



# Lite Beam

## user information document

All Slick Truss is designed and calculated to the following standards:

DIN 1055, DIN 18800, DIN 4112 , DIN 4113, DIN 1481

All Slick Truss conforms to the 'U-sign' for quality conformance.

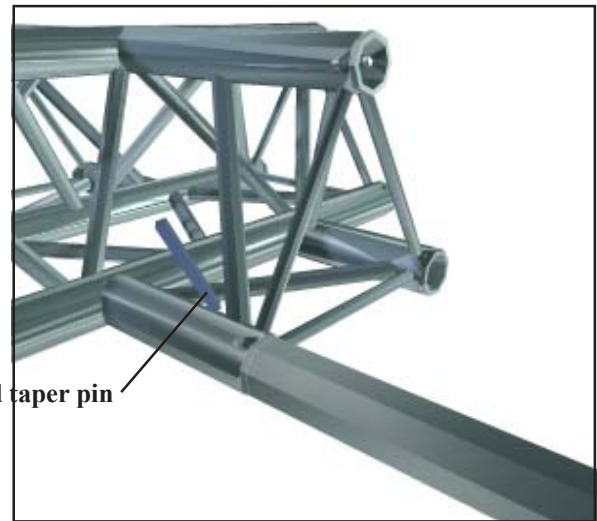
Slick (UK) Ltd is quality controlled internally to EN 729-3 and 729-4 and externally by the RWTUV, Essen and to EN 4113-1. All of our welders are certified to EN287-2.

The following procedures for the connection of Slick Trussing should be followed below.

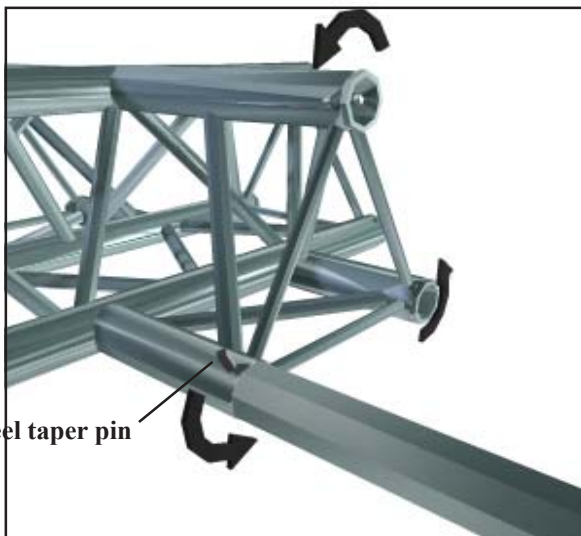
Connection of taper jointed truss:-



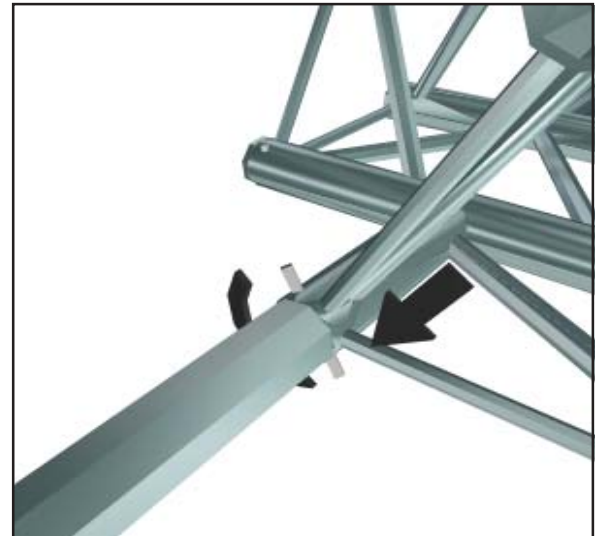
The 'female' taper fitting is designed so that the 'male' taper fitting of another truss length simply insert together.



Once the taper fittings are inserted together, the holes are aligned.



**The taper pin can only be inserted in one direction.** Take care to insert it in the right direction as attempts to insert in the wrong direction may cause undue damage.



Always remember to attach the r-clip through the small hole provided. This is a safety feature of the connection and r-clips must be used at all times.

## Truss Inspection

All truss should be visually inspected every 6 months. A third party inspection should be carried out, on behalf of the owner every 12 months, in accordance with BS7905-2.

Visual checks should include the following:-

- Bent or deformed truss when un loaded.
- Welds incomplete or showing signs of cracking
- Wear on welds and welded areas
- Repairs carried by unauthorised peoples.
- Bent or dented braces
- Bent or dented main tubes
- Elongated pin holes in fittings
- Loose or missing tension pins ( only applies to fork fittings)
- Loose or missing monobolts ( only applies to taper fittings)
- Loose or missing fittings

Please note that neglecting any of the above factors may result in property damage and/or injury to people.

## Loading Figures

Loading figures are produced in accordance with DIN 1055, DIN 18800, DIN 4112, DIN 4113 and DIN 1481

Span / Spannweite		gleichmazing verteilte Last / distributed load		Deflection	mittige Einzellast / center point load		Deflection	Einzellast in den Drittelpunkten / three point load		Deflection
m	ft	kg	lbs	cm	kg	lbs	cm	kg	lbs	cm
1.00	3.3	1697.3	3734.1	0.1	1341.4	2960.5	0.0	848.6	1872.9	0.1
2.00	6.6	1336.2	2939.6	0.2	668.1	1474.5	0.2	501.1	1105.8	0.2
3.00	9.8	885.0	1947.0	0.5	442.5	976.5	0.4	331.9	732.4	0.6
4.00	13.1	657.6	1446.7	1.0	328.8	725.6	0.8	246.6	544.2	1.0
5.00	16.4	520.0	1144.0	1.5	259.9	573.6	1.2	194.9	430.2	1.5
6.00	19.7	426.6	938.5	2.2	213.4	470.9	1.7	160.0	353.2	2.2
7.00	23	359.1	790.0	2.9	179.6	396.4	2.4	134.7	297.3	3.0
8.00	26.2	308.0	677.6	3.8	153.9	339.6	3.1	115.4	254.7	3.9
9.00	29.5	267.3	588.1	4.9	133.5	294.6	3.9	100.1	221.0	5.0
10.00	32.8	234.0	514.8	6.0	116.8	257.8	4.8	87.6	193.4	6.1
11.00	36.1	205.7	452.5	7.3	102.9	227.0	5.8	77.1	170.3	7.4
12.00	39.4	182.4	401.3	8.6	90.9	200.7	6.9	68.2	150.5	8.8

**Please note** the above figures are for Apex-up orientation only. For loading figures for Apex -down configuration please contact Slick (UK) Ltd



Slick (UK) Ltd  
DIN 4113-1  
DIN 4112