END PLATED TRUSS
FX25SA



Flat truss with 25 cm side dimension

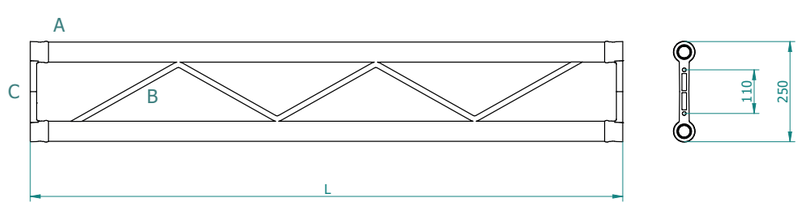
This is the most compact model in the LITEC Plated series, designed for applications where space and weight are key factors. It features main tubes with a diameter of 50.8 and a wall thickness of 1.6 mm, while the bracing consists of bent tubes measuring 14 mm in diameter.

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
FX25SA012M5	25 × 5 × 12.5	0.8	FX25SA200	25 × 5 × 200	3.9
FX25SA025	25 × 5 × 25	1.0	FX25SA250	25 × 5 × 250	4.6
FX25SA050	25 × 5 × 50	1.5	FX25SA300	25 × 5 × 300	5.4
FX25SA100	25 × 5 × 100	2.3	FX25SA350	25 × 5 × 350	6.2
FX25SA150	25 × 5 × 150	3.0	FX25SA400	25 × 5 × 400	7.0

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	248	248	0	248	248	0	124	248	0	83	248	0	62	248	0
2	123	246	1	237	237	1	123	246	1	82	246	1	61	246	1
3	81	244	2	126	126	2	94	189	3	63	189	2	52	210	2
4	27	109	3	54	54	2	41	82	3	27	82	3	23	91	3
5	11	53	3	26	26	2	20	40	3	13	40	3	11	44	3
6	4	26	3	13	13	2	10	20	3	7	20	3	5	22	3

Axial load table

span	Axial load
[m]	[kg/m]
2	193
3	85
4	48

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 **FX25SA**



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, set of 100 — 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)



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 FX25SA in the best possible way.



FX25SAACL

ST 25 cm flat - Clamp module long



FX25SAACS

ST 25 cm flat - Clamp module short



FP25

FX25/TX25/QX25 universal floor plate



FP25M

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

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. Each version includes **Light-Duty** models with die-cast nodes, as well as **Heavy-Duty** models featuring CNC-machined solid aluminium nodes.

Light-Duty Dado



Code	W × D × H (cm)	Kg
FX25C2	25 x 5 x 5	1.2

4 way box corner (2 nodules) is the Dado version designed for connecting flat trusses. Particularly suitable for creating grids. Light-Duty version



Code	W × D × H (cm)	Kg
FX25C4	25 × 25 × 5	3.3

4 way box corner (4 nodules) is suitable for square-section trusses and intersections between square and flat trusses. Light-Duty version.

Heavy-Duty Dado



Code	W × D × H (cm)	Kg
FU25K2	25 × 5 × 5	1.3

4 way box corner (2 nodules) is the Dado version designed for connecting flat trusses. Particularly suitable for creating grids. Heavy-Duty version.



Code	W × D × H (cm)	Kg
FU25K4	25 × 25 × 5	3.4

4 way box corner (4 nodules) is suitable for square-section trusses and intersections between square and flat trusses. Heavy-Duty version with welded diagonal.

Corners

A wide range of corner elements is available for the FX25SA 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
FX25SAL2045P	100 × 100 × 5	2.0

ST 25 cm flat - 2 way 45° corner



Code	W × D × H (cm)	Kg
FX25SAL2060P	50 × 50 × 5	2.7

ST 25 cm flat - 2 way 60° corner horizontal



Code	W × D × H (cm)	Kg
FX25SAL2090P	50 × 50 × 5	1.7

ST 25 cm flat - 2 way 90° corner horizontal



Code	W × D × H (cm)	Kg
FX25SAL2120P	50 × 50 × 5	1.7

ST 25 cm flat - 2 way 120° corner horizontal



Code	W × D × H (cm)	Kg
FX25SAL2135P	50 × 50 × 5	2.1

ST 25 cm flat - 2 way 135° corner horizontal



Code	W × D × H (cm)	Kg
FX25SAT3NP	50 × 50 × 5	2.1

ST 25 cm flat - 3 way tee horizontal



Code	W × D × H (cm)	Kg
FX25SAX4NP	50 × 50 × 5	3.0

ST 25 cm flat - 4 way cross horizontal



Code	W × D × H (cm)	Kg
FX25SAL2045V	50 × 50 × 25	3.0

ST 25 cm flat - 2 way 45° corner vertical



Code	W × D × H (cm)	Kg
FX25SAL2060V	50 × 50 × 25	3.3

ST 25 cm flat - 2 way 45° corner vertical



Code	W × D × H (cm)	Kg
FX25SAL2090V	50 × 50 × 25	1.7

ST 25 cm flat - 2 way 90° corner vertical



Code	W × D × H (cm)	Kg
FX25SAL2120V	50 × 50 × 25	1.9

ST 25 cm flat - 2 way 120° corner vertical



Code	W × D × H (cm)	Kg
FX25SAL2135V	50 × 50 × 25	1.9

ST 25 cm flat - 2 way 135° corner vertical



Code	W × D × H (cm)	Kg
FX25SAL3LP	50 × 50 × 50	2.5

ST 25 cm flat - 3 way corner left horizontal



Code	W × D × H (cm)	Kg
FX25SAL3P	50 × 50 × 50	2.5

ST 25 cm flat - 3 way corner left vertical



Code	W × D × H (cm)	Kg
FX25SAL3LV	50 × 50 × 50	2.7

ST 25 cm flat - 3 way corner right horizontal



Code	W × D × H (cm)	Kg
FX25SAL3RV	50 × 50 × 50	2.7

ST 25 cm flat - 3 way corner right vertical



Code	W × D × H (cm)	Kg
FX25SAT3NV	50 × 50 × 25	2.1

ST 25 cm flat - 3 way tee vertical



Code	W × D × H (cm)	Kg
FX25SAT4NP	50 × 50 × 50	2.5

ST 25 cm flat - 4 way tee horizontal



Code	W × D × H (cm)	Kg
FX25SAT4NV	50 × 50 × 50	2.7

ST 25 cm flat - 4 way tee vertical



Code	W × D × H (cm)	Kg
FX25SAX4NV	50 × 50 × 25	2.4

ST 25 cm flat - 4 way cross vertical