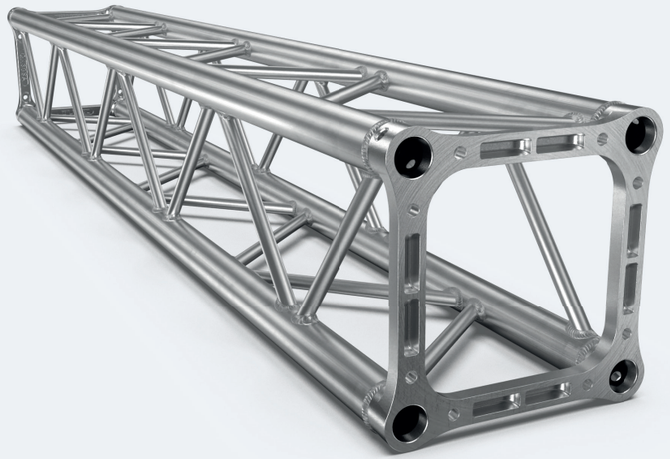
END PLATED TRUSS
QX30SA

Anti-torsion



Square truss with 29 cm sides

By far the most widely used truss in the LITEC range, thanks to its anti-torsion design and ideal balance of weight, size and load capacity. A true all-rounder, ready for thousand different applications.

It also serves as the main structural component for:

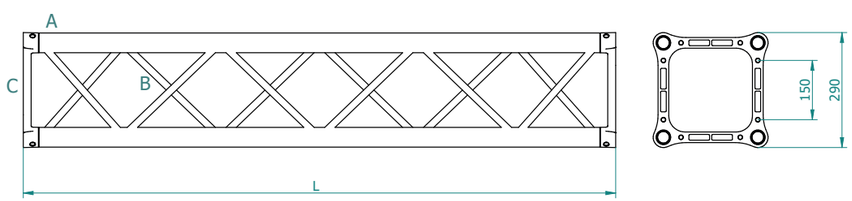
- Towerlift 3
- Flyintower 6-300
- Flyintower 7.5-500
- Unitower system

Main tubes: Ø50 × 2 mm aluminium
Diagonals: Ø18 × 2 mm aluminium

LINEAR ELEMENTS

Code	W × H × D (cm)	kg	Code	W × H × D (cm)	kg
QU30ADP010M5	29 × 29 × 10.5	2.9	QX30SA150	29 × 29 × 150	9.5
QU30ADP019M5	29 × 29 × 19.5	3.6	QX30SA200	29 × 29 × 200	11.8
QU30ADP021	29 × 29 × 21	3.4	QX30SA250	29 × 29 × 250	14.1
QX30SA025	29 × 29 × 25	3.6	QX30SA300	29 × 29 × 300	16.5
QX30SA029	29 × 29 × 29	3.8	QX30SA350	29 × 40 × 350	18.8
QX30SA050	29 × 40 × 50	4.8	QX30SA400	29 × 40 × 400	21.2
QX30SA100	29 × 40 × 100	7.1			

Chords A	Diagonals B	Ends C	Connection systems
Extruded tube Ø 50 x 2 mm EN AW - 6082 T6	Extruded tube Ø 18 x 2 mm EN AW – 6082 T6	Aluminium casting plate EN AC – 42200 T6	QXFC: quick-fit kit QXSM10: bolt connection kit



Load table / Spigot connection

span	Unif. distributed load			Centre point load			Third point load			Quarter point load			Fifth point load		
	Point load	Full load	Central deflection	Point load	Full load	Central deflection	Point load	Full load	Central deflection	Point load	Full load	Central deflection	Point load	Full load	Central deflection
[m]	[kg/m]	[kg]	mm	[kg]	[kg]	mm	[kg]	[kg]	mm	[kg]	[kg]	mm	[kg]	[kg]	mm
1	2484	2484	0.3	2484	2484	0.4	1242	2484	0.4	828	2484	0.3	621	2484	0.3
2	1239	2478	2	1981	1981	3	1239	2478	3	826	2478	3	620	2478	3
3	824	2473	7	1386	1386	6	988	1976	8	720	2161	8	586	2344	8
4	550	2200	15	1057	1057	12	768	1536	14	542	1625	14	445	1779	15
5	350	1750	24	850	850	18	624	1248	23	433	1298	22	357	1427	23
6	241	1448	34	708	708	27	523	1046	33	359	1077	32	297	1187	34
7	176	1231	46	605	605	37	449	898	46	306	917	44	253	1013	46
8	133	1067	60	526	526	48	392	783	60	265	796	57	220	880	60
9	104	939	76	463	463	61	346	692	77	233	700	72	194	776	76
10	83	834	94	413	413	76	309	618	95	208	623	89	173	691	94
11	68	748	114	371	371	92	278	556	115	186	559	108	155	621	114
12	56	676	135	335	335	110	252	504	138	168	505	129	140	561	136
13	47	613	159	304	304	130	230	459	162	153	458	151	127	510	160
14	40	559	184	278	278	151	210	420	188	139	418	176	116	465	185
15	34	511	212	254	254	174	193	386	217	127	382	202	107	426	213
16	29	469	241	233	233	199	177	355	247	117	351	230	98	392	243
17	25	431	272	214	214	226	164	327	280	107	322	260	90	360	274
18	22	396	305	197	197	255	151	302	314	99	297	292	83	332	308

Cantilever load table / Spigot connection

span	Unif. distributed load			Centre point load	
[m]	[kg/m]	[kg]	mm	[kg]	mm
1	1239	1239	1	990	3
2	491	982	8	528	12
3	227	681	19	354	26
4	128	512	35	262	47
5	81	405	55	206	73
6	55	330	79	167	105

Axial load table

span	Unif. distributed load
[m]	[kg/m]
3	6327
6	3215
9	1502
12	862

Load table has been prepared in accordance with EN 1999-1-1. 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 the the truss. This is the live load or the payload.

The self weight of the truss has been taken into account when calculating the values in the table. It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

Connections

End Plated Truss **QX30SA**



End-plated trusses are compatible with two connection options: the **spigotted connection**, which is the preferred solution for temporary setups and the most widely used by professionals, and the common **nut and bolt system**. Load data in the tables of this catalogue refer to the spigot connection. **The bolted connection reduces performance**. Please contact our Technical Office for guidance.



KSG

Aluminium spigot, set of 10



KCP **KSP**

R-spring, set of 100 — Steel Pin, set of 10



K370

Half truss spigot + 1 steel pin + 1 R-spring (not for Dado)



KSFH

Threaded pin, set of 12



KSFHZ1

Stainless steel pin with self-locking nut and rubber damper. Recommended for permanent installations. Set of 12.



KCFS

Kit for vert. connection incl. bolts, spigots and accessories



QXFC

Quick connection set



QXSM10

Bolt connection set for 30 – 40 series



QXCFC

4 special steel half spigots with screws for Light Duty Dado



QUKFC

4 special steel half spigots with screws for Heavy Duty Dado

Complements

A range of complementary elements is available as standard to help you interface your QX30SA in the best possible way.



FP30

FX30/TX30/QX30/TH30/QH30 universal floor plate



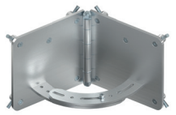
FP30M

FX30/TX30/QX30/TH30/QH30 universal floor plate (large 50×50 cm)



QU30TR

Lighting support



Q30SL2ADJ

Adjustable angle 0-180°



C030

Bar hook for 29 cm. truss



C030WB

29 cm wall bracket w/ half couplers



SASSL-B815

Support for transport & stacking of 2 x series 30 trusses



SASSL-C225

Support for transport & stacking of 4 x series 30 trusses



C029-40

Ceiling support for 30-40 truss series



CBT3040

2 points Bridle Hook for 29 / 40 cm truss



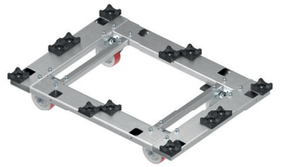
CBQ3040

4 points Bridle Hook for 29/40 cm. truss



TZ30C01 / TZ30K01

Assembly tool for half-spigot for Dado 25&29 cm.
(C01 for Light-Duty, K01 for Heavy-Duty)



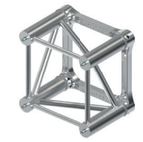
SASSL-C409

Universal trolley for transport of series 30 & 40 trusses



QU30TRC

Lighting support - Diameter 100 cm



QX30K8A021

Adapter for Dado QU30K8

Dado, the multi-way box

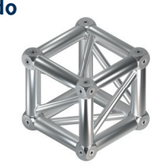
The Litec Dado system is designed for interconnecting flat and square trusses. Its coupling concept allows the creation of 90° angles in any direction, while maintaining the outer dimensions of the truss and ensuring visual continuity. Each truss has its own dedicated Dado model. Each version includes **Light-Duty** models with die-cast nodes, as well as **Heavy-Duty** models featuring CNC-machined solid aluminium nodes.

Light-Duty Dado



Code	W × D × H (cm)	Kg
FX30C4	29 × 29 × 5	4.2

The Dado 6-way box corner (4 nodules) is the Dado version designed to connect QX30SA. Light-Duty version with welded diagonal.



Code	W × D × H (cm)	Kg
QX30C8	29 × 29 × 29	12.3

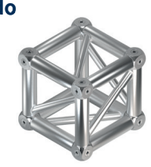
The Dado 6-way box corner (8 nodules) is the simplest and most scalable solution to create corners with up to 6 directions For QX30SA series.
Light-Duty version with welded diagonals.

Heavy-Duty Dado



Code	W × D × H (cm)	Kg
FU30K4	29 × 29 × 5	4.7

The Dado 6-way box corner (6 nodules) is the simplest and most scalable solution to connect QX30SA.
Heavy-Duty version with welded diagonal.



Code	W × D × H (cm)	Kg
QU30K8	29 × 29 × 29	12.8

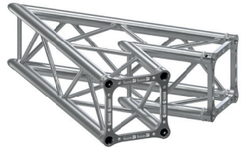
The Dado 6-way box corner (8 nodules) is the simplest and most scalable solution to create corners with up to 6 directions.
For QX30SA series.
Heavy-duty version with welded diagonals.

Corners

End Plated Truss **QX30SA**

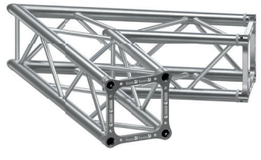


A wide range or corner elements is available for the QX30SA System. Standard corners come in various opening angles. Here we present the most commonly used angles. Other solutions are available on request.



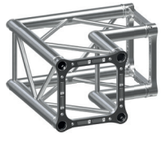
Code	W × D × H (cm)	Kg
QX30SAL2045	100 × 100 × 29	8.5

ST 29 cm square 2 ways 45° corner



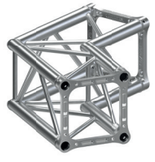
Code	W × D × H (cm)	Kg
QX30SAL2060	100 × 100 × 29	9.2

ST 29 cm square 2 ways 60° corner



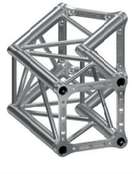
Code	W × D × H (cm)	Kg
QX30SAL2090	50 × 50 × 29	5.9

ST 29 cm square 2 ways 90° corner



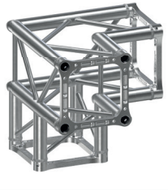
Code	W × D × H (cm)	Kg
QX30SAL2120	50 × 50 × 29	6.9

ST 29 cm square 2 ways 120° ext. vertex



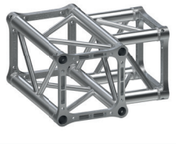
Code	W × D × H (cm)	Kg
QX30SAL2135	50 × 50 × 29	6.3

ST 29 cm square 2 ways 135° corner, int. vertex



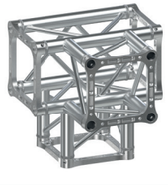
Code	W × D × H (cm)	Kg
QX30SAL3	50 × 50 × 50	8.2

ST 29 cm square 3 way corner



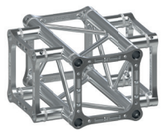
Code	W × D × H (cm)	Kg
QX30SAT3	50 × 50 × 29	7.3

ST 29 cm square 3 way tee



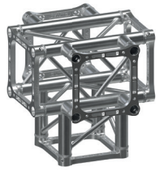
Code	W × D × H (cm)	Kg
QX30SAT4	50 × 50 × 50	9.7

ST 29 cm square 4 way tee



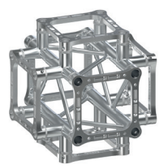
Code	W × D × H (cm)	Kg
QX30SAX4	50 × 50 × 29	8.2

ST 29 cm square 4 way cross



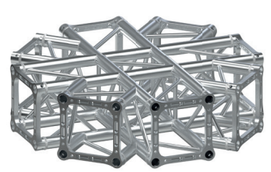
Code	W × D × H (cm)	Kg
QX30SAX5	50 × 50 × 50	9.9

ST 29 cm square 5 way cross



Code	W × D × H (cm)	Kg
QX30SAX6	50 × 50 × 50	11.2

ST 29 cm square 6 way cross



Code	W × D × H (cm)	Kg
QX30SAX8	100 × 100 × 29	11.2

ST 29 cm square 8 way cross



Code	W × D × H (cm)	Kg
QU30BHH	100 × 32 × 40	20

Truss hinge 29 cm square



Code
QU30ADP-001

7° angled spacer for series 30 square trusses.



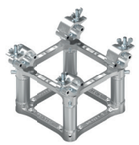
Code
QU30ADP-052

5° angled spacer for series 30 square trusses



Code
QX30SAACS

ST 29 cm. square - Clamp module short

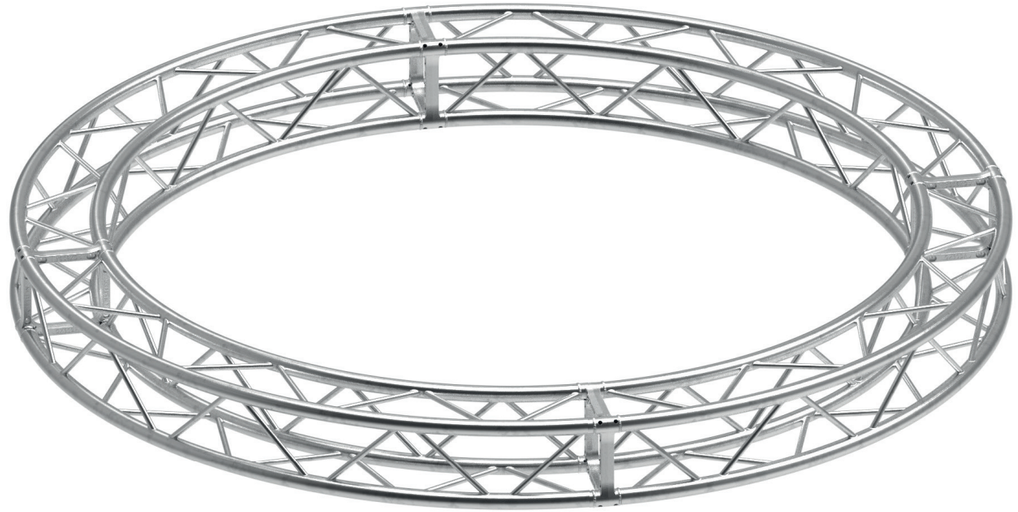


Code
QX30SAACL

ST 29 cm. square - Clamp module long

Curves, Circles & Ellipses

The QX30SA truss can be supplied with curved elements to form **circular arcs, complete circles, or ellipses**.



These elements are tipically custom-made, and when creating an arc, the following design limits apply:

Minimum radius: 1 m (no limit on maximum radius)
Arc Length: not exceeding 4 m

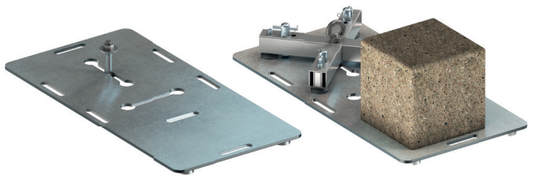
Within these parameters, virtually any variation can be produced to bring your vision to life.

For circles of all models in the End Plated Truss series, refer to pages 68 and 69.

Compact bases

This section covers the range of compact bases and ballast-carrying solutions.
The **Support Base** is a steel plate designed to improve base levelling on the ground and to accommodate ballast. It is the ideal complement to the **compact base** series, which can be assembled **without tools**, simply by interlocking the two ground profiles. The weight of the tower itself acts as a stabilising element for the connection.
The **BFB version** features profiles specifically designed to house standard concrete plates used as ballast.

Ballast Support Base QU2530SBB



- Outdoor Levelling & Ballast Support
- Outdoor solution for levelling bases and ballast support
- Easy and fast mounting
- Compatible with standard **QU25/QU30 tool-less bases**
- Provision for bolted connection
- Provision for ratchet belt

Tool-less Base LT QU2530BF



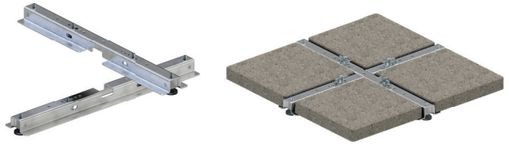
- Lightweight, compact solution for indoor use.
- Compatible with all standard **25/30 square trusses**

Tool-less Base LT QU2552BFB



- Lightweight, compact solution for indoor use.
- Compatible with all standard **25/30/40-QL40/QL52 square trusses**
- Self-adjusting design

Tool-less Base LT QU2552BFB



- Lightweight, compact solution for indoor use.
- Compatible with all standard **25/30/40-QL40/QL52 square trusses**
- Self-adjusting design
- Designed to accommodate standard concrete blocks (50 ×50 ×5 cm, approx. 18 kg each), not supplied by LITEC



The use of these bases must always be considered within a safety context, including indoor applications.
Any structure installed on these bases must be assessed by qualified personnel for the relevant declaration of correct installation.