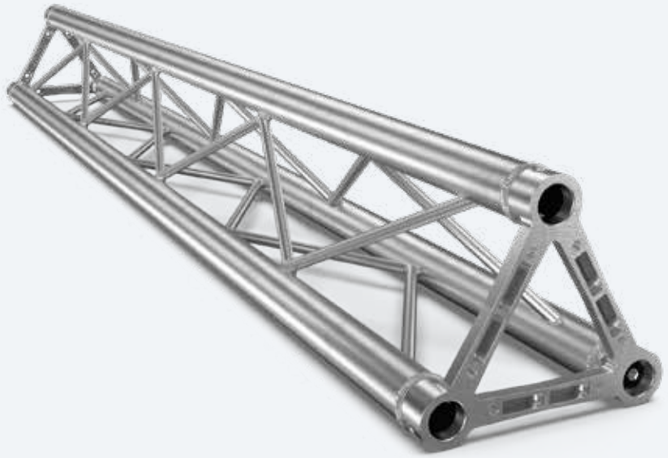
END PLATED TRUSS
TX25SA

Anti-torsion



Triangular section aluminium truss with 25 cm sides

This is the triangular version of the lightest professional truss, yet it still provides a reasonable loading capacity and span.

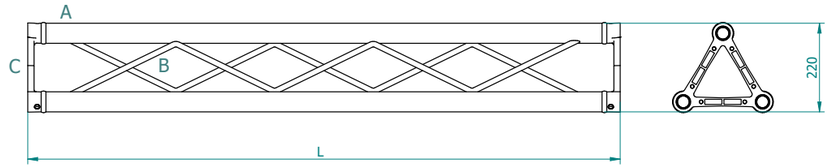
The slim diagonals are made from a single bent profile, reducing the visual impact of the structure, making it ideal for applications that require a low-profile appearance.

Main tubes: Ø50.8 × 1.6 mm aluminium
Diagonals: Ø14 × 1.5 mm aluminium

LINEAR ELEMENTS

Code	W × H × D (cm)	kg	Code	W × H × D (cm)	kg
TX25SA012M5	25 × 22.5 × 12.5	1.3	TX25SA200	25 × 22.5 × 200	5.8
TX25SA025	25 × 22.5 × 25	1.6	TX25SA250	25 × 22.5 × 250	7.0
TX25SA050	25 × 22.5 × 50	2.2	TX25SA300	25 × 22.5 × 300	8.1
TX25SA100	25 × 22.5 × 100	3.6	TX25SA350	25 × 22.5 × 350	9.5
TX25SA150	25 × 22.5 × 150	4.8	TX25SA400	25 × 22.5 × 400	10.6

Chords A	Diagonals B	Ends C	Connection systems
Extruded tube Ø 50.8 × 1.6 mm EN AW – 6060 T6	Extruded tube Ø 14 × 1.5 mm EN AW – 6060 T6	Aluminium casting plate EN AC – 42200 KT6	QXFC: quick-fit kit QXSM8: 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	433	433	0	433	433	0	217	433	0	144	433	0	108	433	0
2	214	429	1	429	429	2	214	429	2	143	429	2	107	429	1
3	142	425	4	411	411	6	212	425	6	142	425	5	106	425	5
4	105	421	10	314	314	12	210	421	13	140	421	12	105	421	12
5	83	417	19	253	253	19	183	366	23	128	383	22	104	417	23
6	69	412	33	209	209	27	153	306	34	104	313	32	87	348	34
7	50	350	46	175	175	38	130	261	47	88	263	44	73	292	46
8	37	299	60	149	149	50	112	224	62	75	224	58	62	249	61
9	29	258	77	129	129	63	97	193	78	64	193	73	54	215	77
10	22	224	95	112	112	79	84	168	97	56	168	91	47	187	95
11	18	196	115	98	98	97	73	147	117	49	147	111	41	163	116
12	14	172	138	86	86	117	64	129	140	43	129	132	36	143	138
13	12	151	162	75	75	139	56	113	165	38	113	156	31	125	163
14	9	132	189	66	66	164	49	99	192	33	99	183	27	110	190

Cantilever load table / Spigot connection

span	Unif. distributed load			Centre point load	
[m]	[kg/m]	[kg]	mm	[kg]	mm
1	433	217	0	217	0
2	214	214	1	214	2
3	142	212	2	204	6
4	105	210	6	156	11
5	83	208	12	125	18
6	65	195	19	103	26

Axial load table

span		
[m]	[kg]	[kg]
1.0	5675	5235
2.0	5420	3528
3.0	4986	1963
4.0	4323	1180
6.0	2770	
9.0	1407	

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 **TX25SA**



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



QXSM8

Bolt connection set (for 25 series only)

Complements

A range of complementary elements is available as standard to help you interface your TX25SA in the best possible way.



FP25

FX25/TX25/QX25 universal floor plate



FP25M

FX25/TX25/QX25 universal floor plate (large 50×50 cm)



C025

Bar hook for 25 cm truss



C025WB

25 cm wall bracket W/half couplers

Corners

A wide range of corner elements is available for the TX25SA System. Standard corners come in various opening angles. Here we present the most commonly used angles. Other solutions are available on request.



Code	W × D × H (cm)	Kg
TX25SAL2045	100 × 100 × 22.5	6.8

ST 25 cm triangular - 2 way 45° corner



Code	W × D × H (cm)	Kg
TX25SAL2060	100 × 100 × 22.5	7.2

ST 25 cm triangular - 2 way 60° corner horizontal



Code	W × D × H (cm)	Kg
TX25SAL2090	50 × 50 × 22.5	4.3

ST 25 cm triangular - 2 way 90° corner



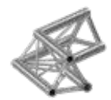
Code	W × D × H (cm)	Kg
TX25SAL2090E	50 × 50 × 25	3.0

ST 25 cm triangular - 2 way 90° corner ext. vertex



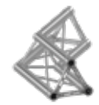
Code	W × D × H (cm)	Kg
TX252090I	50 × 50 × 25	2.9

ST 25 cm triangular - 2 way 90° corner int. vertex



Code	W × D × H (cm)	Kg
TX25SAL2120	50 × 50 × 22.5	3.0

ST 25 cm triangular - 2 way 120° corner



Code	W × D × H (cm)	Kg
TX25SAL2135	50 × 50 × 22.5	3.1

ST 25 cm triangular - 2 way 135° corner



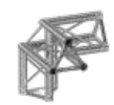
Code	W × D × H (cm)	Kg
TX25SAL3L	50 × 50 × 50	3.8

ST 25 cm triangular - 3 way corner



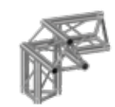
Code	W × D × H (cm)	Kg
TX25SAL3R	50 × 50 × 50	4.2

ST 25 cm triangular - 3 way corner



Code	W × D × H (cm)	Kg
TX25SAL3LU	50 × 50 × 50	4.1

ST 25 cm triangular - 3 way corner



Code	W × D × H (cm)	Kg
TX25SAL3RU	50 × 50 × 50	4.2

ST 25 cm triangular - 3 way corner



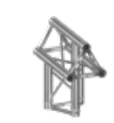
Code	W × D × H (cm)	Kg
TX25SAT3	50 × 50 × 22.5	4.2

ST 25 cm triangular - 3 way tee horizontal



Code	W × D × H (cm)	Kg
TX25SAT3F	50 × 50 × 25	3.6

ST 25 cm triangular - 3 way 90° tee



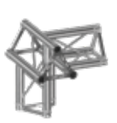
Code	W × D × H (cm)	Kg
TX25SAT3FU	50 × 50 × 25	3.5

ST 25 cm triangular - 3 way 90° tee



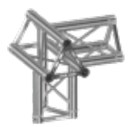
Code	W × D × H (cm)	Kg
TX25SAT4	50 × 50 × 50	4.8

ST 25 cm triangular - 2 way 90° tee



Code	W × D × H (cm)	Kg
TX25SAT4LU	50 × 50 × 50	4.9

ST 25 cm triangular - 4 way 90° tee



Code	W × D × H (cm)	Kg
TX25SAT4RU	50 × 50 × 50	4.9

ST 25 cm triangular - 4 way tee horizontal



Code	W × D × H (cm)	Kg
TX25SAX4	50 × 50 × 22.5	4.0

ST 25 cm triangular - 4 way cross



Code	W × D × H (cm)	Kg
TX25SAX5	50 × 50 × 50	6.1

ST 25 cm triangular - 5 way cross



Code	W × D × H (cm)	Kg
TX25SAX6	50 × 50 × 50	6.1

ST 25 cm triangular - 6 way cross

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