

# TECHNICAL INFORMATION

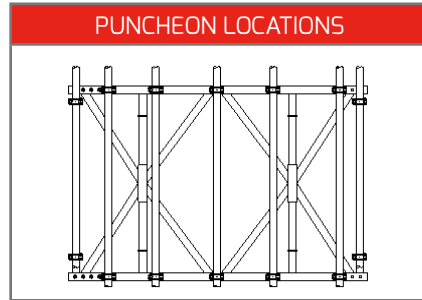
## ASTERIX HD BEAM

### TIS14001D

ARTICLE	IMAGE	DESCRIPTION	WEIGHT (kg)
BD0550		ASTERIX HD Aluminium Beam 0.55m	8.00
BD1000		ASTERIX HD Aluminium Beam 1.0m	12.98
BD2000		ASTERIX HD Aluminium Beam 2.0m	22.02

ARTICLE	IMAGE	DESCRIPTION	WEIGHT (kg)
BD3000		ASTERIX HD Aluminium Beam 3.0m	31.05
BD4000		ASTERIX HD Aluminium Beam 4.0m	40.07
BS0006		ASTERIX HD Beam Spigot 8HS	1.50

CROSS SECTIONAL PROPERTIES	
	<p>Cx: 2.415 cm            Cz: 66.415 cm            Ax: 12.3 cm<sup>2</sup>            Ixx: 50451.7 cm<sup>4</sup>            Izz: 29.9 cm<sup>4</sup>            E: 70,000 N/mm<sup>2</sup></p>



CONNECTIONS	
	<p>Spigot BS0006 plus            8xAF0007 M12x60 G8.8 Bolts            or            8xAF0001 M12x60 Quick release pin</p>

PERMISSIBLE BENDING MOMENT (kNm):	Supported:-	PERMISSIBLE REACTION (kN):	
Joint, 1 bolt each side, all lacing intervals:-		A) Directly under diagonals	32.60
Joint, 2 bolts each side, all lacing intervals:-		B) Directly under a post	32.60
Joint, 3 bolts each side, all lacing intervals:-		C) On two chords**	42.1-(76a)
Joint, 4 bolts each side, all lacing intervals:-		D) On one chord**	23.7-(55a)
Compression chord fully restrained :-		**a=Distance in metres from nearest node to point of support. 0.05 ≤ a ≤ 0.23	
Compression chord lacing at 1.5m c/c :-			

SAFE LOADS (BASED ON SUPPORT CONDITION B)		SPAN (m)				
COMPRESSION CHORD FULLY RESTRAINED SEE NOTE VIII		4.0	8.0	12.0	16.0	20
UNIFORM LOAD	(kN/m)	15.21	7.57	5.02	3.15	1.99
	Deflection (mm)	1.44	11.43	38.41	76.19	117.62
SINGLE POINT LOAD AT MID SPAN	(kN)	47.57	47.57	33.94	25.22	19.94
	Deflection (mm)	1.80	14.37	34.60	60.95	94.10
TWO POINT LOADS AT THIRD SPANS	(kN)	30.41	30.28	25.46	18.92	14.95
	Deflection (mm)	1.96	15.58	44.21	77.88	120.24
THREE POINT LOAD AT QUARTER SPANS	(kN)	20.27	20.19	16.97	12.61	9.97
	Deflection (mm)	1.82	14.48	41.09	72.38	111.74

SAFE LOADS (BASED ON SUPPORT CONDITION B)		SPAN (m)				
COMPRESSION CHORD LACING AT 1.5m C/C SEE NOTE VIII		4.0	8.0	12.0	16.0	20
UNIFORM LOAD	(kN/m)	15.21	7.57	4.28	2.38	1.50
	Deflection (mm)	1.44	11.43	32.70	57.42	88.31
SINGLE POINT LOAD AT MID SPAN	(kN)	47.57	38.82	25.66	19.01	14.97
	Deflection (mm)	1.80	11.73	26.16	45.94	70.65
TWO POINT LOADS AT THIRD SPANS	(kN)	30.41	29.12	19.25	14.26	11.23
	Deflection (mm)	1.96	14.98	33.42	58.70	90.27
THREE POINT LOAD AT QUARTER SPANS	(kN)	20.27	19.41	12.83	9.51	7.48
	Deflection (mm)	1.82	13.92	31.06	54.55	83.89

**MAXIMUM POINT LOAD LIMITED TO 47.57kN FOR ALL LOAD CONDITIONS.**

### NOTES

- Safe load data given for guidance only and assumes simple supports each end. Based on global member capacities, local forces should be assessed.
- This TI sheet is to be read in conjunction with the Beam User Guide USG001.
- Material specification for all members EN AW 6082 T6.
- Data provided is calculated in accordance with EN 1999-1-1:2007+A2:2013 using a net load factor of 1.65 and factored to EN 12811.
- Data provided assumes connection using DESSA steel spigot BS0006, secured using 8no. G8.8 M12x60 Bolts with nut.
- All loads must be applied across 2 chords within 150mm from a node point.
- All supports must have a minimum width of 35mm.
- Restraints should be checked as effective. Full compression chord restraint to be either system decking for round tube fitted with appropriate anti-uplift mechanism or EN 39 steel scaffold tube or B5 1139-1.2 alloy scaffold tube connected at 1m c/c using EN 74 90° degree couplers. Advice should be sought from DESSA if alternative methods of restraint are to be used.

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