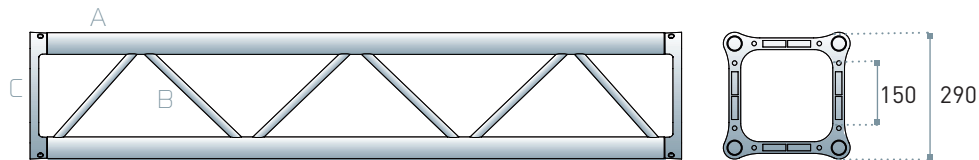




QX30SA ANTI-TORSION

Square section aluminium truss twist-resistant version with 29 cm long sides. It substitutes the model QX30S, from which it keeps the excellent size, weight, cost and performance characteristics. It is made of 6082 alloy extruded components, with high load-bearing and twisting strength. It is a constitutive element of Unitower, Towerlift 3, and Flyintower 6-300 and FT7.5-500.



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

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

Ends C: aluminium casting plate
EN AC 42200 T6

Connection systems

QXFC: quick-fit kit

QXSM10: bolt connection kit

LINEAR ELEMENTS

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

CORNERS AND FITTINGS

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





QX305A

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

AXIAL LOAD TABLE

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

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

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

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

QX30SA 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.

QX30SA / CONNECTIONS



KSG
Litetruss aluminium spigot, set of 10



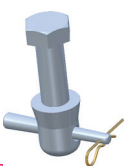
KCP **KSP**
R-spring, set of 100
Steel pin, set of 10



K370
Half truss spigot +1 steel pin +1 R-spring (not for Dado)



KSF
Threaded pin, set of 12



KCF5
Kit for vert. connec incl. bolts, spigots and access



QXFC
Quick connection set for Q Series



QXICU
Set of 4 alum. jointed spigot for "X" and "D" truss



QXKFC
Set of 4 half spigot with M10 screws for Dado

QUKFC
Set of 4 half spigot with M12 screws for Dado

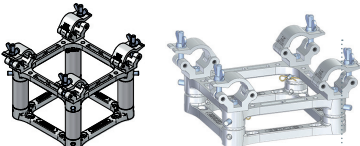


QXKFCT
Set of 4 half spigot with screw for Universal Sleeve Block



QXSM10
Bolt connection set for Q25S Series

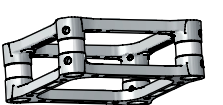
QX30SA / ACCESSORIES



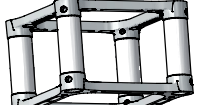
QX30SAACL **QX30SAACS**
ST 29 cm. square Clamp module short



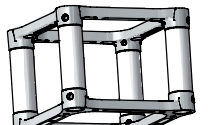
QX30SAACSC
ST 29 cm. square Clamp for Towerlift/Varitower



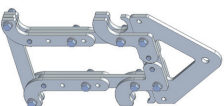
QU30ADP010.5
Universal Adapter 29 cm square - Length 10.5 cm



QU30ADP019.5
Univers. Adapter 29 cm square - Length 19 cm



QU30ADP021
Universal Adapter 29 cm square - Length 21 cm



CBQ3040
4 points Bridle Hook for 29/40 cm. truss



FP30
Universal 29 cm truss floor plate



FP30M
Universal 29 cm truss large floor plate




C030
Bar hook for 29 cm. truss



C030WB
29 cm wall bracket W/half couplers



TZ30K01
Ass. tool for half-spigot in 25&29 cm side truss



MIXT-290-BR
Truss bracket.



MIXT-ADJF
Adjustable foot up to 4 cm.



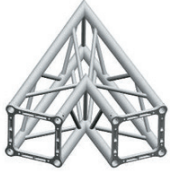
MIXT-290-CLIP
Clip for cladding trusses with felt or other materials.



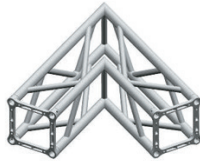
MIXT-290-FC25
Felt cladding. Available lengths up to 2.5 m.



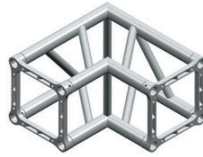
QX30SA / CORNERS & FITTINGS



QX30SAL2045
ST 29 cm. square
2 way 45° corner



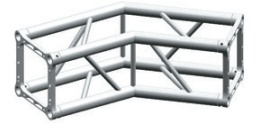
QX30SAL2060
ST 29 cm. square
2 way 60° corner



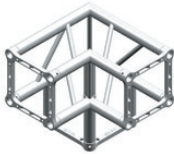
QX30SAL2090
ST 29 cm. square
2 way 90° corner



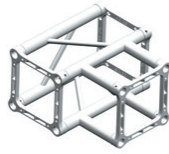
QX30SAL2120
ST 29 cm. square 2 ways
120° corner, ext. vertex



QX30SAL2135
ST 29 cm. square 2 way
135° corner, int. vertex



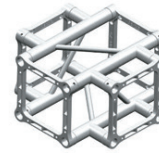
QX30SAL3
ST 29 cm. square
3 way corner



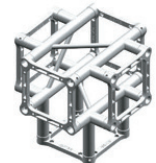
QX30SAT3
ST 29 cm. square
3 way tee



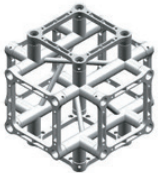
QX30SAT4
ST 29 cm. square
4 way tee



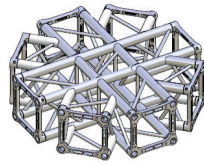
QX30SAX4
ST 29 cm. square
4 way cross



QX30SAX5
ST 29 cm. square
5 way cross



QX30SAX6
ST 29 cm. square
6 way cross



QX30SAX8
ST 29 cm. square - 8 way
horizontal cross

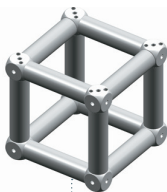


QP30L2ADJ
Adjustable two way
corner

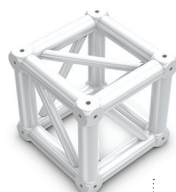
DADO SYSTEM DADO, the solution for all 90° corners and crosses. Managing corners and crosses is one of the biggest problems structure installers and hirers have to face. DADO is the answer. It is devised around a six-faced die-cast cube and may be put together in multifarious ways leaving the user complete freedom. 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.



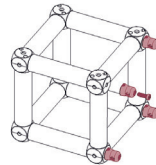
FX30K4
DADO 6 way flat
corner (4 nodules)
K4 is the DADO
version for square
and flat section
structures.



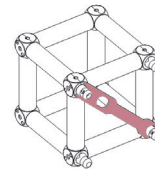
QX30K8
DADO 6 way box
corner (8 nodules)
K8 is the DADO
version for square
and flat section
structures.



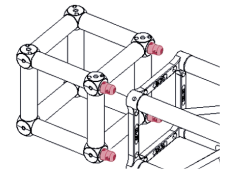
QU30K8
DADO 6 way box
corner (8 nodules)
An even sturdier
solution to
manage corners
and crosses.



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.