END PLATED TRUSS
RH40SA

Anti-torsion



Rectangular truss with 40 × 29 cm sides

The only plated rectangular truss in the Litec range, designed to maximise load-bearing capacity through its 40 cm main side, while the reduced 29 cm width ensures greater compactness.

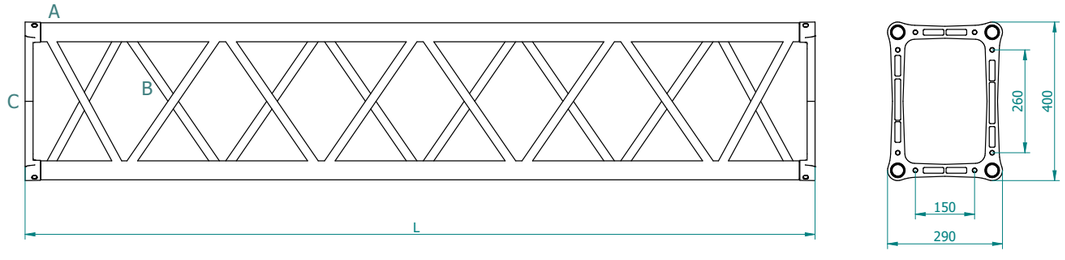
The result is a high-performance truss with a smaller footprint compared to the QH40SA model.

Main tubes: Ø48 × 3 mm aluminium
Diagonals: Ø22 × 2 mm aluminium

LINEAR ELEMENTS

Code	W × H × D (cm)	kg	Code	W × H × D (cm)	kg
RH40DP010	29 × 40 × 10	4.4	RH40SA200	29 × 40 × 200	16.6
RH40SA025	29 × 40 × 25	5.0	RH40SA250	29 × 40 × 250	19.9
RH40SA050	29 × 40 × 50	6.7	RH40SA300	29 × 40 × 300	23.2
RH40SA100	29 × 40 × 100	10.0	RH40SA350	29 × 40 × 350	26.5
RH40SA150	29 × 40 × 150	13.2	RH40SA400	29 × 40 × 400	29.8

Chords A	Diagonals B	Ends C	Connection systems
Extruded tube Ø 48 × 3 mm EN AW - 6082 T6	Extruded tube Ø 22 × 2 mm EN AW – 6082 T6	Aluminium casting plate EN AC – 42200 T6	QXFC: quick-fit kit QXSM10: bolt connection kit



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
1	3175	3175	0	3043	3043	0	1588	3175	0	1058	3175	0	794	3175	0
2	1584	3168	1	2389	2389	2	1390	2780	2	1012	3036	2	792	3168	2
3	1054	3162	5	1977	1977	5	1191	2382	5	887	2662	5	717	2869	5
4	789	3155	11	1688	1688	9	1044	2088	10	792	2376	10	648	2594	11
5	630	3148	21	1460	1460	16	929	1857	17	715	2146	18	592	2369	19
6	450	2700	32	1236	1236	23	837	1674	27	648	1944	29	524	2094	30
7	329	2302	43	1069	1069	32	761	1522	39	556	1668	40	451	1806	41
8	250	2001	56	939	939	43	680	1359	52	485	1455	52	396	1584	54
9	196	1766	71	835	835	55	608	1216	67	430	1289	66	352	1407	69
10	158	1576	88	750	750	68	549	1097	84	385	1154	82	316	1262	86
11	129	1420	107	679	679	83	499	997	102	347	1042	100	286	1142	104
12	107	1289	127	619	619	100	456	912	123	316	947	119	260	1040	124
13	91	1177	149	567	567	118	419	838	145	289	866	140	238	953	147
14	77	1080	174	522	522	138	387	773	170	265	796	163	219	876	171
15	66	994	199	481	481	159	358	716	196	245	734	188	202	809	197
16	57	919	227	446	446	182	333	665	225	227	680	214	187	749	224
17	50	852	257	414	414	207	310	619	255	210	630	243	174	696	254
18	44	791	289	385	385	234	289	578	287	195	586	273	162	648	286

Cantilever load table / Spigot connection

span	Unif. distributed load			Centre point load	
[m]	[kg/m]	[kg]	mm	[kg]	mm
1	151	151	1	119	2
2	591	118	5	838	9
3	324	971	14	616	23
4	205	820	28	468	42
5	141	704	47	373	66
6	98	586	70	308	96

Axial load table

span	Unif. distributed load
[m]	[kg/m]
1	14100
2	11900
3	8850
4	6220
5	4440

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

End Plated Truss **RH40SA**



End-plated trusses are compatible with two connection options: the **spigotted connection**, which is the preferred solution for temporary setups and the most widely used by professionals, and the common **nut and bolt system**. Load data in the tables of this catalogue refer to the spigot connection. **The bolted connection reduces performance**. Please contact our Technical Office for guidance.



KSG

Aluminium spigot, set of 10



KCP R-spring, set of 100

KSP Steel Pin, set of 10



K370

Half truss spigot + 1 steel pin + 1 R-spring (not for Dado)



KSFH

Threaded pin, set of 12



KSFHZ1

Stainless steel pin with self-locking nut and rubber damper. Recommended for permanent installations. Set of 12.



KCFS

Kit for vert. connection incl. bolts, spigots and accessories



QXFC

Quick connection set



QXSM10

Bolt connection set for 30 – 40 series



QXCFC

4 special steel half spigots with screws for Light Duty Dado



QUKFC

4 special steel half spigots with screws for Heavy Duty Dado

Complements

A range of complementary elements is available as standard to help you interface your RH40SA in the best possible way.



QU3040H050

29-40 Special Truss L=050 with hoist support



CBT3040

2 points Bridle Hook for 29 / 40 cm truss



CBQ3040

4 points Bridle Hook for 29/40 cm. truss



C030

Bar hook for 29 cm. truss



C030WB

29 cm wall bracket w/ half couplers



C029-40

Ceiling support for 29-40 truss series



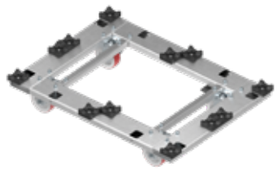
SASSL-B815

Support for transport & stacking of 2 x series 29 trusses



SASSL-C225

Support for transport & stacking of 4 x series 29 trusses



SASSL-C409

Universal trolley for transport of series 29 & 40 trusses



TZ40K01

Assembly tool for half-spigot for Dado 29/40 cm. (For heavy-duty Dado)

Dado, the multi-way box

The Litec Dado system is designed for interconnecting flat and square trusses. Its coupling concept allows the creation of 90° angles in any direction, while maintaining the outer dimensions of the truss and ensuring visual continuity. Each truss has its own dedicated Dado model.

Heavy-Duty Dado





Code	W × D × H (cm)	Kg
RU40K8	40 × 29 × 29	10.6

The Dado 8-way box corner (8 nodules) is the dedicated version for RH40SA rectangular truss. Optimized for creating 90°angles in six directions. Compatible with 29 cm trusses on top and bottom sides.

Code	W × D × H (cm)	Kg
RU40K12	40 × 29 × 29	13.0

The Dado 12-way box corner (12 nodules) is the dedicated Heavy-Duty version for RH40SA rectangular truss. Optimized for creating 90°angles in six directions. Compatible with 29 cm trusses in all directions.

The RH40SA line interfaces exclusively with its own Heavy-Duty Dado series , offering two specific Dado solutions, both featuring CNC-machined solid aluminium nodes. The 12-node version ensures compatibility with 29cm side trusses.