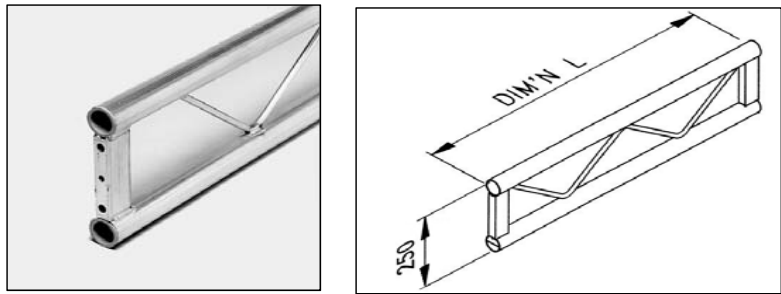


# **LOAD SPAN DATA - METALWORX SST SERIES** **BI (LADDER) TRUSS - 250mm SIDE, 1.6mm WALL THICKNESS MAIN TUBE**

Maximum Total Mass (kg) that can be safely applied for different spans and load patterns\*

| "L" METRIC | IMPERIAL | UDL(kg) | Deflection (mm) | 3pt(kg/pt) | Deflection (mm) | 2pt(kg/pt) | Deflection (mm) | 1pt(kg) | Deflection (mm) |
|------------|----------|---------|-----------------|------------|-----------------|------------|-----------------|---------|-----------------|
| 1m         | 3.5 ft*  | 80 kg   | 0 mm            | 27 kg      | 0 mm            | 40 kg      | 0 mm            | 80 kg   | 0 mm            |
| 2m         | 6.5 ft*  | 80 kg   | 1 mm            | 27 kg      | 2 mm            | 40 kg      | 2 mm            | 80 kg   | 2 mm            |
| 3m         | 10.0 ft* | 80 kg   | 5 mm            | 27 kg      | 6 mm            | 40 kg      | 6 mm            | 80 kg   | 7 mm            |
| 4m         | 13.0 ft* | 80 kg   | 11 mm           | 27 kg      | 14 mm           | 40 kg      | 15 mm           | 60 kg   | 13 mm           |
| 5m         | 16.5 ft* | 80 kg   | 21 mm           | 24 kg      | 24 mm           | 36 kg      | 26 mm           | 48 kg   | 20 mm           |
| 6m         | 19.5 ft* | 80 kg   | 36 mm           | 20 kg      | 34 mm           | 30 kg      | 37 mm           | 40 kg   | 29 mm           |
| 7m         |          | 70 kg   | 38 mm           | 18 kg      | 38 mm           | 26 kg      | 42 mm           | 36 kg   | 34 mm           |
| 8m         |          | 60 kg   | 41 mm           | 17 kg      | 40 mm           | 24 kg      | 44 mm           | 31 kg   | 36 mm           |
|            |          |         |                 |            |                 |            |                 |         |                 |
|            |          |         |                 |            |                 |            |                 |         |                 |

\*- Above imperial lengths are nominal - e.g. 2m = 6.56' ~ 7'



**CONSTRUCTION ...**

- 1/ MAIN TUBES:
- 2" O. Diameter x 16swg wall thickness round tube, with PENN castellated profile
- ALLOY: 6082 T6
- 2/ LACING (ZIG-ZAG): 1/2" O. Diameter x 16swg wall thickness round tube
- ALLOY: 6063A T6
- 3/ END PLATE: 2" x 1" Rect. Box section 10swg wall thickness, PENN solid centre boss.
- ALLOY: 6082 T6
- Designed and manufactured in accordance with BS 7905-2-2000 - Lifting equipment for performance, broadcast and similar applications - Part 2: Specification for design and manufacture of aluminium and steel trusses and towers

Please note this data is for simple spans only, and should only be used for comparison and basic reference purposes. Any further deductions or inferences should only be made by qualified engineers, and/or by contacting us on the number below.

Please note that ladder truss is unusual in that due to its slenderness in the horizontal plane, it is difficult to generalise load data in terms of distribution. Data is provided as a safe guide only.

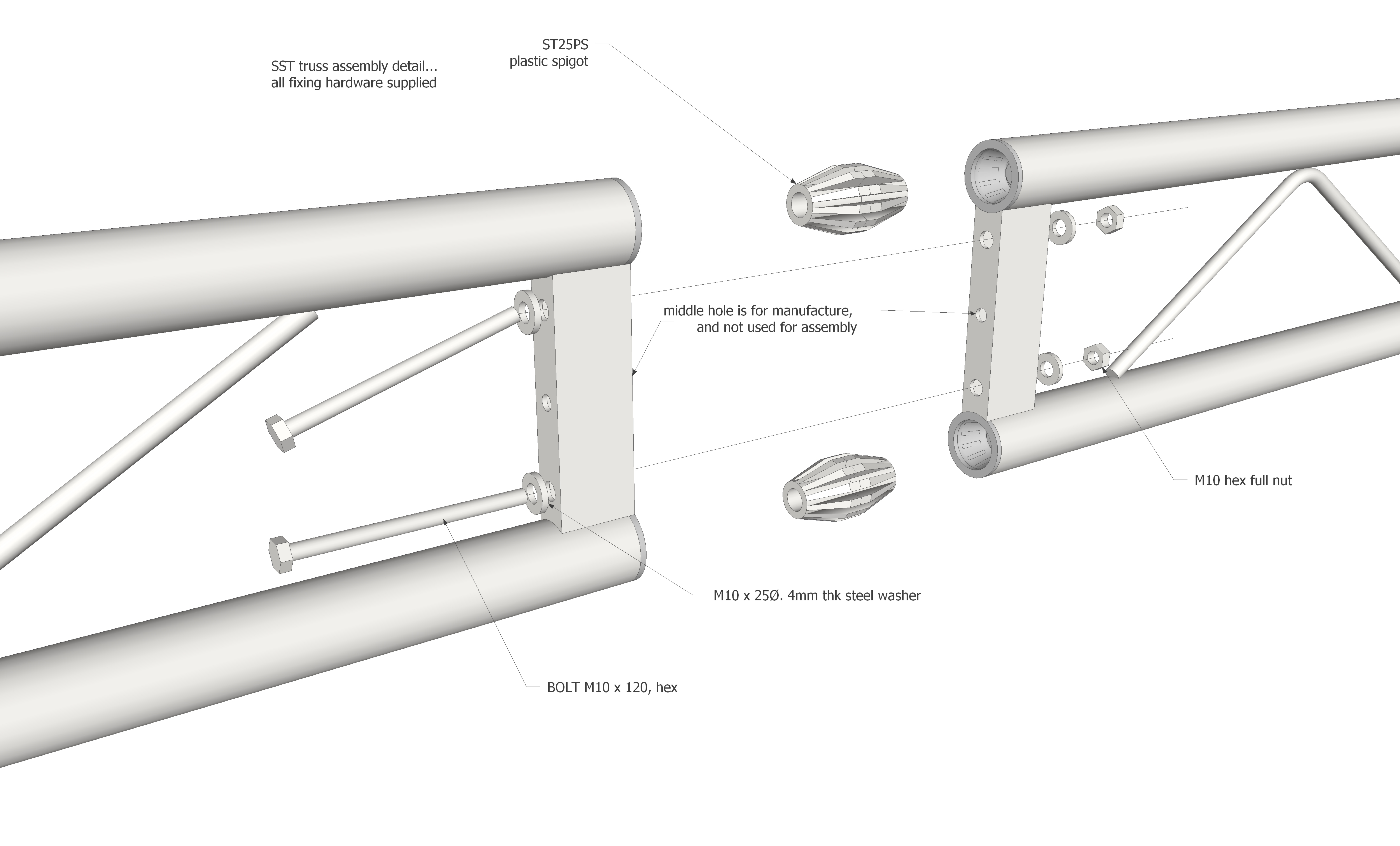
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T: +44 (0)1424 446345

F: +44 (0)1424 446456

sales@metalworx.com



SST truss assembly detail...  
all fixing hardware supplied

ST25PS  
plastic spigot

middle hole is for manufacture,  
and not used for assembly

M10 x 25Ø. 4mm thk steel washer

BOLT M10 x 120, hex

M10 hex full nut