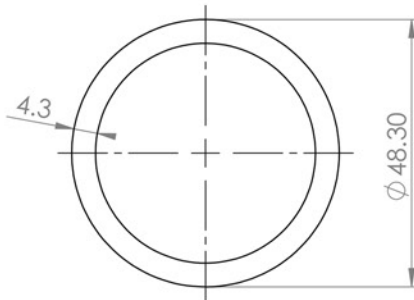


<b>Material Specification</b>	Grade 6082 T6 Aluminium Alloy (only UK sourced aluminium used)
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<b>Dimension Specification</b>	Tube: 48.3mm dia. x 4.2-4.4mm wall thickness
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Main Boom & Verticals

**If the Made In Britain hologram sticker is not present, then specification is invalid.**



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1. Serial number

<b>Loading Specification</b>	For simply supported single Ladder beams to EUROCODE EN-1999-1 / BS 8118.
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### Overall Graded Results for Allowable Working Loads

Compression chord restraint at 1.0m intervals

		Span (m)			
		3	6	9	12
Allowable Bending Moment	kNm	3.9	7.2	8.1	9.0
Allowable Shear (Load on vertical)	kN	4.0	4.5	4.7	4.8

Weight	4.27 kg/m
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### Allowable loads for load distributions

Type of Load		Clear span (m)											
		2	3	4	5	6	7	8	9	10	11	12	
Uniformly distributed load	kN/m	4.0	2.7	2.3	1.8	1.5	1.2	1.0	0.8	0.7	0.6	0.5	
Total UDL	kN	8.0	8.0	9.0	9.0	9.0	8.2	8.1	7.2	6.5	6.6	6.0	
Single point load (mid point)	kN	7.8	5.2	7.2	5.8	4.8	4.1	4.1	3.6	3.2	3.3	3.0	
Two point loads (third points)	Each kN	4.0	3.9	4.5	4.3	3.6	3.1	3.0	2.7	2.4	2.5	2.2	
Three point loads (quarter points)	Each kN	2.7	2.6	3.0	2.9	2.4	2.1	2.0	1.8	1.6	1.6	1.5	

- Notes:
- Above allowable loads may be increased by 1.11 for wind loading only
  - This table is provided as a guide only and assume all loads are applied at nodes.
  - Maximum capacity of a point load mid-way between nodes is 11kN, but overall buckling of the top chord should be checked if loads are placed other than at restrained loads. Compression chord restraint required at 1m c/c.
  - Restraint point must support both top and bottom booms at restraint location.

<b>Additional Information</b>	<p>Our welders are qualified to: EN 287-1 AS/NZS 1665 2004 BS EN 9606-2 2004 ISO 5817 2007 Welding and material test certs available on request.</p> <p>Apollo Scaffold Services are accredited to EN 1090-1:2009+A1:2011 - Execution of steel structures and aluminium structures (0086-CPR-637568). The manufacture (including welding) of structural work in steel and aluminium up to and including Execution Class 2 (EXC 2) as defined in EN 1090-2 and EN 1090-3. Full set of calculations available on Apollo Scaffold Services website: <a href="http://apolloscaffoldservices.co.uk">apolloscaffoldservices.co.uk</a></p>
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<b>Disclaimer</b>	<b>Apollo Scaffold Services Ltd. advise on using a qualified structural engineer to design any project using aluminium beams.</b>
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