FORK TRUSS

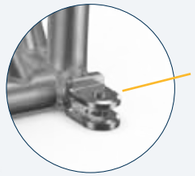
RL76A

HORIZONTAL FORK CONNECTION



Rectangular section High Load aluminium truss with 76 x 52 cm long sides.

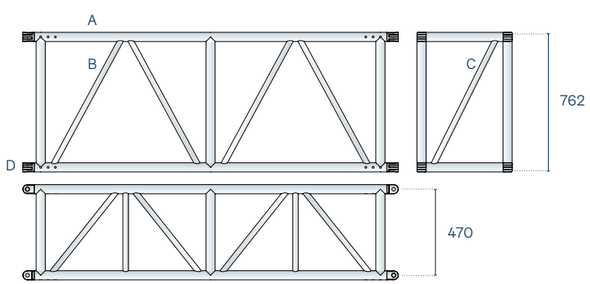
It is diagonalized on all faces and equipped with high-strength steel fork connections.
The optimized design of its main components ensures high load capacity on medium-long spans.



HORIZONTAL
FORK

LINEAR ELEMENTS		
Code	W × H × D (cm)	kg
RL76100A	52 × 76.2 × 100	29.7
RL76200A	52 × 76.2 × 200	44.1
RL76300A	52 × 76.2 × 305	58.9

Chords A	Diagonals B	Braces C	Ends D	Connection systems
Extruded tube Ø 50 × 4 mm EN AW – 6082 T6	Extruded tube Ø 30 × 3 mm EN AW – 6082 T6	Extruded tube Ø 50 × 4 mm EN AW – 6082 T6	Steel forks connector 11SMn37	KHLP: Cylindrical pin + safety R-clip



FORK TRUSS

RL76AZ3

VERTICAL FORK CONNECTION



This truss is available in two models: one with horizontal forks and one with vertical forks.

The choice between the two fork orientations is subjective and depends on the user's specific requirements.



VERTICAL
FORK

LINEAR ELEMENTS		
Code	W × H × D (cm)	kg
RL76100AZ2	52 × 76.2 × 100	29.7
RL76200AZ3	52 × 76.2 × 200	44.1
RL76300AZ2	52 × 76.2 × 300	58.9

Our technical team can provide support for specific applications.

Load table

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

Cantilever load table

span	Unif. distributed load			Centre point load	
[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		
[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 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



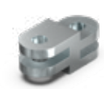
KHLM

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

Accessories



FP7652Z1

RL76 truss floor plate



RL76TTZ1

HL76 Transport trolley for RL76 & QL52
(longitudinal)



RL76TTZ2

HL76 Transport trolley for RL76 & QL52
(transverse)



C052D

Bar Hook for 52 cm truss
(double view depending on application)

Gate, Corners & Sleeve Blocks

FORK Truss **RL76A**

Corner and sleeve blocks can be created either by assembling individual components or by using pre-assembled systems.

There are several variations depending on the fork type, motor supports and, more generally, on the possible combinations with other Litec fork trusses. The illustrations show only some of the possible configurations, our technical team is available to provide further information or to assist with specific project requirements.



Code	W × D × H (cm)	Kg
MTC40F	58.8 × 58.8 × 10.2	5.8

MT40 square frame with bolts



Code	W × D × H (cm)	Kg
MTC40D	58.8 × 58.8 × 18.7	14.1

MT40 lower frame w/wheels



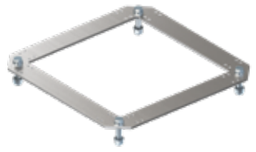
Code	W × D × H (cm)	Kg
MTC40G	58.8 × 58.8 × 15	14.6

MT40 upper frame w/wheels + lifting eyes



Code	W × D × H (cm)	Kg
FL76CS04C	19 × 19 × 76.2	3.7

HL76 single 4 Way Cross w/rounded forks



Code	W × D × H (cm)	Kg
MTC52F	70.8 × 70.8 × 10.3	6.9

MT52 Frame + Bolts



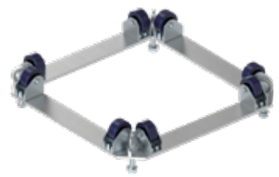
Code	W × D × H (cm)	Kg
MTC52PD	66.8 × 66.8 × 11.2	6.6

MT52 Upper Frame w/sliding blocks



Code	W × D × H (cm)	Kg
MTC52D	70.8 × 70.8 × 18.7	14.4

MT52 lower frame w/wheels



Code	W × D × H (cm)	Kg
MTC52G	70.8 × 70.8 × 17.5	16.4

MT52 upper frame w/wheels + lifting eyes



Code	W × D × H (cm)	Kg
FL76033V	38 × 61 × 76.2	10.3

HL76 L=033 cm reinforcement corner side(vertical forks)



Code	W × D × H (cm)	Kg
FL76047HS	52 × 35 × 76.2	16.6

HL76 L=047 cm corner side w/hoist lifting eye (horizontal forks)



Code	W × D × H (cm)	Kg
FL76059HS	35.5 × 64 × 79.3	17.9

HL76 L=59 cm corner side hoist lifting eye (horizontal forks)



Code	W × D × H (cm)	Kg
FL76047HSZ1	52 × 30 × 76.2	23.7

HL76 L=59 cm corner side hoist lifting eye (horizontal forks)



Code	W × D × H (cm)	Kg
FL76047P	52 × 6 × 76.2	9

RL76 Frame L=47 cm - Horizontal forks



Code	W × D × H (cm)	Kg
FL76059P	64 × 61 × 76.2	9.4

RL76 Frame L=59 cm - Horizontal forks



Code	W × D × H (cm)	Kg
FL76066M5P	71.5 × 61 × 76.2	9.7

RL76 Frame L=66.5 cm - Horizontal forks



Code	W × D × H (cm)	Kg
FL76059PH	64 × 12.4 × 76.2	13.1

RL76 frame L=59cm - FL/RL76 – 8 Horizontal forks



Code	W × D × H (cm)	Kg
RL76R2W	52 × 5 × 66.2	8.4

HL76 Reinforcement module Corner Block Side



Code	W × D × H (cm)	Kg
RL76R4W	52 × 52 × 66.2	21.5

HL76 4 way Corner Block reinforcement module



Code	W × D × H (cm)	Kg
RL76X4	66.4 × 66.4 × 76.2	30.9

RL76 4 way Corner



Code	W × D × H (cm)	Kg
RL7652X4	66 × 66 × 77.6	69.6

Multi-standard 4 way Corner - 52/76 cm + reinforcement arms



Code	W × D × H (cm)	Kg
TLS40-004	66 × 66 × 99.6	96.3

RL76 V40 4 way Sleeve Block w/4 FL76033V reinforcements (fitted for a QL40A tower)



Code	W × D × H (cm)	Kg
TLS40-003	84 × 66 × 99.6	109.7

RL76 V404 waySleeve Block w/4 FL76033V reinforcements + hoist block support (fitted for a QL40A tower)



Code	W × D × H (cm)	Kg
TLS40-007	66 × 66 × 99.6	100.8

RL76/QL52 V40 Sleeve Block–4 ways w/ side reinforcements (fitted for a QL40A tower)



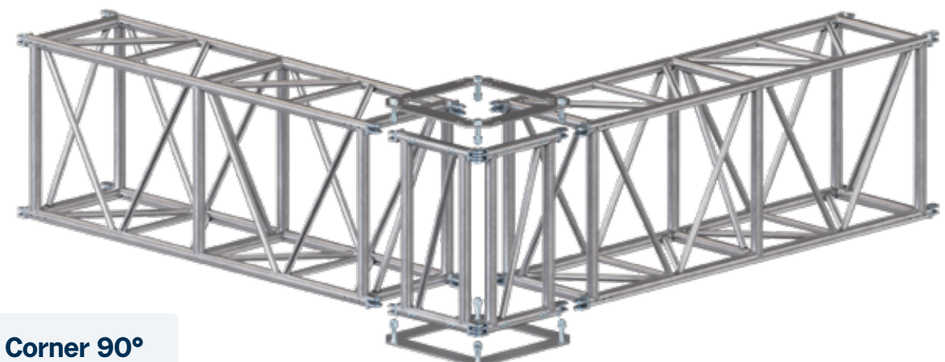
Code	W × D × H (cm)	Kg
TLS40-006	87 × 66 × 99.6	114.4

RL76/QL52 V40 Sleeve Block –4 waysw/ side reinforcements & hoist lifting eye (fitted for a QL40A tower)

Corner Assemblies

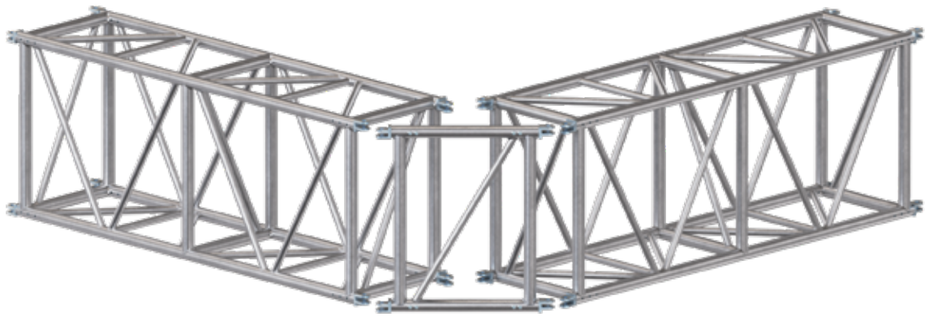
FORK Truss **RL76A**

A few gates and frames are all it takes to create corners, T-junctions and multi-way corners



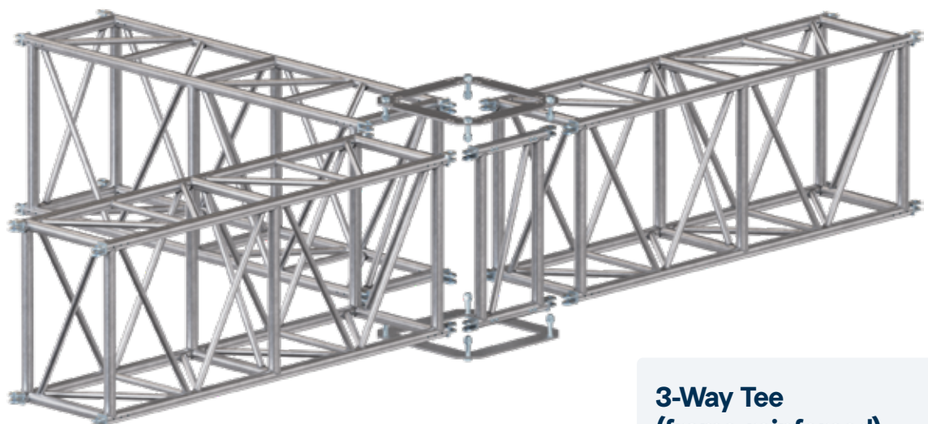
2-Way Corner 90° (frame-reinforced)

2 FL76047P
2 MTC52F



2-Way Corner 90° (gate-only)

1 FL76064M5P



3-Way Tee (frame-reinforced)

1 FL76047P
2MTC52F

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.