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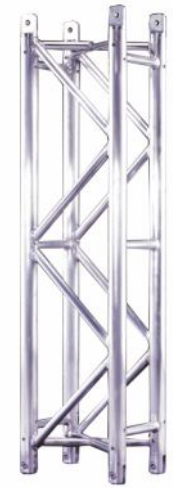
Slick Lite Truss
Mini Beam



Minibeam is a small, medium-duty, extremely compact trussing system which employs the standard, fork end fitting joint, which is quick and easy to connect with the use of Slick truss pins and conforms to the latest EN and DIN standards. Mini Beam is available in both imperial and metric modules. Also in the Minibeam range is the recently introduced universal corner.

Mini Beam has an impressive strength to weight ratio, being able to typically take 1708kg uniform load on a 10m span and with its small size can be easily managed; this is very useful when truck space is tight.

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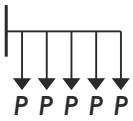
Load Table

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	26	45	69	96	127	159	192
CPL kg	3388	2273	1497	1104	863	699	579	486	412
DEFL mm	2	9	21	36	55	77	101	127	154
TPL kg	3381	3360	2245	1655	1295	1049	869	730	618
DEFL mm	2	12	26	46	70	98	129	162	196
QPL kg	3381	3360	2245	1655	1295	1049	869	730	618
DEFL mm	2	11	24	43	65	91	120	151	182

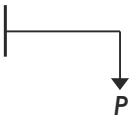
Third and Quarter point loads are displayed as a total load and NOT individual point loads.

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

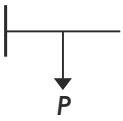
Uniform Load (UDL)



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.

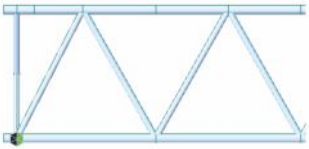

Figure 1: Orientation of the truss supported of bottom chords

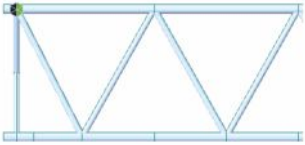

Figure 2: Orientation of the truss supported of top chords

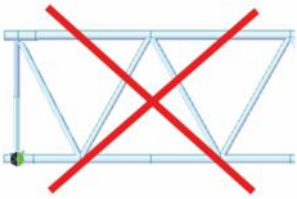

Figure 3: Not allowed orientation of the truss supported of bottom chords

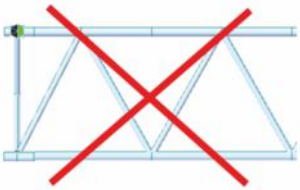

Figure 4: Not allowed orientation of the truss supported of top chords

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Material Specifications

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

Accessories

Circles
Hinges and Swivels
Bespoke Lengths
Ladder Sections

Item Codes, Weights and Dimensions

MB1	Min beam 1ft Truss Section	390mm x 347mm x 255mm	7kg
MB2	Minibeam 2ft Truss Section	666mm x 347mm x 255mm	8.8kg
MB4	Minibeam 4ft Truss Section	1243mm x 347mm x 255mm	13.6kg
MB6	Minibeam 6ft Truss Section	1820mm x 347mm x 255mm	19kg
MB8	Minibeam 8ft Truss Section	2400mm x 347mm x 255mm	23.3kg
MB100	Minibeam 1m Truss Section	1000mm x 347mm x 255mm	8.5kg
MB200	Minibeam 2m Truss Section	2000mm x 347mm x 255mm	19kg
MB300	Minibeam 3m Truss Section	3000mm x 347mm x 255mm	31kg
MB400	Minibeam 4m Truss Section	4000mm x 347mm x 255mm	37.5kg
MB4W	Minibeam 4 way Corner Section	447mm x 447mm x 347mm	8.5kg

Design Specification

Manufactured in accordance with
BS EN 1090-3:2008 : Technical Requirements for aluminium structures
EN ISO 9001:2015 : 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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