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Slick Maxi Beam Truss
Maxi Beam

Maxibeam is Slick System's medium to heavy duty truss, purpose designed and built to meet the rigorous requirements of touring, and situations where fast and easy erection and dismantling is essential.

The truss is available in many configurations, from bottom braced, open bottom, with or without castors or the pre-rigged style with drop-down mechanism. Maxi Beam can be used in a ground support situation using Slick towers along with the use of a Maxi Beam traveling corner block.

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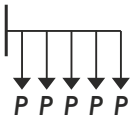
Load Tables

Span (metres)	3	6	9	12	15	18	21	24	27	30
UDL kg	5050	4530	2960	2160	1660	1320	1060	860	700	560
DEFL mm	2	15	33	58	88	121	156	190	221	247
CPL kg	4592	2260	1480	1080	830	660	530	430	350	280
DEFL mm	3	13	27	47	71	97	125	153	178	198
TPL kg	4640	3170	2070	1500	1150	910	730	590	470	370
DEFL mm	3	15	33	56	85	116	149	181	209	231
QPL kg	4640	3400	2220	1620	1240	990	790	640	520	420
DEFL mm	3	15	32	56	84	115	149	181	211	235

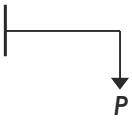
Third and Quarter point loads are displayed as a total load and NOT individual point loads.

Span (metres) Cantilever Span		3
UDL	kg	2490
DEFL	mm	8.3
EPL	kg	1450
DEFL	mm	12.8
CPL	kg	2490
DEFL	mm	7.4

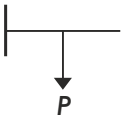
Uniform Load (UDL)



Point Load (Edge)



Point Load (Central)



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- All loads are given in kilograms and are safe working loads (unfactored) at node points of a chord members only.
- These are idealised loading conditions. Should it be necessary to consider a different load arrangement, the user must re-analyse the truss.
- Allowance has been made for self-weight of the Maxi-Beam.
- Allowance has been made for frequent use factor of 85%
- The payload on a Maxi-Beam 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 Maxi-Beam.
- Care must be taken regarding the support condition of the Maxi-Beam. Figures 1.4 and 1.5 shows the acceptable support conditions at the braced node. Figures 1.6 to 1.19 show the support conditions that should not be used and can be found in the full structural report, available on request.
- The MaxiBeam version without the bottom braces must always be supported off the top chords.

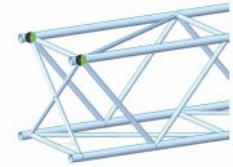

Figure 1.4: Orientation of the beam with bottom braces supported off top chords

Figure 1.5: Orientation of the beam with bottom braces supported off bottom chords

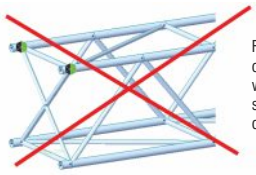

Figure 1.6: Not allowed orientation of the beam with bottom braces supported off top chords

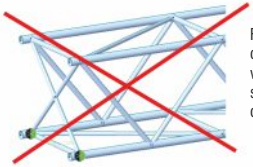

Figure 1.7: Not allowed orientation of the beam with bottom braces supported off bottom chords

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Material Specifications

Main Chord:	48.4mm x 4.47 mm
Braces:	31.75mm 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

M10/BB	Maxibeam 1.0mt Truss	1000mm x 617mm x 617mm	15kg
M12/BB	Maxibeam 1.2mt Truss	1200mm x 617mm x 617mm	18kg
M20/BB	Maxibeam 2.0mt Truss	2000mm x 617mm x 617mm	30kg
M24/BB	Maxibeam 2.4mt Truss	2400mm x 617mm x 617mm	35kg
M30/BB	Maxibeam 3.0mt Truss	3000mm x 617mm x 617mm	43kg
M40/BB	Maxibeam 4.0mt Truss	4000mm x 617mm x 617mm	62kg
M48/BB	Maxibeam 4.8mt Truss	4800mm x 617mm x 617mm	70kg
M90	Maxibeam 90deg corner	667mm x 667mm x 617mm	20kg
M3	Maxibeam 3 Way corner	717mm x 667mm x 617mm	21kg
M4	Maxibeam 4 Way corner	717mm x 717mm x 617mm	22kg

All Maxibeam is available with optional castor wheels

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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