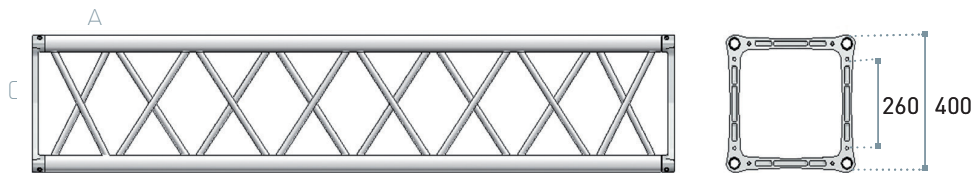




QX40SA ANTI-TORSION

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



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

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

Ends C: aluminium casting plate
EN AC 42200 T6

Connection systems

QXFC: quick-fit kit

QXSM10: bolt connection kit

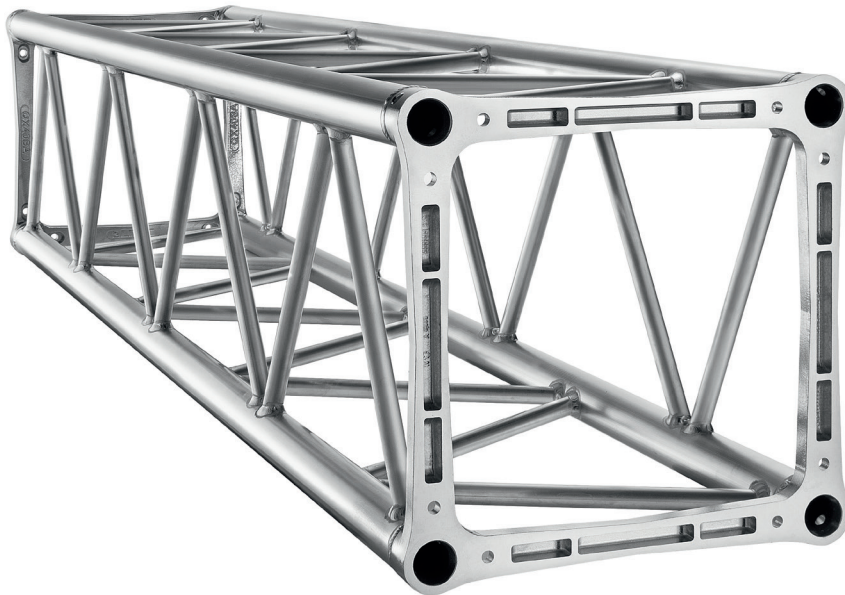
LINEAR ELEMENTS

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

CORNERS AND FITTINGS

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





QX40SA

LOAD TABLE / SPIGOT CONNECTION



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

CANTILEVER LOAD TABLE / SPIGOT CONNECTION

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

AXIAL LOAD TABLE

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

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


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

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

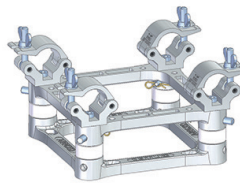
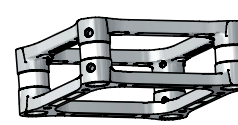
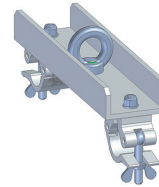
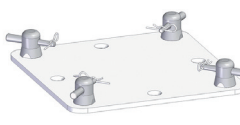


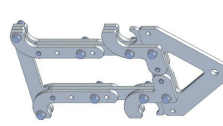
QX40SA SYSTEM

To further enhance the standard products, LITEC offers a wide range of corners, connections and accessories useful for many different applications and needs. "Quick connect" or "nult & bolt connect". End-plated trusses allow to use two different systems of connection. The quick-fit system is certainly the most wide-spread and mainly used when the structure is frequently assembled and dismantled. In case of permanent installations, on the other hand, a more economical bolt connection system may be used. Our plate is made in such a way that bolts may be completely inserted so that there are no edges or external protuberances which could damage canvases or other fabrics or which might simply be unaesthetic on certain structures.

QX40SA / CONNECTIONS

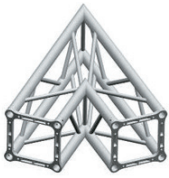
 <p>KSG Litetruss aluminium spigot, set of 10</p>	 <p>KCP R-spring, set of 100</p>	 <p>KSP Steel pin, set of 10</p>	 <p>K370 Half truss spigot + 1 steel pin + 1 R-spring (not for Dado)</p>	 <p>KSF Threaded pin, set of 12</p>	 <p>KCFS Kit for vert. connec incl. bolts, spigots and access</p>
 <p>QXFC Quick connection set for Q Series</p>	 <p>QXICU Set of 4 alum. jointed spigot for "X" and "D" truss</p>	 <p>QXKFC Set of 4 half spigot with M10 screws for Dado</p> <p>QUKFC Set of 4 half spigot with M12 screws for Dado</p>	 <p>QXKFACT Set of 4 half spigot with screw for Universal Sleeve Block</p>	 <p>QXSM10 Bolt connection set for Q25S Series</p>	

QX40SA / ACCESSORIES

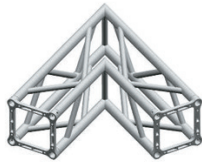
 <p>QX40SAACSC ST 40 cm. square Clamp module Towerlift/Varitower</p>	 <p>QU40ADPO10 Universal Adapter 29 cm. square Length 10.5 cm.</p>	 <p>CO40 Bar hook for 40 cm. truss</p>	 <p>FP30M Universal 29 cm. truss large floor plate</p>	 <p>FP40 Universal 40 cm. truss floor plate</p>
 <p>TZ40K01 Assembly tool for half-spigot in 40 cm. side truss</p>	 <p>CBQ3040 4 points Bridle Hook for 29/40 cm. truss</p>			



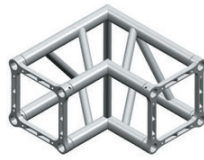
QX40SA / CORNERS & FITTINGS



QX40SL2045
ST 40 cm. square
2 way 45° corner



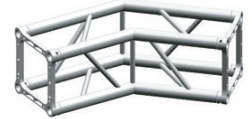
QX40SL2060
ST 40 cm. square
2 way 60° corner



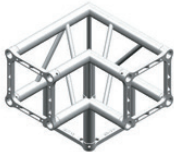
QX40SL2090
ST 40 cm. square
2 way 90° corner



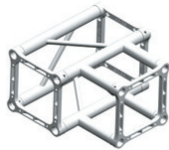
QX40SL2120
ST 40 cm. square 2 ways
120° corner, ext. vertex



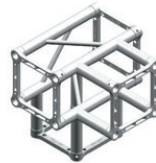
QX40SL2135
ST 40 cm. square 2 way
135° corner, int. vertex



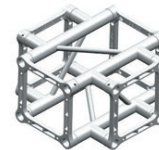
QX40SAL3
ST 40 cm. square
3 way corner



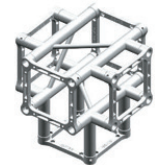
QX40SAT3
ST 40 cm. square
3 way tee



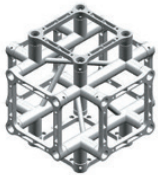
QX40SAT4
ST 40 cm. square
4 way tee



QX40SAX4
ST 40 cm. square
4 way cross



QX40SAX5
ST 40 cm. square
5 way cross

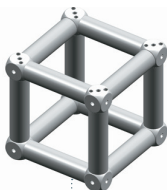


QX40SAX6
ST 40 cm. square
6 way cross

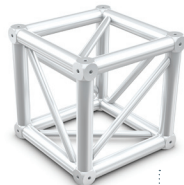
DADO SYSTEM DADO, the solution for all 90° corners and crosses. Managing corners and crosses is one of the biggest problems structure installers and hirers have to face. DADO is the answer. It is devised around a six-faced die-cast cube and may be put together in multifarious ways leaving the user complete freedom. The connection between DADO and the trusses is the quick-fit type, with special steel half spigots. Their assembly and alignment is made easy with an assembly template.



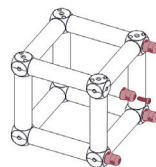
FX40K4
DADO 6 way flat
corner (4 nodules)
K4 is the DADO
version for square
and flat section
structures.



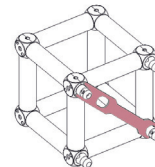
QX40K8
DADO 6 way box
corner (8 nodules)
K8 is the DADO
version for square
and flat section
structures.



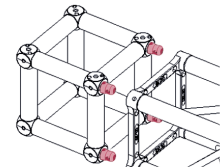
QU40K8
DADO 6 way box
corner (8 nodules)
An even sturdier
solution to
manage corners
and crosses.



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



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



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