

Slick Lite Truss GS Truss

Slick

G.S. Truss combines the lateral strength of Minibeam with high vertical loading. It is a 347mm OD square truss and comes in exactly the same lengths as Mini Beam, i.e. metric and imperial modules, and can be adapted to be used along side in certain circumstances. In addition, Slick's Mini Ladder Beam system can be used in conjunction with both Mini Beam and GS Truss giving greater flexibility to the designer.

GS Truss is widely used in tower applications and can be made into a self climbing tower with the addition of a purpose built steel base unit, head block and a variety of Sleeve Blocks.



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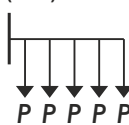
Load Tables

| Span (metres) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
|---------------|------|------|------|------|------|------|------|-----|-----|
| UDL kg | 3388 | 3366 | 2994 | 2207 | 1727 | 1399 | 1158 | 973 | 823 |
| DEFL mm | 1 | 9 | 27 | 47 | 72 | 101 | 132 | 166 | 200 |
| CPL kg | 3388 | 2273 | 1497 | 1104 | 863 | 699 | 579 | 486 | 412 |
| DEFL mm | 2 | 10 | 22 | 38 | 58 | 81 | 106 | 133 | 160 |
| TPL kg | 3388 | 3366 | 2245 | 1655 | 1295 | 1049 | 869 | 730 | 618 |
| DEFL mm | 2 | 12 | 28 | 48 | 74 | 103 | 135 | 170 | 204 |
| QPL kg | 3388 | 3366 | 2245 | 1655 | 1295 | 1049 | 869 | 730 | 618 |
| DEFL mm | 2 | 11 | 26 | 45 | 68 | 96 | 126 | 158 | 190 |

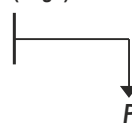
Connection: Fork End. Fixings: TP or GP pins & R3 Clips

| Span (metres) | | 3 |
|---------------|----|------|
| UDL | kg | 1170 |
| DEFL | mm | 11.5 |
| EPL | kg | 580 |
| DEFL | mm | 8.4 |
| CPL | kg | 1170 |
| DEFL | mm | 11.7 |

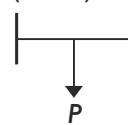
Uniform Load (UDL)



Point Load (Edge)



Point Load (Central)



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- All loads are given in kilograms and are total safe working loads (unfactored) at node points of a chord members only
- Allowance has been made for self-weight of the truss
- Allowance has been made for frequent use factor of 85%
- The payload on a truss has been calculated as a permanent action. Should it be necessary to consider the payload as a variable action, the tabulated figures should be reduced to 90% of the given values
- No allowance for dynamic loading has been made
- Capacity has been calculated in accordance with BS EN 1999 – Design of Aluminium Structures
- All loads applied are symmetrical between bottom 2 chords
- All deflections stated are theoretical deflections which do not account for any connection slippage. As such the values stated in these tables will be less than the actual deflection of the truss
- Care must be taken regarding the correct orientation of the bracing arrangement and support condition of the truss. The figures 1 and 2 show the acceptable orientations and supporting conditions of the truss and figures 3 and 4 show the orientation and support condition that should not be used.

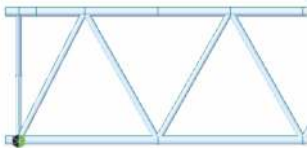


Figure 1: Orientation of the truss supported of bottom chords

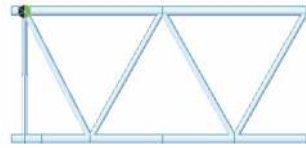


Figure 2: Orientation of the truss supported of top chords

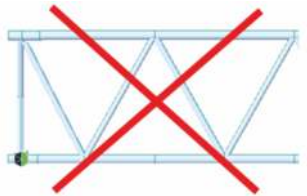


Figure 3: Not allowed orientation of the truss supported of bottom chords

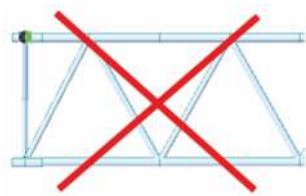


Figure 4: Not allowed orientation of the truss supported of top chords

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Material Specifications

| | |
|--------------------------|-------------------------------------|
| Main Cord: | 48.4mm x 4.47 mm |
| Braces: | 25.44mm x 3.25mm |
| Material Specifications: | EN AW-6082 T6 |
| Fixings: | Fork End : TP or GP pins & R3 Clips |

Accessories

Circles
Hinges and Swivels
Bespoke Lengths
Ladder Sections

Item Codes, Weights and Dimensions

| | | | |
|-------|-------------------------------|------------------------|---------|
| 1G1 | GS Truss 1ft Section | 390mm x 347mm x 347mm | 8 kg |
| 1G2 | GS Truss 2ft Section | 666mm x 347mm x 347mm | 9.5 kg |
| 1G4 | GS Truss 4ft Section | 1243mm x 347mm x 347mm | 14.5 kg |
| 1G6 | GS Truss 6ft Section | 1820mm x 347mm x 347mm | 20 kg |
| 1G8 | GS Truss 8ft Section | 2400mm x 347mm x 347mm | 25 kg |
| 1G050 | GS Truss 0.5mt Section | 500mm x 347mm x 347mm | 10 kg |
| 1G100 | GS Truss 1mt Section | 1000mm x 347mm x 347mm | 13.5 kg |
| 1G200 | GS Truss 2mt Section | 2000mm x 347mm x 347mm | 21.5 kg |
| 1G300 | GS Truss 3mt Section | 3000mm x 347mm x 347mm | 30 kg |
| 1G400 | GS Truss 4mt Section | 4000mm x 347mm x 347mm | 38 kg |
| 1G4W | GS Truss 4 way Corner Section | 447mm x 447mm x 447mm | 12 kg |

Design Specification

Manufactured in accordance with

BS EN 1090-3:2008 : Technical Requirements for aluminium structures

EN ISO 9001:2008 : Quality management systems

BS EN 1999 Pt 1-1 : Design of Aluminium Structures, General structural rules

EN17115 : Entertainment Technology : Specifications for design, manufacture of aluminium and steel trusses and towers

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