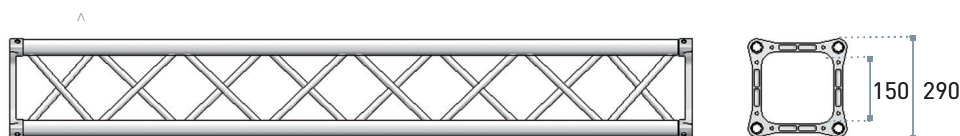




## QH30SA ANTI-TORSION

Square section heavy duty aluminium truss twist-resistant version with 29 cm long sides. It substitutes the old Heavy Duty series QD30S and QD30SA. It is characterized by the introduction of  $\varnothing 48 \times 3$  mm chords and  $\varnothing 20 \times 2$  mm diagonals on all the faces. This truss constitutes Varitower 3 – 30 and Flyintower FT9.5-600.



Chords A: extruded tube  $\varnothing 48 \times 3$  mm  
EN AW 6082 T6

Diagonals B: extruded tube  $\varnothing 20 \times 2$  mm  
EN AW 6082 T6

Ends C: aluminium casting plate  
EN AC 42200 T6

Connection systems

QXFC: quick-fit kit

QXSM10: bolt connection kit

### ELEMENTI LINEARI

codice	cm	kg
QH30SA010M5	29x29x10.5	3,1
QH30SA021	29x29x21	3,6
QH30SA025	29x29x25	4,1
QH30SA029	29x29x29	4,3
QH30SA050	29x29x50	5,8
QH30SA100	29x29x100	9,1
QH30SA150	29x29x150	12,3
QH30SA200	29x29x200	15,5
QH30SA250	29x29x250	18,7
QH30SA300	29x29x300	21,9
QH30SA350	29x29x350	25,2
QH30SA400	29x29x400	28,4

### CORNERS AND FITTINGS

code	cm	kg
QH30SAACL	29x21x29	6,1
QH30SAACS	29x10.5x29	5,6
QH30SAL2045	100x100x29	9,4
QH30SAL2060	100x100x29	10,5
QH30SAL2090	50x50x29	11,7
QH30SAL2120	50x50x29	6,8
QH30SAL2135	50x50x29	7,7
QH30SAL3	50x50x50	8
QH30SAT3	50x50x29	8,2
QH30SAT4	50x50x50	10,8
QH30SAX4	50x50x29	9,3
QH30SAX5	50x50x50	11,8
QH30SAX6	50x50x50	12,9





QH305A

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	2775	2775	0	2775	2775	0	1387	2775	0	925	2775	0	694	2775	0
2	1384	2768	2	2677	2677	3	1384	2768	2	923	2768	2	692	2768	2
3	920	2760	6	1894	1894	6	1335	2670	7	920	2760	7	690	2760	7
4	688	2753	13	1454	1454	11	1046	2092	14	753	2259	14	614	2454	14
5	492	2462	24	1175	1175	18	855	1709	22	603	1809	22	494	1976	23
6	340	2039	34	982	982	26	720	1439	33	501	1503	32	412	1649	33
7	248	1734	46	840	840	36	619	1239	45	427	1282	43	352	1410	45
8	188	1503	60	732	732	47	542	1083	59	371	1114	57	307	1227	60
9	147	1323	76	646	646	60	480	960	76	327	981	72	271	1083	76
10	118	1176	94	576	576	75	429	859	94	291	874	89	241	966	94
11	96	1056	114	518	518	91	387	774	114	262	785	108	217	869	114
12	79	954	136	469	469	109	351	703	136	237	710	129	197	786	135
13	67	866	159	427	427	129	320	641	161	215	645	151	179	715	159
14	56	790	185	390	390	150	294	587	187	196	589	176	163	654	185
15	48	723	212	357	357	173	270	540	215	180	539	202	150	600	213
16	42	664	241	328	328	198	249	497	246	165	495	230	138	551	242
17	36	611	272	302	302	225	230	459	278	152	456	260	127	508	274
18	31	563	305	278	278	254	213	425	313	140	420	292	117	469	307

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	1384	1384	1	1337	3
2	663	1327	8	726	11
3	310	930	19	490	26
4	176	704	34	365	46
5	112	559	54	287	73
6	76	457	78	234	104

AXIAL LOAD TABLE

H m	N am. Kg
3	8873
6	4521
9	2112
12	1212

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.

# QH30SA 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.

## QH30SA / CONNECTIONS




**KSG**  
Litetruss aluminium spigot, set of 10



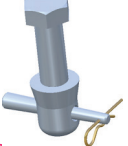
**KCP** **KSP**  
R-spring, set of 100    Steel pin, set of 10



**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



**QXKFC**  
Set of 4 half spigot with screw for Universal Sleeve Block



**QXSM10**  
Bolt connection set for Q25S Series

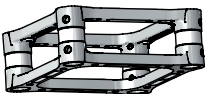
## QH30SA / ACCESSORIES



**QH30SAACS**  
ST 29 cm. square Clamp module short



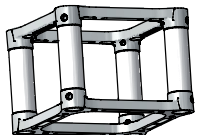
**QH30SAACL**  
ST 29 cm. square Clamp for Towerlift/Varitower



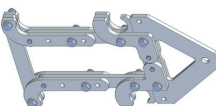
**QU30ADP010.5**  
Universal Adapter 29 cm square - Length 10.5 cm



**QU30ADP019.5**  
Univ. 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.



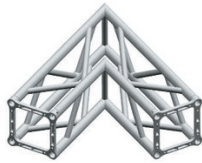
**MIXT-290-FC25**  
Felt cladding. Available lengths up to 2.5 m.



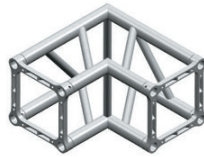
## QH30SA / CORNERS & FITTINGS



**QH30SAL2045**  
HD 29 cm. square  
2 way 45° corner



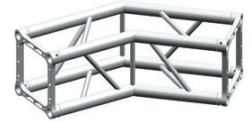
**QH30SAL2060**  
HD 29 cm. square  
2 way 60° corner



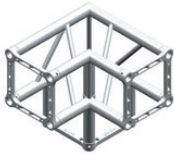
**QH30SAL2090**  
HD 29 cm. square  
2 way 90° corner



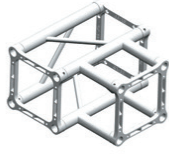
**QH30SAL2120**  
HD 29 cm. square 2 ways  
120° corner, ext. vertex



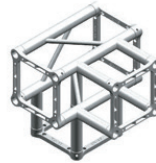
**QH30SAL2135**  
HD 29 cm. square 2 way  
135° corner, int. vertex



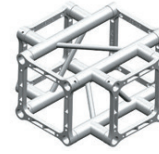
**QH30SAL3**  
HD 29 cm. square  
3 way corner



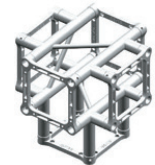
**QH30SAT3**  
HD 29 cm. square  
3 way tee



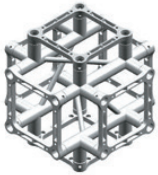
**QH30SAT4**  
HD 29 cm. square  
4 way tee



**QH30SAX4**  
HD 29 cm. square  
4 way cross



**QH30SAX5**  
HD 29 cm. square  
5 way cross

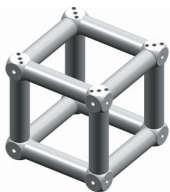


**QH30SAX6**  
HD 29 cm. square  
6 way cross

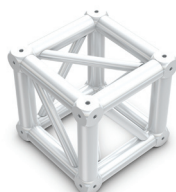


**QP30L2ADJ**  
Adjustable two way  
corner

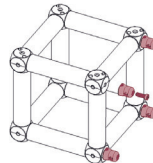
**DADO SYSTEM** DADO, the solution for all 90° corners and crosses. Managing corners and crosses is one of the biggest problems structure installers and hirers have to face. DADO is the answer. It is devised around a six-faced die-cast cube and may be put together in multifarious ways leaving the user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



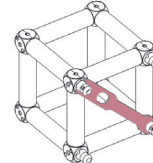
**QX30K8**  
DADO 6 way box  
corner (8 nodules)  
**K8 is the DADO version  
for square and flat  
section structures.**



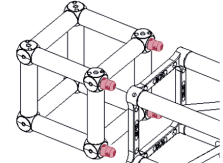
**QU30K8**  
DADO 6 way box  
corner (8 nodules)  
**An even sturdier  
solution to manage  
corners and crosses.**



**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 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.