

# FORK

## High Load Trusses

### **Load carrying capacity**

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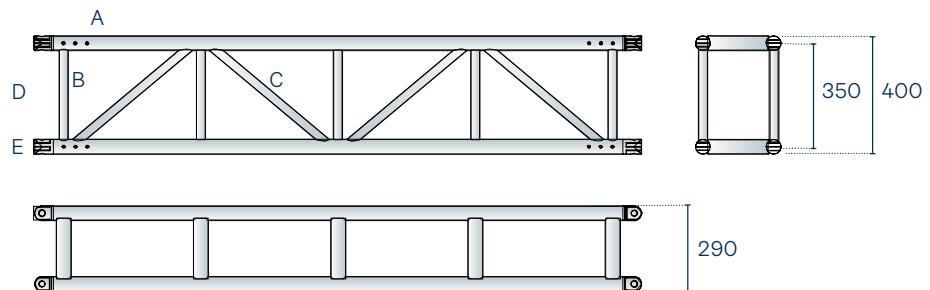
Load bearing trusses with universal fork connections for high-end solutions and excellent performances. Their design and twist-resistant geometry make High Load trusses usable both with horizontal and vertical forks.

They are strong and sturdy, and may be used as structural components in a grid, large load bearing beams or support towers. Some of the trusses in this line are built of extruded tubes with built in guides for inserting roofing sheets. Perfectly in line with international standard dimensions, they are totally integrated with the LIBERA System.

# RF40



High Load 40 x 29 cm rectangular-section aluminium truss. It is the most compact truss of the High Load series with a fork connection. Suitable for quite long spans, it keeps an optimum ratio between maximum load and truss deflection. The horizontally-aligned fork ends allow the truss to be used with only minimal accessories to build grid structures.



Chords A  
Extruded tube  $\varnothing 50 \times 3$  mm  
EN AW-6082 T6

Diagonals B  
Extruded tube  $\varnothing 30 \times 3$  mm  
EN AW-6082 T6

Braces C  
Extruded tube  $\varnothing 30 \times 3$  mm  
EN AW-6082 T6

Braces D  
extruded tube  $\varnothing 50 \times 3$  mm  
EN AW-6082 T6

Ends E  
Aluminium fork connector  
EN AW-6082 T6

Connection systems  
KHL P: cylindrical pin +  
safety R-clip

## Linear elements

code	cm	kg
RF40100	40 x 29 x 100	13.2
RF40200	40 x 29 x 200	16.8
RF40300	40 x 29 x 300	20.0
RF40400	40 x 29 x 400	23.2



## Load table / Spigot 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	1928	5785	5	2524	2524	4	1593	3186	4	1222	3665	4	1009	4038	5
4	1257	5029	11	2084	2084	7	1351	2702	8	1059	3176	9	887	3549	9
5	852	4262	18	1770	1770	12	1171	2343	14	932	2797	15	771	3084	16
6	616	3696	28	1537	1537	18	1032	2065	21	832	2496	24	666	2662	24
7	458	3205	38	1356	1356	26	920	1840	30	750	2250	34	585	2340	34
8	353	2822	50	1211	1211	35	830	1659	41	667	2000	45	519	2077	45
9	279	2515	64	1090	1090	45	754	1508	53	595	1786	58	467	1867	58
10	226	2264	80	990	990	57	690	1380	67	537	1610	73	423	1692	73
11	187	2054	98	905	905	70	634	1269	83	487	1462	88	386	1543	89
12	156	1875	117	832	832	85	586	1172	101	445	1336	106	354	1416	107
13	132	1721	138	768	768	101	544	1088	120	409	1227	125	326	1305	127
14	113	1586	160	711	711	119	505	1010	141	377	1131	146	302	1207	149
15	98	1467	185	660	660	138	471	942	164	349	1047	169	280	1120	172
16	85	1361	211	615	615	158	440	881	188	324	972	193	261	1042	197
17	74	1266	239	574	574	180	413	825	215	301	904	218	243	972	223
18	66	1180	268	536	536	204	387	774	243	281	843	246	227	908	252
19	58	1099	299	502	502	230	364	727	273	263	788	275	212	850	282
20	51	1026	331	471	471	257	342	684	305	245	736	306	199	796	314

## Cantilever load table / Fork connection

SPAN	Distributed load q			Point load F	
	Point load	Full load	Central deflection	Point load	Central deflection
m	kg/m	kg	mm	kg	mm
1	2165	2165	1	1593	1
2	790	1581	4	1035	7
3	413	1238	11	762	18
4	252	1010	22	598	34
5	169	846	36	488	55
6	120	722	55	408	81
7	89	624	77	348	111

## Axial load table

H m	kg
3	17392
6	8148
9	3852
12	2222
15	1407

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.

High Load structures can be extended using specially designed accessories for suspension, transportation and reinforcement, including hooks, corner frames and skates. Only forked connectors with steel junction pins are used. Designed to withstand the highest stress and load levels, they offer guaranteed compatibility with the whole series. Gates are short, flat section High Load elements generally used when putting together corners or tower sleeve blocks. Code numbers shown under the pictures refer to the shape and make it easy to identify.

## Connections



**KHLB**  
M20 screw bolt  
+ spring washer



**KHLD**  
M20 screw nut  
+ spring washer



**KHLF**  
Female fork connector  
complete



**KHLG**  
M20 Lifting Eye



**KMLM**  
Male fork  
connector complete



**KHLP**  
Cylindrical pin  
+ 3 mm safety R-clip



**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



**KCFS**  
Kit for vert. connec. incl.  
bolts, spigots and accessories



**TZHL01**  
FL assembly kit

## Accessories



**KF30L2135**  
Kit for 135° corner



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



**CS029-40**  
Ceiling support for 30-40  
truss series – silver



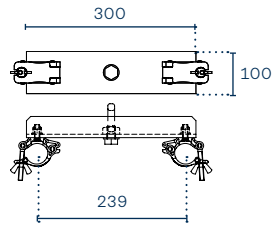
**KF30P3030**  
Plate for 90° corner incl.  
Bolts



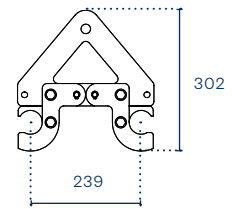
**FF40023M9P**  
Heavy Load 40  
Gate - 23.9 cm



**C030**  
Bar hook for 29 cm. truss



**CBT3040**  
2 points Bridle Hook for 29/40 cm. truss



## Corner solutions

### A Corner 90°

KF30P3030



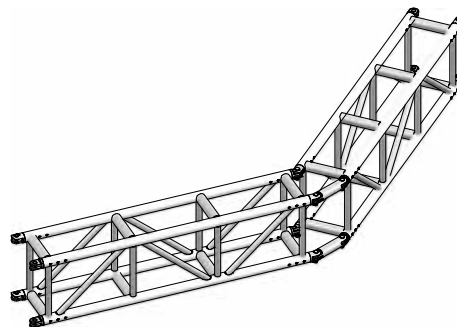
### B Corner 120°

FF40023M9P



### C Corner 135°

KF30L2135

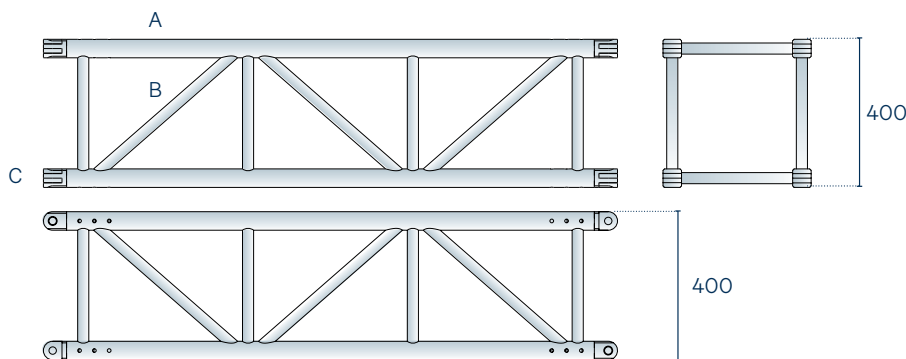


# QL40A

## Anti-torsion



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.



**Chords A**  
Extruded tube  $\varnothing$  50 x 4 mm  
EN AW-6082 T6

**Diagonals B**  
Extruded tube  $\varnothing$  30 x 3 mm  
EN AW-6082 T6

**Ends C**  
Aluminium forks connector  
EN AW-6082 T6

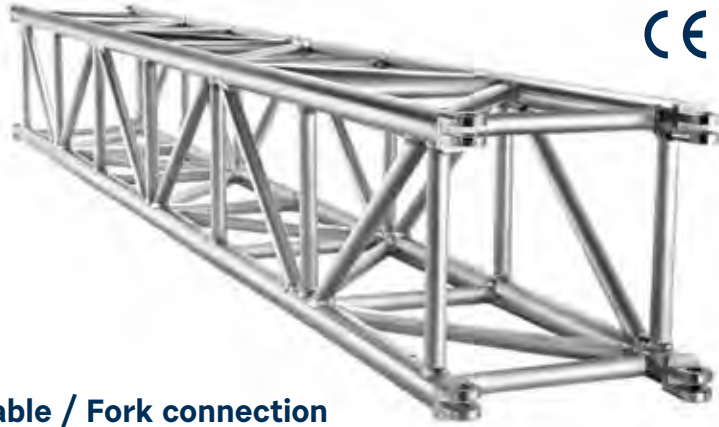
**Connection systems**  
KHL P: cylindrical pin +  
safety R-clip

### Gates and accessories

code	cm	kg
FL40035P	40 x 35 x 5	3.5
FL40049MS	40 x 49 x - 5 x 5	17.50
MTC30F	48 x 48 x 1	5
MTC30G / MTC30D	48 x 48 x 1	4.2
KHLP	40 x 40 x 300	36.20

### Linear elements

code	cm	kg
QL40100A	40 x 40 x 100	14.70
QL40130A	40 x 40 x 130	17.50
QL40200A	40 x 40 x 200	25.30
QL40300A	40 x 40 x 300	36.20



## 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	Distributed load q			Point load F		
	Point load	Full load	Central deflection	Point load	Full load	Central deflection
m	kg/m	kg	mm	kg	kg	mm
0.5	5042	2521	0	2521	2521	0
1.0	2515	2515	1	2081	2081	1
1.5	1619	2429	2	1613	1613	4
2.0	1033	2066	4	1315	1315	7
2.5	720	1799	7	1108	1108	11
3.0	530	1590	11	955	955	17
3.5	406	1422	15	838	838	24
4.0	321	1284	21	745	745	32

## Axial load table

SPAN	Axial load F <sub>am</sub>	
	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 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.

High Load structures can be extended using specially designed accessories for suspension, transportation and reinforcement, including hooks, corner frames and skates. Only forked connectors with steel junction pins are used.

Designed to withstand the highest stress and load levels, they offer guaranteed compatibility with the whole series.

Gates are short, flat section High Load elements generally used when putting together corners or tower sleeve blocks. Code numbers shown under the pictures refer to the shape and make it easy to identify.

## Connections



**KHLB**  
M20 screw bolt  
+ spring washer



**KHLD**  
M20 screw nut  
+ spring washer



**KHLF**  
Female fork connector  
complete



**KHLG**  
M20 Lifting Eye



**KHLM**  
Male fork  
connector complete



**KHLP**  
Cylindrical pin  
+ 3 mm safety R-clip



**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



**TZHL01**  
FL assembly kit

## Accessories



**C040**  
Bar hook for 40 cm. truss



**FP40Z1**  
Universal 40 cm truss floor  
plate



**MTC30F**  
Square frame with bolts  
for QF40



**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

## Gates



**FL40035P**  
HL 40 cm.  
flat - 35 cm



**FL40049M5P**  
HL 40 cm.  
flat - 49.5 cm

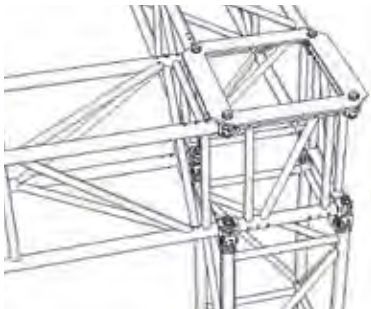


**FL40047HS**  
HL40 cm flat - 47 cm gate  
w/hoist support

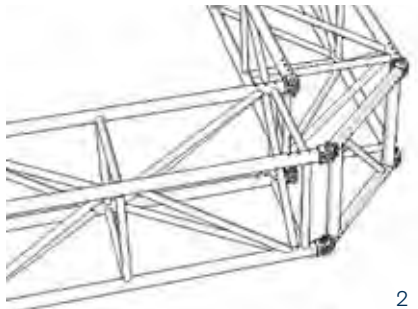


**FL40047PH**  
HL40 cm flat - 47 cm gate  
w/forks

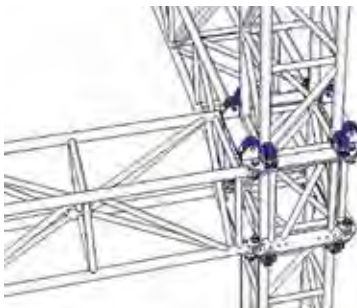
## Corner solutions



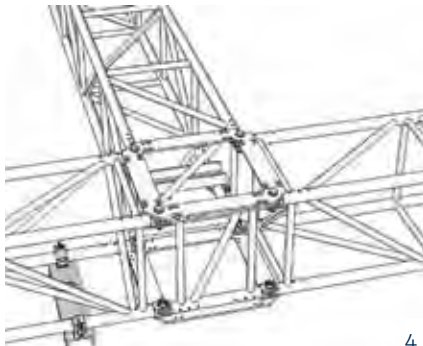
1



2



3



4

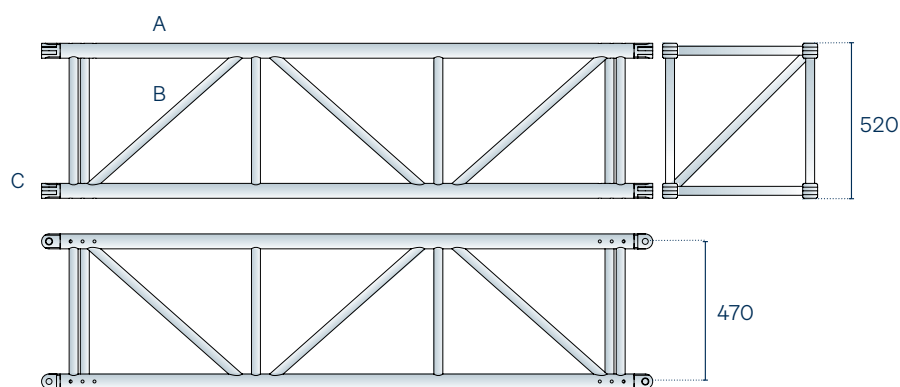
- 1 / 90° solution with pillar
- 2 / 90° solution with gate
- 3 / 90° solution with wheeled frame
- 4 / 3-way solution with frame

# QL52A

Anti-torsion



Square section High Load aluminium truss with 52 cm long 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.



Chords A  
Extruded tube  $\varnothing$  50 x 4 mm  
EN AW-6082 T6

Diagonals B  
Extruded tube  $\varnothing$  30 x 3 mm  
EN AW-6082 T6

Ends C  
Aluminium forks connector  
EN AW-W6082 T6

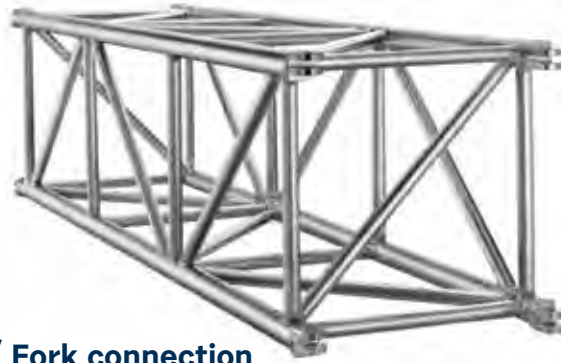
Connection systems  
KHL P: cylindrical pin +  
safety R-clip

#### Gates and accessories

code	cm	kg
QL52050A	52 x 52 x 50	12.30
QL52100A	52 x 52 x 100	16.70
QL52130A	52 x 52 x 130	19.20
QL52200A	52 x 52 x 200	26.70
QL52250A	52 x 52 x 250	34.00
QL52300A	52 x 52 x 300	36.60

#### Linear elements

code	cm	kg
FL52047P	52 x 47 x 5	4.4
FL52059P	52 x 59 x 5	4.7
FL52066MSP	52 x 66.5 x 5	5.0
MTC40F	59 x 59 x 1	4.3
MTC40G / MTC40D	59 x 59 x 1	14.5 / 13.3
KHLP	$\varnothing$ 2	0.15



## 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	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	Point load	Full load	Central deflection	Point load	Full load	Central deflection
m	kg/m	kg	mm	kg	mm	
0.5	4319	2160	0	2160	2160	0
1.0	2154	2154	0	2154	2154	1
1.5	1432	2148	1	1947	1947	2
2.0	1071	2142	2	1617	1617	5
2.5	855	2137	5	1381	1381	8
3.0	641	1924	7	1204	1204	12
3.5	497	1740	10	1066	1066	17
4.0	396	1586	14	954	954	23

## Axial load table

SPAN	F <sub>am.</sub>	F <sub>am.</sub>
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 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.

High Load structures can be extended using specially designed accessories for suspension, transportation and reinforcement, including hooks, corner frames and skates. Only forked connectors with steel junction pins are used. Designed to withstand the highest stress and load levels, they offer guaranteed compatibility with the whole series.

Gates are short, flat section High Load elements generally used when putting together corners or tower sleeve blocks. Code numbers shown under the pictures refer to the shape and make it easy to identify.

## Connections



**KHLB**  
M20 screw bolt  
+ spring washer



**KHLD**  
M20 screw nut  
+ spring washer



**KHLF**  
Female fork connector  
complete



**KHLG**  
M20 Lifting Eye



**KHLM**  
Male fork  
connector complete



**KHLP**  
Cylindrical pin  
+ 3 mm safety R-clip



**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



**TZHL01**  
FL assembly kit

## Accessories



**QL52X6C**  
HL 52 - 6 ways  
compact corner



**C052D**  
Bar hook for 52 cm truss



**FP52Z1**  
Universal 52 cm truss  
floor plate



**MTC40D**  
Lower frame MT40,  
w/ wheels



**MTC40F**  
Square frame with bolts



**MTC40G**  
Upper frame MT40,  
w/ wheels and eye bolts



**FL52047HS**  
HL 52 cm gate - cm 47  
truss - hoist support



**FL52047HSZ1**  
Hoist support

## Gates



**FL52047P**  
HL 52 cm.  
flat - 47 cm



**FL52066M5P**  
HL 52 cm.  
flat - 66.5 cm

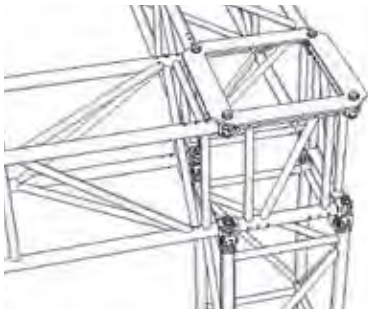


**FL52047HS**  
HL52 cm flat - 47 cm gate  
w/hoist support

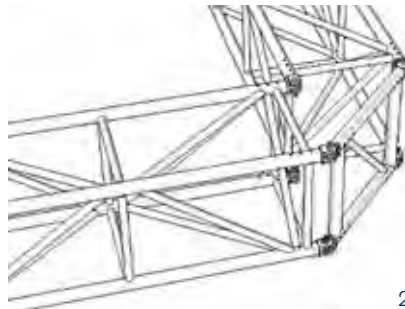


**FL52059PH**  
HL52 cm flat - 59 cm gate  
w/forks

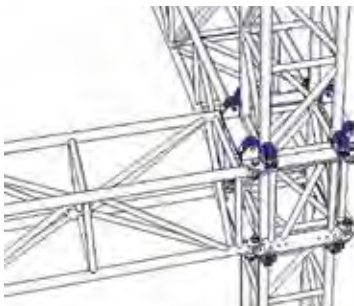
## Corner solutions



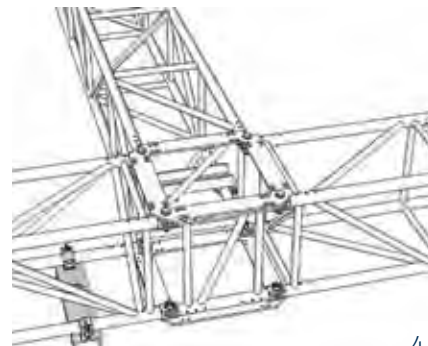
1



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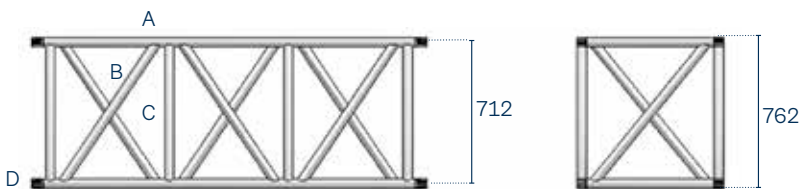
- 1 / 90° solution with pillar
- 2 / 90° solution with gate
- 3 / 90° solution with wheeled frame
- 4 / 3-way solution with frame

# QL76A

## Anti-torsion



Square section High Load aluminium truss with 76 cm long sides. It is provided with steel fork connections and  $\varnothing 50 \times 4$  mm chords. Thanks to its elevated moment of inertia and resistance of its connections, it is mainly used in the composition of towers (Maxitower 76).



### Linear elements

code	cm	kg
QL76078A Type A	76.2 x 76.2 x 78	30.70
QL76078AB Type B	76.2 x 76.2 x 78	30.70
QL76200A Type A	76.2 x 76.2 x 200	56.70
QL76200AB ype B	76.2 x 76.2 x 200	56.70
QL76250A Type A	76.2 x 76.2 x 250	68.60

Chords A  
Extruded tube  $\varnothing 50 \times 4$  mm  
EN AW-6082 T6

Diagonals B  
Extruded tube  $\varnothing 50 \times 3$  mm  
EN AW-6082 T6

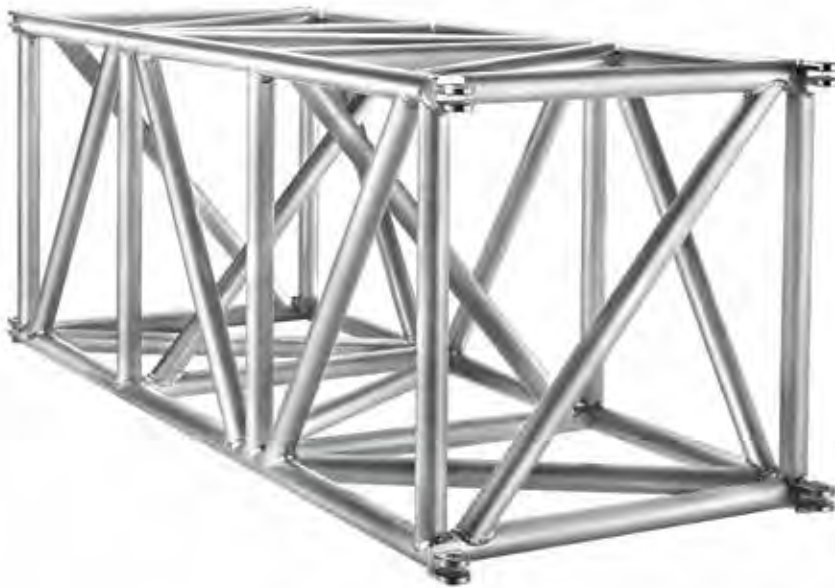
Braces C  
Wxtruded tube  $\varnothing 50 \times 4$  mm  
EN AW-6082 T6

Ends C  
Steel forks connector  
11SMnPb37

Connection systems  
KHLp: cylindrical pin +  
safety R-clip

### Cantilever load table / Fork connection

SPAN	Uniformly distributed load $q$			Point load $F$	
	Point load	Full load	Central deflection	Point load	Central deflection
m	kg/m	kg	mm	kg	mm
0.5	5808	2904	0	2904	0
1.0	2891	2891	0	2891	0
1.5	1919	2878	1	2733	1
2.0	1433	2866	1	2263	3
2.5	1141	2853	3	1927	5
3.0	894	2682	4	1675	7
3.5	691	2417	6	1477	10
4.0	549	2194	9	1317	14
4.5	445	2004	12	1186	18
5.0	368	1840	15	1075	22
5.5	308	1696	18	980	28
6.0	261	1569	22	898	33



### Axial load table

SPAN	F <sub>am</sub>	F <sub>am</sub>
m	kg	kg
5	16788	13954
10	15087	6692
15	12178	
20	8914	
25	6307	

### 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
5	1141	5705	5	3891	3891	5	2201	4401	5	1701	5104	5	1414	5654	5
6	947	5680	8	3388	3388	8	1972	3945	7	1544	4631	8	1295	5179	9
7	808	5654	12	2994	2994	11	1782	3565	11	1411	4233	12	1193	4771	13
8	704	5628	19	2677	2677	14	1625	3250	15	1298	3894	16	1070	4281	17
9	563	5065	24	2414	2414	19	1490	2981	20	1200	3599	22	968	3870	22
10	451	4506	30	2194	2194	24	1374	2747	25	1112	3337	28	881	3526	28
11	368	4048	36	2005	2005	29	1271	2542	31	1012	3036	34	807	3230	35
12	305	3662	43	1831	1831	35	1180	2360	38	916	2747	41	743	2972	42
13	256	3330	51	1665	1665	41	1099	2197	46	832	2497	48	686	2745	50
14	217	3041	59	1521	1521	48	1025	2050	54	760	2281	56	634	2535	59
15	186	2789	67	1395	1395	56	958	1917	64	697	2092	65	581	2324	68
16	160	2565	77	1283	1283	64	897	1795	74	641	1924	74	534	2138	77
17	139	2364	87	1182	1182	73	841	1683	85	591	1773	83	492	1970	88
18	121	2182	98	1091	1091	82	789	1578	97	546	1637	94	455	1819	98
19	106	2017	109	1009	1009	92	741	1482	109	504	1513	105	420	1681	110
20	93	1866	121	933	933	103	696	1392	123	467	1400	117	389	1555	122
21	82	1727	134	864	864	114	648	1295	136	432	1295	129	360	1439	135
22	73	1598	147	799	799	126	599	1199	150	400	1199	142	333	1332	148
23	64	1479	161	739	739	139	554	1109	164	370	1109	156	308	1232	162
24	57	1367	176	683	683	153	512	1025	179	342	1025	170	285	1139	177
25	50	1261	192	631	631	167	473	946	194	315	946	186	263	1051	193
26	45	1162	208	581	581	183	436	872	211	291	872	202	242	969	209
27	40	1069	225	534	534	199	401	802	228	267	802	218	223	891	226
28	35	980	243	490	490	216	368	735	246	245	735	236	204	817	244
29	31	896	261	448	448	234	336	672	264	224	672	254	187	747	262
30	27	815	280	408	408	253	306	612	284	204	612	274	170	680	282

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.

High Load structures can be extended using specially designed accessories for suspension, transportation and reinforcement, including hooks, corner frames and skates. Only forked connectors with steel junction pins are used. Designed to withstand the highest stress and load levels, they offer guaranteed compatibility with the whole series.

Gates are short, flat section High Load elements generally used when putting together corners or tower sleeve blocks. Code numbers shown under the pictures refer to the shape and make it easy to identify.

## Connections



**KHLB**  
M20 screw bolt  
+ spring washer



**KHLD**  
M20 screw nut  
+ spring washer



**KHLF**  
Female fork connector  
complete



**KHLG**  
M20 Lifting Eye



**KHLM**  
Male fork  
connector complete



**KHLP**  
Cylindrical pin  
+ 3 mm safety R-clip



**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



**TZHL01**  
FL assembly kit



## Accessories



**MTC76F**  
MT76 frame with bolts



**MTC76D**  
MT76 frame with wheels



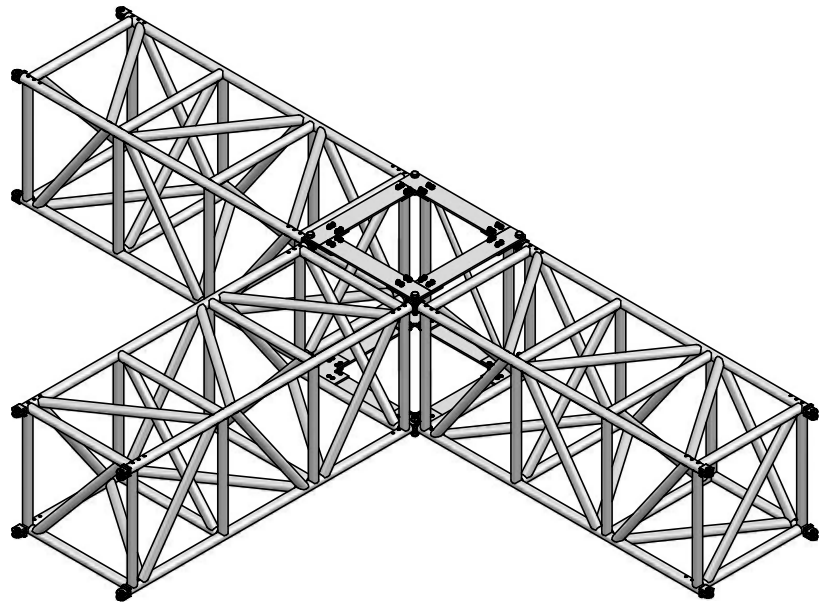
**FL76071M2HS**  
FL76 cm 71.2  
+ motor support



**FL76071M2P**  
Gate - HL76 Flat truss  
L = 71.2 cm

## Towers

QL76200A e AB



# QL85A

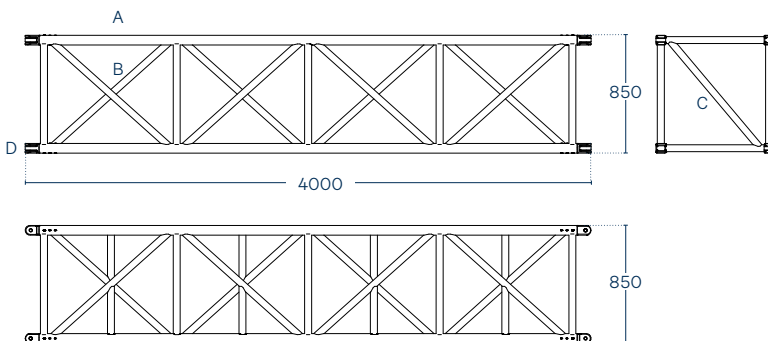
## Anti-torsion



Square section High Load aluminium truss with 85 cm long sides. It is provided with steel fork connections and  $\varnothing 70 \times 5$  mm chords. Thanks to its elevated moment of inertia and resistance of its connections, it is mainly used in the composition of towers. in the composition of towers.

### Linear elements

code	cm	kg
QL85200A	85 x 85 x 200	83.6
QL85300A	85 x 85 x 300	107.2
QL85300AB	85 x 85 x 300	107.2



### Chords A

Extruded tube  $\varnothing 70 \times 5$  mm  
EN AW-6082 T6

### Diagonals B

Extruded tube  $\varnothing 50 \times 4$  mm  
EN AW-6082 T6

### Braces C

Extruded tube  $\varnothing 50 \times 4$  mm  
EN AW-6082 T6

### Ends C

Steel forks connector  
EN AW-6082 T6

### Connection systems

KHLP24L97: cylindrical pin +  
safety R-clip

### Cantilever load table / Fork connection



SPAN	Uniformly distributed load 'q'			Point load 'F'	
	Point load	Full load	Central deflection	Point load	Central deflection
m	kg/m	kg	mm	kg	mm
0.5	5494	2747	0	2747	0
1.0	2730	2730	0	2730	0
1.5	1809	2714	0	2714	1
2.0	1349	2697	1	2697	2
2.5	1072	2681	1	2681	3
3.0	888	2664	2	2664	5
3.5	757	2648	3	2496	8
4.0	658	2631	5	2289	11
4.5	581	2615	7	2111	15
5.0	520	2598	10	1936	19
5.5	469	2582	13	1744	23
6.0	428	2565	17	1583	27



### Axial load table

SPAN			SPAN		
	F <sub>am</sub>	F <sub>am</sub>		F <sub>am</sub>	F <sub>am</sub>
m	kg	kg	m	kg	kg
10	24548	12417	20	15842	
12	23038	9508	22	14165	
14	21323	7358	24	12631	
16	19490		26	11249	
18	17636				

### Load table / Fork connection

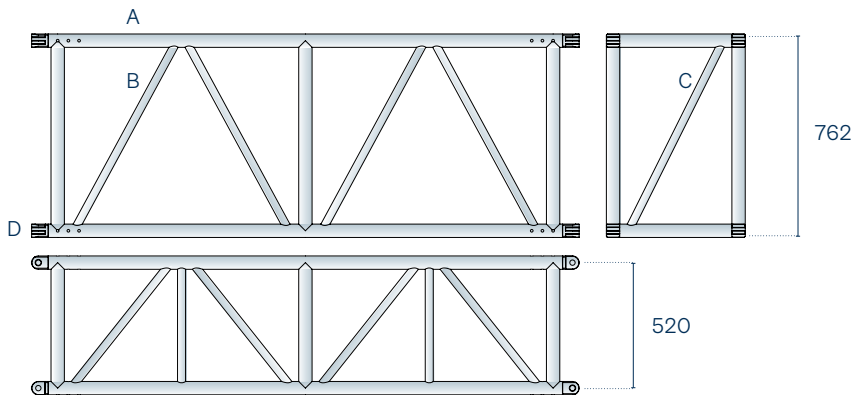
SPAN	 Unif. distributed load			 Centre point load			 Third point load			 Quarter point load			 Fifth point load		
	Point load	Full load	Central deflection	Point load	Full load	Central deflection	Point load	Full load	Central deflection	Point load	Full load	Central deflection	Point load	Full load	Central deflection
	kg/m	kg	mm	kg	kg	mm	kg	kg	mm	kg	kg	mm	kg	kg	mm
5	1072	5362	2	5362	5362	3	2681	5362	3	1787	5362	3	1340	5362	2
6	888	5329	4	5329	5329	6	2664	5329	5	1776	5329	4	1332	5329	4
7	757	5296	6	5089	5089	8	2648	5296	8	1765	5296	7	1324	5296	7
8	658	5263	8	4681	4681	12	2631	5263	11	1754	5263	10	1316	5263	10
9	581	5230	12	4329	4329	15	2615	5230	16	1743	5230	15	1307	5230	14
10	520	5197	16	4021	4021	20	2565	5130	22	1732	5197	20	1299	5197	19
11	469	5164	22	3665	3665	24	2413	4826	27	1721	5164	27	1291	5164	26
12	428	5131	28	3366	3366	29	2275	4551	34	1683	5049	35	1283	5131	34
13	392	5098	36	3098	3098	35	2150	4301	41	1549	4647	41	1274	5098	43
14	362	5064	45	2867	2867	41	2036	4072	49	1433	4300	48	1194	4778	51
15	335	5031	55	2643	2643	47	1931	3862	57	1321	3964	55	1101	4405	58
16	306	4890	66	2445	2445	54	1834	3667	67	1222	3667	63	1019	4075	66
17	267	4537	74	2268	2268	61	1701	3403	76	1134	3403	71	945	3781	75
18	234	4219	83	2110	2110	69	1582	3165	85	1055	3165	80	879	3516	84
19	207	3932	93	1966	1966	77	1475	2949	95	983	2949	89	819	3277	94
20	184	3670	103	1835	1835	86	1376	2753	105	918	2753	99	765	3059	104
21	163	3430	114	1715	1715	95	1286	2573	116	858	2573	109	715	2859	115
22	146	3209	125	1605	1605	105	1203	2407	127	802	2407	120	669	2674	126
23	131	3004	137	1502	1502	116	1127	2253	139	751	2253	132	626	2504	138
24	117	2814	150	1407	1407	127	1055	2111	152	704	2111	144	586	2345	150
25	105	2636	163	1318	1318	138	989	1977	165	659	1977	157	549	2197	164
26	95	2470	176	1235	1235	151	926	1852	179	617	1852	170	515	2058	177
27	86	2313	190	1157	1157	164	867	1735	193	578	1735	184	482	1928	191
28	77	2165	205	1083	1083	177	812	1624	208	541	1624	198	451	1804	206
29	70	2025	221	1013	1013	192	759	1519	224	506	1519	213	422	1688	222
30	63	1893	237	946	946	207	710	1419	240	473	1419	229	394	1577	238

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.



Rectangular section High Load aluminium truss with 76 x 52 cm long sides. It is diagonalized on all faces and is provided with steel fork connections. It ensures high load capacity on medium-long spans thanks to the design of its main components.



### Linear elements

code	cm	kg
RL76100A	76.2 x 52 x 100	19.40
RL76200A	76.2 x 52 x 200	45.00
RL76300A	76.2 x 52 x 300	52.00

### Corners and sleeve block

code	cm	kg
FL76047P	76.2 x 47 x 5	8.9
FL76066M5	76.2 x 66.5 x 5	9.7
MTC40F	59 x 59 x 1	4.3
MTC40G / MTC40D	59 x 59 x 1	13.3 / 14.5
KHLP	Ø2	0.15

#### Chords A

Extruded tube Ø 50 x 4 mm  
EN AW-6082 T6

#### Diagonals B

Extruded tube Ø 30 x 3 mm  
EN AW-6082 T6

#### Braces C

Extruded tube Ø 50 x 4 mm  
EN AW-6082 T6

#### Ends C

Steel forks connector  
11SMnPb37

#### Connection systems

KHLP: cylindrical pin + safety R-clip

### Cantilever load table / Fork connection



SPAN	Uniformly distributed load q			Point load F	
	Point load	Full load	Central deflection	Point load	Central deflection
m	kg/m	kg	mm	kg	mm
1.0	2873	2873	0	2873	1
2.0	1428	2855	3	2305	7
3.0	917	2751	10	1707	17
4.0	564	2257	20	1348	32
5.0	380	1902	34	1106	52
6.0	272	1633	52	931	77



### Axial load table

SPAN		
	F <sub>am</sub>	F <sub>am</sub>
m	kg	kg
3	16542	14191
6	15175	7669
9	12818	
12	9984	
13	9093	
14	8266	
15	7508	
16	6821	
17	6202	
18	5645	

### 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	1910	5729	2	5593	5593	3	2864	5729	3	1910	5729	3	1432	5729	3
4	1428	5711	5	4633	4633	7	2855	5711	7	1904	5711	7	1428	5711	6
5	1139	5693	10	3952	3952	11	2601	5202	13	1898	5693	13	1423	5693	12
6	946	5675	18	3441	3441	17	2299	4597	20	1846	5539	22	1419	5675	21
7	808	5657	28	3043	3043	24	2057	4114	28	1669	5006	32	1314	5258	32
8	705	5639	42	2724	2724	33	1859	3718	38	1492	4476	42	1172	4688	42
9	586	5271	57	2462	2462	43	1694	3387	50	1318	3953	54	1056	4224	55
10	471	4710	70	2242	2242	54	1553	3106	63	1177	3532	66	959	3836	69
11	386	4247	85	2054	2054	66	1432	2864	78	1062	3186	81	877	3508	84
12	322	3859	101	1892	1892	80	1326	2652	95	965	2894	96	804	3216	101
13	271	3528	118	1751	1751	96	1233	2466	113	882	2646	113	735	2940	119
14	232	3241	137	1621	1621	112	1150	2301	133	810	2431	131	675	2701	138
15	199	2991	158	1495	1495	129	1076	2152	155	748	2243	151	623	2492	159
16	173	2769	180	1384	1384	148	1009	2018	179	692	2077	172	577	2307	181
17	151	2571	203	1286	1286	167	948	1896	204	643	1928	194	536	2143	205
18	133	2394	228	1197	1197	189	892	1785	232	598	1795	218	499	1995	230
19	118	2233	255	1116	1116	211	837	1675	260	558	1675	244	465	1861	256
20	104	2086	283	1043	1043	235	782	1565	288	522	1565	271	435	1738	285
21	93	1952	312	976	976	261	732	1464	318	488	1464	299	407	1626	314
22	83	1828	343	914	914	288	686	1371	349	457	1371	329	381	1523	345
23	75	1714	376	857	857	316	643	1285	382	428	1285	361	357	1428	378
24	67	1607	410	804	804	347	603	1205	417	402	1205	394	335	1339	412
25	60	1508	446	754	754	379	565	1131	453	377	1131	429	314	1256	448

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.

High Load structures can be extended using specially designed accessories for suspension, transportation and reinforcement, including hooks, corner frames and skates. Only forked connectors with steel junction pins are used. Designed to withstand the highest stress and load levels, they offer guaranteed compatibility with the whole series.

Gates are short, flat section High Load elements generally used when putting together corners or tower sleeve blocks. Code numbers shown under the pictures refer to the shape and make it easy to identify.

## Connections



**KHLB**  
M20 screw bolt  
+ spring washer



**KHLD**  
M20 screw nut  
+ spring washer



**KHLF**  
Female fork connector  
complete



**KHLG**  
M20 Lifting Eye



**KHLM**  
Male fork  
connector complete



**KHL P**  
Cylindrical pin  
+ 3 mm safety R-clip



**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



**TZHL01**  
FL assembly kit

## Accessories



**C052D**  
Bar hook for 52 cm truss



**FP765Z21**  
Universal 52 cm truss floor  
plate



**MTC40D**  
Lower frame MT40,  
w/ wheels



**MTC40F**  
Square frame with bolts



**MTC40G**  
Upper frame MT40,  
w/ wheels and rings



**MTC52D**  
Lower frame - QL52A truss,  
w/ wheels



**MTC52G**  
Upper frame - QL52A  
truss, w/ wheels and rings



**FL76047HS**  
HL 76 cm. gate - 47 cm  
truss - hoist support



**FL76047HSZ1**  
HL76 cm gate - 47 cm  
truss - hoist support

## Gates



**FL76047P**  
HL 76 cm ladder cm  
47 truss with horizontal forks



**FL76059P**  
HL 76 cm. gate - cm. 59  
truss w/ horizontal  
forks - FL76



**FL76059PH**  
HL 76 cm. gate - cm. 59  
truss w/ coupling - RL76/  
FL76



**FL76066M5P**  
HL 76 cm. ladder - cm.  
66.5 truss with  
horizontal forks

## Corner solutions



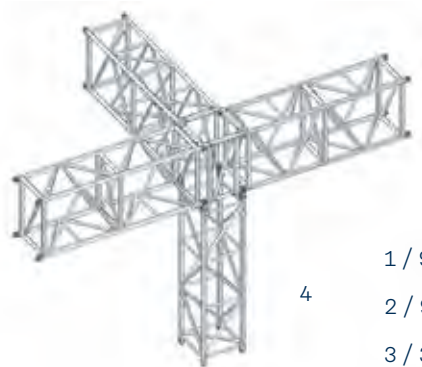
1



2



3



4

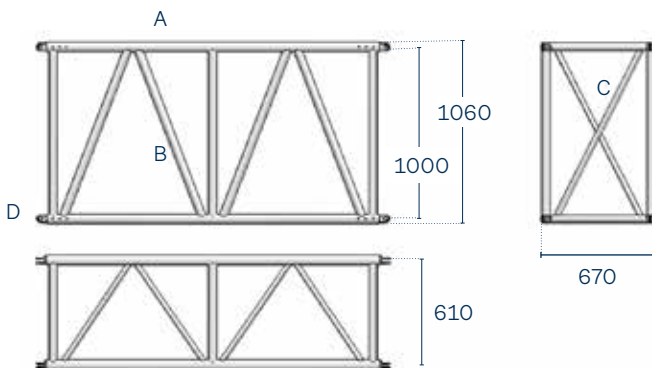
- 1 / 90° solution with frame
- 2 / 90° solution with gate
- 3 / 3-way solution with frame
- 4 / 4-way solution with frame

# RL105A

Anti-torsion



Rectangular section High Load aluminium truss with 105 x 67 cm long sides. It is intended for uses that require elevated loads on large spans. The steel fork connection bestows sturdiness and wear resistance to the system. It is designed and tested according to the most widespread international standards.



#### Chords A

Extruded tube  $\varnothing$  60 x 5 mm  
EN AW 6082 T6

#### Diagonals B

Extruded tube  $\varnothing$  50 x 3 mm  
EN AW 6082 T6

#### Braces C

Extruded tube  $\varnothing$  50 x 4 mm  
EN AW 6082 T6

#### Ends D

Steel forks connector  
11SMnPb37

#### Connection systems

KHLP: cylindrical pin + safety R-clip

#### Linear elements

code	cm	kg
RL105100A	106 x 67 x 100	41.5
RL105200A	106 x 67 x 200	62.5
RL105300A	106 x 67 x 300	83.5

#### Gates and accessories

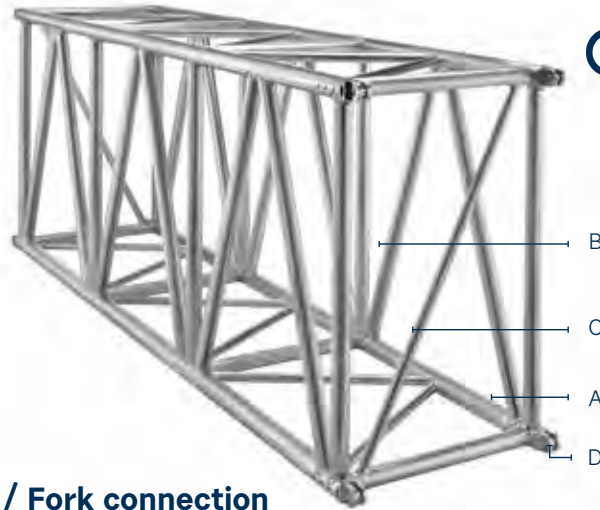
code		kg
KHLPZ1	Cylindrical pin + safety R-clip	0.2
C067RL	Pick up bar RL 105	9.9
RL105TT	RL 105 skate set - 2 pcs	7.5 On demand
RL 105X4	HL 105 rectangular 4 ways corner	75.2
MTS 52K02	Wheel set for sleeve block Set of 8 pcs	19.6
MTS 52R105	RL105 4 ways sleeve block Maxitower 52	94.8
MTS 52R105H	RL105 3 ways w/hoist support sleeve block - Maxitower 52	103.1
MTS 52K01	Guy-wires fastening to sleeve block - Set of 4 pcs	6.3

### Cantilever load table / Fork connection



SPAN	Uniformly distributed load			Centre point load	
	m	kg / m	kg	kg	mm
2	1976	3952	1	3018	1
4	734	2936	4	2005	7
6	382	2290	11	1467	18
8	229	1831	22	1124	34
10	148	1479	36	882	54





### 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	3471	10414	1	9669	9669	1	5207	10414	1	3471	10414	1	2603	10414	1
4	2596	10386	1	8615	8615	2	5009	10018	2	3462	10386	2	2596	10386	2
5	2072	10358	3	7394	7394	3	4619	9238	3	3398	10193	4	2590	10358	3
6	1722	10330	5	6461	6461	5	4273	8546	5	3190	9569	6	2574	10294	6
7	1472	10303	8	5735	5735	7	3841	7683	8	3002	9005	9	2441	9764	9
8	1284	10275	12	5149	5149	9	3484	6969	11	2827	8482	12	2222	8887	12
9	1139	10247	16	4663	4663	12	3184	6368	14	2587	7761	16	2006	8024	16
10	990	9896	22	4255	4255	15	2927	5854	18	2340	7019	20	1826	7303	20
11	819	9005	27	3905	3905	19	2704	5409	22	2132	6395	24	1672	6689	24
12	687	8246	32	3603	3603	23	2509	5019	27	1954	5863	29	1540	6160	29
13	584	7591	38	3342	3342	27	2337	4674	32	1801	5403	34	1425	5698	34
14	501	7020	44	3108	3108	32	2183	4366	37	1667	5000	40	1323	5292	40
15	434	6516	50	2899	2899	37	2045	4090	43	1548	4645	46	1232	4926	46
16	379	6068	57	2711	2711	42	1920	3839	50	1442	4326	52	1151	4603	53
17	333	5666	65	2540	2540	48	1805	3611	57	1346	4039	59	1078	4311	60
18	295	5302	73	2387	2387	54	1704	3408	65	1262	3786	66	1011	4046	68
19	261	4968	81	2244	2244	61	1608	3216	72	1183	3548	74	951	3803	76
20	234	4671	90	2113	2113	68	1519	3038	81	1111	3332	82	895	3580	84
21	209	4392	99	1995	1995	75	1439	2877	90	1047	3140	91	844	3376	93
22	188	4135	109	1884	1884	83	1362	2723	99	986	2957	100	797	3190	102
23	169	3891	119	1779	1779	91	1290	2580	109	930	2791	109	752	3010	112
24	152	3660	129	1681	1681	100	1222	2443	119	877	2631	119	711	2843	122
25	138	3452	139	1589	1589	109	1160	2320	130	828	2483	129	672	2687	133
26	125	3254	150	1503	1503	118	1100	2201	141	781	2344	139	634	2538	143
27	114	3069	162	1421	1421	128	1044	2088	152	737	2210	150	601	2403	155
28	103	2897	173	1343	1343	138	991	1981	164	697	2090	162	568	2272	166
29	94	2730	185	1270	1270	149	940	1880	177	658	1974	173	537	2149	179
30	86	2573	198	1200	1200	160	891	1783	189	621	1863	185	508	2031	191
31	78	2424	210	1133	1133	171	845	1690	203	586	1757	198	480	1919	204
32	71	2283	223	1069	1069	183	801	1602	216	552	1657	210	453	1812	217
33	65	2148	237	1008	1008	196	759	1517	231	520	1561	224	427	1710	231

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.

High Load structures can be extended using specially designed accessories for suspension, transportation and reinforcement, including hooks, corner frames and skates. Only forked connectors with steel junction pins are used. Designed to withstand the highest stress and load levels, they offer guaranteed compatibility with the whole series.

Gates are short, flat section High Load elements generally used when putting together corners or tower sleeve blocks. Code numbers shown under the pictures refer to the shape and make it easy to identify.

## Connections



**KHLB**  
M20 screw bolt  
+ spring washer



**KHLD**  
M20 screw nut  
+ spring washer



**KHLF**  
Female fork connector  
complete



**KHLG**  
M20 Lifting Eye



**KHLM**  
Male fork  
connector complete



**KHLP**  
Cylindrical pin  
+ 3 mm safety R-clip



**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

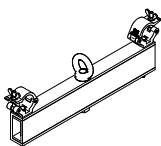


**KHL90RS**  
90° double fork steel  
connector, right



**TZHL01**  
FL assembly kit

## Accessories



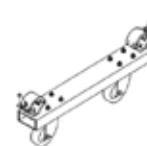
**C067RL**  
Pickup bar RL105



**MTS52K01**  
Guy-wires fastening to  
sleeve block Set of 4 pcs

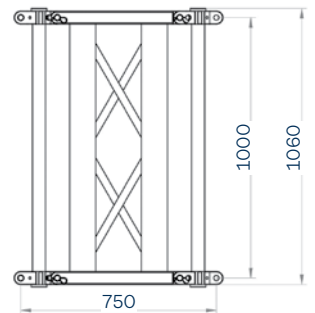
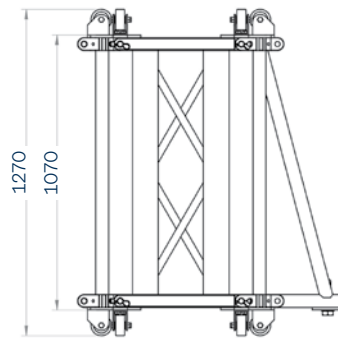
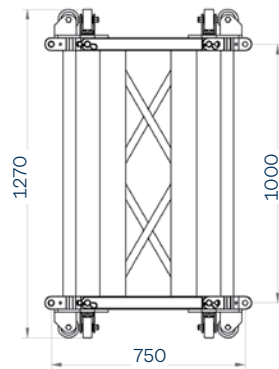
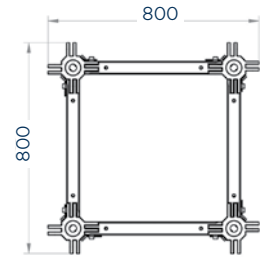
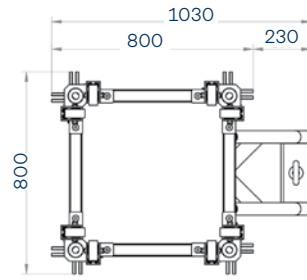
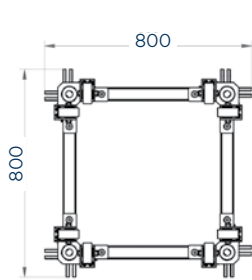


**MTS52K02**  
Wheel set for sleeve block  
- Set of 8 pcs



**RL105TT**  
RL 105 skate set 2 pcs

# Sleeve blocks



**MTS52R105**



**MTS52R105H**

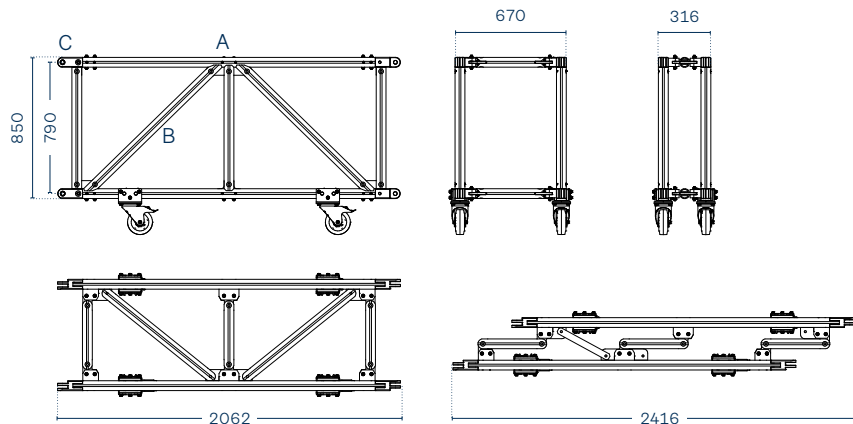


**RL105x4**

# MyT Virtue



MyT Virtue is a new truss that's the smallest member of the MyT family. Made from EN AW-7003 T6 aluminium alloy, it features a folding design to save space during transportation and has a higher load capacity than our RL105A series and all other truss on the market with similar dimensions. It's the perfect choice for larger, more demanding indoor and outdoor events.



Chords A  
Extruded aluminium tube  $\varnothing$  60 mm  
EN AW-7003 T6

Diagonals B  
Extruded aluminium tube  $\varnothing$  60 mm  
EN AW-7003 T6

Ends C  
Aluminium forks connector  
EN AW-7003 T6

Connection system  
Steel  
11SMnPb37

Bolts  
cl. 10.9

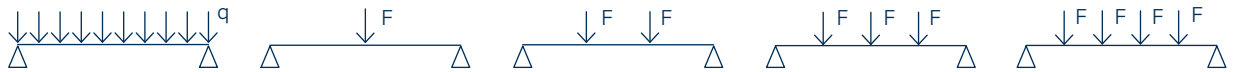
Section area  
5.284 mm<sup>2</sup>

#### Linear elements

code	cm	kg
LT MF85200A	85 x 67 x 200	166
LT MF85300A	85 x 67 x 300	219



### Load table / Fork connection



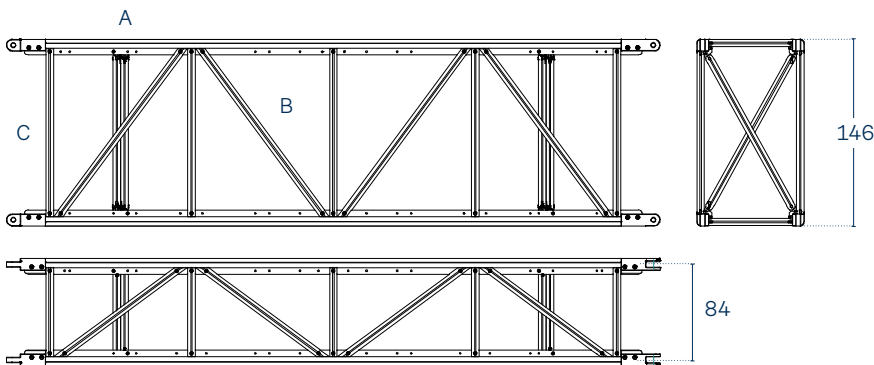
SPAN	Unif. distributed load			Centre point load			Third point load			Quarter point load			Fifth point load		
	Point load	Full load	Central deflection	Point load	Full load	Central deflection	Point load	Full load	Central deflection	Point load	Full load	Central deflection	Point load	Full load	Central deflection
m	kg/m	kg	mm	kg	kg	mm	kg	kg	mm	kg	kg	mm	kg	kg	mm
2	5047	10094	0.0	10094	10094	0.0	5047	10094	0.0	3365	10094	0.0	2524	10094	0.0
4	2492	9968	0.1	9381	9381	0.1	4984	9968	0.1	3323	9968	0.1	2492	9968	0.1
6	1640	9842	0.3	7980	7980	0.4	4628	9255	0.4	3281	9842	0.3	2460	9842	0.3
8	1214	9716	0.7	6916	6916	0.7	4117	8234	0.8	3043	9129	0.8	2429	9716	0.8
10	959	9590	1.3	6077	6077	1.3	3692	7384	1.3	2771	8313	1.4	2251	9003	1.5
12	789	9464	2.2	5394	5394	2.0	3332	6664	2.1	2534	7602	2.3	2079	8316	2.4
14	667	9338	3.5	4825	4825	3.0	3021	6043	3.2	2324	6973	3.4	1925	7698	3.5
16	576	9212	5.3	4341	4341	4.1	2749	5499	4.4	2137	6412	4.7	1785	7140	5.0
18	454	8168	6.9	3922	3922	5.5	2508	5016	5.9	1969	5906	6.4	1657	6629	6.8
20	356	7112	8.5	3554	3554	7.1	2292	4584	7.7	1778	5333	8.2	1482	5924	8.6
22	283	6224	10.4	3112	3112	8.7	2097	4194	9.7	1556	4668	9.9	1297	5187	10.4
24	228	5464	12.4	2732	2732	10.5	1919	3837	12.0	1366	4098	11.9	1138	4554	12.4
26	185	4802	14.6	2401	2401	12.5	1755	3509	14.5	1200	3601	14.0	1000	4001	14.7
28	151	4216	17.0	2108	2108	14.7	1581	3162	17.2	1054	3161	16.4	878	3513	17.1
30	123	3691	19.6	1846	1846	17.1	1384	2768	19.9	923	2768	19.0	769	3076	19.7

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.



Rectangular section High Load aluminium truss with extraordinary dimensions; it is 84 cm wide, 146 cm high and 500 cm long, and weighs 430 kg. It is made in high-performance aluminium alloy EN AW-7003 T6, among the aluminium series with the best mechanical characteristics. The truss can be used in large installations intended for entertainment, for temporary and semi-permanent structures. At maximum load spans it undergoes virtually no bending.



Chords A  
Extruded aluminium  
EN AW-7003 T6

Diagonals B  
Extruded aluminium  
EN AW-7003 T6

Ends C  
Aluminium forks connector  
EN AW-7003 T6

Connection system  
11SMnPb37

#### Accessories

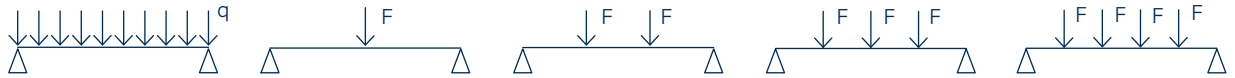
code	
TR150M-A002	4 way connection kit
TR150M-A001	Trolley Skate 2 pc

#### Linear elements

code	cm	kg
TR150M-25M-A	84 x 146 x 250	233.5
TR150M-50M-A	84 x 146 x 500	430



## 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
2	5039	10077	0	10076	10076	0	5039	10077	0	3359	10076	0	2519	10075	0
4	2476	9904	0.1	9905	9905	0.2	4953	9906	0.2	3302	9905	0.2	2476	9904	0.2
6	1623	9737	0.5	9734	9734	0.8	4867	9735	0.6	3245	9734	0.6	2433	9733	0.6
8	1196	9566	1.1	9563	9563	1.8	4782	9564	1.5	3188	9563	1.4	2390	9562	1.4
10	939	9388	2.2	9391	9391	3.4	4696	9392	3	3130	9391	2.8	2348	9390	2.7
12	769	9223	3.9	9220	9220	5.9	4611	9221	5.1	3073	9220	4.8	2305	9219	4.6
14	646	9048	6.1	9049	9049	9.4	4525	9050	8.1	3016	9049	7.6	2262	9048	7.3
16	555	8873	9.2	8878	8878	13.9	4439	8879	12	2959	8878	11.3	2219	8877	10.8
18	484	8716	13.1	8594	8594	19.4	4354	8707	17.1	2902	8706	16	2176	8705	15.4
20	427	8542	18	8134	8134	25.7	4268	8536	23.4	2845	8535	21.9	2134	8534	21.1
22	380	8365	24	1589	1589	33.1	4182	8365	31	2788	8364	29.1	2091	8363	28
24	341	8196	31.2	7305	7305	41.7	4097	8194	40.1	2731	8193	37.7	2048	8192	36.3
26	309	8031	39.8	6930	6930	51.4	4007	8014	50.8	2674	8021	47.9	2005	8020	46.2
28	280	7849	49.8	6577	6577	62.4	3819	7637	61.9	2617	7850	59.7	1962	7849	57.6
30	256	7676	61	6244	6244	75	3639	7278	74	2560	7679	73	1919	7678	71
32	234	7503	75	5928	5928	89	3466	6932	88	2503	7508	89	1877	7507	86
34	216	7348	90	5628	5628	104	3300	6599	104	2445	7336	106	2038	8151	103
36	199	7156	107	5327	5327	120	3139	6277	121	2351	7052	124	1791	7164	122
38	185	7011	126	4882	4882	135	2984	5967	139	2245	6734	144	1748	6993	143
40	170	6809	147	4472	4472	151	2834	5668	159	2141	6422	165	1705	6822	166

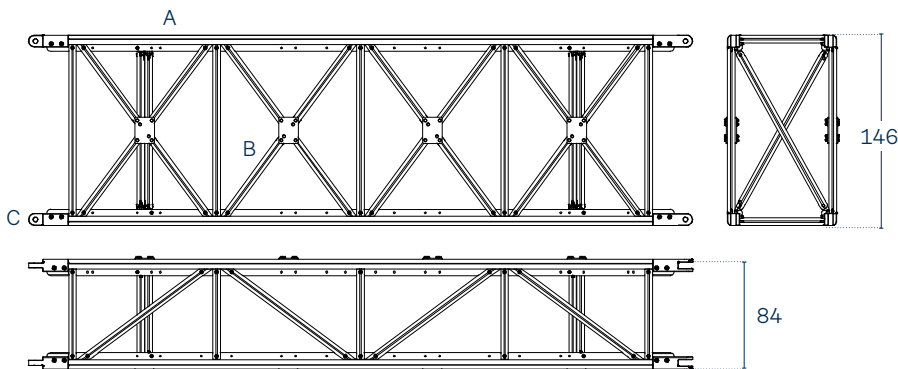
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end. The values shown in the table are the allowable static loads that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

# MyT Steroid



Rectangular section High Load aluminium truss with extraordinary dimensions; it is 84 cm wide, 146 cm high and 500 cm long, and weighs 430 kg. It is made in highperformance aluminium alloy EN AW-7003 T6, among the aluminium series with the best mechanical characteristics. Thanks to the double number of diagonals on the vertical faces, the Steroid version has better performances than the Regular version. The truss can be used in large installations intended for entertainment, for temporary and semi-permanent structures. At maximum load spans it undergoes virtually no bending.



Chords A  
Extruded aluminium  
EN AW-7003 T6

Diagonals B  
Extruded aluminium  
EN AW-7003 T6

Ends C  
Aluminium forks connector  
EN AW-7003 T6

Connection system  
11SMnPb37

## Cantilever load table / Fork connection



SPAN	Uniformly distributed load			Centre point load	
	m	kg / m	kg	mm	mm
1	15199	7600	0	7451	0
2	4871	7307	0	6906	0
3	2813	7038	0	6435	1
4	1938	6782	1	6025	2
5	1455	6547	1	5668	3





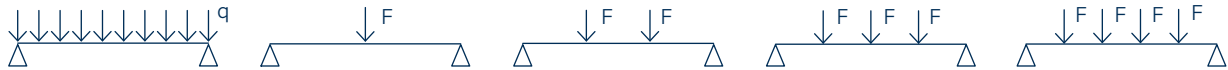
### Accessories

code	
TR150M-A002	4 way connection kit
TR150M-A001	Trolley Skate 2 pc

### Linear elements

code	cm	kg
TR150M-50M-G	84 x 146 x 500	495

## 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
2	7671	15341	0	14332	14332	0	7324	14648	0	4938	14811	0	3729	14913	0
4	3792	15168	0	13303	13303	0	6929	13853	0	4720	14159	0	2587	14343	0
6	2499	14995	1	12396	12396	1	6565	13129	1	4514	13537	1	3451	13802	1
8	1853	14832	2	11590	11590	2	6228	12457	2	4319	12956	2	3321	13282	2
10	1466	14659	3	10877	10877	4	5916	11835	4	4136	12406	4	3197	12783	4
12	1207	14485	6	10224	10224	7	5626	11254	6	3961	11886	6	3077	12314	6
14	1022	14312	9	9633	9633	10	5353	10703	9	3795	11386	9	2962	11845	9
16	884	14139	14	9093	9093	14	5097	10194	14	3636	10907	14	2851	11407	14
18	776	13976	20	8594	8594	19	4855	9710	19	3484	10459	19	2745	10979	19
20	690	13802	27	8134	8134	26	4627	9254	25	3339	10017	25	2641	10571	25
22	620	13629	36	7705	7705	33	4410	8820	32	3200	9599	33	2541	10166	33
24	561	13456	47	7305	7305	42	4204	8408	41	3065	9197	42	2444	9779	42
26	511	13282	60	6930	6930	51	4007	8014	51	2936	8808	52	2351	9403	53
28	465	13007	74	6577	6577	62	3819	7638	62	2811	8434	63	2260	9038	64
30	421	12620	90	6244	6244	75	3639	7277	74	2691	8072	76	2170	8683	78
32	382	12232	108	5928	5928	89	3466	6932	88	2574	7723	91	2085	8337	93
34	338	11509	125	5628	5628	104	3300	6598	104	2461	7382	107	2000	8000	109
36	294	10561	141	5327	5327	120	3139	6277	121	2351	7053	124	1917	7672	128
38	255	9682	157	4882	4882	135	2984	5967	139	2245	6733	144	1838	7351	148
40	222	8876	175	4472	4472	151	2834	5669	159	2141	6421	165	1759	7038	170

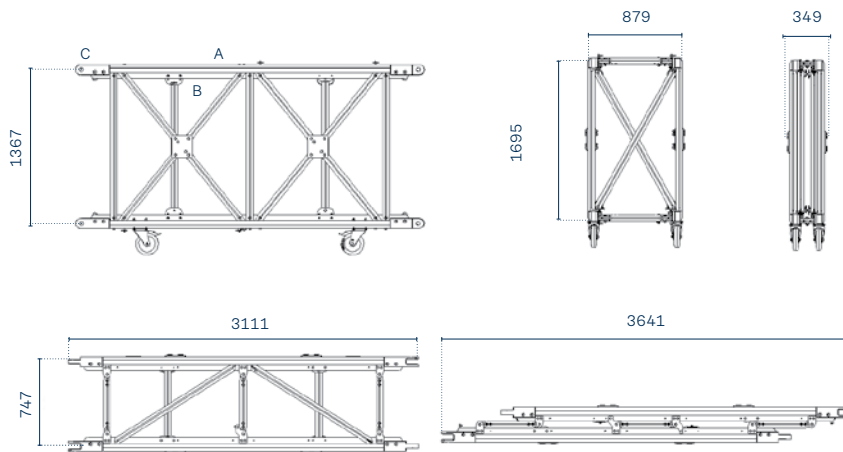
Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end. The values shown in the table are the allowable static loads that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

# MyT Folding Steroid



The MyT is a unique truss created from ultra-high strength EN AW-7003 aluminium alloy and benefits from an entirely bolted construction (no welded parts). For ease of transportation and handling, it is equipped with 4 large robust rubber wheels that allow the truss to be moved easily in many ground conditions. The MyT corner block is made from steel and is engineered to be obtain the maximum load capacity from the truss in any configuration.



## Linear elements

code	cm	kg
TF150M-30M-A	84 x 146 x 300	326
TF150M-25M-A	84 x 146 x 250	300
TF150M-20M-A	84 x 146 x 200	230
TR150-C4	150 x 150 x 136.7	995
TR150-C4-2	150 x 150 x 136,7	404

Chords A  
Extruded aluminium  
EN AW-7003 T6

Diagonals B  
Extruded aluminium  
EN AW-7003 T6

Ends C  
Aluminium forks connector  
EN AW-7003 T6

Connection system  
11SMnPb37

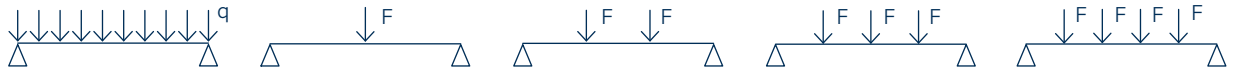
## Cantilever load table / Fork connection



SPAN	Uniformly distributed load			Centre point load	
	m	kg / m	kg	mm	mm
1	15199	7600	0	7451	0
2	4871	7307	0	6906	0
3	2813	7038	0	6435	1
4	1938	6782	1	6025	2
5	1455	6547	1	5668	3



### 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
2	7671	15341	0	14332	14332	0	7324	14648	0	4938	14811	0	3729	14913	0
4	3792	15168	0	13303	13303	0	6929	13853	0	4720	14159	0	2587	14343	0
6	2499	14995	1	12396	12396	1	6565	13129	1	4514	13537	1	3451	13802	1
8	1853	14832	2	11590	11590	2	6228	12457	2	4319	12956	2	3321	13282	2
10	1466	14659	3	10877	10877	4	5916	11835	4	4136	12406	4	3197	12783	4
12	1207	14485	6	10224	10224	7	5626	11254	6	3961	11886	6	3077	12314	6
14	1022	14312	9	9633	9633	10	5353	10703	9	3795	11386	9	2962	11845	9
16	884	14139	14	9093	9093	14	5097	10194	14	3636	10907	14	2851	11407	14
18	776	13976	20	8594	8594	19	4855	9710	19	3484	10459	19	2745	10979	19
20	690	13802	27	8134	8134	26	4627	9254	25	3339	10017	25	2641	10571	25
22	620	13629	36	7705	7705	33	4410	8820	32	3200	9599	33	2541	10166	33
24	561	13456	47	7305	7305	42	4204	8408	41	3065	9197	42	2444	9779	42
26	511	13282	60	6930	6930	51	4007	8014	51	2936	8808	52	2351	9403	53
28	465	13007	74	6577	6577	62	3819	7638	62	2811	8434	63	2260	9038	64
30	421	12620	90	6244	6244	75	3639	7277	74	2691	8072	76	2170	8683	78
32	382	12232	108	5928	5928	89	3466	6932	88	2574	7723	91	2085	8337	93
34	338	11509	125	5628	5628	104	3300	6598	104	2461	7382	107	2000	8000	109
36	294	10561	141	5327	5327	120	3139	6277	121	2351	7053	124	1917	7672	128
38	255	9682	157	4882	4882	135	2984	5967	139	2245	6733	144	1838	7351	148
40	222	8876	175	4472	4472	151	2834	5669	159	2141	6421	165	1759	7038	170

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.



