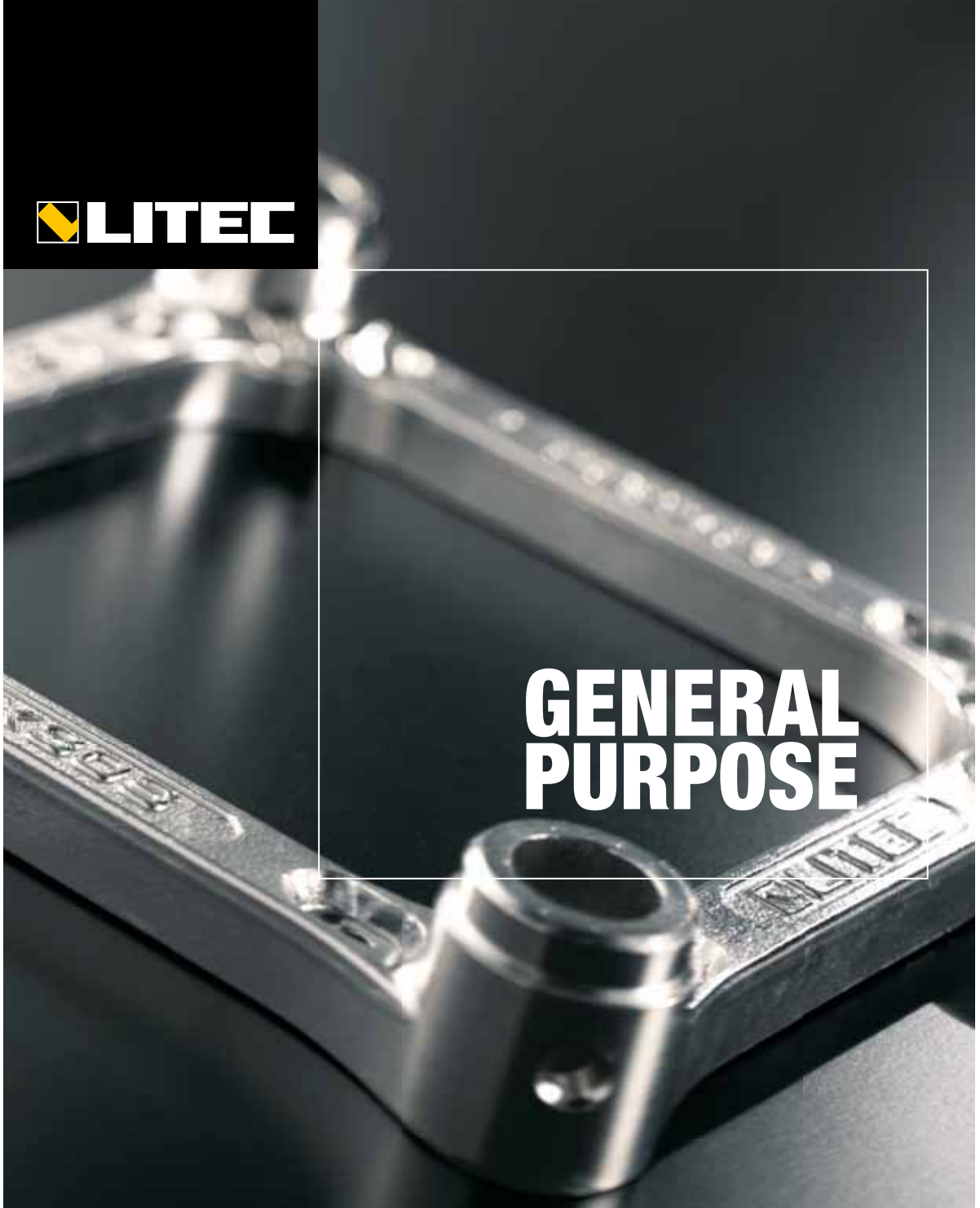
LITEC



GENERAL PURPOSE

The majority of our trusses are tested and certified by TÜV SÜD of Munich (Germany).

Load tests, traction and bending tests and destructive tests are carried out in collaboration with Dipartimento di Costruzioni e Trasporti at the University of Padua.

EN 573-3: Aluminium and aluminium alloys. Chemical composition and from of wrought products. Chemical composition.

EN 755-2: Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles – Mechanical properties.

EN 1706: Aluminium and aluminium alloys – Castings - Chemical composition and mechanical properties.

EN 10277-3: Bright steel products - Technical delivery conditions - Free-cutting steels.

EN 10204: Metallic products - Types of inspection documents.

EN 1990: Eurocode - Basis of structural design.

EN 1999-1-1: 2007 Eurocode 9 – Design of aluminium structures - Part 1-1: General structural rules.

DIN 4113-1: Aluminium constructions under predominantly static loading; static analysis and structural design.

DIN 4113-2: Aluminium constructions under predominantly static loading - Part 2: Static analysis, structural design and execution of welded constructions.

DIN V 4113-3: Aluminium constructions under predominantly static loading - Part 3: Execution and qualification of constructors.

BS 8118-1: Structural use of aluminium. Code of practice for design.

BS 7905-2: Lifting equipment for performance, broadcast and similar applications. Specification for design and manufacture of aluminium and steel trusses and towers.

BS 7906-2: Lifting equipment for performance, broadcast and similar applications. Specification for design and manufacture of aluminium and steel trusses and towers.

EN ISO 12100-2: Safety of machinery - Basic concepts, general principles for design - Part 2: Technical principles.

EN ISO 9606-2: Qualification test of welders – Fusion welding - Part 1: Aluminium and aluminium alloys.

EN ISO 15614-2: Specification and qualification of welding procedures for metallic materials – Welding procedure test - Part 2: Arc welding of aluminium and its alloys.

EN 287-1:2007: Qualification test of welders - Fusion welding - Part 1: Steels

EN ISO 15614-1: Specification and qualification of welding procedures for metallic materials – Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys.

EN ISO 3834-2: Quality requirements for fusion welding of metallic materials. Comprehensive quality requirements.

EN ISO 10042:2007: Welding – Arc-welded joints in aluminium and its alloys - Quality levels for imperfections.

EN 13018: Non-destructive testing - Visual testing - General Principles.

EN 13782:2006 - Temporary Structures - Tents – Safety.

EN 1090-3: 2008: Execution of steel structures and aluminium structures – part 3: Technical requirements for aluminium structures.

CERTIFICATIONS

Litec introduced the concept of double connection cast aluminium plate in 1995. This line of Products has been re-designed, including a new end plate, produced from an aluminium alloy reinforced by a process of heat treatment. Litec is the only company to have been authorised by the DIBt (Deutsche Institute für Bautechnik) to weld this type of plate to extruded tubes (authorisation n° Z-30.7-20). Furthermore, SLV Munich certify that Litec trusses are manufactured in accordance with the requirements set out by the above authorisation.

SLV Munich (Schweißtechnische Lehr – und Versuchsanstalt) certify that Litec carries out welding quality control process 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 certify that Litec carries out welding quality control process in accordance with the European and International standard EN ISO 3834-2. DVS Zert is the ANBCC (Authorised National Body for Company Certification) for Germany, as appointed by the EWF (European Welding Federation) and the IIW (International Institute of Welding).

The welding process certification carried out in Litec is internationally recognised by the IIW (International Institute of Welding).

DISPLAY

ELEGANCE. Lightweight trusses and accessories for architectural use and show installations. The Display line of trusses is completed by a wide range of fully-integrated accessories designed to make the system as elegant and refined as possible.

QB20
TB20
FB20

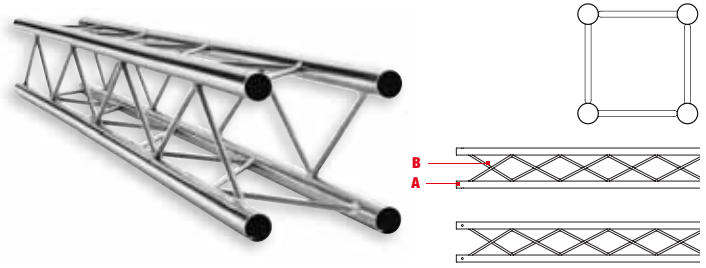
20 cm truss: square, triangular and flat-section. All Display series trusses are made with 35 mm diameter arc welded aluminium lengthwise tubes which ensure great sturdiness and a particularly low weight. The structures are available with square, triangular and flat sections. All have 20 cm sides. The basic finish is polished aluminium; other RAL colour finishes are available on request. The trusses are connected using a system of expansion pins which are fixed with an allen wrench. All the 90° corners are made using the modular Display Dado system.

QB20

Square section aluminium truss with 20 cm long sides.

- **A** **Lengthwise:** HF seam welded tube Ø 35x1 mm - EN AW 5086 H36
- **B** **Diagonals:** HF seam welded tube Ø 10x1 mm - EN AW 5086 H36

Connection System:
DT020 expansion connector

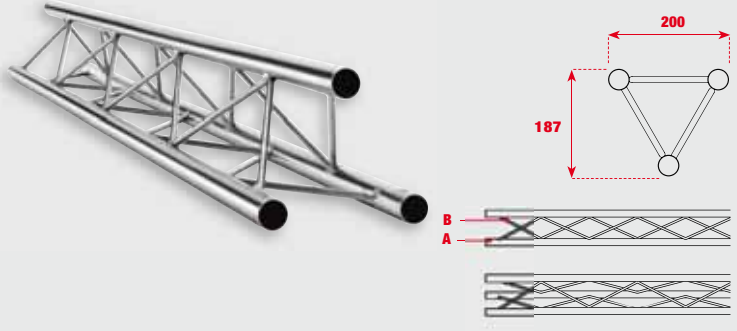


TB20

Triangular section aluminium truss with 20 cm long sides.

- **A** **Lengthwise:** HF seam welded tube Ø 35x1 mm - EN AW 5086 H36
- **B** **Diagonals:** HF seam welded tube Ø 10x1 mm - EN AW 5086 H36

Connection System:
DT020 expansion connector

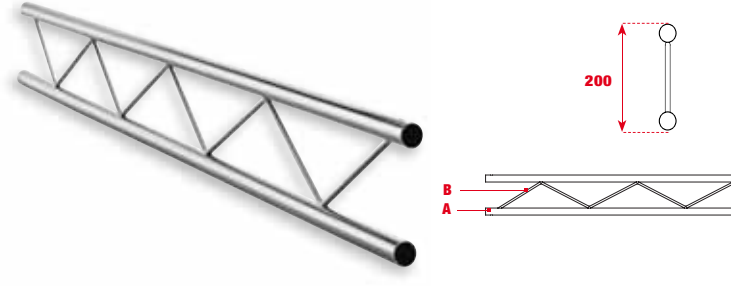


FB20

Flat section aluminium truss with 20 cm long sides.

- **A** **Lengthwise:** HF seam welded tube Ø 35x1 mm - EN AW 5086 H36
- **B** **Diagonals:** HF seam welded tube Ø 10x1 mm - EN AW 5086 H36

Connection System:
DT020 expansion connector



CORNERS AND FITTINGS QB20_TB20_FB20

Code	Descriptions	Dimensions (cm)	Weight (kg)
QB20K8 (Dado)	Basic configurable 2 to 6 way module	20x20x20	0,13
FB20K4 (Dado)	Basic configurable 2 to 6 way module	20x20x3.5	1.10
FB20K2 (Dado)	Basic configurable 2 to 4 way module	20x3.5x3.5	0.40
DTK01	Six-faced cube for Display line	3.5x3.5x3.5	0.10
DTKL	Long compensatory module for TB series	3.5x3.5x8.2	0.25
DTKS	Short compensatory module for TB series	3.5x3.5x2.2	0.08

LINEAR ELEMENTS QB20

Code	Dimensions (cm)	Weight (kg)
QB20060	20x20x60	0.87
QB20080	20x20x80	1.17
QB20100	20x20x100	1.47
QB20160	20x20x160	2.35
QB20200	20x20x200	2.97
QB20300	20x20x300	4.46

Main tube 35,00 x 1,00 mm
Diagonals 10,00 x 1,00 mm
Aluminium polished finishing

LINEAR ELEMENTS TB20

Code	Dimensions (cm)	Weight (kg)
TB20060	20x17.8x60	0.65
TB20080	20x17.8x80	0.88
TB20100	20x17.8x100	1.10
TB20160	20x17.8x160	1.76
TB20200	20x17.8x200	2.22
TB20300	20x17.8x300	3.35

Main tube 35,00 x 1,00 mm
Diagonals 10,00 x 1,00 mm
Aluminium polished finishing

LINEAR ELEMENTS FB20

Code	Dimensions (cm)	Weight (kg)
FB20060	20x3.5x60	0.43
FB20080	20x3.5x80	0.59
FB20100	20x3.5x100	1.10
FB20160	20x3.5x160	1.76
FB20200	20x3.5x200	2.22
FB20300	20x3.5x300	2.23

Main tube 35,00 x 1,00 mm
Diagonals 10,00 x 1,00 mm
Aluminium polished finishing

ACCESSORIES

There is a wide range of accessories which allow countless construction uses. Most of them are highly attractive top quality die-cast components.
The structures may be fixed to the ground or walls with plugs or rubber feet, or mounted on wheels or adjustable feet.
The DT021 adapter module acts as an interface for all screw-on accessories.

DT013
Panel clamp

DT013C
Fixture clamp

DT093
Large cable clip

DT020
Tube connector

DT004
Tee clamp

DT045
Articulated joint 180°

DT035
Superclamp

DT014
Parallel clamp

DT034W
Panel support suction cup, white

DT034B
Panel support suction cup, black

DT021
Foot adapter

DT015B
Rubber tube foot, black

DT015W
Rubber tube foot, white

DT104
Wheel with brake, ø 75 mm

DT022P
Adjustable foot, aluminium

DT022W
Adjustable foot, white

DT022B
Adjustable foot, black

DT017B
Tube end plug, black

DADO DISPLAY

Dado Display is the simplest way to create 90° corners on all Display line trusses, including triangular section trusses. As shown in the examples, it is also possible to fit components with different sections together and use them in the same structure.

QB20K8
Basic configurable 2 to 6 way module

FB20K4
Basic configurable 2 to 6 way module

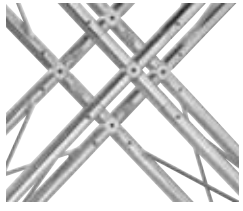
FB20K2
Basic configurable 2 to 4 way module

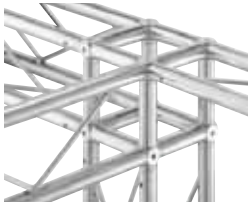
DTKL
Long compensatory module for TB series

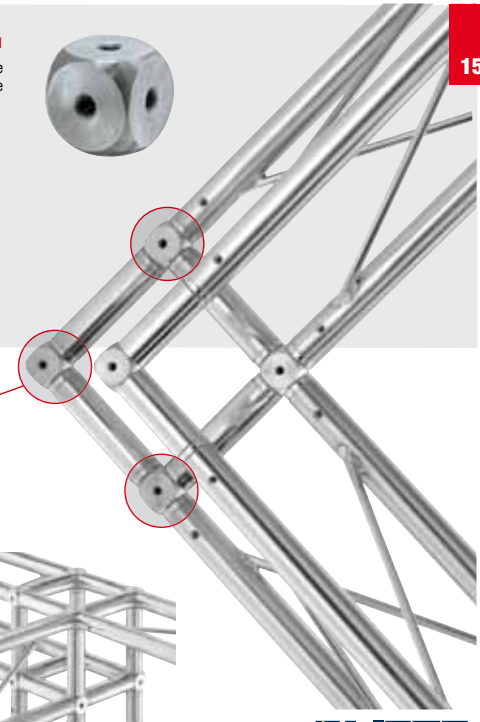
DTKS
Short compensatory module for TB series

DTK01
Six-faced cube for Display line

Triangular trusses can be used to form corners or crosses, again with Dado K4, together with one or more KL or KS components.

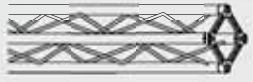


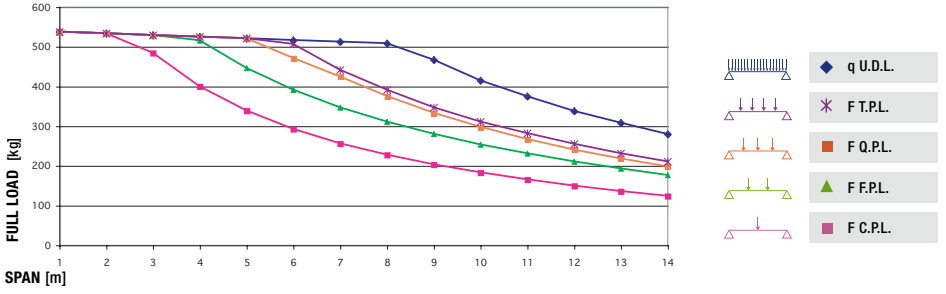




QX25S

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.

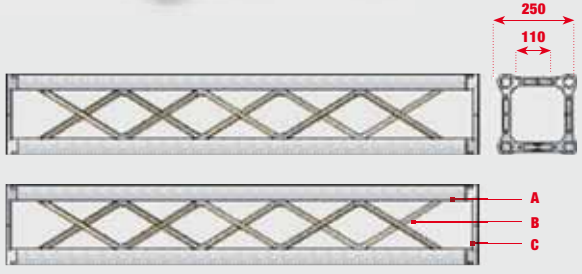




QX25S

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

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



LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (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	Dimensions (cm)	Weight (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

Code	Dimensions (cm)	Weight (kg)
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

LOAD TABLE / SPIGOT CONNECTION

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

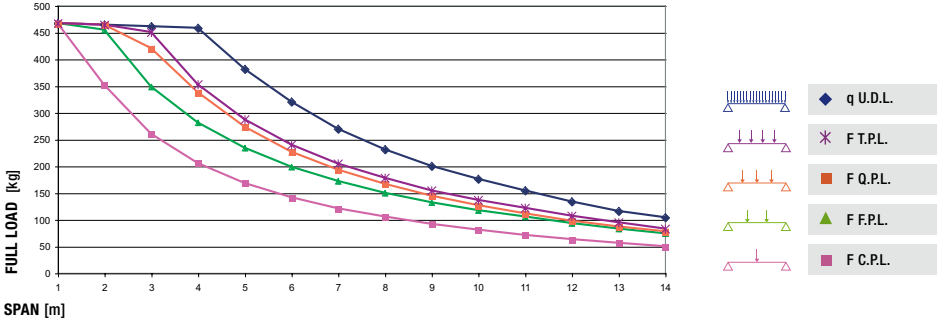
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

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.

TX25S

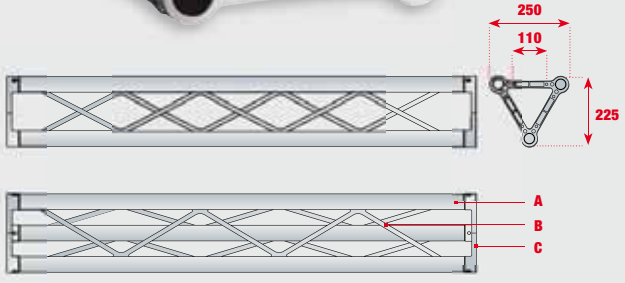
Triangular section aluminium truss with 25 cm long sides. This is the triangular version of the lightest professional structure, yet it is able to guarantee a reasonable loading capacity and span. The internal 14 mm diameter diagonal components are flush which decreases the aesthetic impact of this truss,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



TX25S

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

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



LINEAR ELEMENTS

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

LOAD TABLE / SPIGOT CONNECTION

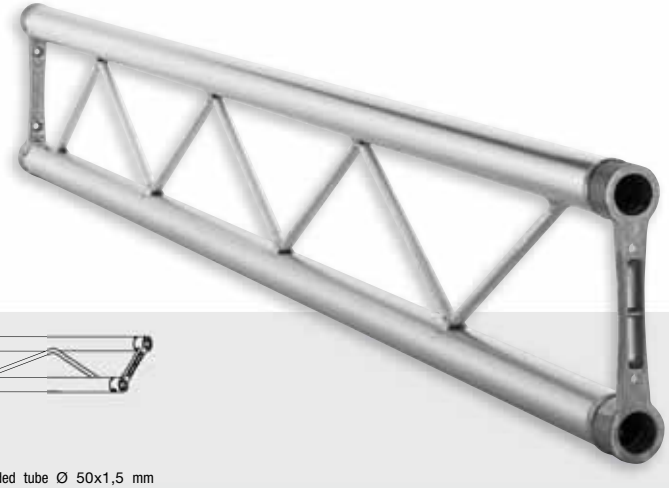
SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full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

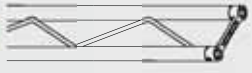
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

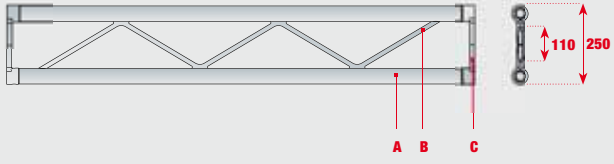
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload.
The self weight of the truss has been taken into account when calculating the values in the table.
It should be noted that this are idealised loading conditions and the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

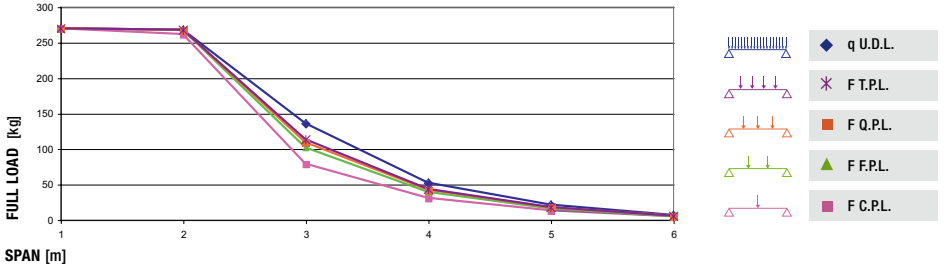
FX25S

Flat section aluminium truss with 25 cm long sides. This is the smallest of our flat, plate-ended trusses. The flat model is only available from catalogue as part of the Standard range, but it can also be made on request for the Heavy Duty range.
Internal diagonal braces are made using 14mm extruded aluminium, which helps to keep the visual profile of the truss to a minimum. Also suitable for use in tight spaces.









FX25S

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

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

LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (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	Dimensions (cm)	Weight (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

LOAD TABLE / SPIGOT CONNECTION

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

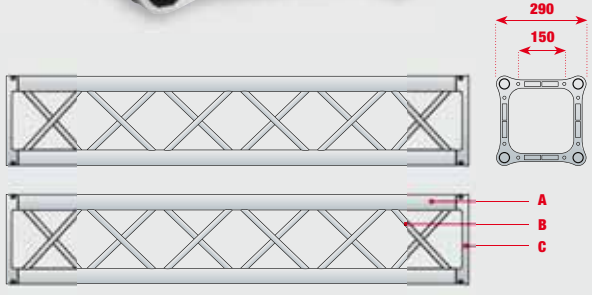
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

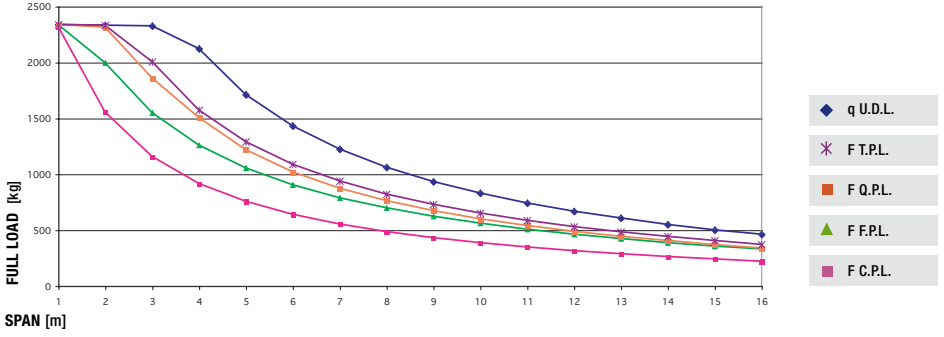
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload.
The self weight of the truss has been taken into account when calculating the values in the table.

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.

QX30S

Square section aluminium truss with 29 cm long sides. This is the most widespread model.
Its excellent size, weight, cost and performance characteristics are its key to success.
It is made of 6082 alloy extruded components, with high load-bearing and twisting strength.





QX30S

- **A Chords:** extruded tube Ø 50x2 mm EN AW 6082 T6
- **B Diagonals:** extruded tube Ø 18x2 mm EN AW 6082 T6
- **C Ends:** aluminium casting plate EN AC 42200 T6

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

LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
QX30S010M5	29x29x10.5	2.9
QX30S021	29x29x21	3.4
QX30S025	29x29x25	3.6
QX30S029	29x29x29	3.8
QX30S050	29x29x50	4.8
QX30S100	29x29x100	7.1
QX30S150	29x29x150	9.5
QX30S200	29x29x200	11.8
QX30S250	29x29x250	14.1
QX30S300	29x29x300	16.5
QX30S350	29x29x350	18.8
QX30S400	29x29x400	21.2

CORNERS AND FITTINGS

Code	Dimensions (cm)	Weight (kg)
QX30K8 (Dado)	29x29x29	9.0
QX30SL2ADJ	50x50x29	7.4
QX30SL2045	100x100x29	8.5
QX30SL2060	100x100x29	9.2
QX30SL2090	50x50x29	5.9
QX30SL2120	50x50x29	6.9
QX30SL2135	50x50x29	6.3
QX30SL3	50x50x50	8.2
QX30ST3	50x50x29	7.3
QX30ST4	50x50x50	9.7
QX30SX4	50x50x29	8.2
QX30SX5	50x50x50	9.9

Code	Dimensions (cm)	Weight (kg)
QX30SX6	50x50x50	11.2
QX30SACL	29x21x29	4.5
QX30SACS	29x10.5x29	4.2
QX30SACSC	29x12.4x29	5.2

LOAD TABLE / SPIGOT CONNECTION

SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	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]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
1	2319	2319	0	1168	2337	0	779	2337	0	584	2337	0	2337	2337	0
2	1556	1556	2	998	1996	2	771	2313	2	583	2331	2	1166	2331	2
3	1157	1157	5	775	1550	6	620	1860	7	501	2006	7	775	2325	7
4	916	916	10	629	1258	12	501	1504	13	393	1573	13	530	2121	15
5	756	756	16	527	1055	19	406	1218	21	322	1289	21	342	1711	23
6	640	640	24	452	904	29	340	1020	30	272	1087	31	239	1431	34
7	553	553	34	394	788	40	291	873	42	235	939	43	175	1224	46
8	485	485	45	349	698	54	254	762	55	205	821	56	133	1061	60
9	430	430	57	311	622	70	224	673	70	182	729	72	104	933	76
10	386	386	72	280	560	87	200	600	87	163	652	90	83	830	94
11	347	347	87	253	507	106	180	540	105	147	587	109	67	741	114
12	315	315	105	231	462	128	162	487	126	133	530	130	56	667	135
13	287	287	124	211	422	152	147	442	148	121	483	154	47	607	159
14	262	262	146	193	387	177	135	404	173	110	441	179	39	550	184
15	240	240	169	178	356	205	123	369	198	101	406	207	33	500	210
16	220	220	193	164	329	235	113	338	226	93	370	235	29	461	241

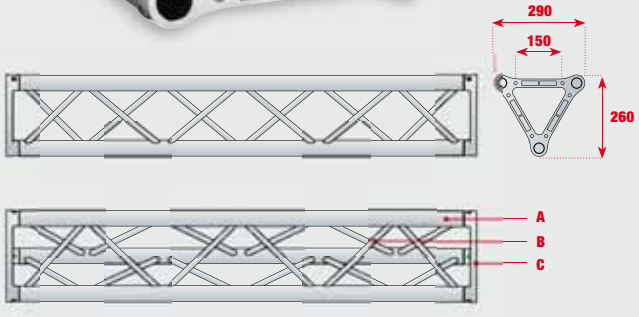
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

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.

TX30S

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.



TX30S

- **A** **Chords:** extruded tube Ø 50x2 mm EN AW 6082 T6
- **B** **Diagonals:** extruded tube Ø 18x2 mm EN AW 6082 T6
- **C** **Ends:** aluminium casting plate EN AC 42200 T6

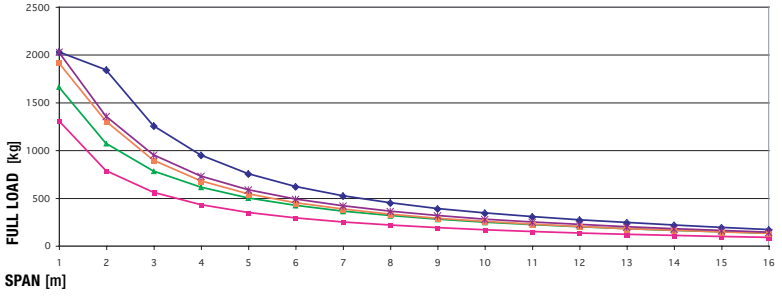
Connection systems:
TXFC: quick-fit kit
TXSM10: bolt connection kit

LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (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	Dimensions (cm)	Weight (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



LOAD TABLE / SPIGOT CONNECTION

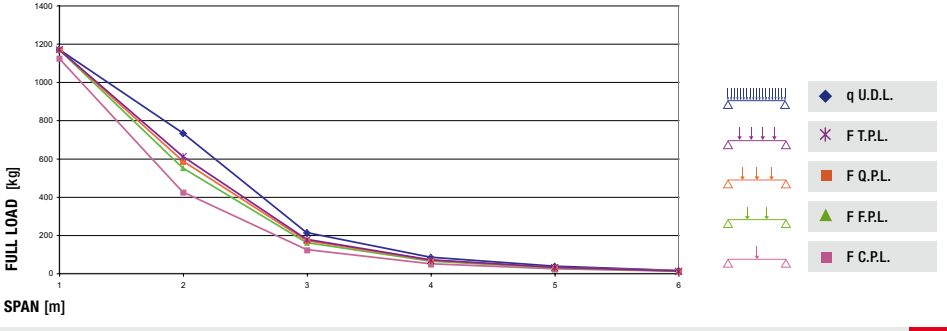
SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full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

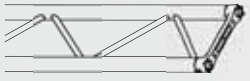
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

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.

FX30S

Flat section aluminium truss with 29 cm long sides. The most widely used of the flat, plate-ended trusses.
Ideal for use in reticular/grid structures and also perfectly suited for use alongside similar components supporting lightweight installations. The flat model is only available from catalogue as part of the Standard range, but it can also be made on request for the Heavy Duty range.

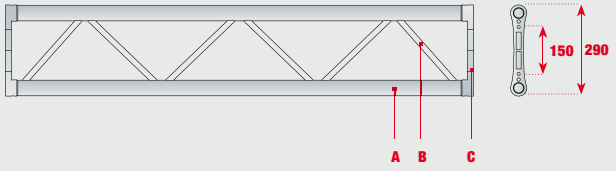




FX30S

- **A Chords:** extruded tube Ø 50x2 mm EN AW 6082 T6
- **B Diagonals:** extruded tube Ø 18x2 mm EN AW 6082 T6
- **C Ends:** aluminium casting plate EN AC 42200 T6

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



LINEAR ELEMENTS

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

LOAD TABLE / SPIGOT CONNECTION

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

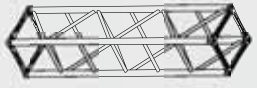
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

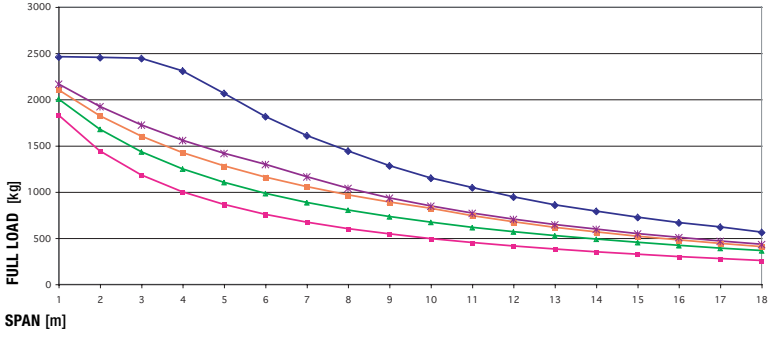
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload.
The self weight of the truss has been taken into account when calculating the values in the table.

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.

QX40S

Square section aluminium truss with 40 cm long sides. The geometrical design along the new end plate makes the most popular of our 40 cm range more solid and robust than ever before. The main span of the 8x6 and 10x8 Standard Roof Systems is made with this kind of truss.

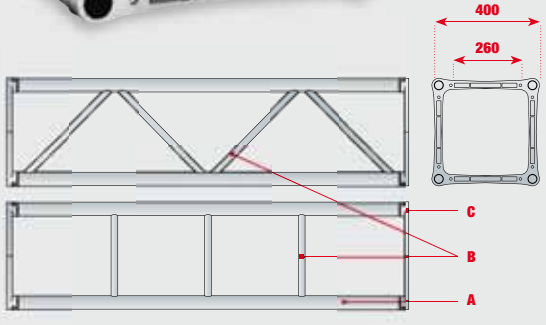




QX40S

- **A** **Chords:** extruded tube Ø 50x2 mm EN AW 6082 T6
- **B** **Diagonals:** extruded tube Ø 25x2 mm EN AW 6082 T6
- **C** **Ends:** aluminium casting plate EN AC 42200 T6

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



LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
QX40S010	40x40x10	4.4
QX40S025	40x40x25	5.0
QX40S050	40x40x50	6.7
QX40S100	40x40x100	10.0
QX40S150	40x40x150	13.2
QX40S200	40x40x200	16.6
QX40S250	40x40x250	19.9
QX40S300	40x40x300	23.2
QX40S350	40x40x350	26.5
QX40S400	40x40x400	29.8

CORNERS AND FITTINGS

Code	Dimensions (cm)	Weight (kg)
QX40K8 (Dado)	40x40x40	12.3
QX40SL2ADJ	50x50x40	9.0
QX40SL2045	100x100x40	10.9
QX40SL2060	100x100x40	11.2
QX40SL2090	50x50x40	7.6
QX40SL2120	50x50x40	7.7
QX40SL2135	50x50x40	7.9
QX40SL3	50x50x50	9.8
QX40ST3	100x50x40	12.0
QX40ST4	50x100x50	14.3

Code	Dimensions (cm)	Weight (kg)
QX40SX4	100x100x40	16.0
QX40SX5	100x100x50	18.5
QX40SX6	100x100x100	22.0

LOAD TABLE / SPIGOT CONNECTION

SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	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]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
1	1829	1829	0	1001	2003	0	701	2102	0	541	2166	0	2459	2459	0
2	1439	1439	0	837	1674	0	607	1820	0	480	1920	0	1225	2450	1
3	1181	1181	3	716	1431	3	533	1600	3	430	1721	3	814	2442	3
4	998	998	5	623	1246	6	474	1422	6	389	1556	6	576	2305	7
5	861	861	9	550	1099	10	426	1278	10	353	1413	11	413	2063	13
6	754	754	14	490	981	15	385	1156	16	324	1295	17	302	1813	20
7	669	669	19	441	883	22	351	1053	24	290	1161	25	230	1607	28
8	599	599	26	400	800	30	321	964	33	259	1037	34	180	1440	38
9	541	541	34	364	729	39	296	887	44	233	930	44	142	1280	49
10	491	491	43	334	668	50	273	818	56	211	844	55	115	1148	61
11	448	448	54	307	613	62	247	740	68	192	767	68	95	1043	75
12	410	410	65	283	566	75	224	673	82	176	702	82	79	942	90
13	377	377	78	261	523	90	204	613	97	161	643	97	66	857	106
14	347	347	92	242	484	106	187	562	113	148	593	114	56	788	124
15	321	321	107	225	450	124	172	516	131	136	545	132	48	722	143
16	296	296	124	209	418	143	159	476	150	126	504	152	41	664	163
17	274	274	142	194	388	164	146	438	170	116	465	172	36	617	186
18	253	253	161	181	361	187	135	404	192	107	430	195	31	560	206

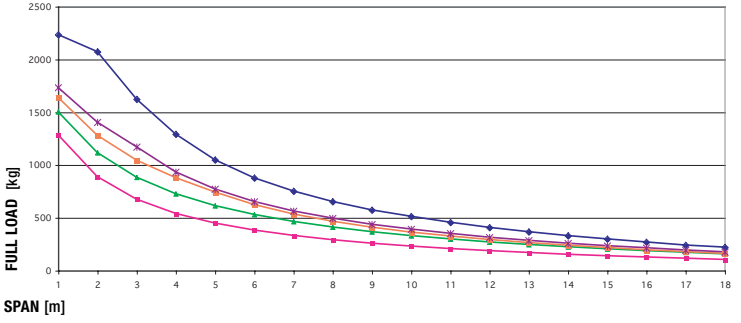
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

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.

TX40S

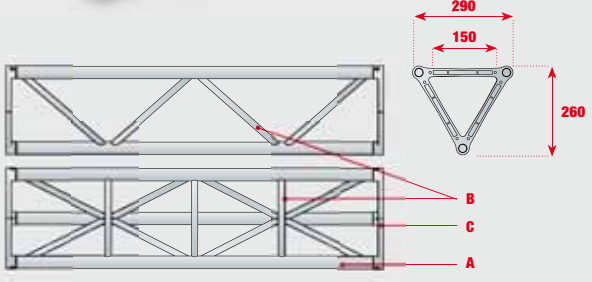
Triangular section aluminium truss with 40 cm long sides. The geometrical design along with end plate make this model more solid and robust.
Increasing the trusses performance has transformed this model into the strongest of the triangular end plate series. While reviewing our catalogue we took the decision to withdraw the TD30 and TD40 Heavy duty range of triangular trusses. These products will still be available as a special product upon request.



TX40S

- **A Chords:** extruded tube Ø 50x2 mm EN AW 6082 T6
- **B Diagonals:** extruded tube Ø 25x2 mm EN AW 6082 T6
- **C Ends:** aluminium casting plate EN AC 42200 T6

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



LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
TX40S010	40x35.5x10	3.6
TX40S025	40x35.5x25	4.3
TX40S050	40x35.5x50	5.0
TX40S100	40x35.5x100	6.7
TX40S150	40x35.5x150	8.5
TX40S200	40x35.5x200	10.3
TX40S250	40x35.5x250	12.2
TX40S300	40x35.5x300	13.8
TX40S350	40x35.5x350	15.5
TX40S400	40x35.5x400	17.1

CORNERS AND FITTINGS

Code	Dimensions (cm)	Weight (kg)
TX40SL2045	150x150x35.5	11.1
TX40SL2060	100x100x35.5	8.7
TX40SL2090	50x50x35.5	5.7
TX40L2090I	50x50x40	6.0
TX40SL2120	50x50x35.5	6.1
TX40SL2135	50x50x35.5	6.6
TX40SL3L	50x50x50	8.5
TX40SL3LU	50x50x50	7.8
TX40SL3R	50x50x50	8.5
TX40SL3RU	50x50x50	7.8

Code	Dimensions (cm)	Weight (kg)
TX40ST3	100x50x35.5	9.0
TX40ST3F	40x50x50	9.5
TX40ST3FU	40x50x50	8.5
TX40ST4RU	50x100x36	11.3
TX40ST4LU	50x100x50	11.3
TX40SX4	100x100x35.5	12.3
TX40SX5	100x100x50	15.2
TX40SX6	100x100x100	19.3

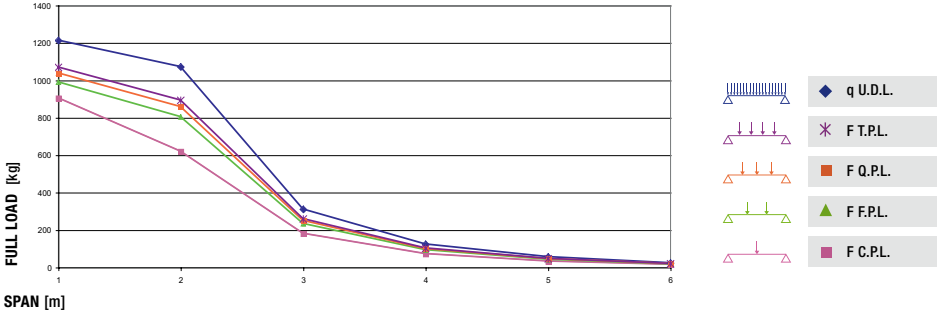
LOAD TABLE / SPIGOT CONNECTION

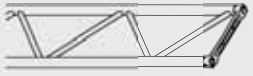
SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
1	1285	1285	0	752	1504	0	547	1640	0	433	1733	0	2233	2233	0
2	887	887	1	558	1116	1	427	1280	1	351	1404	1	1036	2073	2
3	673	673	3	441	881	3	348	1044	4	293	1170	4	541	1622	4
4	540	540	6	363	726	6	293	878	7	233	933	7	323	1292	8
5	448	448	9	307	613	11	247	742	12	193	770	12	210	1048	13
6	381	381	14	264	529	16	207	622	18	163	652	18	146	876	19
7	331	331	19	232	464	23	178	533	24	141	563	24	107	752	27
8	290	290	26	205	410	31	155	464	32	124	495	33	81	652	35
9	258	258	33	183	366	40	136	409	41	109	436	42	64	573	45
10	230	230	42	164	329	50	121	362	51	98	391	52	51	511	56
11	207	207	51	149	298	61	108	324	62	87	350	64	41	455	68
12	187	187	62	135	270	74	97	291	74	79	314	76	34	407	81
13	169	169	74	123	246	88	87	262	87	71	284	90	28	366	95
14	153	153	86	112	224	103	79	238	102	64	258	105	24	330	110
15	139	139	100	102	204	120	72	216	118	59	234	121	20	298	126
16	126	126	116	93	187	137	65	196	135	53	213	139	17	269	143
17	114	114	132	85	170	156	59	178	153	48	193	157	14	239	160
18	104	104	150	78	156	177	53	160	171	44	175	176	12	220	181

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.

FX40S

Flat section aluminium truss with 40 cm long sides. The strongest flat, plate-ended truss. The flat model is only available from catalogue as part of the Standard range, but it can also be made on request for the Heavy Duty range.

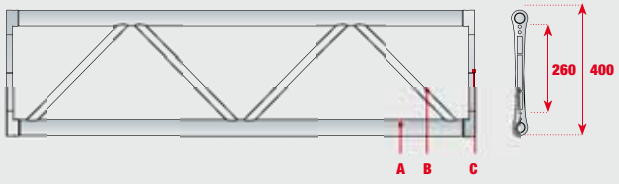




FX40S

- **A Chords:** extruded tube Ø 50x2 mm EN AW 6082 T6
- **B Diagonals:** extruded tube Ø 25x2 mm EN AW 6082 T6
- **C Ends:** aluminium casting plate EN AC 42200 T6

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



LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
FX40S010	40x5x10	1.5
FX40S025	40x5x25	1.8
FX40S050	40x5x50	2.5
FX40S100	40x5x100	3.3
FX40S150	40x5x150	4.3
FX40S200	40x5x200	5.3
FX40S250	40x5x250	6.5
FX40S300	40x5x300	7.2
FX40S350	40x5x350	8.6
FX40S400	40x5x400	9.2

CORNERS AND FITTINGS

Code	Dimensions (cm)	Weight (kg)
FX40SL2060P	50x50x5	4.5
FX40SL2060V	50x50x40	3.3
FX40SL2090P	50x50x5	2.9
FX40SL2090V	50x50x40	3.3
FX40SL2120P	50x50x5	3.0
FX40SL2120V	50x50x40	3.5
FX40SL2135P	50x50x5	3.5
FX40SL2135V	50x50x40	3.5
FX40SL3LP	50x50x50	4.5
FX40SL3LV	50x50x50	4.1

Code	Dimensions (cm)	Weight (kg)
FX40SL3RP	50x50x50	4.5
FX40SL3RV	50x50x50	4.1
FX40ST3NP	50x50x5	3.1
FX40ST3NV	50x50x50	3.8
FX40ST4NP	50x50x5	4.5
FX40ST4NV	50x50x50	6.2
FX40SX4NP	100x100x5	5.9
FX40SX4NV	50x50x40	6.5
FX40SAC	40x10x5	2.8

LOAD TABLE / SPIGOT CONNECTION

SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	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]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
1	904	904	0	495	990	0	346	1038	0	267	1070	0	1213	1213	0
2	620	620	1	402	804	1	286	858	1	223	893	1	536	1072	1
3	180	180	1	117	233	1	83	249	1	65	259	1	104	311	1
4	72	72	1	46	93	1	33	100	1	26	103	1	31	124	1
5	33	33	1	21	42	1	15	45	1	12	46	1	11	56	1
6	15	15	1	9	18	1	7	20	1	5	20	1	4	24	1

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.

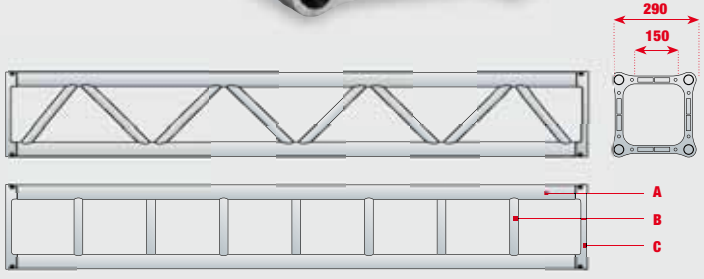
QD30S

Square section heavy duty aluminium truss twist-resistant version with 29 cm long sides.
This Heavy Duty model, made using the same 6082 aluminium alloy and though keeping the same dimensions as the standard range, guarantees superior perfomances.
The QD30S has two opposing sides with Diagonal bracing, and two sides with Parallel bracing.

QD30S

- **A** **Chords:** extruded tube Ø 50x3 mm EN AW 6082 T6
- **B** **Diagonals:** extruded tube Ø 30x3 mm EN AW 6082 T6
- **C** **Ends:** aluminium casting plate EN AC 42200 T6

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



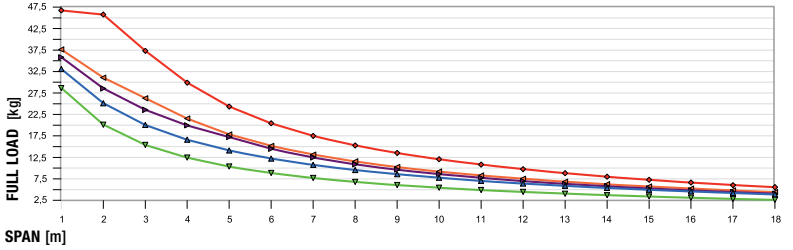
LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
QD30S010M5	29x29x10.5	2.9
QD30S021	29x29x21	3.6
QD30S025	29x29x25	3.0
QD30S050	29x29x50	6.4
QD30S100	29x29x100	9.3
QD30S150	29x29x150	12.9
QD30S200	29x29x200	16.3
QD30S250	29x29x250	10.6
QD30S300	29x29x300	23.2
QD30S350	29x29x350	26.4
QD30S400	29x29x400	30.0

CORNERS AND FITTINGS

Code	Dimensions (cm)	Weight (kg)
QD30SL2045	100x100x29	12.7
QD30SL2060	100x100x29	14.2
QD30SL2090	50x50x29	8.1
QD30SL2120	50x50x29	9.3
QD30SL2135	50x50x29	9.6
QD30SL3	50x50x50	10.7
QD30ST3	50x50x29	9.4
QD30ST4	50x50x50	12.4
QD30SX4	50x50x29	10.4
QD30SX5	50x50x50	13.5
QD30SX6	50x50x50	15.4

Code	Dimensions (cm)	Weight (kg)
QD30SACL	29x21x29	5.7
QD30SACS	29x10.5x29	5.1



LOAD TABLE / SPIGOT CONNECTION

SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	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]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
1	2867	2867	0	1656	3311	0	1195	3584	0	941	3766	0	4679	4679	0
2	2015	2015	2	1256	2513	2	953	2858	2	778	3111	2	2289	4578	3
3	1541	1541	5	1004	2007	5	786	2358	6	658	2631	6	1244	3733	7
4	1244	1244	9	832	1664	11	666	1998	12	539	2157	12	748	2993	14
5	1038	1038	15	707	1413	18	575	1724	20	447	1787	20	487	2433	22
6	887	887	23	613	1225	27	484	1451	30	380	1520	30	341	2044	33
7	772	772	32	539	1077	38	416	1247	41	329	1316	41	250	1753	45
8	680	680	43	479	959	51	363	1089	54	290	1159	55	191	1529	59
9	605	605	55	430	859	66	321	964	69	257	1028	70	150	1353	76
10	544	544	69	388	776	83	287	860	85	230	921	87	121	1207	94
11	490	490	85	353	705	102	258	773	104	207	830	106	98	1083	114
12	445	445	103	321	643	123	233	698	124	188	753	127	81	975	136
13	406	406	122	294	588	146	211	633	146	171	684	150	68	882	159
14	370	370	143	270	539	171	193	578	171	156	625	176	57	799	184
15	339	339	166	248	496	199	176	527	197	143	572	202	49	730	212
16	311	311	191	229	458	228	161	482	225	131	524	232	41	664	240
17	285	285	218	211	422	260	147	442	255	121	483	263	36	604	270
18	262	262	247	195	390	294	135	404	286	110	441	295	31	557	305

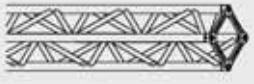
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

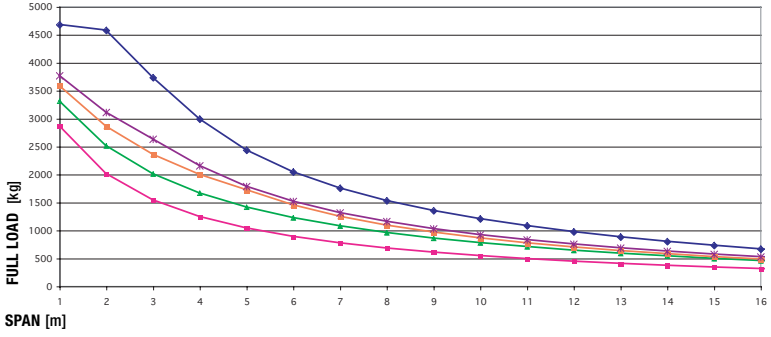
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload.
The self weight of the truss has been taken into account when calculating the values in the table.

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.

QD30SA

Square section heavy duty aluminium truss twist-resistant version with 29 cm long sides.
This Heavy Duty model, made using the same 6082 aluminium alloy and though keeping the same dimensions as the standard range, performs better.
The QD30SA features all four sides with diagonal bracing members, offering increate twist-resistant performance.
This truss is used for the tower elements of the Unitower HD and the Varitower 2-30.

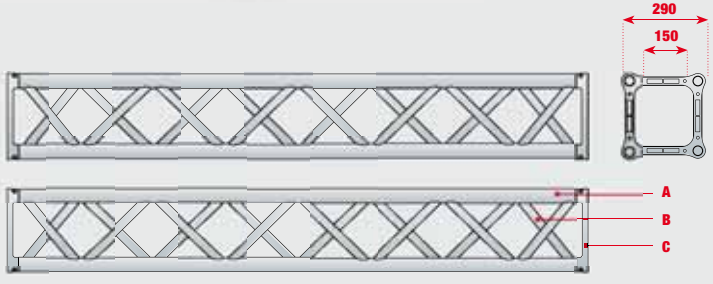




QD30SA

- **A** **Chords:** extruded tube Ø 50x3 mm EN AW 6082 T6
- **B** **Diagonals:** extruded tube Ø 30x3 mm EN AW 6082 T6
- **C** **Ends:** aluminium casting plate EN AC 42200 T6

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



LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
QD30S100A	29x29x100	10.2
QD30S150A	29x29x150	14.1
QD30S200A	29x29x200	18.0
QD30S250A	29x29x250	22.0
QD30S300A	29x29x300	26.0
QD30S350A	29x29x350	30.0
QD30S400A	29x29x400	34.0

CORNERS AND FITTINGS

Code	Dimensions (cm)	Weight (kg)
QD30SL2045	100x100x29	11.0
QD30SL2060	100x100x29	12.3
QD30SL2090	50x50x29	6.8
QD30SL2120	50x50x29	7.8
QD30SL2135	50x50x29	8.0
QD30SL3	50x50x50	9.8
QD30ST3	50x50x29	8.5

Code	Dimensions (cm)	Weight (kg)
QD30ST4	50x50x50	11.5
QD30SX4	50x50x29	10.4
QD30SX5	50x50x50	13.5
QD30SX6	50x50x50	15.4
QD30SACL	29x21x29	5.2
QD30SACS	29x10.5x29	4.7

LOAD TABLE / SPIGOT CONNECTION

SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	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]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
1	2867	2867	0	1656	3311	0	1195	3584	0	941	3766	0	4679	4679	0
2	2015	2015	2	1256	2513	2	953	2858	2	778	3111	2	2289	4578	3
3	1541	1541	5	1004	2007	5	786	2358	6	658	2631	6	1244	3733	7
4	1244	1244	9	832	1664	11	666	1998	12	539	2157	12	748	2993	14
5	1038	1038	15	707	1413	18	575	1724	20	447	1787	20	487	2433	22
6	887	887	23	613	1225	27	484	1451	30	380	1520	30	341	2044	33
7	772	772	32	539	1077	38	416	1247	41	329	1316	41	250	1753	45
8	680	680	43	479	959	51	363	1089	54	290	1159	55	191	1529	59
9	605	605	55	430	859	66	321	964	69	257	1028	70	150	1353	76
10	544	544	69	388	776	83	287	860	85	230	921	87	121	1207	94
11	490	490	85	353	705	102	258	773	104	207	830	106	98	1083	114
12	445	445	103	321	643	123	233	698	124	188	753	127	81	975	136
13	406	406	122	294	588	146	211	633	146	171	684	150	68	882	159
14	370	370	143	270	539	171	193	578	171	156	625	176	57	799	184
15	339	339	166	248	496	199	176	527	197	143	572	202	49	730	212
16	311	311	191	229	458	228	161	482	225	131	524	232	41	664	240
17	285	285	218	211	422	260	147	442	255	121	483	263	36	604	270
18	262	262	247	195	390	294	135	404	286	110	441	295	31	557	305

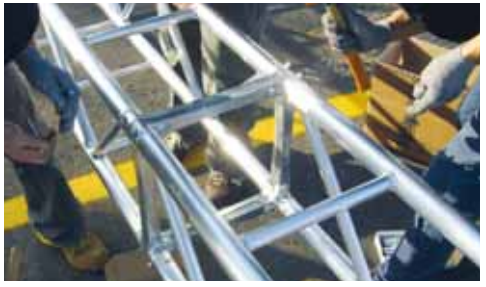
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

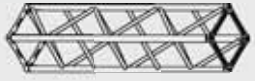
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload.
The self weight of the truss has been taken into account when calculating the values in the table.

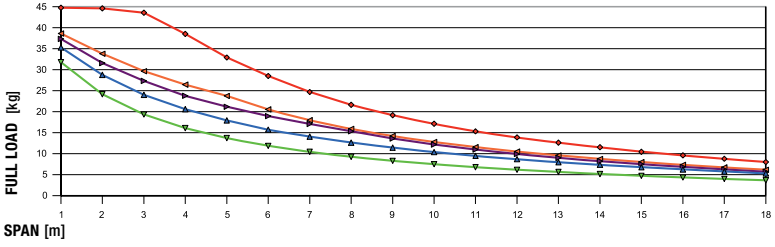
It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

QD40S

Square section heavy duty aluminium truss twist-resistant version with 40 cm long sides.
This model is the strongest and most robust of all the trusses that utilise the end plate connection system.
Manufactured with extruded elements in 6082 aluminium alloy, it is available in two versions.



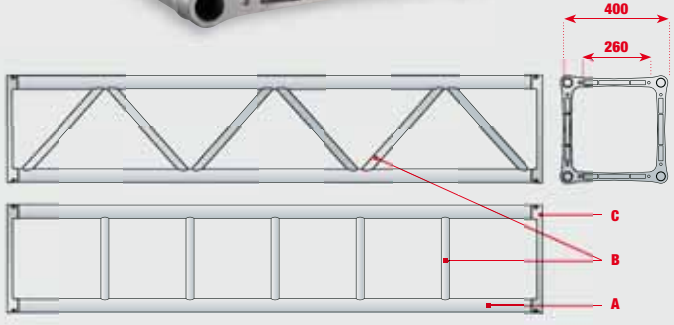




QD40S

- **A** **Chords:** extruded tube Ø 50x3 mm EN AW 6082 T6
- **B** **Diagonals:** extruded tube Ø 30x3 mm EN AW 6082 T6
- **C** **Ends:** aluminium casting plate EN AC 42200 T6

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



LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
QD40S010	40x40x10	4.5
QD40S025	40x40x25	6.1
QD40S050	40x40x50	7.5
QD40S100	40x40x100	11.3
QD40S150	40x40x150	14.8
QD40S200	40x40x200	19.1
QD40S250	40x40x250	22.6
QD40S300	40x40x300	26.2
QD40S350	40x40x350	30.3
QD40S400	40x40x400	34.7

CORNERS AND FITTINGS

Code	Dimensions (cm)	Weight (kg)
QD40SL2045	100x100x40	15.1
QD40SL2060	100x100x40	16.6
QD40SL2090	50x50x40	10.5
QD40SL2120	50x50x40	11.1
QD40SL2135	50x50x40	11.3
QD40SL3	50x50x50	13.7
QD40ST3	100x50x40	16.4
QD40ST4	100x50x50	19.6
QD40SX4	100x100x40	21.3
QD40SX5	100x100x50	24.3

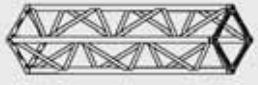
Code	Dimensions (cm)	Weight (kg)
QD40SX6	100x100x100	29.4
QD40SACSC	40x14.4x40	6.3

LOAD TABLE / SPIGOT CONNECTION

SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	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]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
1	3180	3180	0	1760	3530	0	1240	3730	0	965	3860	0	4470	4470	0
2	2410	2410	1	1440	2870	1	1050	3160	1	844	3380	1	2230	4460	1
3	1930	1930	3	1200	2400	3	911	2730	3	741	2960	3	1380	4150	3
4	1540	1540	5	1030	2060	6	772	2320	7	643	2570	7	772	3090	7
5	1220	1220	9	896	1790	11	611	1830	10	509	2040	11	489	2440	11
6	1010	1010	12	754	1510	16	503	1510	15	419	1680	16	335	2010	15
7	848	848	17	636	1270	21	424	1270	20	353	1410	21	242	1700	21
8	728	728	22	546	1090	28	364	1090	26	303	1210	28	182	1460	27
9	634	634	28	475	951	35	317	951	33	264	1060	35	141	1270	35
10	557	557	35	417	835	44	278	835	41	232	928	43	111	1110	43
11	492	492	43	369	738	53	246	738	49	205	820	52	89	980	52
12	437	437	51	328	656	63	219	656	59	182	729	62	73	874	62
13	390	390	61	292	584	74	195	584	69	162	649	73	60	779	72
14	348	348	71	261	522	85	174	522	81	145	580	84	50	695	84
15	310	310	82	233	466	98	155	466	93	129	517	97	41	621	96
16	277	277	94	208	416	111	139	416	106	115	462	110	35	554	109
17	247	247	107	185	370	125	123	370	119	103	411	124	29	493	124
18	219	219	121	164	328	140	109	328	134	91	365	139	24	438	139

QD40SA

Square section heavy duty aluminium truss twist-resistant version with 40 cm long sides.
This model is the strongest and most robust of all the trusses that utilise the end plate connection system. Manufactured with extruded elements in 6082 aluminium alloy, it is available in two versions. The QD40SA features all four sides with diagonal bracing members, offering increased twist-resistant performance.
This truss is used for the tower elements of the Varitower 2-40 and main beams of the standard roofing system 12x10 HD.



QD40SA

- **A** **Chords:** extruded tube Ø 50x3 mm EN AW 6082 T6
- **B** **Diagonals:** extruded tube Ø 30x3 mm EN AW 6082 T6
- **C** **Ends:** aluminium casting plate EN AC 42200 T6

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

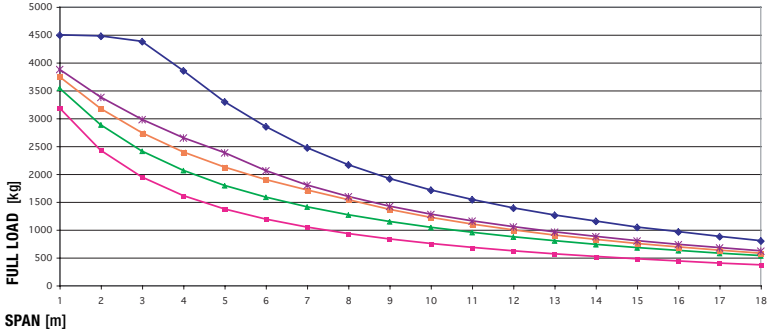
LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
QD40S100A	40x40x100	13.2
QD40S150A	40x40x150	16.8
QD40S200A	40x40x200	20.0
QD40S250A	40x40x250	23.8
QD40S300A	40x40x300	28.0
QD40S350A	40x40x350	30.4
QD40S400A	40x40x400	34.4

CORNERS AND FITTINGS

Code	Dimensions (cm)	Weight (kg)
QD40SL2045	100x100x40	15.1
QD40SL2060	100x100x40	16.6
QD40SL2090	50x50x40	10.5
QD40SL2120	50x50x40	11.1
QD40SL2135	50x50x40	11.3
QD40SL3	50x50x50	13.7
QD40ST3	100x50x40	16.4

Code	Dimensions (cm)	Weight (kg)
QD40ST4	100x50x50	19.6
QD40SX4	100x100x40	21.3
QD40SX5	100x100x50	24.3
QD40SX6	100x100x100	29.4
QD40SAC	40x10x40	6.0
QD40SACSC	40x14.4x40	6.3



LOAD TABLE / SPIGOT CONNECTION

SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	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]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
1	3187	3187	0	1770	3539	0	1248	3744	0	969	3876	0	4490	4491	0
2	2422	2422	1	1439	2879	1	1057	3171	1	844	3375	1	2240	4474	1
3	1941	1941	3	1204	2409	3	912	2736	3	744	2975	3	1460	4378	4
4	1607	1607	6	1030	2061	6	798	2393	7	662	2649	7	963	3852	9
5	1369	1369	10	896	1793	11	707	2120	12	595	2379	13	659	3296	14
6	1187	1187	15	790	1581	16	632	1896	18	514	2056	19	475	2849	22
7	1043	1043	21	704	1407	24	570	1709	26	450	1799	27	353	2468	30
8	927	927	28	632	1264	32	511	1533	36	398	1591	35	270	2163	40
9	830	830	36	572	1144	42	453	1360	46	355	1419	46	213	1913	51
10	748	748	46	519	1039	53	405	1216	57	319	1277	57	171	1711	63
11	679	679	56	474	948	66	365	1096	70	289	1156	70	140	1540	77
12	617	617	68	434	868	80	330	991	84	262	1049	85	116	1387	92
13	563	563	81	399	797	95	300	900	99	239	957	100	97	1261	108
14	516	516	96	367	733	112	273	820	116	219	874	118	82	1151	126
15	472	472	112	338	676	131	250	749	134	200	800	136	70	1044	145
16	433	433	129	312	624	151	228	684	153	183	732	156	60	960	166
17	397	397	147	287	575	172	209	627	174	168	673	177	52	877	188
18	364	364	167	265	530	195	191	573	196	154	616	199	44	800	210

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.

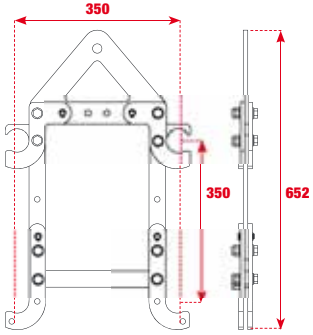
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload.
The self weight of the truss has been taken into account when calculating the values in the table.

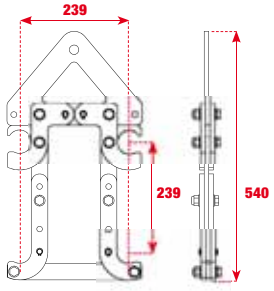
It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

BRIDLE HOOK

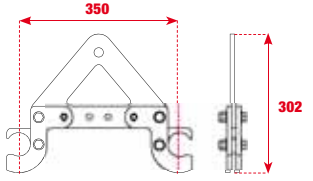
The Bridle Hook is designed to support triangular and square-section trusses with 30 and 40 cm sides. It can be fitted to the two truss sections simply by changing the position of the pins or bolts which hold its components together. Its characteristic strong points are the versatility, carrying capacity and stability it provides to the loaded trusses.

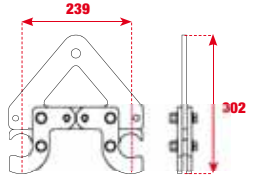
CBQ3040





CBT3040





BRIDLE HOOK

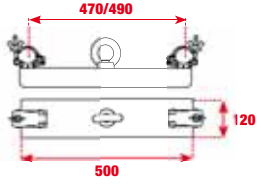
Code	Description	Load capacity
CBQ3040	for 30 and 40 cm square-section trusses	2000 kg
CBT3040	for 30 and 40 cm triangular-section trusses	1700 kg

The **Bridle Hook** does not require any additional safety anchoring and allows aligned vertical hanging.

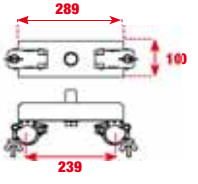
BAR HOOK QUD030

BAR HOOK Fixing plate with a bar hook for 25, 30 and 40 mm plate trusses, and for 30, 40 and 52 cm fork-end trusses. Models up to 40 cm have the attachment ring bolt on the inner part of the aluminium profile, whereas the 52 cm model has it on the outside, in line with the couplers.
QUD030 Truss module for fitting Lodestar A, B, C, F and compact chain hoists.
The 50 cm truss element is compatible with the 29 cm-sided square series. Because attachment is via two poles fitted with nuts and bolts, the Lodestar chain hoist can be inserted in the module without needing to remove or substitute parts of the hoist. The truss can hold both direct and low voltage models.

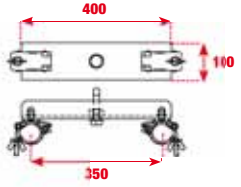
C052D



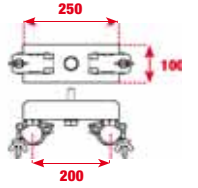
C030



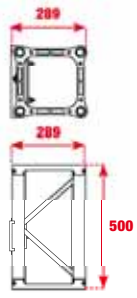
C040



C025



QUD030



BAR HOOK

Code	Trusses	Load capacity (kg)	Weight (kg)	Interaxes (mm)
C025	25 cm	1000	2,1	200
C030	29 cm	1000	2,2	239
C040	40 cm	1000	3,5	350
C052D	52 cm HD	2000	4,7	470/490

QUD030

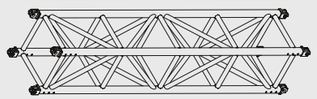
Load capacity (kg)	Dimensions (mm)	Weight (kg)
500	290 x 290 x 500	8,2 kg.

The module can be fitted with wheels so that the hoist can be transported inside the truss.

QL40A

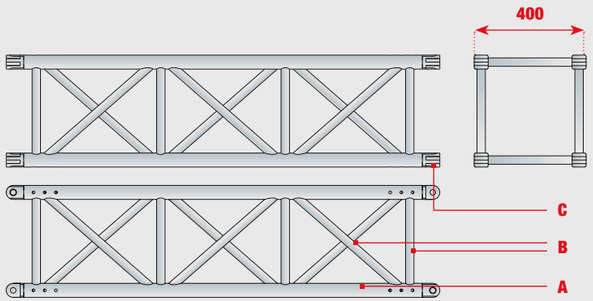
Square section High Load aluminium truss with 40 cm long sides. This is the most compact model in the High Load line with fork connection.
It only comes in a twist-resistant version and is particularly suitable for use together with lifter MT40.

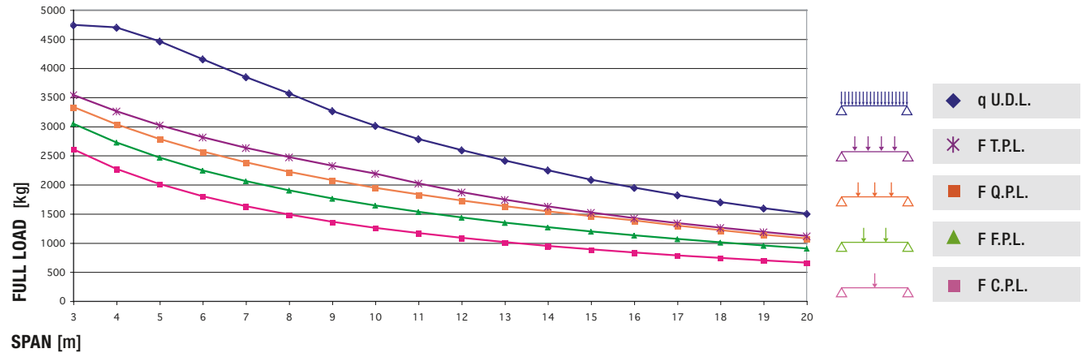




QL40A

- **A** **Chords:** extruded tube Ø 50x4 mm EN AW 6082 T6
- **B** **Diagonals:** extruded tube Ø 30x3 mm EN AW 6082 T6
- **C** **Ends:** aluminium forks connector EN AW 6082 T6
- **D** **Connection systems:**
  KHLP: steel pin





LOAD TABLE / FORK CONNECTION

SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	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]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
3	2600	2600	3	1521	3043	3	1110	3331	3	884	3535	3	1579	4736	3
4	2264	2264	6	1360	2720	6	1010	3031	6	814	3256	7	1173	4693	8
5	2004	2004	11	1229	2458	11	926	2778	12	754	3016	12	891	4456	15
6	1790	1790	17	1119	2239	18	854	2562	19	702	2809	20	692	4151	24
7	1620	1620	24	1027	2055	26	793	2378	28	657	2628	29	549	3842	35
8	1480	1480	33	947	1895	36	738	2213	39	616	2465	41	445	3561	49
9	1358	1358	43	879	1757	48	690	2069	52	580	2320	55	362	3260	64
10	1253	1253	55	818	1636	61	647	1940	67	546	2184	72	301	3007	82
11	1160	1160	69	764	1527	77	608	1824	85	504	2015	89	253	2779	101
12	1079	1079	84	715	1430	95	573	1720	105	467	1867	108	212	2587	121
13	1006	1006	101	671	1342	114	541	1622	127	434	1736	130	179	2407	143
14	941	941	120	631	1262	136	512	1536	152	405	1621	153	153	2240	165
15	881	881	141	595	1190	159	484	1453	178	379	1514	178	131	2078	190
16	827	827	163	561	1121	185	460	1380	208	355	1419	205	114	1944	216
17	779	779	187	530	1061	212	430	1291	237	333	1333	234	99	1813	244
18	733	733	213	501	1003	242	404	1211	268	313	1253	265	87	1693	273
19	691	691	240	475	950	274	379	1136	300	295	1179	298	77	1590	304
20	652	652	270	450	899	308	356	1069	335	278	1111	333	68	1496	337

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.

LINEAR ELEMENTS

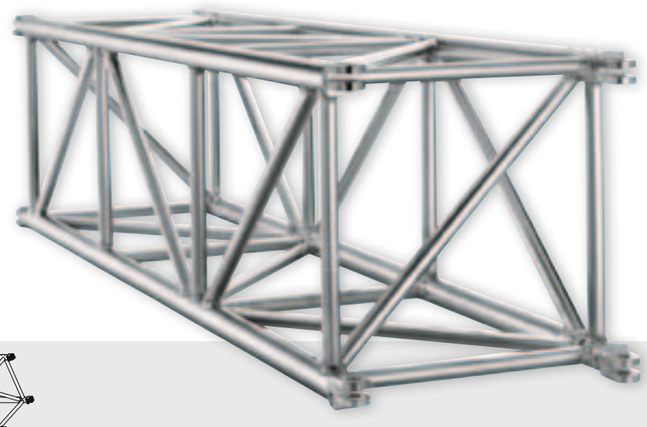
Code	Dimensions (cm)	Weight (kg)
QL40100A	40X40X100	14.70
QL40130A	40X40X130	17.50
QL40200A	40X40X200	25.30
QL40300A	40X40X300	36.20

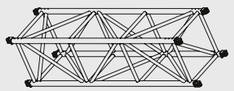
GATES AND ACCESSORIES

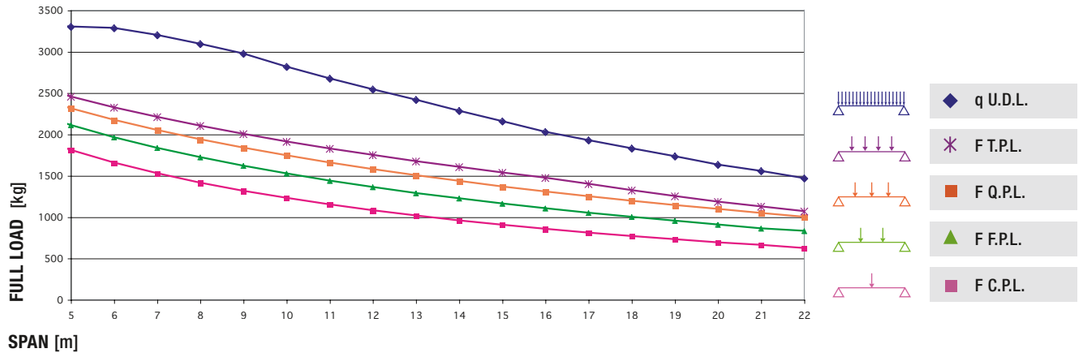
Code	Dimensions (cm)	Weight (kg)
FL40035P	40X35X5	3.5
FL40049MS	40X49 - 5X5	4.1
MTC30F	48x48X1	5
MTC30G / MTC30D	48X48X1	4.2
KHLP	Ø 2	0.15

QL52A

Square section High Load aluminium truss with 52 cm long sides, twist-resistant version. The design of the diagonals makes it twist-resistant and particularly suitable for use as a vertical section in Maxitower lifters. Its dimensions comply with the most widespread international standards.

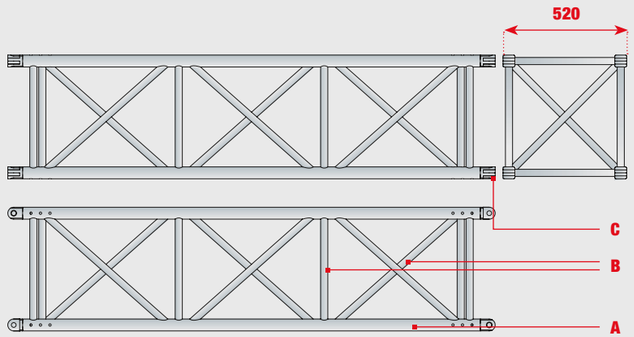






QL52A

- **A** **Chords:** extruded tube Ø 50x4 mm EN AW 6082 T6
- **B** **Diagonals:** extruded tube Ø 30x3 mm EN AW 6082 T6
- **C** **Ends:** aluminium forks connector EN AW 6082 T6
- **D** **Connection systems:** **KHLP:** steel pin



LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
QL52100A	52X52X100	16.70
QL52130A	52X52X130	19.20
QL52200A	52X52X200	26.70
QL52300A	52X52X300	36.60

GATES AND ACCESSORIES

Code	Dimensions (cm)	Weight (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

LOAD TABLE / FORK CONNECTION

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

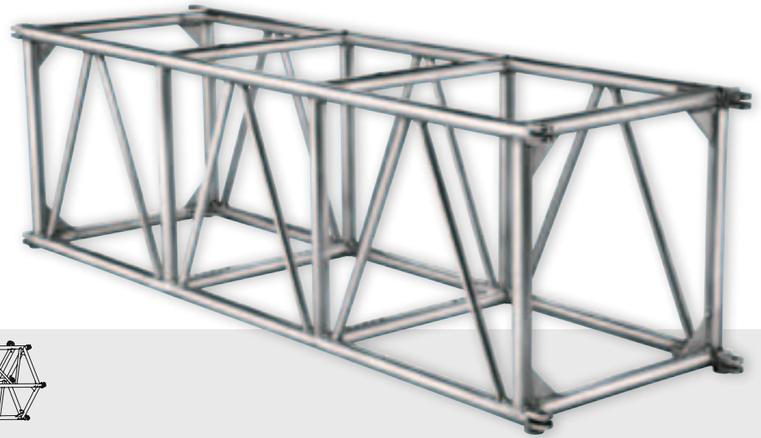
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

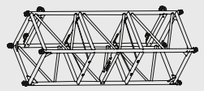
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload.
The self weight of the truss has been taken into account when calculating the values in the table.

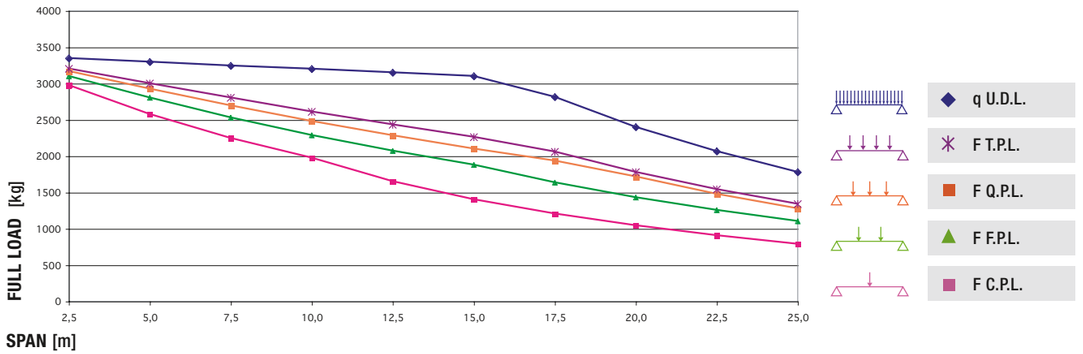
It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

QL76PR

Square section High Load aluminium truss with 76 cm long sides. Multi-Rig Version.
This version of the QL76 is designed to house spotlights inside. It is a modular system that may be transformed according to operating requirements and altered over time by purchasing upgrade kits. It can therefore be used as a normal truss for suspending loads, or fitted with a few accessories and used as a pre-rig structure suitable for housing moving heads or par bars, complete with sliding guide system for them.



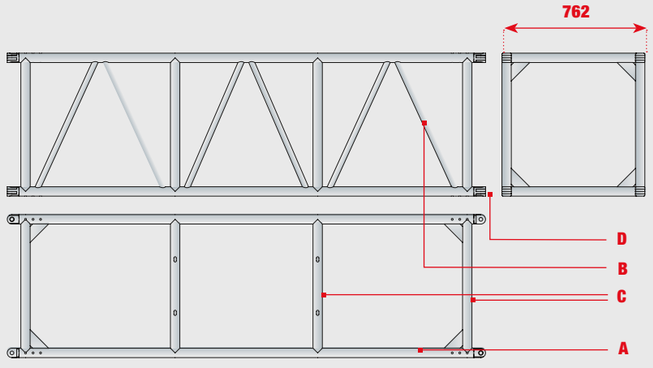




QL76PR

- **A** **Chords:** extruded tube Ø 50x4 mm EN AW 6082 T6
- **B** **Diagonals:** extruded tube Ø 30x4 mm EN AW 6082 T6
- **C** **Braces:** extruded tube Ø 50x4 mm EN AW 6082 T6
- **D** **Ends:** aluminium forks connector EN AW 6082 T6

Connection systems:
KHLP: steel pin



LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
QL76PR150	76.2X76.2X150	26.00
QL76PR250	76.2X76.2X250	49.00
QL76PR320	76.2X76.2X320	60.00

GATES AND ACCESSORIES

Code	Dimensions (cm)	Weight (kg)
FL76071M2P	76X71X5	10.6
RAS76	71x19x12	6
CPR76	69x10x5	3
QL76MHS	241x55x74	10
MTC76F	76X76X1	11
MTC76G / MTC76D	76X76X1	20 / 21
KHLP	Ø 2	0.15

LOAD TABLE / FORK CONNECTION

SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	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]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
2,5	2974	2974	0,5	1550	3101	0,4	1056	3167	0,4	801	3203	0,4	1338	3344	0,3
5	2578	2578	3	1401	2803	3	975	2924	3	750	3001	3	659	3296	3
7,5	2247	2247	10	1264	2529	10	898	2693	10	701	2803	9	433	3244	9
10	1975	1975	21	1143	2286	21	827	2480	21	653	2610	21	320	3200	22
12,5	1650	1650	36	1036	2071	38	761	2282	39	608	2433	39	252	3148	42
15	1401	1401	54	939	1877	61	700	2100	63	565	2261	65	207	3100	73
17,5	1204	1204	77	818	1636	87	644	1933	95	515	2059	96	161	2813	107
20	1043	1043	104	715	1430	119	572	1716	130	444	1778	129	120	2400	141
22,5	906	906	136	627	1255	155	493	1478	167	385	1541	166	92	2067	181
25	790	790	174	551	1102	197	426	1278	209	335	1339	209	71	1778	224

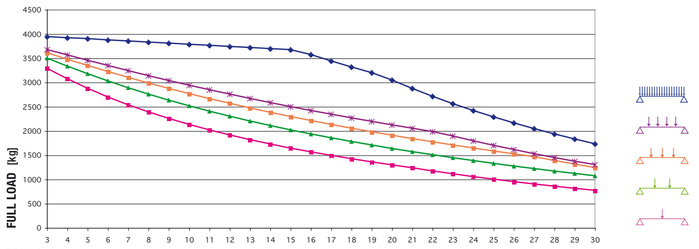
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9).
When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.

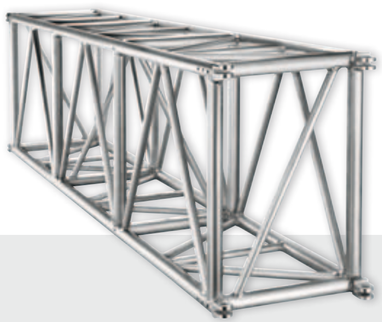
The values shown in the table are the allowable static loads that can be applied to the truss. This is the live load or the payload.
The self weight of the truss has been taken into account when calculating the values in the table.

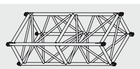
It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

RL76A

Rectangular section High Load aluminium truss with 76 x 52 cm sides, twist-resistant version. Truss with fork connection. The symmetrical design of the diagonals makes it twist-resistant and suitable for large spans. Its dimensions comply with the most widespread international standards.







RL76A

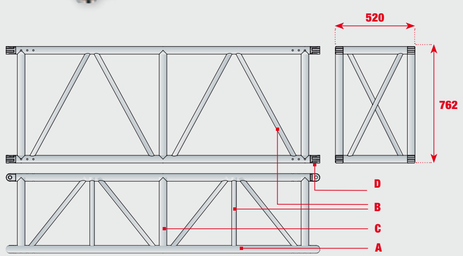
Chords: extruded tube Ø 50x4 mm
EN AW 6082 T6

Diagonali: extruded tube Ø 30x3 mm
EN AW 6082 T6

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

Ends: steel forks connector
11SMnPb37

Connection systems:
KHLP: steel pin



LINEAR ELEMENTS

Code	Dimensions (cm)	Weight (kg)
RL76100A	76.2X52X100	19.40
RL76200A	76.2X52X200	45.00
RL76300A	76.2X52X300	52.00

GATES AND ACCESSORIES

Code	Dimensions (cm)	Weight (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

LOAD TABLE / FORK CONNECTION

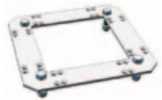
SPAN [m]	CENTRE POINT LOAD			THIRD POINT LOAD			QUARTER POINT LOAD			FIFTH POINT LOAD			UNIFORMLY DISTRIBUTED LOAD		
	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg]	Full load [kg]	Central deflection [mm]	Point load [kg/m]	Full load [kg]	Central deflection [mm]
3	3287	3287	1	1749	3498	1	1203	3609	1	919	3676	1	1314	3941	1
4	3073	3073	2	1667	3333	2	1159	3476	2	891	3564	2	980	3918	2
5	2877	2877	4	1588	3176	4	1115	3346	3	863	3454	3	780	3898	3
6	2698	2698	6	1514	3028	6	1074	3221	6	836	3345	6	646	3873	5
7	2536	2536	9	1444	2887	9	1033	3100	9	810	3239	9	550	3852	9
8	2389	2389	13	1378	2755	13	994	2983	13	784	3136	13	479	3828	13
9	2254	2254	18	1315	2631	17	957	2872	18	759	3036	18	423	3807	19
10	2131	2131	23	1257	2514	23	922	2765	24	735	2939	24	378	3783	25
11	2017	2017	29	1202	2403	30	888	2663	31	711	2845	31	342	3761	34
12	1913	1913	36	1149	2299	37	855	2564	39	689	2754	39	312	3738	44
13	1816	1816	45	1100	2200	46	823	2470	48	667	2666	49	286	3716	56
14	1726	1726	53	1053	2107	55	793	2380	58	645	2581	60	264	3694	70
15	1642	1642	63	1009	2018	66	764	2293	69	624	2498	72	245	3671	86
16	1564	1564	74	967	1934	78	737	2210	82	604	2418	85	223	3572	102
17	1490	1490	86	927	1854	91	710	2129	96	585	2340	100	202	3441	119
18	1421	1421	99	889	1778	104	684	2052	111	566	2265	116	184	3315	137
19	1357	1357	113	852	1705	120	659	1978	127	548	2192	134	168	3196	157
20	1295	1295	128	818	1635	136	635	1906	145	530	2121	153	152	3046	177
21	1236	1236	144	785	1569	153	612	1837	164	513	2050	173	137	2872	196
22	1171	1171	160	752	1505	172	590	1770	185	496	1983	195	123	2710	216
23	1111	1111	177	722	1443	191	568	1705	206	473	1891	216	111	2560	237
24	1055	1055	195	692	1384	212	548	1643	230	448	1793	237	101	2419	259
25	1001	1001	214	663	1327	235	527	1582	254	425	1700	259	91	2287	282
26	950	950	234	636	1272	258	508	1523	280	403	1612	282	83	2163	306
27	902	902	256	609	1219	283	489	1466	307	382	1528	306	76	2046	331
28	856	856	278	584	1167	309	462	1387	332	362	1448	331	69	1935	357
29	812	812	301	559	1118	336	437	1312	358	343	1373	357	63	1830	384
30	769	769	326	535	1070	365	414	1241	384	325	1300	384	58	1730	411

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 truss.

C040
Bar hook for 40 cm Truss

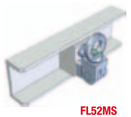
C052D
Bar hook for 52 cm Truss



MTC30F/MTC40F
Square frame with bolts for QL40

RL76TT
Skate for QL52/RL76 Truss

FL52WS
Skate System for FL52 sleeve block



FL52MS
FL52MS Hoist support for FL52 sleeve block

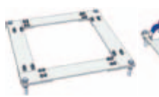
MULTIRIG

Accessories in this section are designed to complete the High Load 76x76cm truss range, adding functionality by allowing PAR o moving head lights to be supported and transported.

RAS76
HL 76 multirig skate

CPR76
HL 76 multirig hook bar

QL76MHS
HL 76 multirig moving head support - 250 cm module



MTC76F
MT76 frame with bolts

MTC76D
MT76 frame with wheels

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

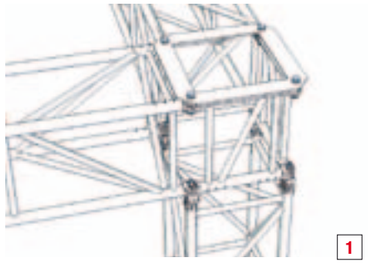
FL52047P
HL 52 cm flat truss with horizontal forks 47 cm length

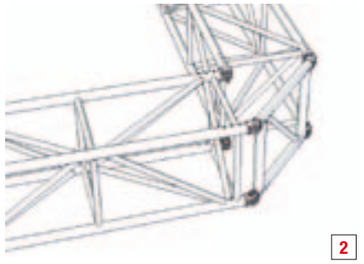
FL76066M5P
HL 76 cm flat truss with horizontal forks 66,5 cm length

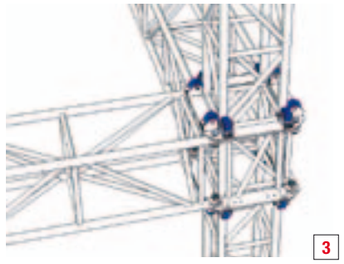
FL76047P
HL 76 cm flat truss with horizontal forks 47 cm length

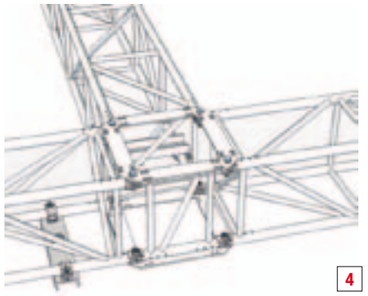
CONNECTIONS

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.


1


2


3


4

1 90° solution with pillar
2 90° solution with gate
3 90° solution with wheeled frame
4 3-way solution with frame

KHLF
Female fork connector

KHLM
Male fork connector

KHL 180A
180° double fork aluminium connector

KHL 180S
180° double fork steel connector

KHL 90LA
90° double fork aluminium connector, left

KHL 90LS
90° double fork steel connector, left

KHLP
Cylindrical pin + safety R-clip 3mm

KHLD
M20 screw nut + conical spring washer

KHLB
M20 screw bolt + conical spring washer

KHL 90RA
90° double fork aluminium connector, right

KHL 90RS
90° double fork steel connector, right

LITEC

Trussing & Staging

unirig

La filosofia di UNIRIG è improntata alla qualità ed affidabilità dei propri prodotti. I nostri tecnici scelgono i migliori materiali costruttivi nella maniera più oculata. Allo stesso modo l'attenzione è rivolta alla cura dei particolari e delle finiture, ai test e ai controlli di qualità rigorosi.

In questo spirito di crescita continua a favore della qualità e competitività, si sviluppa il nuovo catalogo dei TRALICCI IN ALLUMINIO TRABES.

Al suo interno potrete trovare la risposta alle vostre esigenze grazie a soluzioni tecniche innovative e specifiche, nate da decenni di confronto con il mercato e di dialogo franco e aperto con i suoi protagonisti.

UNIRIG's philosophy is based on the quality and on the reliability of its products. The company's technicians choose the best materials in the most sharp-sighted way. In the same way they focus their attention on details and products finishing. Tests and quality controls are rigorous.

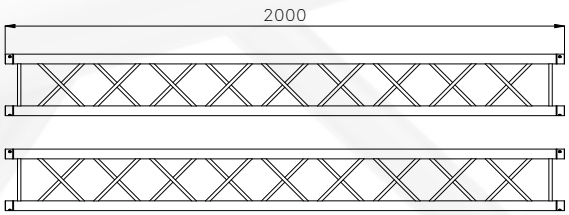
This is the spirit of our constant improvement which aims at competitiveness and high quality. All these elements led us to the development of the new catalogue of TRABES ALUMINIUM TRUSSES.

Inside our new catalogue you can find the answer to your needs thanks to innovative and specific solutions, which are the result of decades spent working on the entertainment market, side by side with our customers from whom we have learnt how to always provide the right solutions.

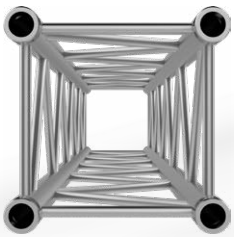
B22

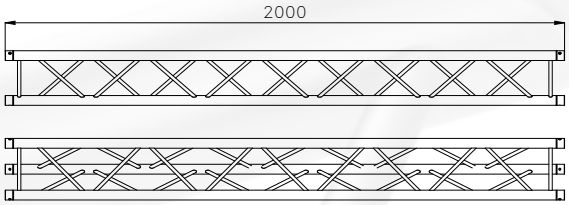
Traliccio in alluminio con boccola, lato 22 cm

Aluminium truss with bushing, 22 cm side

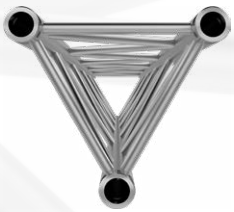


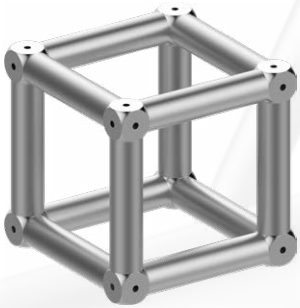
B22Q





B22T





Cubo di giunzione, lato 22 cm

22 cm Side Corner Box

C22Q 8

Informazioni Tecniche
Tubi correnti Ø 35x2 mm
Diagonali Ø 12x1,5 mm

Sistema di giunzione
Giunti in alluminio e spine coniche con copiglie

Finitura
Alluminio naturale o verniciatura personalizzata

Applicazioni
Ideale per installazioni fisse, negozi e strutture di piccole dimensioni

Technical Information
Main tubes Ø 35x2 mm
Diagonals Ø 12x1,5 mm

Connection system
Aluminium spigots and conical pins with "R" clips

Finishing
Natural aluminium or customized painting

Applications
Ideal for fixed installations, showrooms and small structures

B30

Traliccio in alluminio con boccola, lato 29 cm

Aluminium truss with bushing, 29 cm side

Informazioni Tecniche
Tubi correnti Ø 50x2 mm
Diagonali Ø 20x2 mm

Sistema di giunzione
Giunti in alluminio e spine coniche con copiglie

Finitura
Alluminio naturale o verniciatura personalizzata

Applicazioni
Ideale per installazioni fisse, allestimenti fieristici, studi televisivi, strutture per lo spettacolo

Disponibile nella versione HEAVY DUTY con
Tubi correnti Ø 50x3 mm
Diagonali Ø 20x2 mm

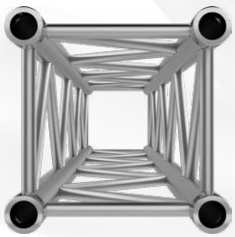
Technical Information
Main tubes Ø 50x2 mm
Diagonals Ø 20x2 mm

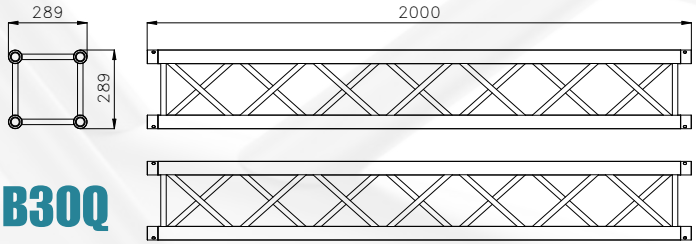
Connection system
Aluminium spigots and conical pins with "R" clips

Finishing
Natural aluminium or customized painting

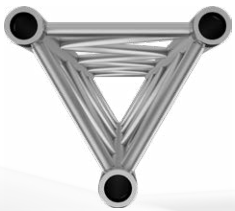
Applications
Ideal for fixed installations, exhibitions, studios, entertainment truss systems

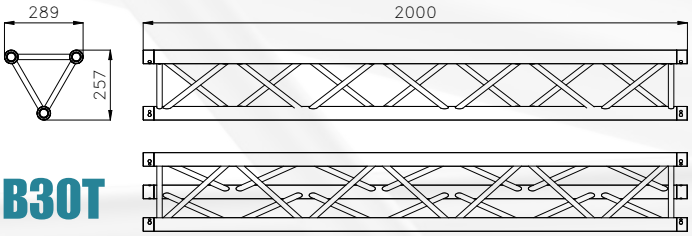
Available in HEAVY DUTY version with
Main tubes Ø 50x3 mm
Diagonals Ø 20x2 mm



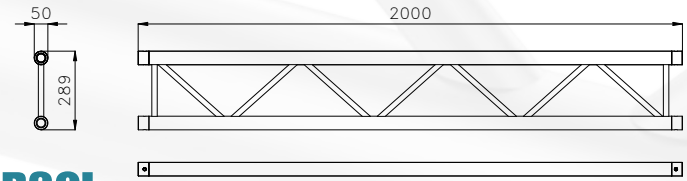


B30Q





B30T

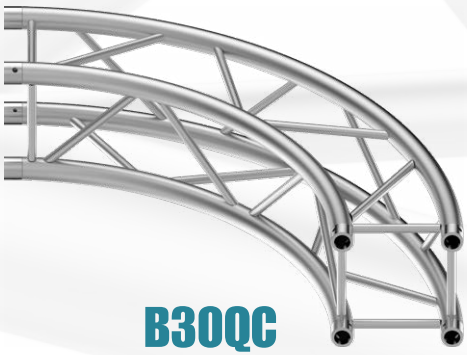


B30L

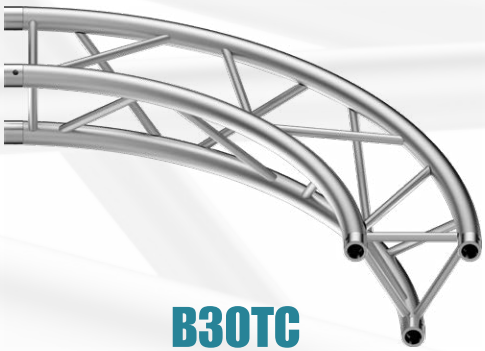
Cerchio in alluminio con boccola, lato 29 cm

Aluminium circle with bushing, 29 cm side

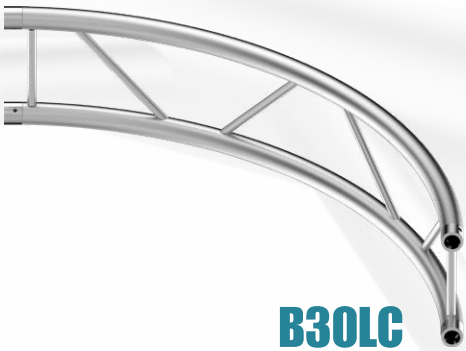
B30 C



B30QC



B30TC



B30LC

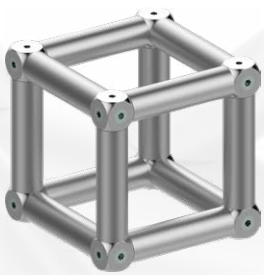
Cubo di giunzione, lato 29 cm

29 cm Side Corner Box

C30

C30L 2

C30Q 4



C30Q 8

B40

Traliccio in alluminio con boccola, lato 40 cm

Aluminium truss with bushing, 40 cm side

Informazioni Tecniche
B40Q - B40L
Tubi correnti Ø 50x2 mm
Diagonali Ø 20x2 mm

Sistema di giunzione
Giunti in alluminio e spine coniche con copiglie

Finitura
Alluminio naturale o verniciatura personalizzata

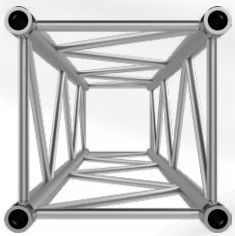
Applicazioni
Ideale per installazioni fisse, allestimenti fieristici, studi televisivi, strutture per lo spettacolo

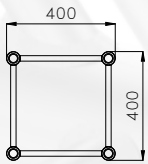
Technical Information
B40Q - B40L
Main tubes Ø 50x2 mm
Diagonals Ø 20x2 mm

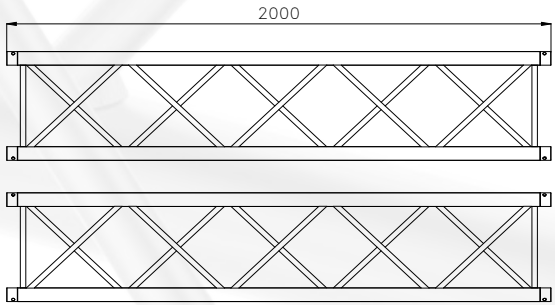
Connection system
Aluminium spigots and conical pins with "R" clips

Finishing
Natural aluminium or customized painting

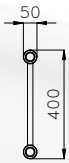
Applications
Ideal for fixed installations, exhibitions, studios, entertainment truss systems

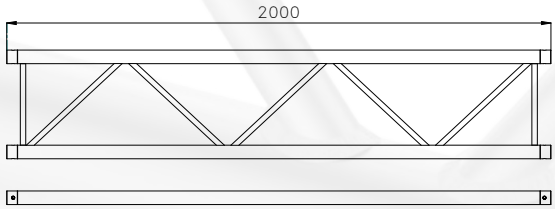




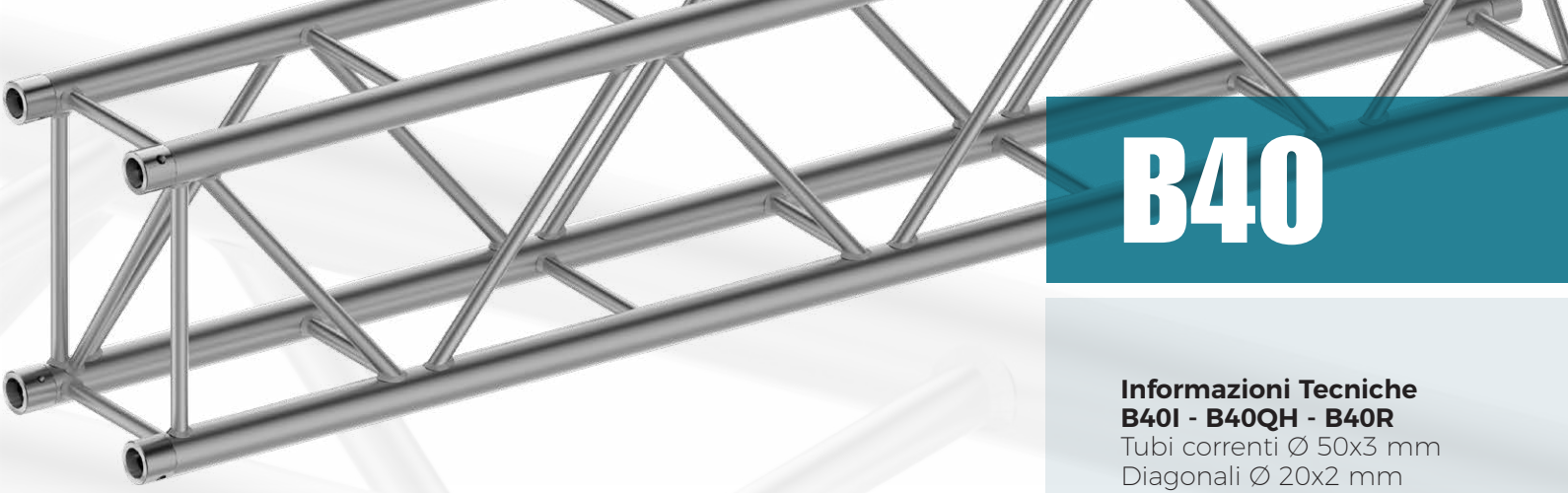


B40Q





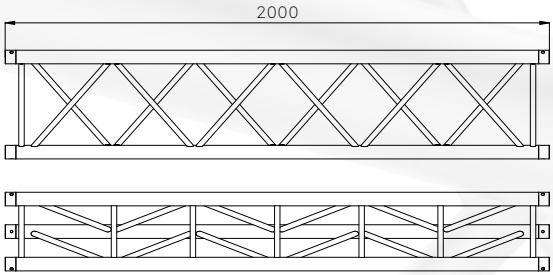
B40L

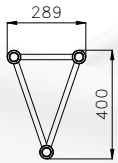


B40

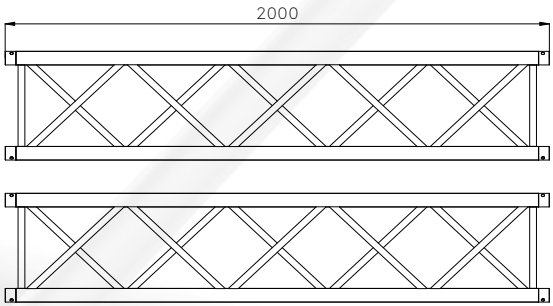
Informazioni Tecniche
B40I - B40QH - B40R
Tubi correnti Ø 50x3 mm
Diagonali Ø 20x2 mm

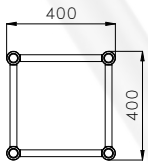
Technical Information
B40I - B40QH - B40R
Main tubes Ø 50x3 mm
Diagonals Ø 20x2 mm



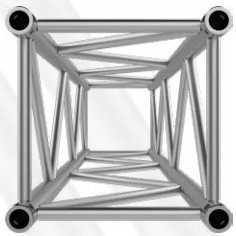


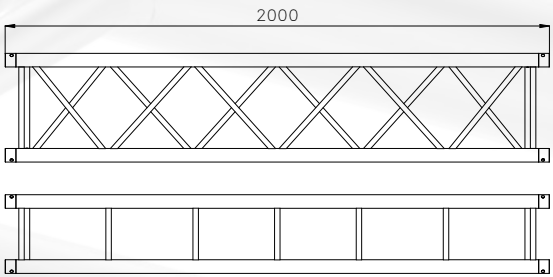
B40I

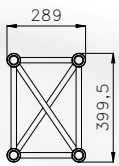




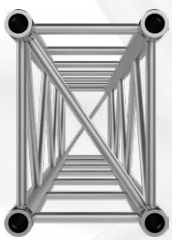
B40QH







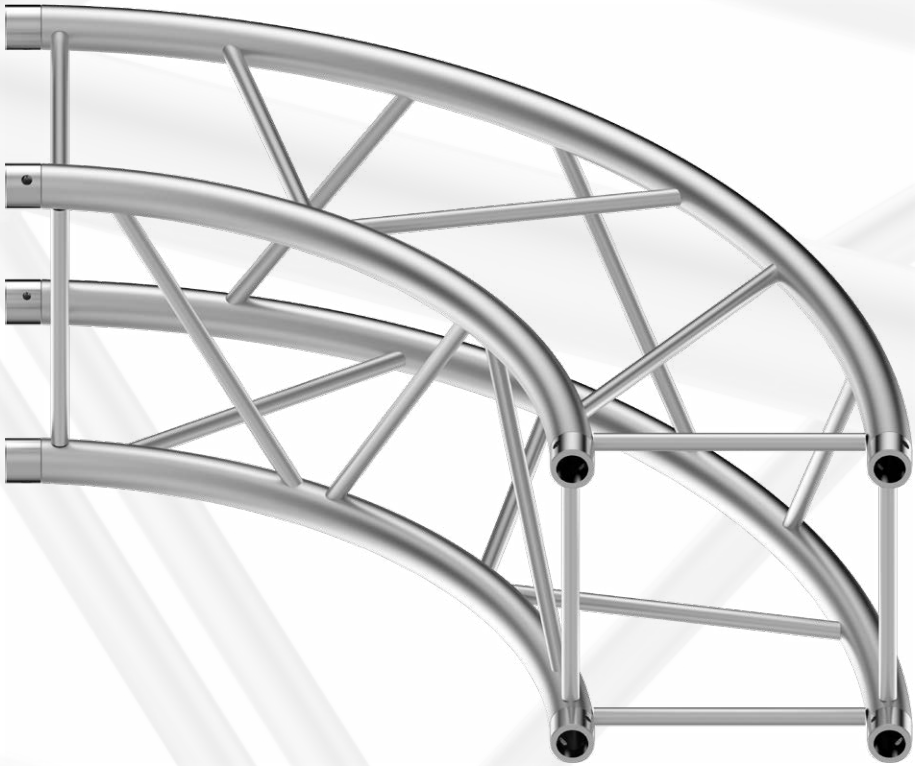
B40R



B40 C

Cerchio in alluminio con boccola, lato 40 cm

Aluminium circle with bushing, 40cm side

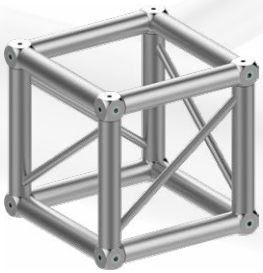


C40

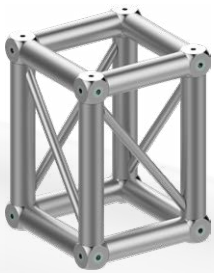
Cubo di giunzione, lato 40 cm

40 cm side Corner Box

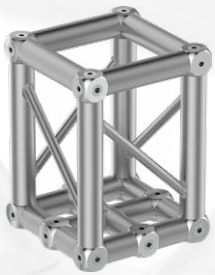
C40Q 4



C40Q 8



C40R 8



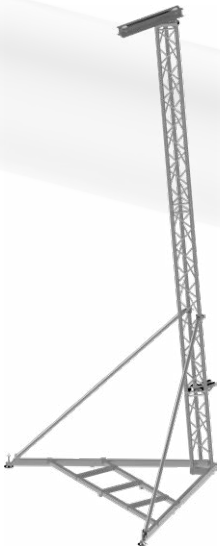
C40R 12

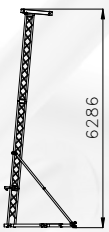
Torri in alluminio per sospensione sistemi audio

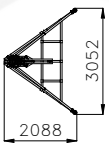
Aluminium Towers for audio system

B30-40 SL

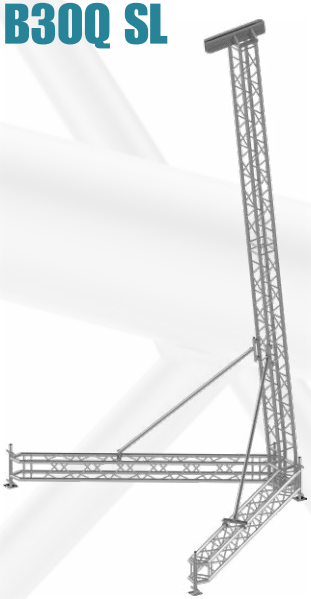
B30T SL

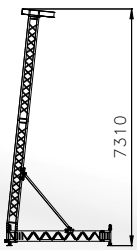


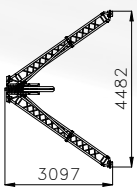




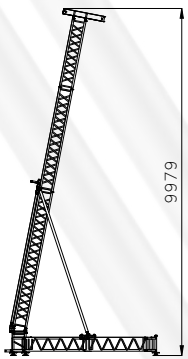
B30Q SL

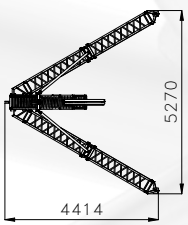






B40Q SL





Informazioni Tecniche
Tubi correnti Ø 50x2 mm
Diagonali Ø 20x2 mm

Prodotto disponibile nella versione P30 e P40.

Capacità di carico
B30T SL -> 300 kg
B30Q SL -> 550 kg
B40Q SL -> 900 kg

Technical Information
Main tubes Ø 50x2 mm
Diagonals Ø 20x2 mm

Available in P30 and P40 version

Loading capacity
B30T SL -> 300 kg
B30Q SL -> 550 kg
B40Q SL -> 900 kg

P25

Traliccio in alluminio con piastra, lato 25 cm

Aluminium truss with end plate, 25 cm side

Informazioni Tecniche
Tubi correnti Ø 50x2 mm
Diagonali Ø 12x1,5 mm

Doppio Sistema di giunzione
Giunti in alluminio e spine coniche con copiglie, in alternativa viti e dadi M8

Finitura
Alluminio naturale o verniciatura personalizzata

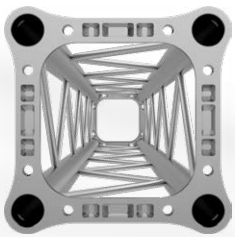
Applicazioni
Ideale per installazioni fisse, allestimenti fieristici, studi televisivi

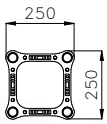
Technical Information
Main tubes Ø 50x2 mm
Diagonals Ø 12x1,5 mm

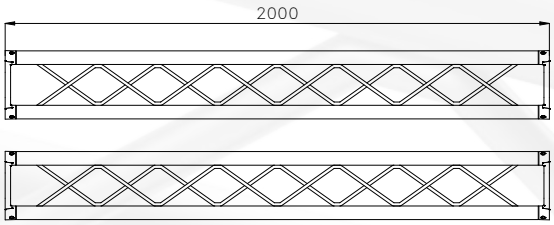
Double Connection system
Aluminium spigots and conical pins with "R" clips, or bolt and M8 nuts

Finishing
Natural aluminium or customized painting

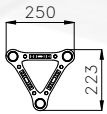
Applications
Ideal for fixed installations, exhibitions, studios

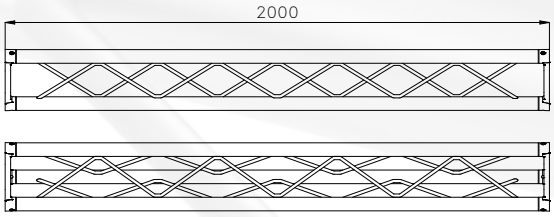




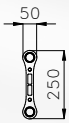


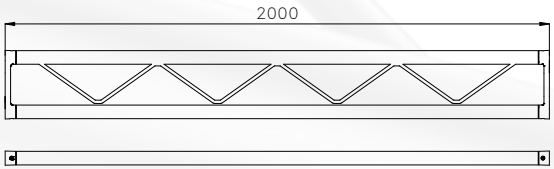
P25Q





P25T



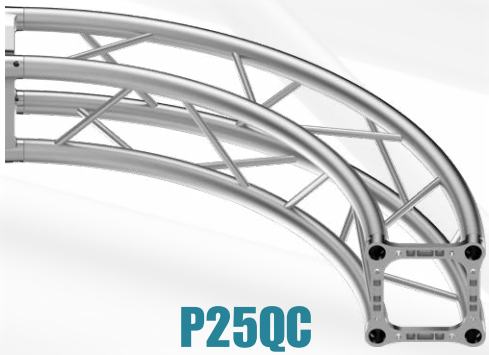


P25L

Cerchio in alluminio con piastra, lato 25 cm

Aluminium circle with end plate, 25 cm side

P25 C



P25QC

P25TC

P25LC

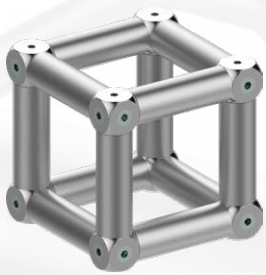
Cubo di giunzione, lato 25 cm

25 cm side Corner Box

C25

C25L 2

C25Q 4



C25Q 8

P30

Traliccio in alluminio con piastra, lato 29 cm

Aluminium truss with end plate, 29 cm side

Informazioni Tecniche
Tubi correnti Ø 50x2 mm
Diagonali Ø 18x2 mm

Doppio Sistema di giunzione
Giunti in alluminio e spine coniche con copiglie, in alternativa viti e dadi M10

Finitura
Alluminio naturale o verniciatura personalizzata

Applicazioni
Ideale per installazioni fisse, allestimenti fieristici, studi televisivi, strutture per lo spettacolo

Disponibile nella versione HEAVY DUTY con
Tubi correnti Ø 50x3 mm
Diagonali Ø 20x2 mm

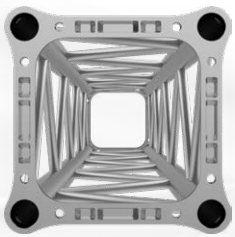
Technical Information
Main tubes Ø 50x2 mm
Diagonals Ø 18x2 mm

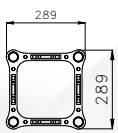
Double Connection system
Aluminium spigots and conical pins with "R" clips, or bolt and M10 nuts

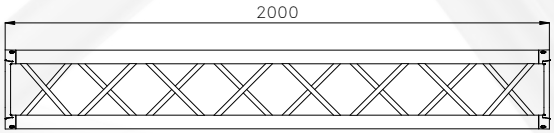
Finishing
Natural aluminium or customized painting

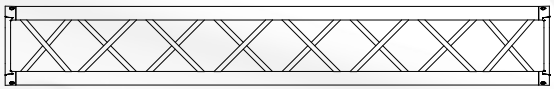
Applications
Ideal for fixed installations, exhibitions, studios, entertainment truss systems

Available in HEAVY DUTY version with
Main tubes Ø 50x3 mm
Diagonals Ø 20x2 mm

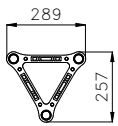


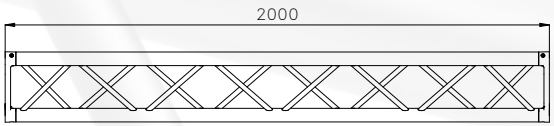


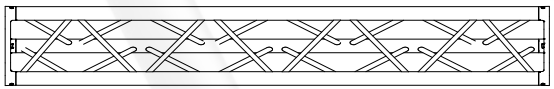




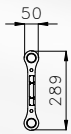
P30Q

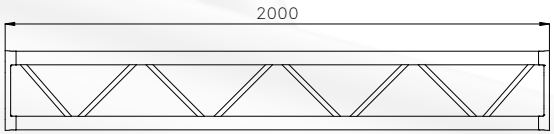


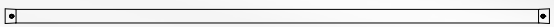




P30T





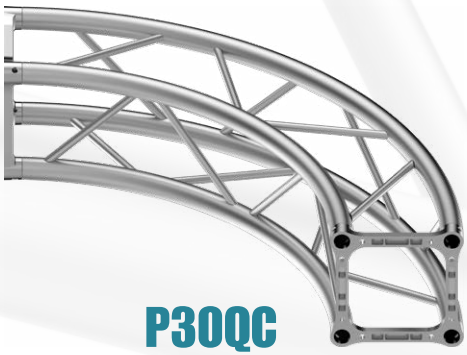


P30L

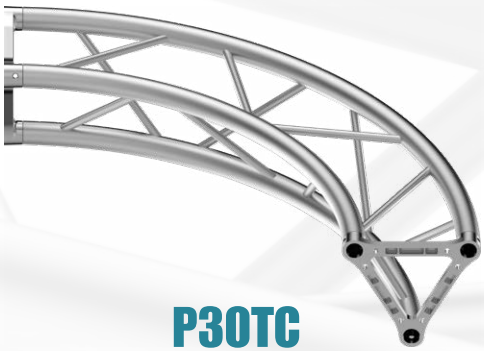
Cerchio in alluminio con piastra, lato 29 cm

Aluminium circle with end plate, 29 cm side

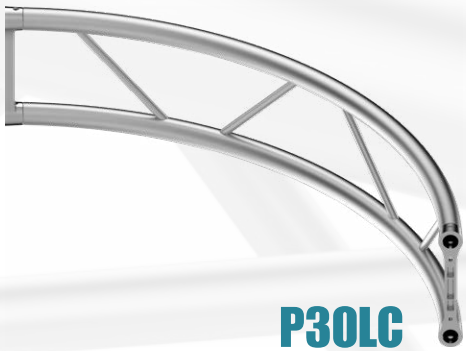
P30 C



P30QC



P30TC



P30LC

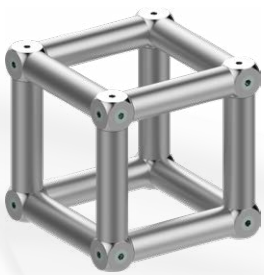
Cubo di giunzione, lato 29 cm

29 cm Side Corner Box

C30

C30L 2

C30Q 4



C30Q 8

P40

Traliccio in alluminio con piastra, lato 40 cm

Aluminium truss with end plate, 40 cm side

Informazioni Tecniche
Tubi correnti Ø 50x2 mm
Diagonali Ø 20x2 mm

Doppio Sistema di giunzione
Giunti in alluminio e spine coniche con copiglie, in alternativa viti e dadi M10

Finitura
Alluminio naturale o verniciatura personalizzata

Applicazioni
Ideale per installazioni fisse, allestimenti fieristici, studi televisivi, strutture per lo spettacolo

Disponibile nella versione HEAVY DUTY con
Tubi correnti Ø 50x3 mm
Diagonali Ø 25x2 mm

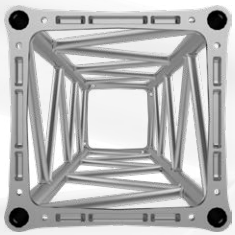
Technical Information
Main tubes Ø 50x2 mm
Diagonals Ø 20x2 mm

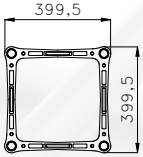
Double Connection system
Aluminium spigots and conical pins with "R" clips, or bolt and M10 nuts

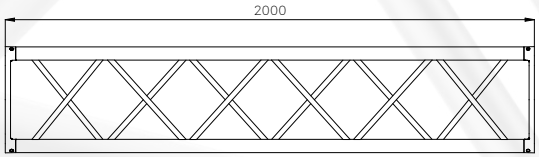
Finishing
Natural aluminium or customized painting

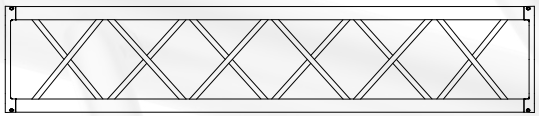
Applications
Ideal for fixed installations, exhibitions, studios, entertainment truss systems

Available in HEAVY DUTY version with
Main tubes Ø 50x3 mm
Diagonals Ø 25x2 mm

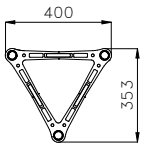


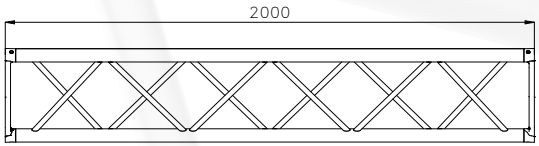


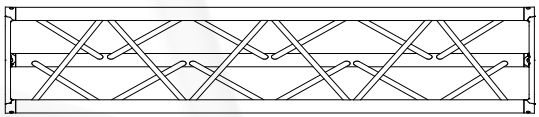




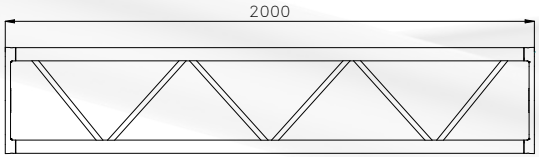
P40Q

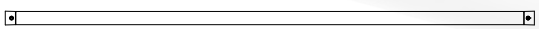






P40T



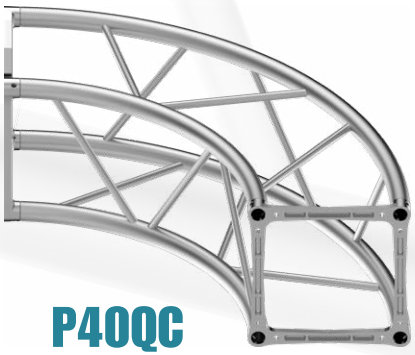


P40L

Cerchio in alluminio con piastra, lato 40 cm

Aluminium circle with end plate, 40 cm side

P40 C



P40QC

P40TC

P40LC

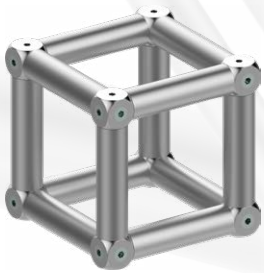
Cubo di giunzione, lato 40 cm

40 cm Side Corner Box

C40

C40L 2

C40Q 4



C40Q 8

F40-60

Traliccio in alluminio con connessione a forca

Aluminium truss with fork connection

Informazioni Tecniche

F40Q - F60R
Tubi correnti Ø 50x4 mm
Diagonali Ø 30x3 mm

Sistema di giunzione
Connessione a forca, spine con copiglie

Finitura
Alluminio naturale o verniciatura personalizzata

Applicazioni
Ideale per allestimenti in cui si richiedono capacità di carico elevate

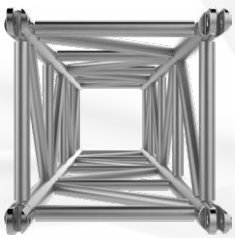
Technical Information

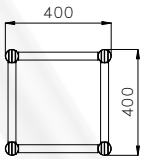
F40Q - F60R
Main tubes Ø 50x4 mm
Diagonals Ø 30x3 mm

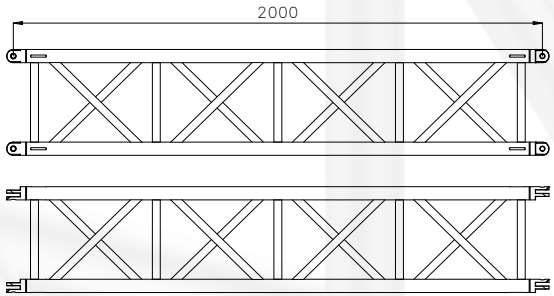
Connection system
Fork connection, pins with "R" clips

Finishing
Natural aluminium or customized painting

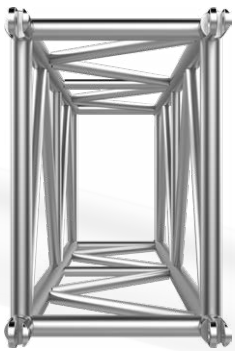
Applications
Ideal for high load capacity installations

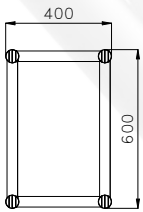


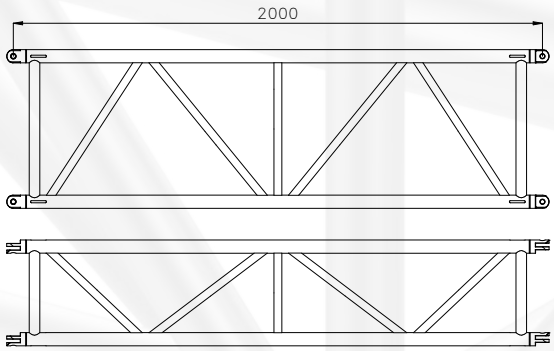




F40Q

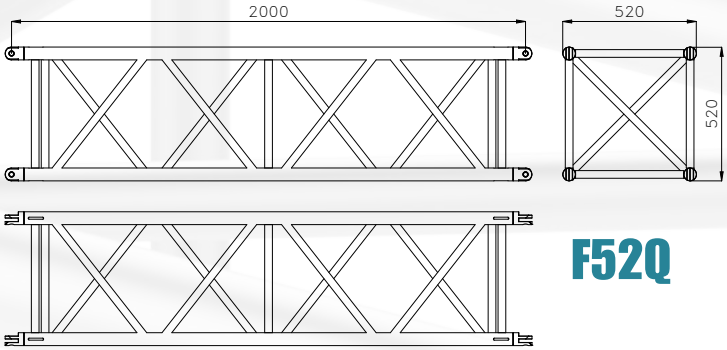




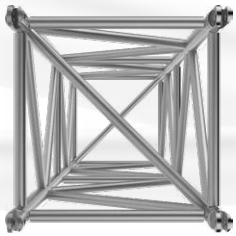


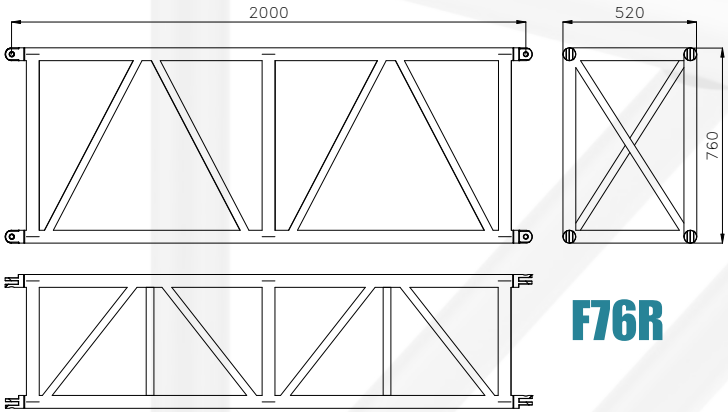
F60R

F52-100

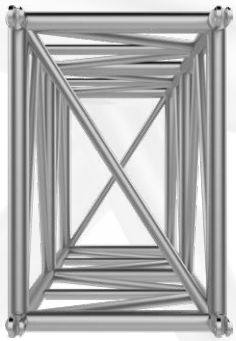


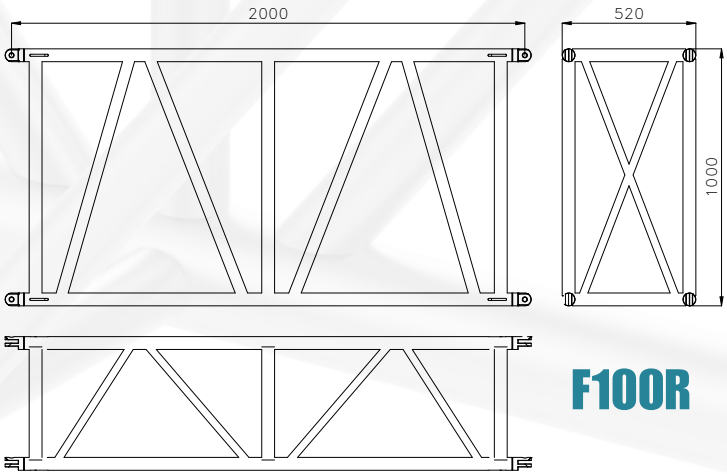
F52Q



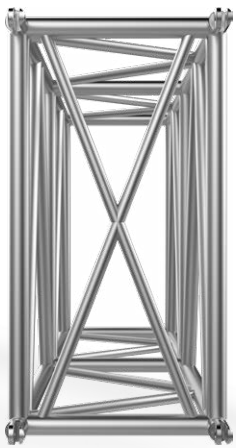


F76R





F100R



Informazioni Tecniche

F52Q - F76R
Tubi correnti Ø 50x4 mm
Diagonali Ø 30x3 mm

F100R
Tubi correnti Ø 60x5 mm
Diagonali Ø 50x4 - 50x3 mm

Technical Information

F52Q - F76R
Main tubes Ø 50x4 mm
Diagonals Ø 30x3 mm

F100R
Main tubes Ø 60x5 mm
Diagonals Ø 50x4 - 50x3 mm

Accessori per tralicci

Trusses Accessories

Prodotto disponibile in colore nero.

Available in black color

C100

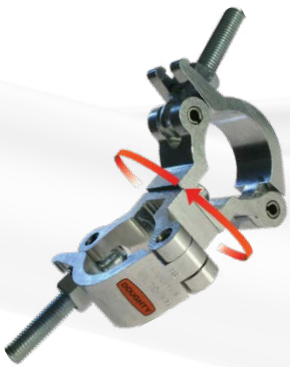
C101

C201

C301

C301 E

C301 S



C302

C501

C501 E

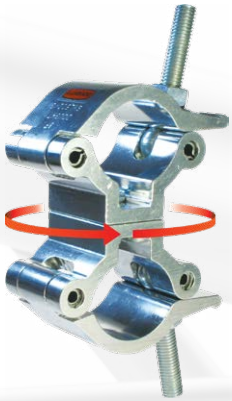
Accessori per tralicci

Trusses Accessories

Prodotto disponibile in colore nero.

Available in black color

C501 S



C502

C750

C750 E

C750 S

KC1

UTS1

TS 25-30-40

LF1-2