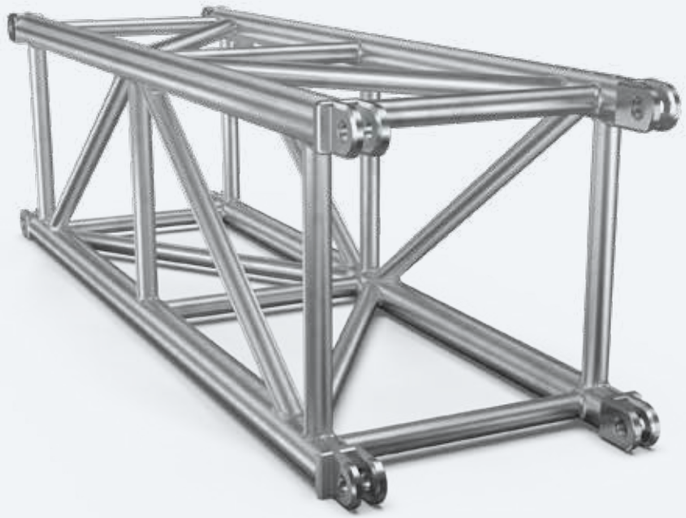
FORK TRUSS
QL40A



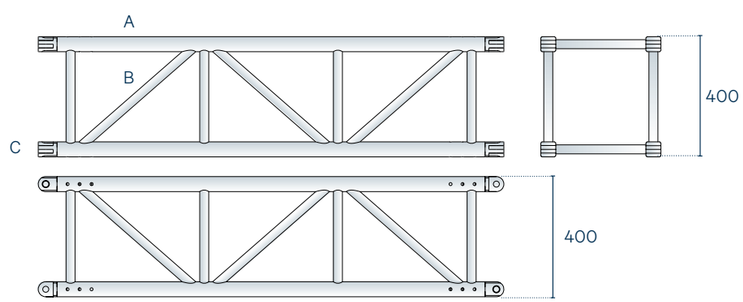
Square section High Load aluminium truss with 40 cm long sides.

It is diagonalized on all faces and is provided with an aluminium fork connection. This guarantees excellent rigidity and elevated resistance in both horizontal and vertical applications despite its reduced section.

LINEAR ELEMENTS

Code	W × H × D (cm)	kg	Code	W × H × D (cm)	kg
QL40100A	40 × 40 × 100	14.70	QL40200A	40 × 40 × 200	25.30
QL40130A	40 × 40 × 130	17.50	QL40300A	40 × 40 × 300	36.20

Chords A	Diagonals B	Ends C	Connection systems
Extruded tube Ø 50 × 4 mm EN AW – 6082 T6	Extruded tube Ø 30 × 3 mm EN AW – 6082 T6	Aluminium Fork Connector EN AW – 6082 T6	KHLP: cylindrical pin + safety R-clip



Load table / Fork 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
3	1673	5018	3	3238	3238	4	2080	4161	4	1624	4871	4	1255	5018	4
4	1252	5007	8	2643	2643	7	1742	3484	8	1383	4149	9	1154	4615	9
5	999	4995	16	2230	2230	12	1497	2993	13	1206	3618	15	966	3862	15
6	742	4454	25	1926	1926	17	1310	2620	20	1068	3203	23	830	3320	23
7	542	3796	34	1692	1692	25	1163	2326	29	930	2789	32	726	2904	32
8	412	3300	45	1505	1505	33	1044	2088	39	819	2457	42	644	2576	42
9	323	2911	56	1353	1353	42	945	1889	50	728	2183	54	578	2310	54
10	260	2598	70	1227	1227	53	862	1724	63	650	1949	66	522	2087	68
11	213	2340	84	1119	1119	66	791	1582	78	585	1755	80	475	1902	83
12	177	2122	101	1027	1027	79	729	1459	95	531	1592	96	436	1742	100
13	149	1937	118	946	946	94	675	1350	113	484	1453	113	401	1604	118
14	127	1776	137	875	875	111	627	1254	133	444	1332	131	370	1480	138
15	109	1635	158	812	812	129	584	1169	154	409	1226	151	341	1363	159
16	94	1510	180	755	755	148	546	1091	177	378	1133	172	315	1259	181
17	82	1399	203	700	700	168	511	1021	202	350	1049	194	291	1166	205
18	72	1299	228	649	649	189	478	956	229	325	974	218	271	1082	230
19	64	1208	255	604	604	212	449	897	257	302	906	244	252	1006	256
20	56	1125	283	562	562	237	422	843	288	281	844	271	234	937	284

Cantilever load table / Fork connection

span	Unif. distributed load			Centre point load	
[m]	[kg/m]	[kg]	mm	[kg]	mm
0.5	5042	2521	0	2521	0
1.0	2515	2515	1	2081	1
1.5	1619	2429	2	1613	4
2.0	1033	2066	4	1315	7
2.5	720	1799	7	1108	11
3.0	530	1590	11	955	17
3.5	406	1422	15	838	24
4.0	321	1284	21	745	32

Axial load table

span		
[m]	[kg]	[kg]
2	18054	17392
4	16913	9701
6	14903	5359
8	12244	
10	9631	
12	7507	
14	5898	
16	4696	

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

The fork connection is secured by a 20 mm steel pin. In specific cases, bolts with nuts or bolts with lifting eyes can be used. A range of adapters with different fork orientations is also available to optimise special configurations.



KHLP

20 mm Cylindrical pin
+ 3 mm safety R-clip



KHLB

M20 screw bolt
+ spring washer



KHLD

M20 screw nut
+ spring washer



KHLF

Threaded female fork
connector + spring washer



KHLG

M20 Lifting Eye



KHLM

Male fork
connector complete



KHL180A

180° double fork aluminum
connector



KHL180S

180° double fork
steel connector



KHL90LA

90° double fork
alum. connector, left



KHL90LS

90° double fork steel
connector, left



KHL90RA

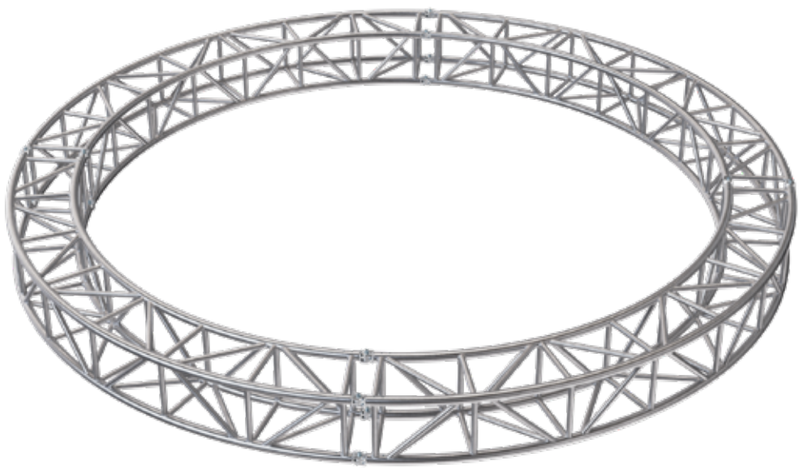
90° double fork alum.
connector, right



KHL90RS

90° double fork steel
connector, right

Circles



Custom Curved Structures

Curves, ellipses and circular shapes can be created in any size. As these are generally custom-made, support from our technical department is required for project engineering.

Gates



FL40035P

HL 40 cm flat - 35 cm



FL40049M5P

HL 40 cm flat - 49.5 cm



FL40047HS

HL40 cm flat - 47 cm gate w/hoist support



FL40047PH

HL40 cm flat - 47 cm gate w/forks



QL40X4C - HL40

4 ways compact corner



QL40X6C - HL4

6 ways compact corner



MTC30D - MT30

lower frame w/wheels



MTC30G - MT30

upper frame w/wheels
& eye bolts

Accessories



C040

Bar hook for 40 cm. truss



FP40Z1

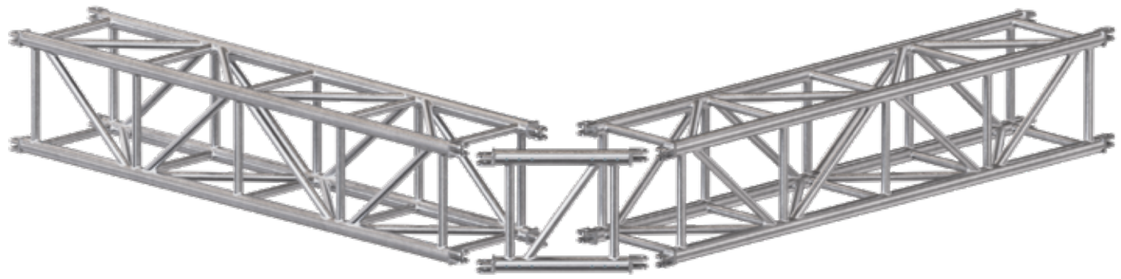
Universal 40 cm truss floor plate

Corner Configurations

FORK Truss **QL40A**

By using the appropriate complements, angles at various degrees can be achieved.

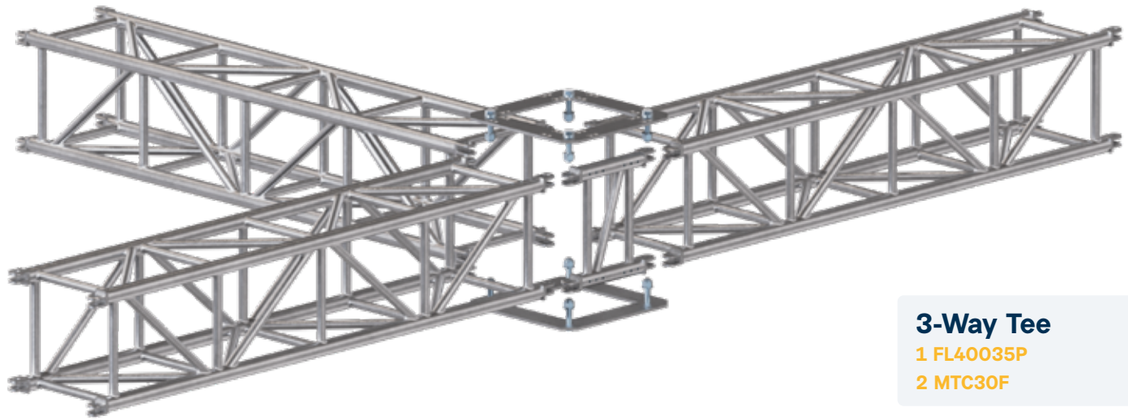
2-Way Corner 90°
1 FL40049M5P



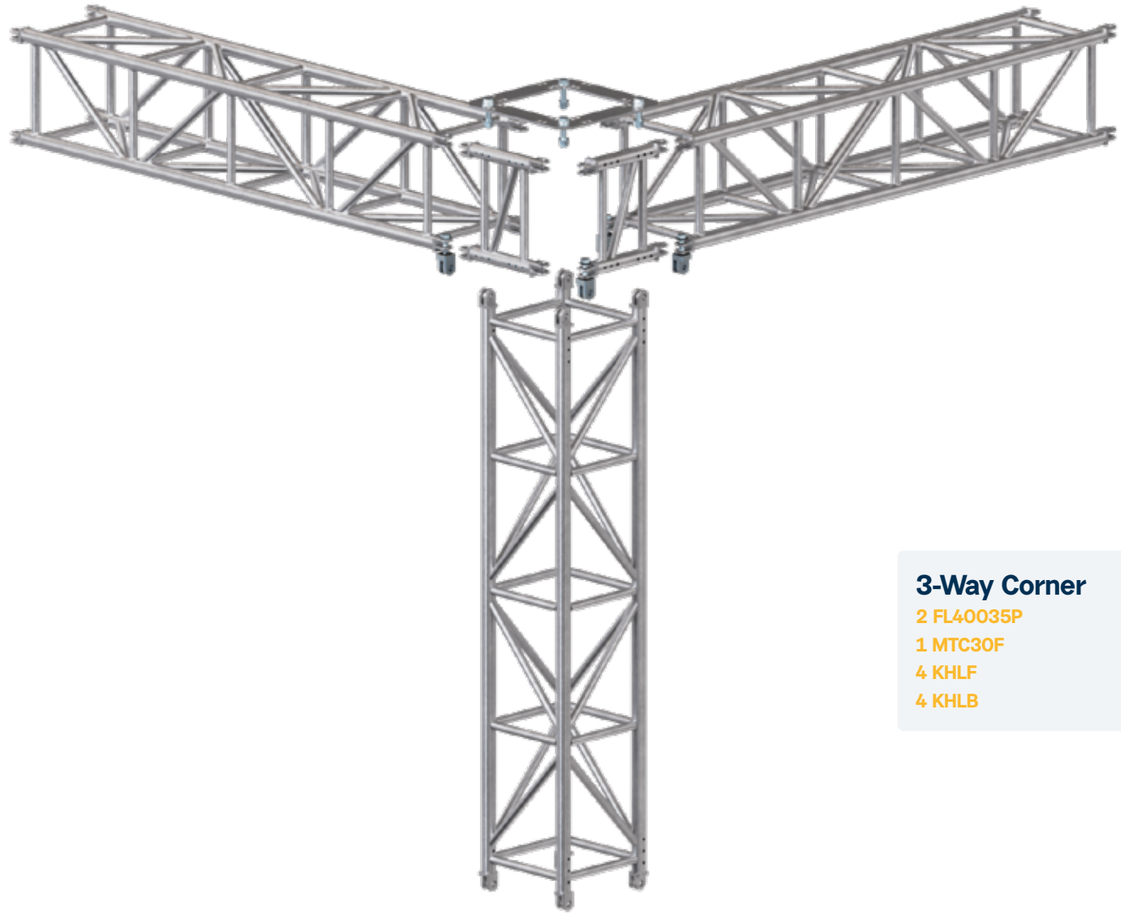


Sleeve Block on QH30SA
2 FL40035P
2 MTC30D (or MT30G)

The drawings shown on these pages are intended as examples of possible configurations between trusses and selected accessories. Many other combinations are possible, including the development of custom accessories when required by specific project needs.



3-Way Tee
1 FL40035P
2 MTC30F



3-Way Corner
2 FL40035P
1 MTC30F
4 KHLF
4 KHLB