

## TECHNICAL DATA SHEET Apollo 1300mm X-Beam

Material Specification	Grade 6082 T6 Aluminium Allov											
	Grade		iniuni At	loy								
Loading Specification	For simply supported single X-Beams to Eurocode EN 1991-1/BS EN 8118.											
Loading specification	All load values are based on the compression chords restrained at 1 0m centres											
	All load	d values are based		mpression	r chords r	estramet		entres.				
Overall Graded Results for	r Allowa	able Working	Loads				Maisht		11.21.0./00			
Compression chord restrain	nt at 1 (	)m intervals					Area		11.2Kg/m	·		
compression chord restrain	it at 1.0	JIII IIILEI Vals					Ix		5.13x10 <sup>8</sup> r	nm <sup>4</sup>		
			Span	(m)			ly		2.9x10⁵m	m <sup>4</sup>		
		6	9	12	15	18	Cx		1348mm			
Allowable Bending Moment	kNm	98.2	98.2	98.2	98.2	98.2	Су		24.15mm			
Allowable Shear (Load on vertical)	kN	50	50	50	50	50	E		7x10⁴N/m	IM <sup>2</sup>		
Maximum allowable beam bending	moment	capacity has been	verified b	y testing a	as per BS	EN 1990	Annex D D	7.2.				
					Span	(m)						
		6	9	12	15	18	21	24	27	30		
Uniformally distributed load	kN/m	21.8	9.7	5.5	3.5	2.4	1.8	1.4	1.1	0.9		
Single point load	KN kN	130.9	87.3	65.5	52.4	43.6	37.4	3Z.7	29.1	26.2		
Two point loads	Each kN	49.1	32.7	24.6	19.6	16.4	14.0	12.3	10.9	9.8		
Three point loads	Each kN	32.7	21.8	16.4	13.1	10.9	9.4	8.2	7.3	6.5		
5. 6. 7. 8. 9. 10. 11.	are requir Allowable The tables All beams Supporting Maximum Factor of S Permissab and obtair Restraint p	ed. loads take into accou s above are based on t are assumed simply si g calculations are base single point load 15kN Safety 1.65. le loads calculated in ned through physical t point must support bo	nt the self w the support of upported. ed on BS EN I (to be positi accordance esting to EN th top and b	reight of the conditions fo 1999-1-2 A2. cioned as clo with EN 199 12811 Part i ottom boom	beam. or the beam ose to the n 9-1-1:2007 3. Is at restrai	ode as poss nt location	at a beam no	ode point				
Additional Information	Welding and material test certs available on request. 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: apolloscaffoldservices.co.uk											
Disclaimer	Apollo Scaffold Services Ltd. advise on using a qualified structural engineer to design any project using aluminium beams.											
SCAFFOLDING ASSOCIATION ASSOCIATE MEMBER	Registrant 6958	ngineering ouncil 75 of the Engineering Council	PCN	CN No. 347301	TU	V NORI			MAD BRI	PE IN FAIN		

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Material Specification	Grade 6082 T6 Aluminium Alloy							
Dimension Specification	Tube: 48.3mm dia. x 4.2-4.4mm wall thickness Oval/Diagonal: 50.5mm x 19.05mm x 3.25mm wall thickness (rec tube 4 rads)							
4.3 4.3 Hain Boom & Vertica	If markings are not present then specification is invalid. If markings are not present then specification is invalid. If provide the specification is inva							
Fixing Specification	M12x65 Grade 8.8 Zinc Plated Bolts and Nyloc Nuts							
Image: Construction of the state of the								
Additional Information	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. 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: apolloscaffoldservices.co.uk							
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## TECHNICAL DATA SHEET Apollo 1300mm X-Beam

Key Dimensions Dimensions of Beam and Spigot Connection					
Standard Beam Lengths	580mm / 1000mm / 2000mm / 3000mm / 4000mm / 5000mm / 6000mm				
Spigot connections can be for the second sec	100 100 100 100 100 100 100 100				
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