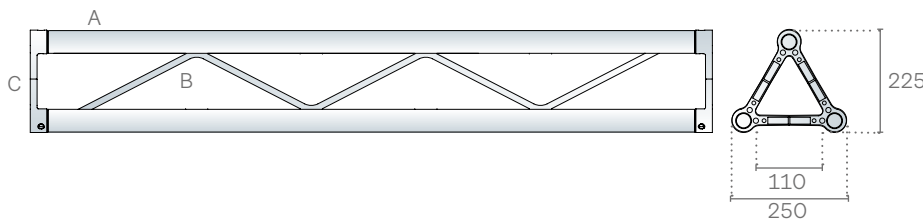


TX25SA

Anti-torsion



Triangular section aluminium truss with 25 cm long sides. This is the triangular version of the lightest professional structure, yet it is able to guarantee a reasonable loading capacity and span. The internal 14 mm diameter diagonal components are flush which decreases the aesthetic impact of this truss, which may therefore also be used in small areas.



Corners and fittings

| code | cm | kg |
|--------------|------------------|-----|
| TX25SAL2045 | 100 x 100 x 22.5 | 6.8 |
| TX25SAL2060 | 100 x 100 x 22.5 | 7.2 |
| TX25SAL2090 | 50 x 50 x 22.5 | 4.3 |
| TX25SAL2090I | 50 x 50 x 25 | 3.0 |
| TX25SAL2090E | 50 x 50 x 25 | 3.0 |
| TX25SAL2120 | 50 x 50 x 22.5 | 3.0 |
| TX25SAL2135 | 50 x 50 x 22.5 | 3.1 |
| TX25SAL3L | 50 x 50 x 50 | 4.2 |
| TX25SAL3LU | 50 x 50 x 50 | 4.1 |
| TX25SAL3R | 50 x 50 x 50 | 4.2 |
| TX25SAL3RU | 50 x 50 x 50 | 4.1 |
| TX25SAT3 | 50 x 50 x 22.5 | 3.4 |
| TX25SAT3F | 50 x 25 x 50 | 3.6 |
| TX25SAT3FU | 50 x 25 x 50 | 3.5 |
| TX25SAT4 | 50 x 50 x 50 | 4.8 |
| TX25SAT4RU | 50 x 50 x 50 | 4.9 |
| TX25SAL3LU | 50 x 50 x 50 | 4.9 |
| TX25SAX4 | 50 x 50 x 22.5 | 4.0 |
| TX25SAX5 | 50 x 50 x 50 | 6.1 |
| TX25SAX5NU | 50 x 50 x 50 | 6.1 |

Chords A

Extruded tube \varnothing 50.8 x 1.6 mm
EN AW – 6060 T66

Diagonals B

Extruded tube \varnothing 14 x 1.5 mm
EN AW – 6060 T6

Ends C

Aluminium casting plate
EN AC – 42200 KT6

Connection systems

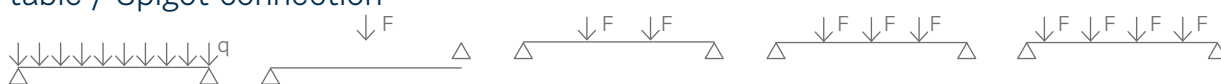
QXFC: quick-fit kit
QXSM8: bolt connection kit

Linear elements

| code | cm | kg |
|-------------|------------------|------|
| TX25SA012M5 | 25 x 22.5 x 12.5 | 1.3 |
| TX25SA025 | 25 x 22.5 x 25 | 1.6 |
| TX25SA050 | 25 x 22.5 x 50 | 2.2 |
| TX25SA100 | 25 x 22.5 x 100 | 3.6 |
| TX25SA150 | 25 x 22.5 x 150 | 4.8 |
| TX25SA200 | 25 x 22.5 x 200 | 5.8 |
| TX25SA250 | 25 x 22.5 x 250 | 7.0 |
| TX25SA300 | 25 x 22.5 x 300 | 8.1 |
| TX25SA350 | 25 x 22.5 x 350 | 9.5 |
| TX25SA400 | 25 x 22.5 x 400 | 10.6 |



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 | 530 | 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 | | |
|------|------------------------|-----|----|-------------------|-----|----|
| | kg/m | kg | mm | kg | kg | mm |
| 0.5 | 433 | 217 | 0 | 217 | 217 | 0 |
| 1.0 | 214 | 214 | 1 | 214 | 214 | 2 |
| 1.5 | 142 | 212 | 2 | 204 | 204 | 6 |
| 2.0 | 105 | 210 | 6 | 156 | 156 | 11 |
| 2.5 | 83 | 208 | 12 | 125 | 125 | 18 |
| 3.0 | 65 | 195 | 19 | 103 | 103 | 26 |

Axial load table

| SPAN | | |
|------|------|------|
| | 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 UNI ENV 1999-1-1 (Eurocode 9). 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 to 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.

TX25SA System

To further enhance the standard products, LITEC offers a wide range of corners, connections and accessories useful for many different applications and needs. "Quick connect" or "nult & bolt connect". End-plated trusses allow to use two different systems of connection. The quick-fit system is certainly the most wide-spread and mainly used when the structure is frequently assembled and dismantled. In case of permanent installations, on the other hand, a more economical bolt connection system may be used. Our plate is made in such a way that bolts may be completely inserted so that there are no edges or external protuberances which could damage canvases or other fabrics or which might simply be unaesthetic on certain structures.

Connections



KSG
Litecstruss 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)



KSF
Threaded pin, set of 12



KCFS
Kit for vert. connec incl.
bolts, spigots and accessories



QXFC
Quick connection set



QXSM8
Bolt connection set
for 25 series

Accessories



FP25
Universal 25 cm truss floor
plate (25 x 25 cm)



FP25M
Universal 25 cm truss floor
plate (50 x 50 cm)



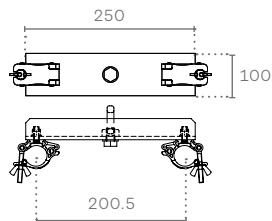
C025WB
25 cm WALL BRACKET
with Coupler



CL2D50
Transport clip. Plastic
casting for truss stacking.
Fits 48 - 51 mm tube



C025
BAR HOOK for 25 cm truss



Dados, Corners & fittings



TX25SAL2045
ST 25 cm. triangular
2 way 45° corner



TX25SAL2060
ST 25 cm. triangular
2 way 60° corner



TX25SAL2090
ST 25 cm. triangular
2 way 90° corner



TX25SAL2090E
ST 25 cm. triangular
2 ways 90° corner, ext. vertex



TX25SAL2090I
ST 25 cm. triangular 2 way 90°
corner, int. vertex



TX25SAL2120
ST 25 cm. triangular
2 way 120° corner



TX25SAL2135
ST 25 cm. triangular
2 way 135° corner



TX25SAL3L
ST 25 cm. triangular
3 way corner left



TX25SAL3R
ST 25 cm. triangular
3 way corner right



TX25SAT3
ST 25 cm. triangular
3 way tee



TX25SAT4
ST 25 cm. triangular
4 way tee



TX25SAX4
ST 25 cm. triangular
4 way cross



TX25SAX5
ST 25 cm. triangular
5 way cross



TX25SAX6
ST 25 cm. triangular
6 way cross