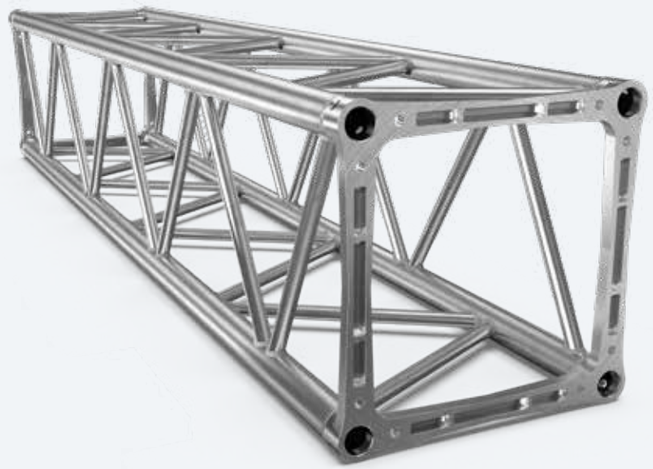
END PLATED TRUSS
QH40SA

Anti-torsion



Square truss with 40 cm sides

Thanks to its larger size and anti-torsion design, this truss offers increased load capacity and longer spans compared to all smaller models in the range.

Commonly used for exhibition areas and in all applications where higher performance and solid load-bearing capabilities are required.

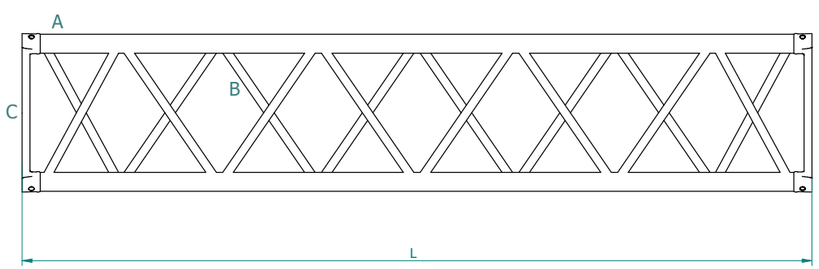
Its robust anti-torsion design also makes it an excellent choice for use as a tower truss.

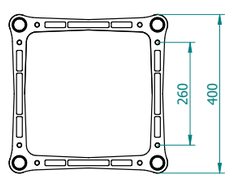
Main tubes: Ø48 × 3 mm aluminium

Diagonals: Ø22 × 2 mm aluminium

LINEAR ELEMENTS					
Code	W × H × D (cm)	kg	Code	W × H × D (cm)	kg
QU40ADP010	40 × 40 × 10	4.5	QH40SA200	40 × 40 × 200	17.2
QH40SA025	40 × 40 × 25	5.6	QH40SA250	40 × 40 × 250	20.7
QH40SA050	40 × 40 × 50	7.4	QH40SA300	40 × 40 × 300	23.8
QH40SA100	40 × 40 × 100	10.5	QH40SA350	40 × 40 × 350	27.5
QH40SA150	40 × 40 × 150	14.1	QH40SA400	40 × 40 × 400	30.8

Chords A	Diagonals B	Ends C	Connection systems
Extruded tube Ø 48 × 3 mm EN AW - 6082 T6	Extruded tube Ø 22 × 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	3650	3650	0	3650	3650	0	1825	3650	0	1217	3650	0	913	3650	0
2	1822	3644	1	2822	2822	1	1736	3471	1	1215	3644	1	911	3644	1
3	1213	3638	4	2180	2180	3	1408	2815	4	1093	3279	4	907	3627	4
4	908	3631	8	1767	1767	7	1176	2353	7	936	2809	8	767	3066	9
5	693	3467	16	1480	1480	11	1006	2013	12	816	2447	14	637	2549	14
6	486	2919	23	1270	1270	16	877	1754	19	691	2073	20	544	2176	21
7	359	2515	31	1110	1110	22	775	1550	26	597	1790	28	474	1894	29
8	276	2206	41	984	984	30	693	1386	35	524	1572	37	418	1674	38
9	218	1960	52	881	881	38	625	1251	46	466	1399	47	374	1496	48
10	176	1761	65	797	797	48	569	1138	58	419	1257	59	338	1350	60
11	145	1590	79	725	725	58	521	1041	71	380	1139	72	307	1228	74
12	120	1445	94	664	664	70	479	958	85	347	1040	86	281	1123	88
13	102	1322	110	612	612	83	443	885	101	318	954	101	258	1033	104
14	87	1215	128	565	565	97	411	821	118	293	879	118	239	954	122
15	75	1122	146	524	524	112	382	765	137	271	814	135	221	885	140
16	65	1039	167	488	488	129	357	714	157	252	755	155	206	823	160
17	57	965	188	455	455	146	334	668	178	234	703	175	192	767	181
18	50	899	211	425	425	165	313	626	201	219	656	197	179	717	204

Cantilever load table / Spigot connection

span	Unif. distributed load			Centre point load	
[m]	[kg/m]	[kg]	mm	[kg]	mm
1	1822	1822	1	1408	1
2	700	1400	4	880	6
3	358	1074	10	632	16
4	216	862	19	489	29
5	143	714	32	395	46
6	101	605	47	329	68

Axial load table

span	Unif. distributed load
[m]	[kg/m]
3	9697
6	7444
9	4316
12	2519

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 **QH40SA**



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, Steel Pin,
set of 100 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 QH40SA in the best possible way.



FP40

QX40/QH40 floor plate
(40 x 40 cm)



QU3040H050

29-40 Special Truss L=050
with hoist support



CBT3040

2 points Bridle Hook for 29 / 40 cm truss



CBQ3040

4 points Bridle Hook for 29/40 cm. truss



QX30SAACS

ST 29 cm. square
Clamp module short



C040WB

40 cm wall bracket w/ half couplers



C029-40

Ceiling support for 29-40 truss series



SASSL-C406

Support for transport & stacking of 2 x
series 40 trusses



SASSL-C409

Universal trolley for transport of series 30
& 40 trusses



TZ40K01

Assembly tool for half-spigot for Dado
29/40 cm. (For heavy-duty Dado)

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. The QH40SA line interfaces exclusively with the Heavy-Duty Dado series, featuring CNC-machined solid aluminium nodes.

Heavy-Duty Dado



Code	W × D × H (cm)	Kg
FU40K4	40 x 40 x 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
QU40K8	40 x 40 x 40	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.

Compact bases

End Plated Truss **QH40SA**



This section covers the range of compact bases and ballast-carrying solutions.
This compact base series is assembled without tools by simply interlocking the two ground profiles.
The tower's own weight stabilises the connection.
The **BFB version** features profiles specifically designed to house standard concrete plates used as ballast.

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.

Corners

End Plated Truss **QH40SA**



A wide range or corner elements is available for the QH40SA 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
QH40SAL2045	100 × 100 × 40	17.4
ST 40 cm square 2 ways 45° corner		



Code	W × D × H (cm)	Kg
QH40SAL2060	100 × 100 × 40	12.7
ST 40 cm square 2 ways 60° corner		



Code	W × D × H (cm)	Kg
QH40SAL2090	50 × 50 × 40	9.4
ST 40 cm square 2 ways 90° corner		



Code	W × D × H (cm)	Kg
QH40SAL2120	50 × 50 × 40	9.3
ST 40 cm square 2 ways 120° ext. vertex		



Code	W × D × H (cm)	Kg
QH40SAL2135	50 × 50 × 40	9.6
ST 40 cm square 2 ways 135° corner, int. vertex		



Code	W × D × H (cm)	Kg
QH40SAL3	50 × 50 × 50	11.9
ST 40 cm square 3 way corner		



Code	W × D × H (cm)	Kg
QH40SAT3	50 × 50 × 40	15
ST 40 cm square 3 way tee		



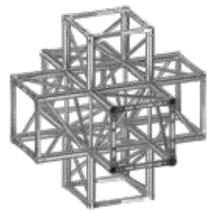
Code	W × D × H (cm)	Kg
QH40SAT4	50 × 50 × 50	17.5
ST 40 cm square 4 way tee		



Code	W × D × H (cm)	Kg
QH40SAX4	100 × 100 × 40	20.4
ST 40 cm square 4 way cross		

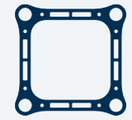


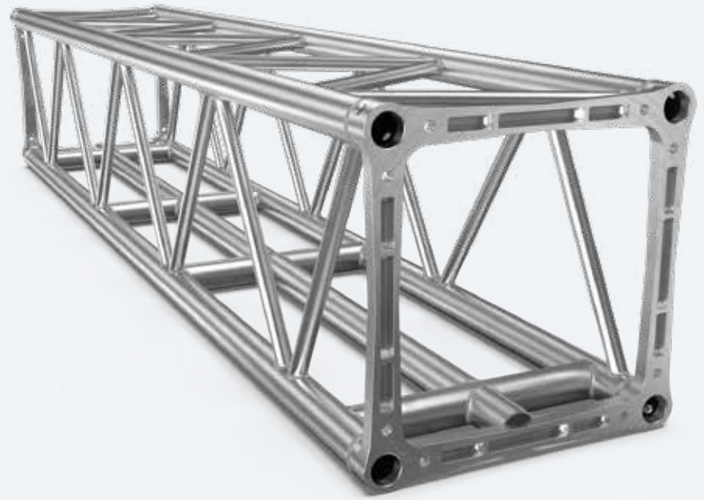
Code	W × D × H (cm)	Kg
QH40SAX5	100 × 100 × 50	22.9
ST 40 cm square 5 way cross		



Code	W × D × H (cm)	Kg
QH40SAX6	100 × 100 × 100	28.3
ST 40 cm. square 6 way cross		

END PLATED TRUSS
QH40SAZ





MIDDLE CHORD TRUSS

Square truss with 40 cm sides – Heavy-Duty line with central chord

A special version of the QH40SA line with a 48 mm diameter central chord. Designed for direct central hanging of balanced loads.

The ready-made solution for suspending LED walls, lighting fixtures, and scenic rigs.

Main tubes: Ø48 × 3 mm aluminium
Central Chord: Ø48 × 3 mm aluminium
Diagonals: Ø20 × 2 mm aluminium

Thanks to its distinctive design with a central chord, this truss offers unique load coefficients, available on request from our technical team.

Available in lengths of 100, 150, 200, 250, 300, 350 and 400 cm. Other lengths on request.

Chords A	Diagonals B	Ends C	Central Chord D	Connection systems
Extruded tube Ø 48 ×3 mm EN AW - 6082 T6	Extruded tube Ø 20 × 2 mm EN AW – 6082 T6	Aluminium casting plate EN AC – 42200 T6	Extruded tube Ø 48 × 3 mm EN AW - 6082 T6	QXFC: quick-fit kit QXSM10: bolt connection kit

