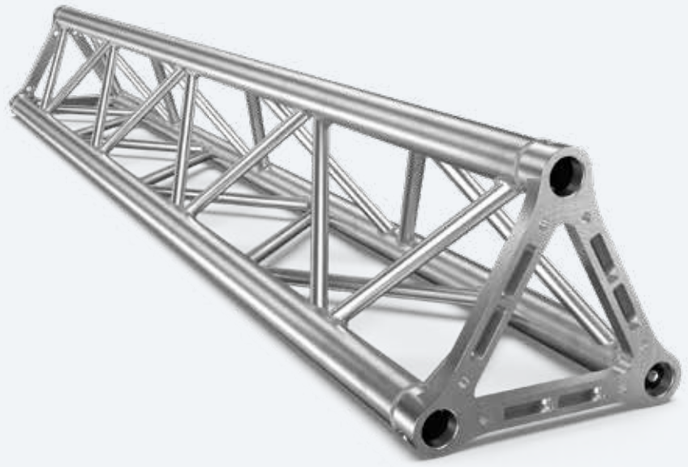
END PLATED TRUSS
TH30SA

Anti-torsion



Triangular truss with 29 cm sides – Heavy-Duty Line

The “H” series trusses are engineered to deliver enhanced performance compared to the corresponding “X” series models.

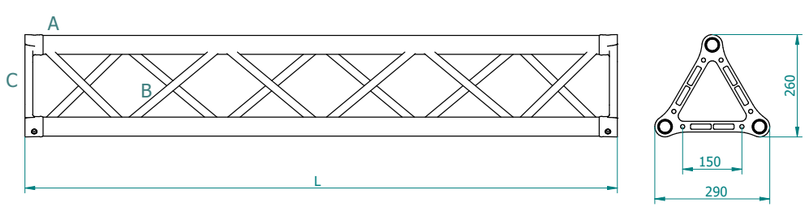
Featuring an anti-torsion design and thicker main tubes, this truss has a higher overall weight, but also significantly improved load capacity and span performance

Main tubes: Ø48 × 3 mm aluminium
Diagonals: Ø20 × 2 mm aluminium

LINEAR ELEMENTS

Code	W × H × D (cm)	kg	Code	W × H × D (cm)	kg
TH30SA010M5	29 × 26 × 10.5	2.3	TH30SA200	29 × 26 × 200	11.1
TH30SA021	29 × 26 × 21	2.6	TH30SA250	29 × 26 × 250	13.3
TH30SA025	29 × 26 × 25	3.0	TH30SA300	29 × 26 × 300	15.6
TH30SA050	29 × 26 × 50	4.2	TH30SA350	29 × 26 × 350	17.9
TH30SA100	29 × 26 × 100	6.5	TH30SA400	29 × 26 × 400	20.1
TH30SA150	29 × 26 × 150	8.8			

Chords A	Diagonals B	Ends C	Connection systems
Extruded tube Ø 48 × 3 mm EN AW – 6082 T6	Extruded tube Ø 20 × 2 mm EN AW – 6082 T6	Aluminium casting plate EN AC – 42200 KT6	QXFC: quick-fit kit QXSM10: bolt connection kit



Load table / Spigot connection

	Unif. distributed load			Centre point load			Third point load			Quarter point load			Fifth point load		
span	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	1070	2141	3	1093	1093	2	820	1639	3	547	1640	2	455	1822	3
3	483	1450	6	725	725	5	544	1087	6	362	1087	6	302	1208	6
4	270	1079	10	540	540	8	405	809	11	270	809	10	225	899	10
5	171	855	16	427	427	13	321	641	17	214	641	15	178	712	16
6	117	704	23	352	352	19	264	528	24	176	528	22	147	586	24
7	85	595	32	297	297	26	223	446	32	149	446	30	124	496	32
8	64	511	42	256	256	34	192	384	42	128	384	40	107	426	42
9	50	446	53	223	223	43	167	334	54	111	334	50	93	372	53
10	39	392	65	196	196	54	147	294	67	98	294	62	82	327	66
11	32	348	79	174	174	66	130	261	81	87	261	76	72	290	80
12	26	310	94	155	155	79	116	232	96	77	232	90	65	258	95
13	21	277	111	139	139	93	104	208	113	69	208	107	58	231	112
14	18	248	129	124	124	109	93	186	131	62	186	124	52	207	130
15	15	222	149	111	111	127	83	167	151	56	167	143	46	186	150
16	13	200	170	100	100	146	75	150	173	50	150	164	39	166	171

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 **TH30SA**



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 **KSP**

R-spring, Steel Pin,
set of 100 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
for Q Series



QXSM10

Bolt connection set
for 30 – 40 series

Complements

A range of complementary elements is available as standard to help you interface your TX30SA in the best possible way.



FP30

FX30/TX30/QX30/TH30/QH30 universal
floor plate



FP30M

FX30/TX30/QX30/TH30/QH30 universal
floor plate (large 50×50 cm)



QU3040H050

29-40 Special Truss L=050
with hoist support



C030

Bar Hook for 29 cm truss



C030WB

29 cm wall bracket W/half couplers



C029-40

Ceiling support for 29-30 cm truss



CBT3040

2 points Bridle Hook for 29-40 cm truss

Corners

The TH30SA line includes only the two most basic corners as standard. However, additional corners - similar to those in the TX30SA series or with different angles - can be made on request.



Code	W × D × H (cm)	Kg
TH30SAL2090	50 × 50 × 26	5.4
ST 29 cm triangular - 2 way 90° corner		



Code	W × D × H (cm)	Kg
TH30SAT3	50 × 50 × 26	6.4
ST 29 cm triangular - 3 way tee		



Code	W × D × H (cm)	Kg
TU30BHH	100 × 37 × 32	16.8
Truss hinge 29 cm triangular truss		

The use of a triangular truss within a composite structure depends on the position of the triangle apex. Multiple corner combinations are possible, and custom solutions not shown in this page can be provided on request.