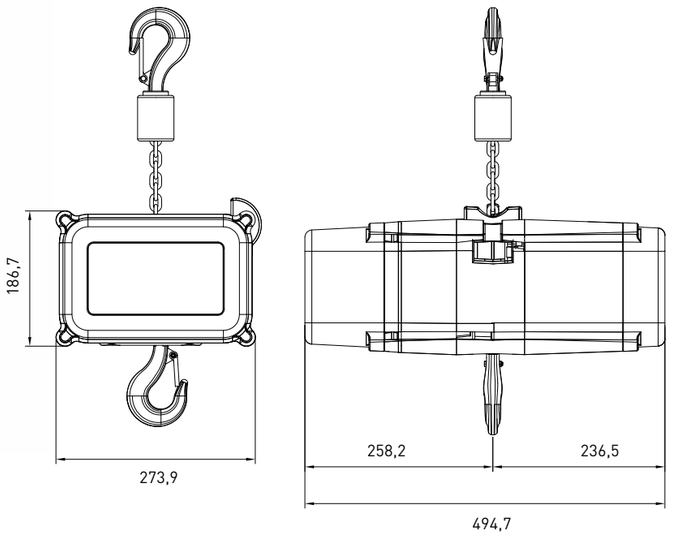


TECHNICAL CHARACTERISTICS D8+ 310 kg

Model: D8+	Type of control: Direct
Operating voltage: 230/400 V @ 50Hz	Load capacity: 310
Motor power @ 50Hz: 0,8 kW	Lifting speed @ 50Hz: 4m/min
Revolution per minute: 1400	Noise level: 67,5 db (@ full load)
DC brake system: 2	Force limiting friction device
Protection class: IP55 DIN 40050	Load wheel: 7 pocket
FEM class: 1Am	Falls of chain: 1
Connection cable: L = 1 m	Weight of body: 31 kg
Type of connector: CEE 16A - 3PH + G	Upper and lower swivel hook

D8+ 560 kg

EXE RISE is also available in the BGV D8+ 560kg version. The peculiar D8 body with 2 independent braking systems and the clutch outside the load path, allow the basic hoist to upgrade to a D8+ version simply adding the second brake disc and changing the safety factor from 1:5 to 1:10 (dividing the rated load by 2). As a result, the hoist is safe, effective and competitive, price wise.

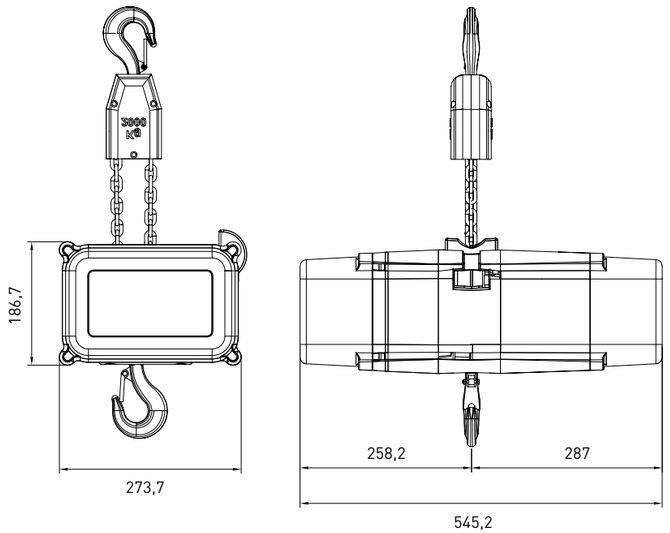


TECHNICAL CHARACTERISTICS D8+ 560 kg

Model: D8+	Type of control: Direct
Operating voltage: 230/400 V @ 50Hz	Load capacity: 560
Motor power @ 50Hz: 1,0 kW	Lifting speed @ 50Hz: 4m/min
Revolution per minute: 1400	Noise level: 67,5 db (@ full load)
DC brake system: 2	Force limiting friction device
Protection class: IP55 DIN 40050	Load wheel: 5 pocket
FEM class: 1Am	Falls of chain: 1
Connection cable: L = 1 m	Weight of body: 42 kg
Type of connector: CEE 16A - 3PH + G	Upper and lower swivel hook

D8+ 1000 kg

EXE RISE is also available in the BGV D8+ 1000kg version. The peculiar D8 body with 2 independent braking systems and the clutch outside the load path, allow the basic hoist to upgrade to a D8+ version simply adding the second brake disc and changing the safety factor from 1:5 to 1:10 (dividing the rated load by 2). As a result, the hoist is safe, effective and competitive, price wise.



TECHNICAL CHARACTERISTICS D8+ 1000 kg	
Model: D8+	Type of control: Direct
Operating voltage: 230/400 V @ 50Hz	Load capacity: 1000
Motor power @ 50Hz: 1,6 kW	Lifting speed @ 50Hz: 4m/min
Revolution per minute: 1400	Noise level: 67,5 db (@ full load)
DC brake system: 2	Force limiting friction device
Protection class: IP55 DIN 40050	Load wheel: 5 pocket
FEM class: 1Am	Falls of chain: 2
Connection cable: L = 1 m	Weight of body: 42 kg
Type of connector: CEE 16A - 3PH + G	Upper and lower swivel hook

EXE-RISE CHAIN HOISTS	MODEL D8	
LT XRH032D8	"EXE RISE" 320 kg single fall/**single** brake	D8 - 4 meters/min.
LT XRH032DB	"EXE RISE" 320 kg single fall/**double** brake	D8 - 4 meters/min.
LT XRH062D8	"EXE RISE" 620 kg single fall/**single** brake	D8 - 4 meters/min.
LT XRH062DB	"EXE RISE" 620 kg single fall/**double** brake	D8 - 4 meters/min.
LT XRH112D8	"EXE RISE" 1120 kg single fall/**single** brake	D8 - 4 meters/min.
LT XRH112DB	"EXE RISE" 1120 kg single fall/**double** brake	D8 - 4 meters/min.
LT XRH200D8	"EXE RISE" 2000 kg double fall/**double** brake	D8 - 4 meters/min.
	MODEL D8+	
LT XRH031D8+	"EXE RISE" 310 KG. single fall/**double** brake	D8+ - 4 meters/min.
LT XRH056D8+	"EXE RISE" 560 KG. single fall/**double** brake	D8+ - 4 meters/min.
LT XRH100D8+	"EXE RISE" 1000 KG. double fall/**double** brake	D8+ - 4 meters/min.

LITEC HOISTS

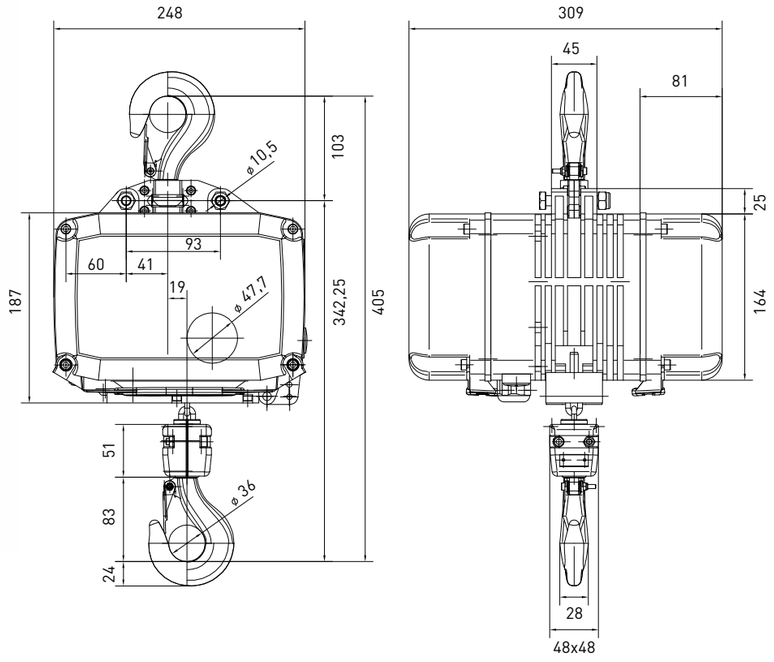
SAFETY WITHOUT COMPROMISE

These chain hoists are purpose-designed for theatre and entertainment sector applications. Light and compact, they distinguish themselves for their silence while working and their reliability.
For functional reasons, the slip clutch is installed in front of the brake system and integrated into the rotor shaft. It protects the hoist from overload and takes on the function of an emergency end stop for the highest and lowest hook positions. The hook suspension is standard. The chain hoists are equipped with fast stop contactor, the D8+ hoists are also furnished with double brake, and feature upright and inverted use. They are in IP65 class protection (dust tight and protected against water jets).
These hoists are based on BGV D8/GUV-V D8 "Winches, lifting and pulling devices "for use as a chain hoist for lifting loads in construction". They comply with the following regulations: DIN EN 14492-2 - DIN 15400 (load hook) - FEM calculation regulations for series lifting equipment (chain drive, motor, full load-life span) - ISO 4301:1:D (M3) = 400 h
LITEC Hoists are available in the following BGV D8 versions: 250kg, 500kg, 1000kg, 2000kg and 2500kg loading capacity, and in the following BGV D8+ versions: 500kg and 1000kg loading capacity.

D8 250 kg

The smallest chain hoist of the series is suitable for permanent installations and exhibitions sector applications. The 6-pocket load wheel allows the motor to run in a smooth way.

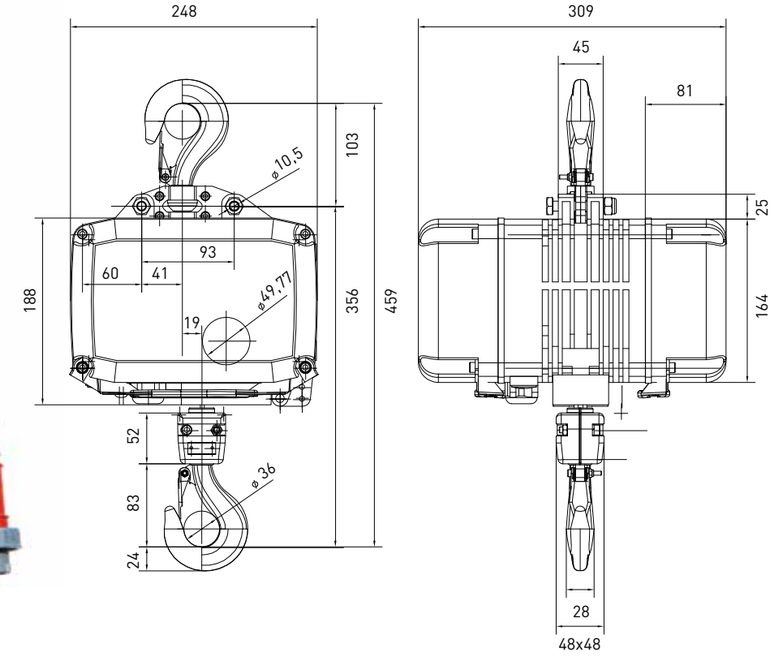
It is equipped with fast stop contactor and features upright and inverted use. It is in IP65 class protection (dust tight and protected against water jets).



TECHNICAL CHARACTERISTICS D8 250 kg	Protection class: IP65
Voltage: 3 x 400V, 50Hz	Black swivel hook suspension
Motor power: 0.18 kW	Wearing plate
Lifting capacity: 250kg	Two soft handles
Lifting speed: 4 m/min	Connection cable L=100cm e CEE 16A 3P+T 6H
Classification: ISO4301-1: 3 (FEM: 1Bm; duty: 25%, 150s/h)	Chain box and bracket with carabiner
Casing and cover black	Fast stop contact relay
Equipped with black finish chain, black lower hook, chain stop	Weight: 19 kg
Slip clutch before brake	Dimensions (mm): A=246 B=309 C=164

D8 500 kg

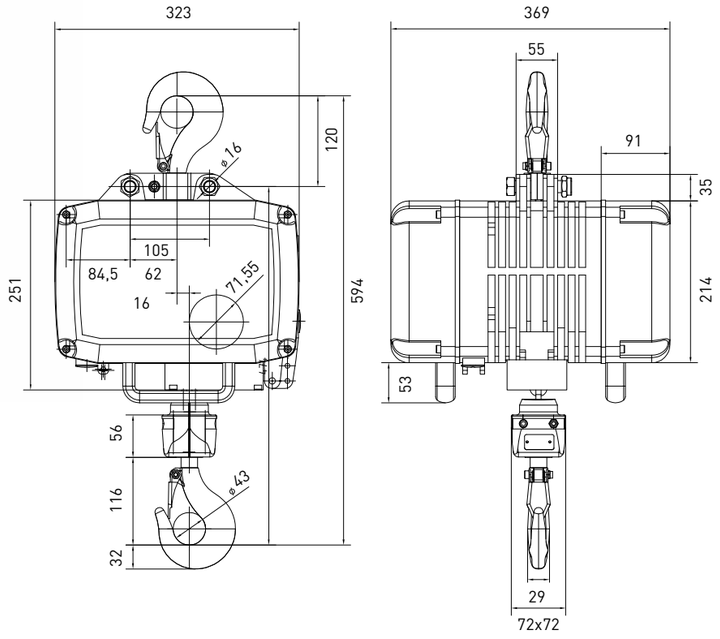
Light and compact, this chain hoist weighs only 20kg.
It is ideal for theatre and exhibition applications.
It is furnished with an external chain wheel as an additional protection in order to avoid motor damage in case of twisting of chain.



TECHNICAL CHARACTERISTICS D8 500 kg	Protection class: IP65
Voltage: 3 x 400V, 50Hz	Black swivel hook suspension
Motor power: 0.36 kW	Wearing plate
Lifting capacity: 500kg	Two soft handles
Lifting speed: 4 m/min	Connection cable L=100cm / CEE 16A 3P+T 6H
Classification: ISO4301-1: M3 (FEM: 1Bm; duty: 25%, 150s/h)	Chain box and bracket with carabiner
Casing and cover black	Fast stop contact relay
Equipped with black finish chain, black lower hook, chain stop	Weight: 20 kg
Slip clutch before brake	Dimensions (mm): A=246 B=309 C=164

D8 1000 kg

It is ideal for the setting up of events (concerts, shows, conferences, meetings, exhibitions, presentations, demonstrations, film and TV applications). Maximum safety is always guaranteed. The slip clutch is installed in front of the brake system, and its wear has no consequences on load integrity.

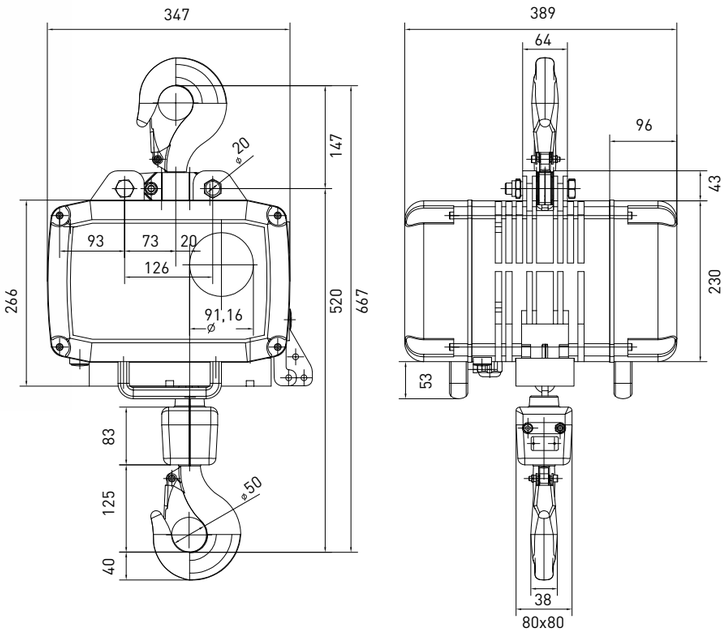


TECHNICAL CHARACTERISTICS D8 1000 kg
Voltage: 3 x 400V, 50Hz
Motor power: 0.73 kW
Lifting capacity: 1000kg
Lifting speed: 4 m/min
Classification: ISO4301-1: M3 (FEM: 1Bm; duty: 25%, 150s/h)
Casing and cover black
Equipped with black finish chain, black lower hook, chain stop
Slip clutch before brake

Protection class: IP65
Black swivel hook suspension
Wearing plate
Two hard handles
Connection cable L=100cm / CEE 16A 3P+T 6H
Chain box and bracket with carabiner
Fast stop contact relay
Weight: 45 kg
Dimensions (mm): A=321 B=367 C=214

D8 2000 kg

It represents the perfect solution for High Load structures and outdoor events systems. The 5-pocket load wheel is made in hardened steel GGG60 and allows a smooth and silent run. Many options are available to comply with the most stringent standards: double brakes, standard and maximum limit switches, load sensors, brake monitoring and position encoders. Double brake may be controlled independently.

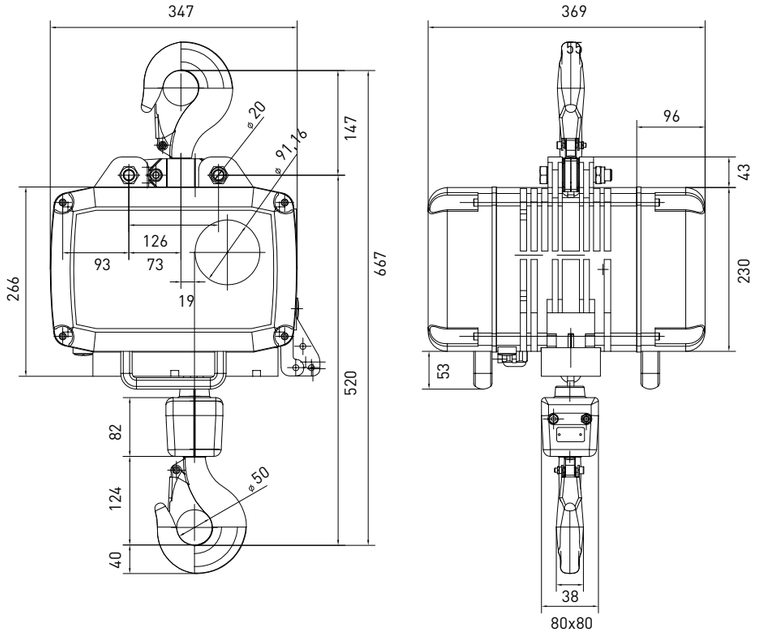


TECHNICAL CHARACTERISTICS D8 2000 kg
Voltage: 3 x 400V, 50Hz
Motor power: 1.53 kW
Lifting capacity: 2000kg
Lifting speed: 4 m/min
Classification: ISO4301-1: M3 (FEM: 1Bm; duty: 25%, 150s/h)
Casing and cover black
Equipped with black finish chain, black lower hook, chain stop
Slip clutch before brake

Protection class: IP65
Black swivel hook suspension
Wearing plate
Two hard handles
Connection cable L=100cm / CEE 16A 3P+T 6H
Chain box and bracket with carabiner
Fast stop contact relay
Weight: 65 kg
Dimensions (mm): A=345 B=389 C=230

D8 2500 kg

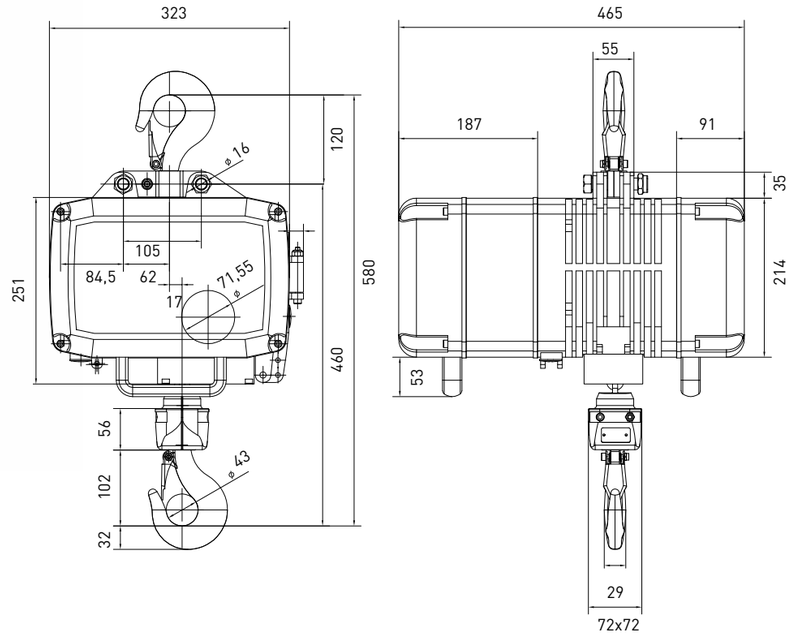
It is ideal for lifting High Load structures.
Easy maintenance is guaranteed during the whole life cycle. The slip clutch is installed in front of the brake system and integrated into the rotor shaft. In case of problems with the clutch, the load is not compromised, as many standards require.



TECHNICAL CHARACTERISTICS D8 2500 kg	
Voltage: 3 x 400V, 50Hz	Protection class: IP65
Motor power: 1.55 kW	Black swivel hook suspension
Lifting capacity: 2500kg	Wearing plate
Lifting speed: 3.2 m/min	Two hard handles
Classification: ISO4301-1: M3 (FEM: 1Bm; duty: 25%, 150s/h)	Connection cable L=100cm / CEE 16A 3P+T 6H
Casing and cover black	Chain box and bracket with carabiner
Equipped with black finish chain, black lower hook, chain stop	Fast stop contact relay
Slip clutch before brake	Weight: 65 kg
	Dimensions (mm): A=345 B=389 C=230 mm

D8+ 500 kg

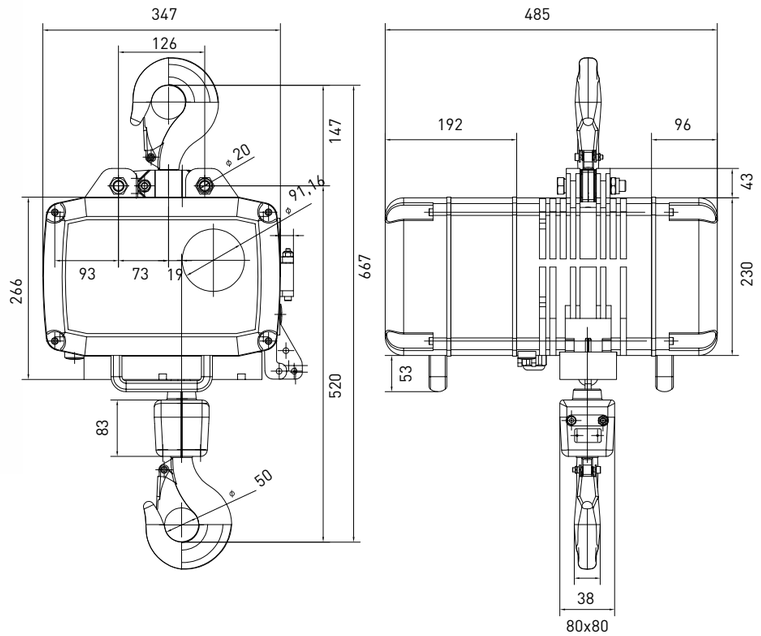
D8+ or D8PLUS is a safety condition a chain hoist must achieve so that it can hold a load suspended over people´s heads. Attainment of this condition depends on certain mechanical and safety requirements, such as the use of two distinct braking units; achievement of a mechanical safety coefficient of 10:1; automatic motor stoppage in the event of overloading. The chain thus obtained has a double safety level in respect with the D8 1000 kg model.



TECHNICAL CHARACTERISTICS D8+ 500 kg	
Voltage: 3 x 400V, 50Hz	Black swivel hook suspension
Motor power: 0.73 kW	Wearing plate
Lifting capacity: 500kg	Two hard handles
Lifting speed: 4 m/min	Connection cable L=100cm / CEE 16A 3P+T 6H
Classification: ISO4301-1: M6 (FEM: 3m; duty: 50%, 300s/h)	Chain box and bracket with carabiner
Casing and cover black	Fast stop contact relay
Equipped with black finish chain, black lower hook, chain stop	Doppio freno
Slip clutch before brake	Weight: 45 kg
Protection class: IP65	Dimensions (mm): A=321 B=367 C=214

D8+ 1000 kg

The LITEC Hoists series is also available in the BGV D8+ 1000kg version. This chain hoist has a double safety level with respect with the standard D8 version and has the possibility of some optional devices like load sensors and position encoders.



TECHNICAL CHARACTERISTICS D8+ 1000 kg	
Voltage: 3 x 400V, 50Hz	Black swivel hook suspension
Motor power: 0.77 kW	Wearing plate
Lifting capacity: 1000kg	Two hard handles
Lifting speed: 4 m/min	Connection cable L=100cm / CEE 16A 3P+T 6H
Classification: ISO4301-1: M5 (FEM: 2m; duty: 40%, 240s/h)	Chain box and bracket with carabiner
Casing and cover black	Fast stop contact relay
Equipped with black finish chain, black lower hook, chain stop	Doppi freno
Slip clutch before brake	Weight: 65 kg
Protection class: IP65	Dimensions (mm): A=345 B=389 C=230

LITEC HOISTS

Code	Description
LT LH025D8-	LCH 250 kg single raise & brake - D8 - 4 meters/min.
LT LH050D8-	LCH 500 kg single raise & brake - D8 - 4 meters/min.
LT LH100D8-	LCH 1000 kg single raise & brake - D8 - 4 meters/min.
LT LH200D8-	LCH 2000 kg single raise & brake - D8 - 4 meters/min.
LT LH250D8-	LCH 2500 kg single raise & brake - D8 - 4 meters/min.
LT LH050D8+	LCH 500 kg single raise/double brake - D8+ - 4 meters/min.
LT LH100D8+	LCH 1000 kg single raise/double brake - D8+ - 4 meters/min.

CHAIN

Code	Description
LT LHC025-01M	1m BLACK CHAIN 250kg 4x12,3mm
LT LHC050-01M	1m BLACK CHAIN 500kg 5x15,3mm
LT LHC100-01M	1m BLACK CHAIN 1000kg 7x22mm
LT LHC200-01M	1m BLACK CHAIN 2-2,5t 10x28mm

CHAIN BAG

Code	Description
LT LHBKXS	BAG KIT "XS"
LT LHBKS	BAG KIT "S"
LT LHBKM	BAG KIT "M"
LT LHBKL	BAG KIT "L"
LT LHBKX	BAG KIT "XL"

FLIGHT CASE

Code	Description
LT LHFC-01	FLIGHT CASE for 2 LH025/050 D8
LT LHFC-02	FLIGHT CASE for 1 LH100/250 D8

RAIN COVER

Code	Description
LT LHCOVER-01	RAIN COVER BLACK LH025/050
LT LHCOVER-02	RAIN COVER BLACK LH100
LT LHCOVER-03	RAIN COVER BLACK LH200/250

LITEC DRIVERS

COMFORTABLE, QUICK, AND SAFE

All LITEC Drivers have been thought to meet all peculiar and specific needs of the entertainment sector. They are comfortable, quick and easy to use and, above all, safe.
The range features hanging 1 and 2-Channel direct control keypads, and 4 and 8- Channel controllers in 2 and 4-rack-unit chassis. They are furnished with a mobile plug with mechanical phase inverter to manage any 3-phase direct/inverse sequence supply. They are compatible with LITEC and EXE Rise chain hoists, and with most chain hoists present on the market from 0.19kW to 1.6kW.

They conform to
- Machinery Directive 2006/42/EC
- Low Voltage Directive 2006/95/EC
and are in accordance with the harmonized standards EN 12100-1:2004, EN 12100-2:2004, EN60204-1:2007, EN60204-32:2009, EN349:1994.

SAFETY MEASURES
PRESENT INSIDE LITEC DRIVERS

Each non-manual control unit has a MCB & RCD BREAKER before the power circuit that guarantees for every equipment and a protection against overload and short circuit. In addition to this feature, the DL8-4 series controllers have a release coil operated directly by the Emergency Stop mushroom button, which allows the general power switch to act immediately. In the case of DL models, the real coil's function is also extended to the emergency buttons of all control units linked as slaves. The models DL are provided with individual magneto-thermic protections for each channel.

Overload protection and motor overload switches have three basic characteristics:

❶ Their intervention limit can be individually set by turning the graduated nut on the front, allowing the motor hoist to be checked and protected from excessive wear by preventing the malfunction that can be caused by breakages or overloads.

❷ Overload protectors must all be inserted for the GO function of the control units to work –if even a single protector is not inserted, the equipment cannot work. If a motor protector is triggered during operation of the control unit, the equipment stops.

❸ When a system of "n" DL-model controls is in operation, any intervention of the overload protector will simultaneously interrupt the work of all chain hoists linked together, ensuring the safety of the whole system.

TECHNICAL SPECIFICATIONS DH1

Hanging 1-Channel direct control keypad
Power Supply: 1 mobile plug CEE 230/400VAC 16A 6H 3P+N+T IP44 with mechanical phase inverter
Outputs: 1 x CEE 400VAC 16A 6H 3P+T IP67 flying plug
Rated operational current per output: 10A in AC3 – AC4
Weight: 2.10Kg / Dimensions: 200x85x75.4mm
Ambient Temperature – Storage: -40°C/+70°C
Ambient Temperature – Operation: -25°C/+70°C

DH1 3-PHASE LITEC DRIVER KEYPAD

Double-isolated yellow keypad in polyester preimpregnated fiberglass

- 1 x Emergency Stop mushroom button
- 2 x mechanical interlock UP-DOWN switches for channel 1 (requires operator to be present)
- Compatible with most chain hoists available on the market.

TECHNICAL SPECIFICATIONS DH2

Hanging 2-Channel direct control keypad
Power Supply: 1 mobile plug CEE 230/400VAC 16A 6H 3P+N+T IP44 with mechanical phase inverter
Outputs: 2 x CEE 400VAC 16A 6H 3P+T IP67 flying plug
Rated operational current per output: 5A in AC3 – AC4
Weight: 3.7Kg / Dimensions: 310x98x76mm
Ambient Temperature – Storage: -40°C/+70°C
Ambient Temperature – Operation: -25°C/+70°C

DH2 2-CHANNEL DIRECT CONTROL KEYPAD

Double-isolated yellow keypad in polyester preimpregnated fiberglass

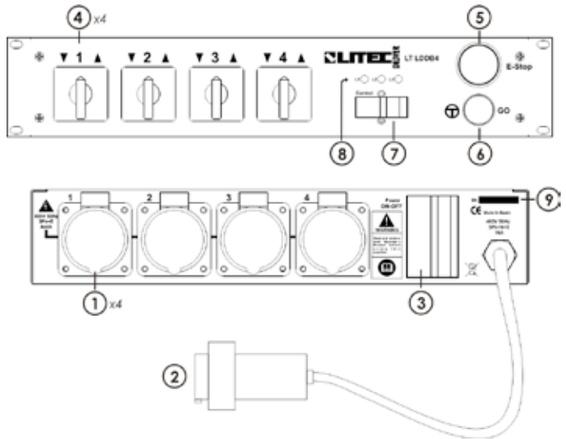
- 1 x Emergency Stop mushroom button
- 2 x mechanical interlock UP-DOWN switches for channel 1 (requires operator to be present)
- 2 x mechanical interlock UP-DOWN switches for channel 2 (requires operator to be present)
- Compatible with most chain hoists available on the market.

D B4 4-CHANNEL BASIC CONTROLLER 2 RACK UNITS

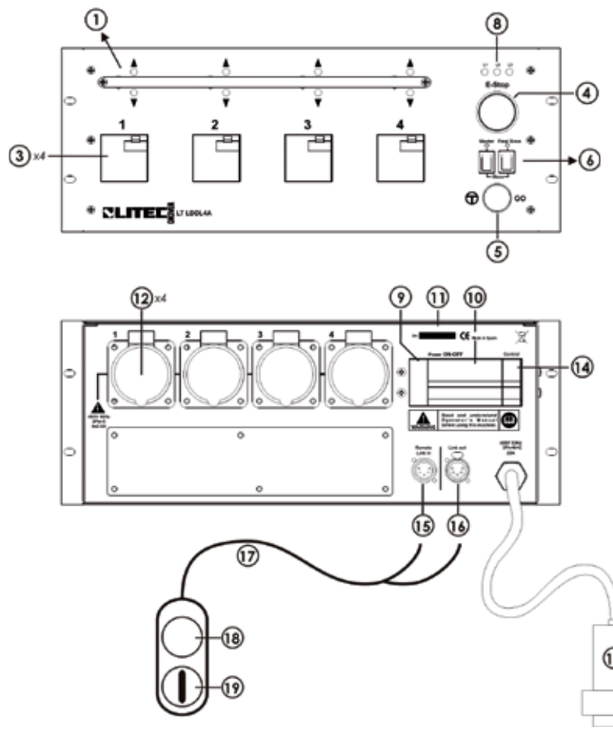
It has been designed and manufactured to manage separately or simultaneously from 1 up to 4 direct control motors with compatible electric features.
It is provided with:

- MCB & RCD Breaker (30mA)
- LED light indicates presence of line tension
- Magneto-thermic command circuit switch
- Emergency Stop mushroom button
- GO button (requires operator to be present)
- 4 x 3-position direction changers (UP-OFF-DOWN)
- Protection General Contactor
- Front panel: 2 rack units

TECHNICAL SPECIFICATIONS DB4
Power Supply: 1 mobile plug CEE 230/400VAC 32A 6H 3P+N+T with mechanical phase inverter
Outputs: 4 x CEE 400VAC 16A 6H 3P+T panel sockets
Rated operational current per output: 4A in AC3-AC4
Weight: 10 kg
Dimensions: 482x95x410 mm
Temperature range: 0°-45°
Humidity: Max 70%
Altitude: Up to 2500m above sea level



TECHNICAL SPECIFICATIONS DL4-A-B-C	
Power Supply: 1 mobile plug CEE 230/400VAC 32A 6H 3P+N+T with mechanical phase inverter	
Outputs: 4 x CEE 400VAC 16A 6H 3P+T panel sockets	
Rated operational current per output:	2.5A for mod.A AC3-AC4 4A for mod. B AC3-AC4 6A for mod.C AC3-AC4
Weight: 14 kg	
Dimensions: 482x184x410 mm	
Temperature range:0°-45°	
Humidity: Max 70%	
Altitude: Up to 2500m above sea level	



MULTILINK CONTROLLER

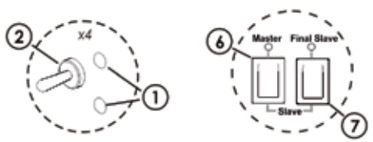
D L4-A 4 channel multilink / 4 rack units with 1.6A–2.5A Motor Protective Circuit Breaker

D L4-B 4 channel multilink / 4 rack units with 2.5A-4.0A Motor Protective Circuit Breaker

D L4-C 4 channel multilink / 4 rack units with 4.0A-6.3A Motor Protective Circuit Breaker

The LT LDDL4 controllers have been designed and constructed to control from 1 up to 4 electrically compatible motors, either separately or simultaneously, using direct tension feed; as well as having the capacity to run Master or Slave set ups linking additional compatible LT LDDL4 or L8 units, thus controlling a larger number of hoists. Particular attention to safety has been applied within the product design, for example the provision of the break coil in every unit, to cut the power supply in the event of a breakdown or adverse operating conditions. They are provided with:

- MCB & RCD Breaker (30mA)
- General switch release coil
- Protection General Contactor
- LED light indicates presence of line tension
- Emergency Stop mushroom button
- GO button (requires operator to be present)
- 2 position Master Mode selectors:
  Master mode – Slave mode
- 2 position Slave Mode selectors:
  Final Slave mode – Middle Slave mode
- 4 x 3-position channel switches (UP-OFF-DOWN)
- 8 x green LED lights indicating channel UP-DOWN preselection
- 4 x independently regulated motor overload protection
- Type L4A: 1.6A - 2.5A
- Type L4B: 2.5A – 4.0A
- Type L4C: 4.0A – 6.3A
- XLR 5-pole OUT Link panel socket
- XLR 3-pole IN Link panel socket
- Protection General Contactor



MULTILINK CONTROLLER

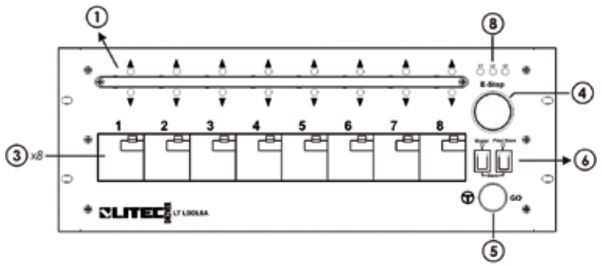
DL8-A 8 channel multilink – 4 rack units with 1.6A–2.5A Motor Protective Circuit Breaker

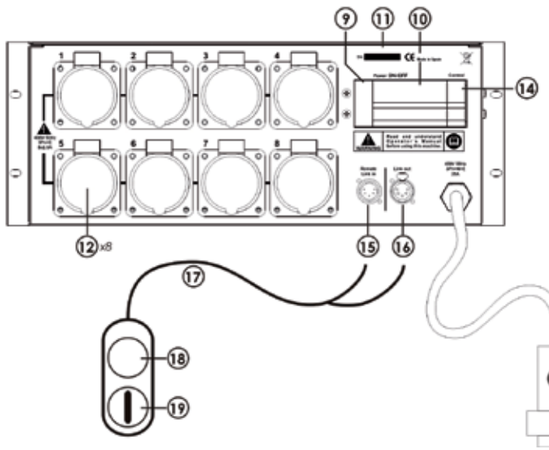
DL8-B 8 channel multilink – 4 rack units with 2.5A-4.0A Motor Protective Circuit Breaker

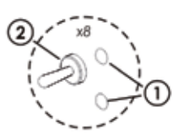
The LT LDDL8 controllers have been designed and constructed to control from 1 up to 4 electrically compatible motors, either separately or simultaneously, using direct tension feed; as well as having the capacity to run Master or Slave set ups linking additional compatible LT LDDL4 or L8 units, thus controlling a larger number of hoists.
Particular attention to safety has been applied within the product design, for example the provision of the break coil in every unit, to cut the power supply in the event of a breakdown or adverse operating conditions.
They are provided with:

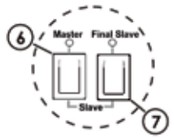
- MCB & RCD Breaker (30mA)
- General switch release coil
- LED light indicates presence of line tension
- Emergency Stop mushroom button
- GO button (requires operator to be present)
- 2 position Master Mode selectors:
  Master mode – Slave mode
- 2 position Slave Mode selectors:
  Final Slave mode – Middle Slave mode
- 8 x 3-position channel switches (UP-OFF-DOWN)
- 16 x green LED lights indicating channel UP-DOWN preselection
- 8 x independently regulated motor overload protection
- Type L8A: 1.6A - 2.5A
- Type L8B: 2.5A – 4.0A
- XLR 5-pole OUT Link panel socket
- XLR 3-pole IN Link panel socket
- Protection General Contactor

TECHNICAL SPECIFICATIONS DL8-A-B
Power Supply: 1 mobile plug CEE 230/400VAC 32A 6H 3P+N+T with mechanical phase inverter
Outputs: 8 x CEE 400VAC 16A 6H 3P+T panel sockets
Rated operational current per output: 2.5A for mod.A AC3-AC4 4A for mod. B AC3-AC4
Weight: 17 kg
Dimensions: 482x184x410 mm
Temperature range: 0°-45°
Humidity: Max 70%
Altitude: Up to 2500m above sea level









LITEC DRIVERS

Code	Controller description	Hoist Control	Motor Cutout Fuse Ampere Rating	Max rated operational current per output
LDDH1	1 channel direct controller	DC	-	10A
LDDH2	2 channel direct controller	DC	-	5A
LDDB4	4 channel basic controller	DC	-	4A
LDDL4-A	4 channel multilink controller	DC	1.6/2.5	2,5A
LDDL4-B	4 channel multilink controller	DC	2.5/4.0	4A
LDDL4-C	4 channel multilink controller	DC	4.0/6.3	6A
LDDL8-A	8 channel multilink controller	DC	1.6/2.5	2,5A
LDDL8-B	8 channel multilink controller	DC	2.5/4.0	4A

Code	Weight	Dimensions mm	Linkable	Thermal-magnetic residual current circuit breaker	Cut-off solenoid	Plug with phase inverter
LDDH1	2.1 kg	200x85x75.4	-	-	-	yes
LDDH2	3.7 kg	310x98x76	-	-	-	yes
LDDB4	10.0 kg	482x95x410	-	yes	-	yes
LDDL4-A	14.0 kg	482x184x410	yes	yes	yes	yes
LDDL4-B	14.0 kg	482x184x410	yes	yes	yes	yes
LDDL4-C	14.0 kg	482x184x410	yes	yes	yes	yes
LDDL8-A	17.0 kg	482x184x410	yes	yes	yes	yes
LDDL8-B	17.0 kg	482x184x410	yes	yes	yes	yes

RIGGING HARDWARE

THE HIGHEST STANDARDS OF QUALITY AND SAFETY

LITEC offers a vast range of rigging accessories for lifting, fixing and anchoring structures, supplying the best-suited products for installations.

STEEL WIRE ROPES

216-wire metal core ropes with end eyes, oversized thimbles and conical ferrules.
Available with 1 or 2-ton SWL/WLL* capacities.
Colour coded thimbles to facilitate a length identification and overdimensioned – 16mm wire – to permit an easy introduction of a 4.75 ton shackle.

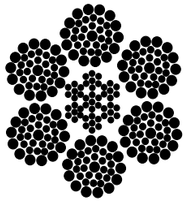
- 2Thimbles two-sizes bigger than the rope
- Talurit-type conical ferrules
- Metal core
- Ferrules are marked with the lot reference number, capacity and rope diameter.

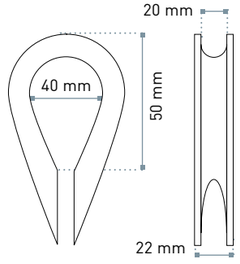
TECNICAL SPECIFICATION	RGSW
2 models	1 or 2 tons
2 versions	pure rope or rope sheath
9 sizes	from 0.75 to 12 metres
Safety factor:	5:1

Thimble colour		1000 KG WLL / Ø ROPE 10 mm	rope length	2000 KG WLL / Ø ROPE 14 mm	pure rope	1000 KG WLL / Ø ROPE 10 mm	rope with sheath	2000 KG WLL / Ø ROPE 14 mm	rope with sheath
orange	0.75 metres		RGSW 1075		RGSW 2075		RGSWC 1075		RGSWC 2075
red	1.50 metres		RGSW 1150		RGSW 2150		RGSWC 1150		RGSWC 2150
pink	2 .00 metres		RGSW1200		RGSW2200				
white	3.00 metres		RGSW 1300		RGSW 2300		RGSWC 1300		RGSWC 2300
light blue	4.00 metres		RGSW1400		RGSW2400				
blu	6.00 metres		RGSW 1600		RGSW 2600				
yellow	9.00 metres		RGSW 1900		RGSW 2900				
brown	10.00 metres		RGSW 11000		RGSW 21000				
green	12.00 metres		RGSW 11200		RGSW 21200				

*SWL/WLL = Safe Working Load / Working Load Limit

6 strand rope with 26 wires each total 216 wires.





Thimbles are fixed to the ends of our steel wire ropes with Talurit-type conical ferrules; the ferrules are fitted by cold pressing in compliance with European standards EN 13411 and DIN 3093.
The inspection hole on the ferrule is useful for the rope manufacturer for tests and inspections, but not necessarily for the end user (EN 13411-3).

It is remotely possible for a rope to slip from a ferrule, however before this happens the rope thimbles will already have changed shape. Regular checking of the thimble shape together with rope strand condition tests are an excellent guarantee of safety.

ROUNDSLINGS

RGRS polyester roundslings

Black endless polyester slings. Essential for lifting and hanging loads and structures. Useful for creating basket or choke bridles on structures and trusses.

- Endless slings
- Black polyester anchoring 100%
- Sheath made in a highly abrasion-resistant material

Code	1000 kg	Code	2000 kg
RGRS101	0.5 m EWL	RGRS201	0.5 m EWL
RGRS102	1.0 m EWL	RGRS202	1.0 m EWL
RGRS103	1.5 m EWL	RGRS203	1.5 m EWL
RGRS104	2.0 m EWL	RGRS204	2.0 m EWL
RGRS105	2.5 m EWL	RGRS205	2.5 m EWL
RGRS106	3.0 m EWL	RGRS206	3.0 m EWL

TECNICAL SPECIFICATION	RGRS
2 models	1.0 and 2.0 tons
6 sizes	from 0.5 to 3 metres in diameter
Safety factor	7:1

RGSS soft steel slings

Steel wire loop sling protected with black reinforced sheath abrasion-resistant. It can be used as a round-sling in polyester but it is as resistant as a steel wire rope. When installed, it does not need any additional safety device.

- High heat resistance
- Core: 25 loops of zinc plated 2mm wire rope
- Inspection gap permits a complete inspection of the wire rope
- They comply with the Standards EN 13414 1-3, EN 1492-2, BGV-C1

Code	2000 kg
RGSS202	1 m EWL*
RGSS204	2 m EWL
RGSS206	3 m EWL

TECNICAL SPECIFICATION	RGRSS
1 model	2 tons
3 sizes	from 1 to 3 metres in diameter
Safety factor	5:1

MODE FACTOR		WLL* CAPACITY OF A ROUNDSLING 1000 kg	2000 kg
Direct tension	1.0	1000	2000
Choke	0.8	800	1600
Up to 7°	2.0	2000	4000
Over 7° up to 45°	1.4	1400	2800
Over 45° up to 60°	1.0	1000	2000
Over 7° up to 45°	0.7	700	1400
Over 45° up to 60°	0.5	500	1000

The MODE FACTOR, i.e. the way a roundsling is used, should always be considered when calculating rigging capacities. For this reason and owing to their susceptibility to shear, roundslings have a cofficient of 7 (EN 1492-2).

Do not tie or connect roundslings to each other since this reduces their actual capacity in an uncontrollable way.

*EWL= Effective Working Length

*WLL= Working Load Limit

BELT RACHETS

Anchoring consisting of 35 and 50mm polyester belts for fastening and safety. Belt ratchets are often used to tension roof system sheets.

RGBR black belt ratchets 50 mm (claw hook)

- Belt ratchet and hooks made in tropicalized galvanized steel
- Belt in 100% polyester, a highly abrasion-resistant material
- PVC plate with WLL

Code	WLL	Width	EWL
RGBR55006GH	5000 kg *	50 mm	6 m
RGBR55008GH	5000 kg *	50 mm	8 m
RGBR55012GH	5000 kg *	50 mm	12 m

* Only if used a ring

TECNICAL SPECIFICATION	RGBR
3 models	50 mm
Sizes	6 – 8 – 12 metres (3 and 6 metres available until stocks are exhausted)
Safety factor	2:1

RGBR2 black belt ratchets 35 mm

- Belt ratchet and hooks made in tropicalized galvanized steel
- Belt in 100% polyester, a highly abrasion-resistant material
- PVC plate with WLL

Code	WLL	Width	EWL
RGBR23502K	2000 kg	35 mm	2 m
RGBR23508K	2000 kg	35 mm	8 m

TECNICAL SPECIFICATION	RGBR
2 models	35 mm
Sizes	2 – 8 metres
Safety factor	2:1

RGBR5 black belt ratchets 50 mm

- Belt ratchet and hooks made in tropicalized galvanized steel
- Belt in 100% polyester, a highly abrasion-resistant material
- PVC plate with WLL

Code	WLL	Width	EWL
RGBR55008G	5000 kg	50 mm	8 m
RGBR55012G	5000 kg	50 mm	12 m

DATI TECNICI	RGBR
2 models	50 mm
Sizes	8 – 12metres
Safety factor	2:1

ANCHORING

RGTB turnbuckles

Zinc-plated with forked ends for adjusting anchoring and bracing cables.

- Zinc-plated with forked ends
- Forked ends with pin and bolt

Code	Description	Max closing	Max opening	Excursion
RGTB10	1/2'' turnbuckle 1 ton–414/585 mm	41.4 cm	58.5 cm	17.1 cm
RGTB20	3/4'' turnbuckle 2.36ton–508/679 mm	50.8 cm	67.9 cm	17.1 cm

TECNICAL SPECIFICATION	RGTB
2 models	from 1.0 to 2.36 tons
Excursion	17.1 cm
Safety factor	5:1

RGBRT pull lash straps

Belt tensioning ratchet with swivel zinc plated hooks. Ideal for adjusting anchoring and bracing cables. Made with 50mm black polyester belt, it has a 2 ton WLL.

- Chromo-plated ratchet with aluminium handle
- High abrasion resistance belt in polyester
- 2.5 ton WLL

Code	RGBRT	
RGBRT25002H	Pull Lash Strap – 2.5 ton – 2 m	with swivel hook
RGBRT25004H	Pull Lash Strap – 2.5 ton – 4 m	with swivel hook

TECNICAL SPECIFICATION	RGBRT
2 models	2.5 tons
Variable excursion	from 0 to 4 m
Safety factor	2:1

RGCC chain clutch sling

Chain adjustable sling, with safety latch chain clutch.

- 8 mm black DIN chain
- 2 ton master link ending
- 2 ton latch hook ending.

Code	WLL	EWL
RGCCS20002MH	2000 kg	2 m
RGCCS20003MH	2000 kg	3 m

TECNICAL SPECIFICATION	RGCC
2 models	8 mm diameter
EWL	2 -3 m
Safety factor	4:1

RGLCH anchoring chain 8 mm

It is a chain specifically thought to do wind bracing on truss systems thus guaranteeing the highest safety. It cannot be used for lifting loads. It is available in 2 lengths, 2mt and 4 mt.

- DIN 763 Chain
- Grade 3
- Steel material.

Code	EWL
RGLCH085402	2 m
RGLCH085404	4 m

TECNICAL SPECIFICATION	RGLCH
2 models	8x52 mm
EWL	2-4 m
Weight/m	1100 gr

FALL ARRESTERS

They are manufactured using precision machines components and very resistant materials to ensure complete reliability and high performance even in the worst weather conditions. They offer full protection from falling whilst allowing complete mobility.
For more information please contact our offices.

- They comply with EN360 Standard
- Available in several cable lengths

HARDWARE

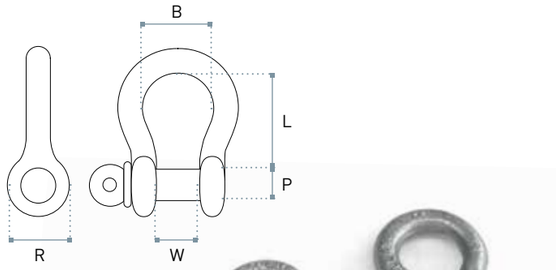
RGBC beam clamps

Clamps suitable for hanging hoists and other lifting devices on I and H girders and beams.

- Made in steel
- Black powder coated
- Adjustable to fit a wide range of flange widths, until 320 mm
- Reduced overall vertical height
- Marked for traceability with serial number and CE

Code	Beam Clamp	WLL	Truss Length	Weight
RGBC1B	WLL 1000 Kg	1000 kg	75/230 mm	4 kg
RGBC2B	WLL 2000 Kg	2000 kg	75/230 mm	5 kg
RGBC3B	WLL 3000 Kg	3000 kg	80/320 mm	9 kg

TECNICAL SPECIFICATION	RGBC
3 models	from 1 to 3 tons
Maximum excursion	1/2 ton: 284 mm; 3 ton: 365 mm
Safety factor	4:1



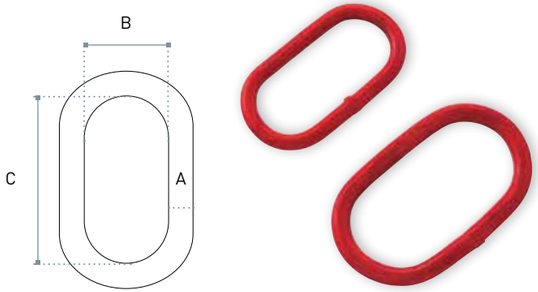
RGSH omega shackles with threaded pin

3 kinds of zinc-plated omega shackles are available for anchoring connections and ropes.

- Zinc-plated steel omega shackles
- Red screw pin
- Each shackle is marked with its size in inches and millimetres and its WLL load limit

Code	size R	size B	size P	size W	size L
RGSH200C	20.6 mm	32.9 mm	15.8 mm	19.4 mm	47.1 mm
RGSH325C	25.8 mm	41.7 mm	19.0 mm	27.2 mm	58.7 mm
RGSH475C	31.5 mm	47.5 mm	21.9 mm	30.3 mm	69.1 mm

TECNICAL SPECIFICATION	RGSH
3 models	from 2 to 4.75 tons
Weight	LT RGSH200C 0.34 kg LT RGSH325C 0.59 kg LT RGSH475C 1.021 kg
Safety factor	5:1



RGML master links

Two master link models (2.4 and 3.15 tons) are available for anchoring connections using shackles.

Code	Master Link	size	A mm	size B mm	size C mm
RGML2120C	WLL 2.120 kg	16	69	118	
RGML3150C	WLL 3.150 kg	18	77	135	

TECNICAL SPECIFICATION	RGML
2 models	2 and 3.15 tons
Weight	0.53 and 0.92 kg
Safety factor	4:1

SC60 safety cable

TECNICAL SPECIFICATION	SC60
Wire ∅	3 mm
WLL capacity	30 kg

LITEC TRUSS WORLD
special thanks

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AC Entertainment, Leeds, UK – Flyintower Compact

Actus Industries Ltd., Greenford, UK
RL105A for Queen Jubilee

AMG International, Rome, Italy – RL76A

Arch. Stefano Cacciapaglia & Carlo Celìa, Rome, Italy, QX40SA

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Edilpronto srl, Piacenza, Italy – QH30SA

Electra Service snc, Mantova, Italy
Closure of LIBERA System "Star" trusses

Es Devlin, London, UK
The Muse Stage in the Bespoke Solutions

Food & Media srl, Napoli, Italy - QL52A

Franchino Service srl, Chieti, Italy – TX30S

Hathor srl, Viterbo, Italy
Opening of LIBERA System "Star" trusses

HSL Group Holding Ltd., Blackburn, UK – Flyintower L52V

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Junglesport, Chelsea, Quebec, Canada, Equipped Gym Centre in the Bespoke Solutions

Lamantia Tommaso, Milan, Italy
Opening of High Load "Fork" trusses, MyT

Light Partner, Herning, Denmark

Limelite srl, Roma, Italy – Maxitower 40

MAS, Music, Art & Show, Milan, Italy
"Priscilla – Queen of the Desert" in the Bespoke Solutions

Mediteran Produkcija d.o.o., Šibenik, Croatia
RL105A, QL52A Roof system

Milos America, Inc., Ashland, VA – LIBERA Alusfera 2

Mister X Service | Event Services, Cremona, Italy,
Closure in the Bespoke Solutions session

Music Data s.r.o., Velke Mezirici, Repubblica Ceca
Introduction

Peter Lambert Production Services Ltd., UK
Zebra trusses for The Lion King in Bespoke Solutions

Prozvok, d.o.o., Notranje Gorice, Slovenia
LIBERA FL105, Maxitower 52, Maxitower 76, LIBERA FL105 double-pitch roof system 20x16m, LIBERA FL105 Double-pitch Roof system 24x16m

Regal Seton, Budapest, Hungary – LIBERA FL52, Towerlift 3, LIBERA FL52 single-pitch roof system

Show Design, Trzebnica, Poland
LIBERA FL76 single-pitch roof system 19x16m

StageCo Ltd., Moscow, Russia
LIBERA FL76, Terrace stand Roof

Stage System srl, Milan, Italy- Alusfera FL52

Studio Berar Projekt, Novi Sad, Serbia – Arc Roof Systems,

Studio Due Group srl, Treviso, Italy – Flyintower X30SA-H30A, LIBERA FL76 Single-Pitch Roof System 15x13m, LIBERA FL76 single-pitch roof system 17x13m, RL76A Roof Systems

TRANSCOLOR, Szeligi, Poland- RF40

TechnoPro llc, Dubai, UAE – Closure of End-plated trusses, QL40A, Unitower, Double-pitch Roof system 12x10m

Ultralite, Ehingen-Donau, Germany
LIBERA FL76 double pitch roof system 17x13m

Verylight, Passil Park, Portugal
Red Bull Springboard in the Bespoke Solutions

Wi Creations, Heist-op-den-Berg, Belgium – QL76A

Z.I. Lighting, Rijeka, Croatia
RL105A, Double-pitch Roof Systems, LIBERA FL52 Single-Pitch Roof System, QL52A Roof system.