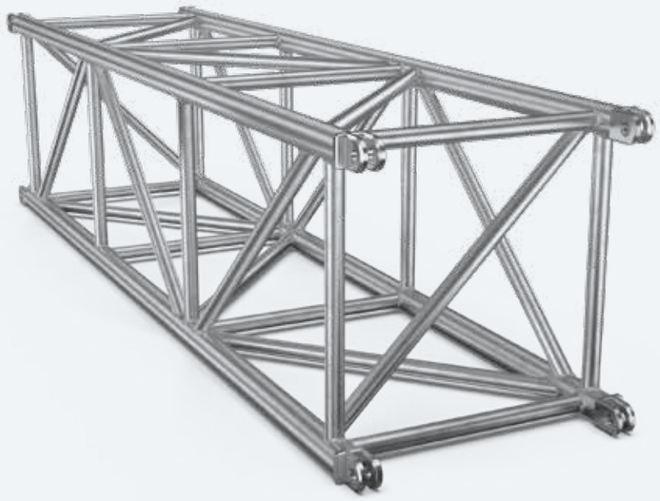
FORK TRUSS

QL52A

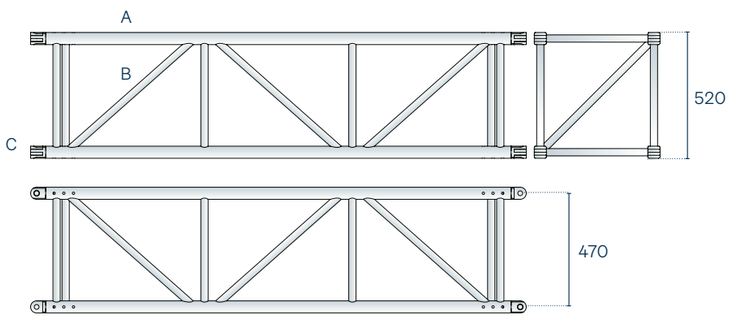


Square-section High-Load aluminium truss with 52 cm sides.

It is diagonalized on all faces and is provided with an aluminium fork connection. It shows great versatility in use both as a tower (Maxitower 52) and as a span.

LINEAR ELEMENTS					
Code	**W × H × D (cm)**	**kg**	**Code**	**W × H × D (cm)**	**kg**
QL52050A	52 × 52 × 50	12.30	QL52200A	52 × 52 × 200	26.70
QL52100A	52 × 52 × 100	16.70	QL52250A	52 × 52 × 250	34.00
QL52130A	52 × 52 × 130	19.20	QL52300A	52 × 52 × 300	36.60

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 q			Centre point load F			Third point load F F			Quarter point load F F F			Fifth point load F F F F		
	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	1432	4296	2	3905	3905	2	2148	4296	2	1432	4296	2	1074	4296	2
4	1071	4285	4	3248	3248	5	2087	4174	5	1428	4285	5	1071	4285	5
5	855	4273	8	2779	2779	8	1820	3641	9	1424	4273	10	1068	4273	9
6	710	4262	13	2426	2426	12	1613	3226	14	1291	3872	15	1055	4219	16
7	607	4250	21	2150	2150	17	1447	2893	20	1169	3507	22	930	3721	22
8	523	4186	31	1927	1927	23	1310	2620	27	1046	3139	30	831	3323	30
9	386	3473	37	1736	1736	30	1196	2391	35	868	2605	35	723	2894	37
10	312	3124	46	1562	1562	37	1098	2196	44	781	2343	44	651	2603	47
11	256	2815	56	1407	1407	45	1014	2028	55	704	2111	53	586	2346	56
12	213	2554	67	1277	1277	54	941	1881	67	638	1915	63	532	2128	67
13	179	2333	78	1166	1166	64	875	1749	80	583	1749	74	486	1944	79
14	153	2139	90	1069	1069	74	802	1604	92	535	1604	86	446	1782	91
15	131	1969	104	984	984	85	738	1476	106	492	1476	99	410	1640	105
16	114	1818	118	909	909	97	682	1364	120	455	1364	113	379	1515	119
17	99	1684	133	842	842	109	631	1263	136	421	1263	127	351	1403	134
18	87	1563	149	781	781	123	586	1172	152	391	1172	142	326	1302	150
19	76	1453	166	727	727	137	545	1090	169	363	1090	159	303	1211	167
20	68	1354	183	677	677	153	508	1015	187	338	1015	176	282	1128	185
21	60	1262	202	631	631	169	473	946	206	315	946	194	263	1052	203
22	54	1178	221	589	589	186	442	883	225	294	883	212	245	981	223

Cantilever load table / Fork connection

span	Unif. distributed load q			Centre point load F	
[m]	[kg/m]	[kg]	mm	[kg]	mm
0.5	4319	2160	0	2160	0
1.0	2154	2154	0	2154	1
1.5	1432	2148	1	1947	2
2.0	1071	2142	2	1617	5
2.5	855	2137	5	1381	8
3.0	641	1924	7	1204	12
3.5	497	1740	10	1066	17
4.0	396	1586	14	954	23

Axial load table

span		
[m]	[kg]	[kg]
3	17713	15145
5	16850	10342
10	12720	
12	10729	
14	8930	
16	7418	
18	6186	
20	5191	

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

FORK Truss **QL52A**



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

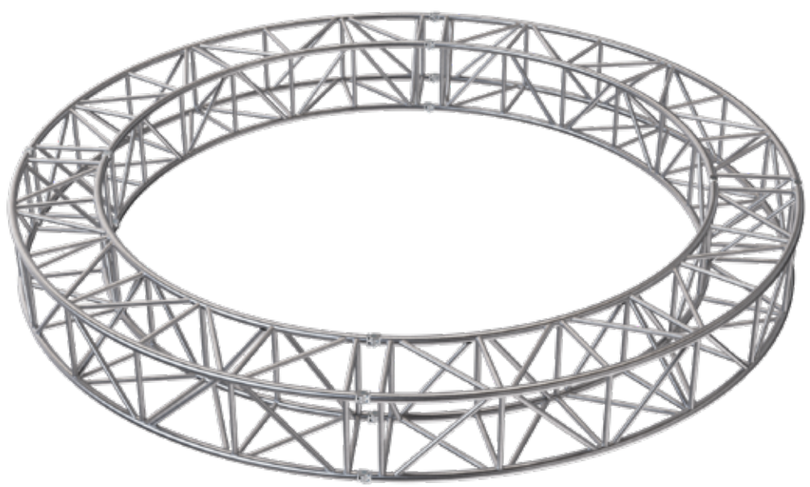
90° double fork alum.
connector, right



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



FL52047P

HL 52 cm flat - 47 cm



FL52066M5P

HL 52 cm flat - 66.5 cm



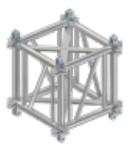
FL52047HS

HL52 cm flat - 47 cm gate w/hoist support



FL52059PH

HL52 cm flat - 59 cm gate w/forks



QL52X6C

HL 52 - 6 ways compact corner



FL52047HSZ1

Hoist support



MTC40G

Upper frame MT40, w/ wheels and eye bolts



MTC40D

Lower frame MT40, w/ wheels



MTC40F

Square frame with bolts

Accessories



C052D

Bar hook for 52 cm truss



FP52Z1

Universal 52 cm truss floor plate

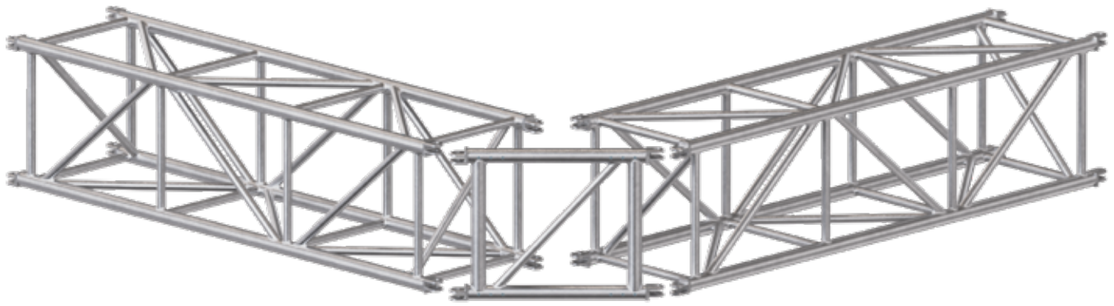
Corner Configurations



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

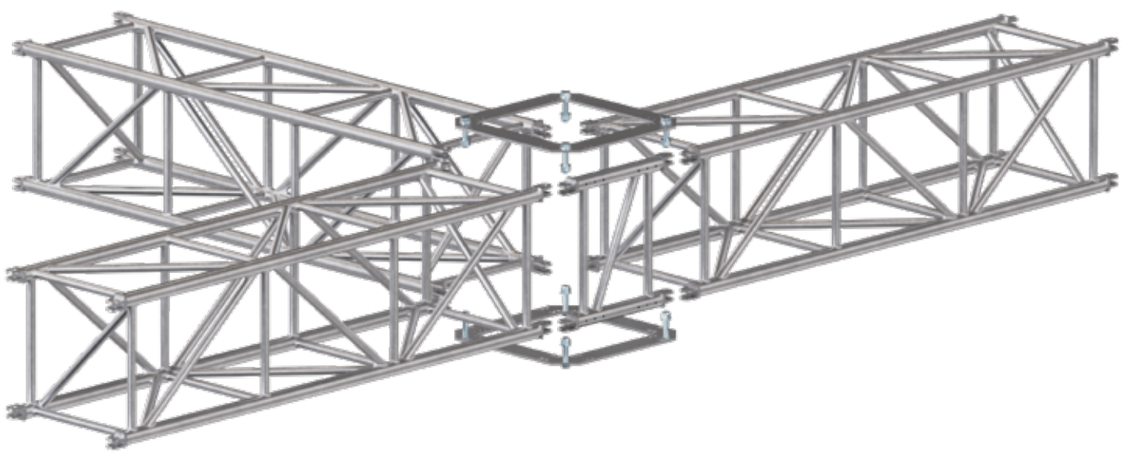
2-Way corner 90°

1 FL52066M5P

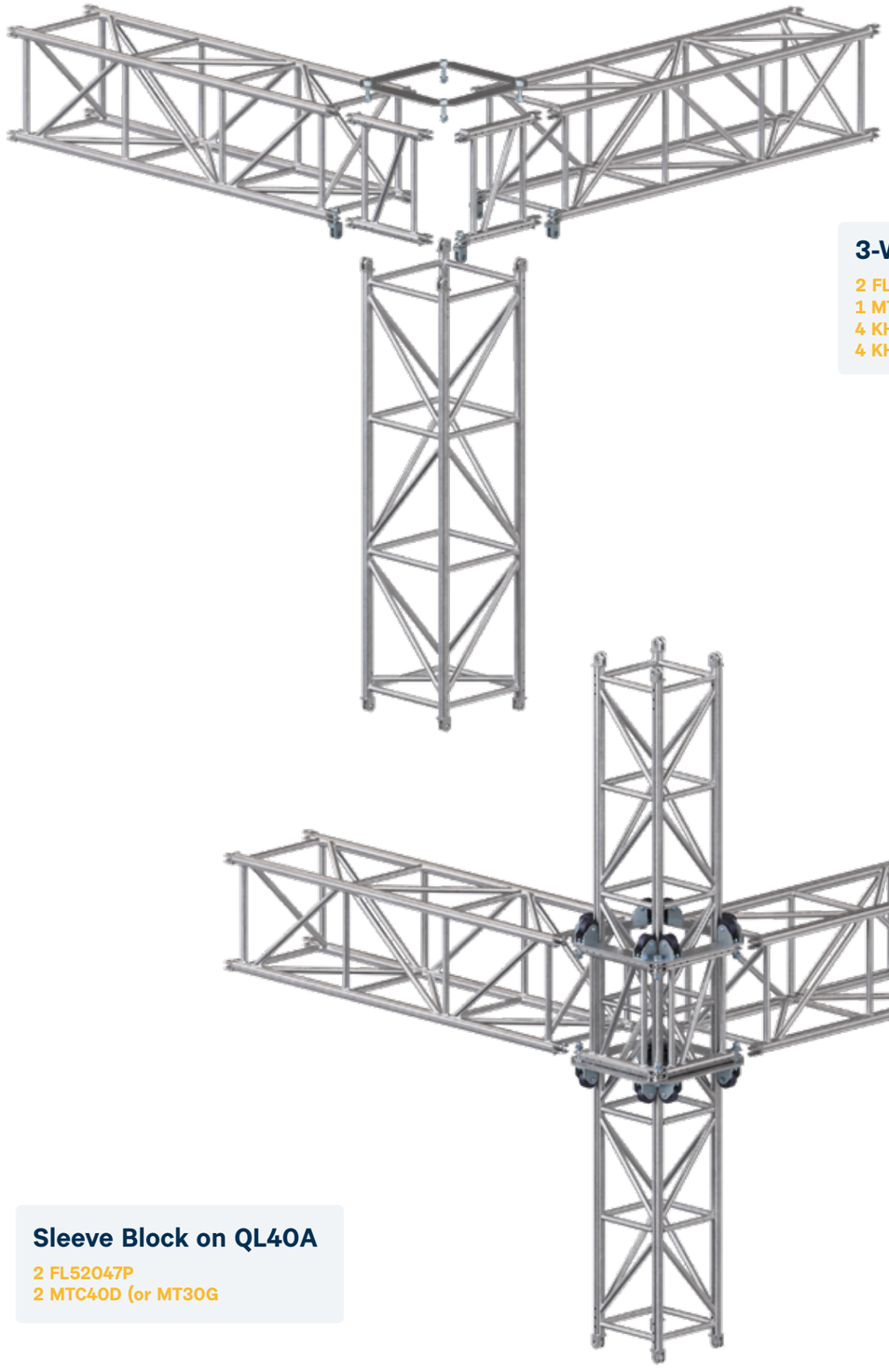


3-Way Tee

1 FL52047P
2 MTC52F



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 Corner

2 FL52047P
1 MTC52F
4 KHLF
4 KHLB

Sleeve Block on QL40A

2 FL52047P
2 MTC40D (or MT30G